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Monthly Operations and Monitoring Report

January 1- January 2007

Site:

Stanton Cleaners Area Control Material Control Control

Prepared for Environmental Communication 1293 Broad Street, Sun 2013 Bloomfield, New Jersey 07003

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Proposed by: Earth Teeh, Inc. 7870 Vills Park Drive, Suite 400 Richmonic Vilginia 23228

February 1, 200

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Stanton Cleaners Area Groundwater Contamination Great Neck, NY

Prepared for:

Environmental Chemical Corporation 1293 Broad Street, Suite 200 Bloomfield, New Jersey 07003

Prepared by:

Earth Tech, Inc. 7870 Villa Park Drive, Suite 400 Richmond, Virginia 23228

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1.0 INTRODUCTION

This Monthly Operations and Monitoring Report, January 2007 (Monthly Report) has been prepared by Earth Tech, Inc., as a subcontractor to Environmental Chemical Corporation (ECC), under Contract No.5442-001-001.

The Stanton Cleaners Area Groundwater Contamination (Stanton) site is located at 110 Cutter Mill Road in Great Neck, Nassau County, New York. The Stanton Cleaner Property (SCP) is approximately ¼ acre in size and includes a two-story building in which a dry-cleaning business operates and an adjacent one-story boiler/storage building as well as a two-story treatment building. The site is bordered by an indoor tennis facility, a synagogue and school facility.

Improper handling and disposal of spent dry cleaning solvents, including Tetrachloroethylene (PCE), resulted in the release of hazardous substances at the site. PCE migrated from the site's 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 PCE-contaminated soil was removed from behind the Stanton Cleaners property.

In 1989, a groundwater extraction and treatment system was installed by the original Site operator to address groundwater contamination which resulted from improper disposal of spent PCE behind the SCP building. This system is not currently operational.

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 October 1998, as an immediate response action, the United States Environmental protection Agency (USEPA) 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 USEPA completed the construction and installation of a soil vapor extraction (SVE) system and a ground water treatment (GWT) system on the SCP. Both the SVE and GWT systems are housed in the treatment building that was constructed on the SCP. The SVE system was installed to remediate the volatile organic compound (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 through the Site soils. Both systems are currently operating at the Site. The collected VOC-contaminated vapors and groundwater from both systems are treated through separate granular activated carbon (GAC) systems.

The site is presently under the jurisdiction of the Remedial Branch of the USEPA, Region II; United States Army Corps of Engineers (USACE) provides oversight to USEPA for the remedial action and the long-term remedial action programs. ECC provides oversight to the USACE to perform long-term remediation actions. Earth Tech, as a subcontractor to ECC, provides support on the following tasks as described in the Work Plan:

- Operation and maintenance (O&M) of the GWT and SVE systems, including sampling and reporting;
- Sampling of monitoring wells associated with the site in order to track the migration of the contaminant plume, along with reporting; and,



 Sampling of indoor air quality of buildings adjacent to the site in order to identify all the adjacent buildings being impacted by site related contaminants and the effectiveness of the remedial actions being instituted at the site.

All work under this contract is performed in accordance with the following documents:

- Work Plan for Long-Term Remedial Action Support;
- Site-Specific Health and Safety Plan (HASP), dated July 23, 2001 (Revised February 3, 2003); and,
- Sampling Quality Assurance Project Plan (SQAPP) dated August 22, 2000.

As required by the Scope of Work for this project, monthly summary reports are prepared to document and summarize the activities taking place. These reports provide a concise description of work performed during the reporting period and include pertinent deliverables as appendices. This monthly summary report covers the period between January 1 to January 31, 2007.



2.0 SUMMARY OF ACTIVITIES DURING DECEMBER 2006

The following list summarizes activities performed and milestone dates under this contract during the reporting period, January 1 to January 31, 2007:

- January 10 Bi-weekly O&M inspection; Bi weekly air monitoring. Drained water from SVE piping.
- January 18 Replace Broken Treatment Building Window; Recorded O&M Data.
- January 23 Bi-weekly O&M Inspection; Bi-weekly Air Monitoring.

Details of system shutdowns and alarms during the month of January 2007 are discussed in section 3.1. Daily Quality Control Reports (DQCRs), which include projected work for the following two weeks, are completed for each day of site activities. Copies of these reports are included as Appendix A.



3.0 GROUNDWATER TREATMENT SYSTEM ACTIVITIES

3.1 Operation and Maintenance

The GWTS treated and discharged 2,459,729.9 gallons during the month of January 2007. The system was operational (recovery well pumps running) for approximately 744 of the 744 hours during the month, for an average operating flow of 55.1 gallons per minute (gpm). The system has treated a total of 145,156,249.1 gallons since the plant startup in October 2001.

There are currently two recovery wells pumping water into the system (EPA-EXT-02 and EPA-MW-24). EPA-EXT-02 is located in the triangle, the corner of New Cutter Mill Road and Mirrielees Road. Extraction well MW-24 had been pumping from the triangle location until it was turned off and April 20, 2005. Extraction well EPA-EXT-4R was activated on April 20, 2005. EPA-EXT-4R is located in the parking lot directly in front of the Stanton Dry Cleaners building. The decision to turn off extraction well MW-24 and replace it with EPA-EXT-4R in April 2005 was made by the USEPA. Later, in early 2006, based on an evaluation of laboratory analytical results obtained from extraction well EPA-EXT-4R and monitoring well sampling results for monitoring wells located in the area of EPA-MW-24, the decision was made to shut down extraction well EPA-EXT-4R and re-activate EPA-MW-24. Therefore, EPA-EXT-4R was taken offline and EPA-MW-24 was activated on February 2, 2006.

The facility is equipped with a remote monitoring and control system that was accessed a minimum of three times per week, by the lead engineer, during the reporting period to ensure proper system operation and notify response personnel if a problem or abnormal condition was observed. The system also provides remote notification of alarm conditions via automatic e-mail and text messaging.

The Treatment System Operation and Maintenance Checklist were completed during each O&M inspection event and the checklists for January 10, 18, and 23, 2007, are provided in Appendix B. When the system is operational, any abnormal conditions or parameters outside of the normal operating range are addressed by the lead operator and/or monitoring/environmental technician on site. If they require guidance or notes any serious conditions, the inspector notifies the project manager (Francisco Metcalf). The checklists are completed on site and sent to Francisco Metcalf for review and scheduling of additional work if needed. Abnormal conditions and/or parameters outside the operating range are addressed, including repairs, cleaning, and continued monitoring.

System operational and alarm conditions are automatically stored by the programmable logic controller (PLC). This data is downloaded every two weeks. The January 2007 operational data is included in Appendix C. While operational, the system data are within the normal ranges and are consistent with visual observations, with any exceptions as described above.

The effluent flow data table in Appendix C shows daily discharge flows from each day of system operation and cumulative treated water discharge for each day during the reporting period, as well as a summary of total monthly flow and average daily flow since the system was started up in October 2001.

A review of October 2005 Operations and Maintenance logs indicated there has been a slight reduction in discharge flow for the GWT system. In an effort to increase the discharge flow, it was determined that the GWT system aqueous phase carbon vessels needed to be placed in parallel in the system treatment train in an effort to reduce back pressure and increase effluent flow. The altering of the piping for the 2-400 pound aqueous phase carbon vessels from series to parallel was performed on November 1, and 2, 2005.



On November 30, 2005 the SVE systems was offline due to a faulty low level sensor in the SVE knockout tank. The sensor was reviewed during the December 19, 2005 O&M inspection and was deemed to be faulty. A new low-level float switch was installed on January 9, 2006.

On January 9, 2006, three drains were installed in the line of SVE 1 so that the line can be drained weekly and so adequate air flow can be obtained at the SVE 1 air sample ports for the bi-weekly air monitoring. On January 24, 2006 the drains were replaced with more permanent ball valve drains.

On December 12, 2006 PLC analog cards in positions 2, 3, and 5 were replaced. The replacement of these analog cards fixed the erroneous communication between ph/conductivity meters and the PLC display panel (as described in the November 2006 O & M Report).

3.2 Sampling and Analysis

3.2.1 Raw and Treated Groundwater

In accordance with the SQAPP, GWT system sampling is conducted on a monthly basis to monitor plant efficiency, to determine whether liquid carbon breakthrough has occurred, and to verify that contract-specific discharge parameters do not exceed the National Pollutant Discharge Elimination System (NPDES) permit equivalency. The combined GWT system influent, along with the GWT system effluent (discharge), will be sampled by the 15th of each month. Collected samples will be shipped to a designated USEPA, contract laboratory program (CLP) lab for analysis of target compound list (TCL) volatile organic compounds.

Earth Tech personnel conducted the GWT system influent and effluent sampling for this report period on January 10, 2007. The samples were shipped to the USEP Region II Division of Environmental Science and Assessment (DESA) Laboratory, located in Edison, NJ for analysis of low concentration TCL volatile organic compounds. A copy of the full sampling trip report containing the chain of custody forms and FedEx air bill is included in Appendix D. Laboratory analytical results for the GWT system sampling event during this reporting period will be forwarded to ECC under separate cover from the laboratory.

Measurements of influent and effluent pH and turbidity, along with effluent conductivity, are automatically monitored and recorded by the GWT system PLC on a daily basis; this information is included with the downloaded data in Appendix C.

3.2.2 Process Air Stream Monitoring and Air Sampling

Air monitoring of the SVE and GWT System is performed on a bi-weekly basis. It includes monitoring for VOCs, carbon monoxide, oxygen, lower explosive limit (LEL), hydrogen sulfide, air velocity in cubic feet per minute (CFM), temperature, relative humidity, dew point, and vacuum pressure as specified in the O&M Manual. Air monitoring is performed at the following locations within the system:

- Combined SVE Influent (pre-treatment);
- Post groundwater Air-Stripper (pre-treatment);
- Post vapor phase carbon vessel 1 Air Stripper air discharge (post-treatment);
- Post vapor phase carbon vessel 2 SVE air discharge (post-treatment);
- Sub-slab monitoring points (pre-treatment); and,



SVE wells EPA-SVE-1 through EPA-SVE-4 (Shallow and Medium depth).

The bi-weekly air monitoring of the SVE and GWT System was performed on January 10 and January 23, 2007. Copies of the bi-weekly air monitoring logs are included in Appendix F. The next bi-weekly air-monitoring event is scheduled for February 7, 2007. A summary of estimated PCE recovery rate based on air monitoring results is presented in table 3.

On October 3, 2005, following a review of the REAC SVE System Air Sampling Results for the event performed on July 7, 2005, the active SVE recovery wells were modified in an effort to maximize contaminant recovery rates. Details of the modifications to the active SVE wells prior to and post October 3, 2005 are included in the table below.

Table 1 Modification to Active SVE Wells

SVELLocation	Prior to 10/3/05	Afte 10/8/05
SVE 1	Shallow On	Shallow and Intermediate On
SVE 2	Shallow On	Shallow On
SVE 3	Shallow On	Shallow On
SVE 4	Off	Off
EPA-SVE-4R	On	On
SSA	On	On
SSB-A	On	On
SSB-B	On	Off
SSB-C	On	On
Ll	On	On
L2	On	Off

In addition to modifying the active SVE locations, the names of each location were altered in an effort to stay consistent with the USEPA Response Engineering and Analytical Contractor's (REAC) nomenclature. Future weekly monitoring logs will be consistent REACs sample numbers. The laboratory analytical results for REAC's sampling of the SVE locations, performed on July 7, 2005 are included in the Figure 1.

Additional evaluation/enhancement of the SVE recovery rates is ongoing and the installation of several SVE sample port locations was performed on November 1 and 2, 2005. On January 9, 2006, two more SVE sample port locations were installed in the line of SVE 3.



4.0 Monitoring well sampling

Initially, groundwater sampling from select monitoring wells, both on and off-site, were collected on a quarterly basis and shipped to a designated EPA, CLP lab for analysis. Groundwater sampling activities are performed in accordance with the USEPA Groundwater Sampling standard operating procedure (SOP) #2007 and the USEPA Low-Stress Purging and Sampling SOP provided in the SQAPP. Each quarterly sampling event is coordinated with the local water authority to schedule the event when local water supply drawdown conditions do not impact the measurements. The location and number of monitoring wells as well as analytical parameters will be determined before each event by the USPEA, USACE, and ECC.

In 2005 and at the direction of the USEPA, groundwater sampling frequency was revised. It was decided to switch the frequency to semi-annually. The first semi-annual groundwater sampling event of 2005 was conducted by Earth Tech personnel on February 7 through 11, 2005. A total of 25 groundwater monitoring wells were sampled for analysis of the presence of TCL volatiles only. A copy of the full sampling trip report containing the chain of custody forms and FedEx air bills is included in Appendix D.

The second semi-annual groundwater sampling event was performed the week of August 29, 2005. It included sampling 29 monitoring wells, 15 of which had natural attenuation parameter analyses. Laboratory analytical results for this semi-annual groundwater sampling event were sent directly to ECC under separate cover from the laboratory. The next groundwater monitoring well sampling event is scheduled for the week of February 12, 2007. Below is a list of monitoring wells that will be sampled (per the USEPA Remedial Response Manager selection/request). Also below is a list of monitored well samples that will be further analyzed for monitoring and natural attenuation parameters.

Table 2 Monitored Well Samples for Further Analysis

Wells ato be Sampled	Monitoring & Natura Attenuation Parameter Wells
ST-MW-02	CL-ID
EPA-MW-22	EPA-MW-29
EPA-ME-21	ST-MW-20
ST-MW-15	EPA-MW-26
ST-MW-19	EPA-MW-27
ST-MW-12	ST-MW-17
CL-1D	ST-MW-12
EPA-ME-26	ST-MW-19
SSB-C	EPA-MW-21
EPA-MW-23	EPA-MW-9A*
ST-MW-14	
EPA-MW-27	
EPA-MW-9A	
ST-MW-11	
EPA-MW-29	
CL-4D	
ST-MW-20 (back up)	
ST-MW-17(back up)	



5.0 PLUME PERIMETER MONITORING

Groundwater level measurements are obtained from both on-site and offsite wells once a month in order to evaluate capture zone(s) around the groundwater extraction wells. The event is coordinated with the local water authority so the event can be scheduled when the local water supply drawdown conditions will have minimal impact to the measurements.

Water level measurements were collected on January 10, 2007. The location and number of monitoring wells was determined by the USEPA based on the site Capture Zone Analysis Plan. Historical groundwater level measurements are provided in Appendix H.



6.0 INDOOR AIR QUALITY SAMPLING

Indoor air quality samples from select locations within the treatment building and buildings along the perimeter of the site are collected using summa canisters on a quarterly basis and shipped to a laboratory for analysis. The location and number of indoor air quality samples to be collected as well as analytical parameters are determined by the USEPA, USACE and ECC.

The last indoor air quality sampling event was conducted on May 31 and June 1, 2006 by Earth Tech personnel. This sampling event was conducted to address air quality issues within the Long Island Hebrew Academy. The next indoor air sampling event is scheduled for February 2007.



7.0 FUTURE EVENTS PLANNED

The following scheduled events are planned (or have since occurred) during the next three reporting periods:

- Continue to perform GWT system inspection and maintenance as required;
- Continue to perform bi-weekly system air monitoring;
- Collect system influent and effluent samples as directed by USACE/ECC/USEPA;
- Obtain groundwater level measurements as directed by USACE/ECC/USEPA;
- Groundwater monitoring well and indoor air sampling (February 2007).



8.0 PROBLEM AREAS AND RECOMMENDED SOLUTIONS (OUTSTANDING ISSUES)

The altering of the piping for the two (2) 400-pound aqueous phase carbon vessels from series to parallel was performed in November 2005. A review of flow rates indicated the effluent flow has increased from approximately 60 gallons per minute (gpm) to 72 gpm following the change. An action list of ongoing and completed items is provided in Appendix J to track work tasks that have been targeted as issues to be addressed.

Monthly O&M performed on November 29, 2005 indicated the low level float switch for the SVE system knockout tank was not functioning. Further inspection performed in December 2005 indicated a replacement was required. A replacement low level float switch was installed on January 9, 2006.

On December 28, 2006, one of the windows of the GWT system building was broken. An unidentified person threw a padlock and broke the window. The broken window has been secured (using ply wood from the inside) and a contractor has been scheduled to replace it with a new one. The window replacement will take place on the second week of January 2007.

On January 10, 2007, a pinhole sized leak was observed at the base of an air stripper. It appears to be caused by a corroded weld at the seam between the front and bottom of the air stripper. The leak is not affecting the floor sump pumps or systems operations at this point. Options are being explored for a repair.

On January 18, 2007, the broken window on the GWT system building was replaced.

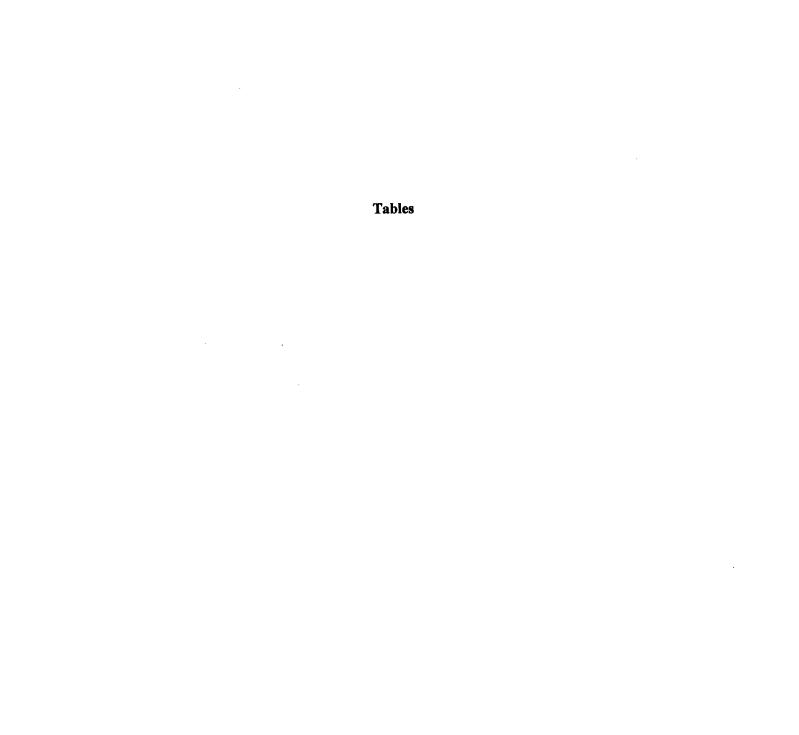


Table 3 - Estimated PCE Recovery Rates Stanton Cleaners Area Groundwater Contamination Site 250 CFM SVE SYSTEM September 2003 - January 2007

	processor or programme		ow Rate			VOC	
Date	60			Concentration	Average	Discharge Rate	Total Discharge
	Days	(cfm)	Avg (cfm)			(lbs/day)	(lbs)
9/11/2003	1	225	225	4.2	4.20	0.6	0.6
9/25/2003	13	210	217.5	4.7	4.45	0.6	7.8
10/8/2003	13	213	211.5	5	4.85	0.6	8.2
10/23/2003	15	210	210	12.2	8.6	1.1	16.7
11/5/2003	13	215	212.5	6.8	9.5	1.2	16.2
11/22/2003	17	211	213	6	6.4	0.8	14.3
12/4/2003	12	205	208	5.9	5.95	0.8	9.2
12/17/2003	13	200	202.5	4	4.95	0.6	8.0
12/30/2003	13	210	205	4	4.95	0.6	8.1
1/15/2004	16	205	207.5	4.1	4.05	0.5	8.3
2/5/2004			SVE	System Manually	Shutdowi	n Since 1/16/04	
2/12/2004	8	200	200	3.5	3.5	0.4	3.5
2/26/2004	14	205	202.5	5.3	4.4	0.6	7.7
3/10/2004	12	200	202.5	5	5.15	0.6	7.7
3/25/2004	15	199	199.5	5.1	5.05	0.6	9.3
4/13/2004	19	175	187	6.3	5.7	0.7	12.5
4/29/2004	16	170	172.5	6	6.15	0.7	10.5
						ijotal	148:7

Notes:

SVE system turned off from 8/24/2004 through 8/31/2004 during tennis court demolition activites.

New SVE well EPA-EXT-04 on-line 11/04/2004

VOC readings taken before vapor phase carbon off-gas treatment.

Deep SVE Wells Closed on 12/10/03 Per OSC's Request

Formula provided by EPA in the "Elements for Effective Management of Operating Pump

and Treatment Systems" publication.

Notes:

Mair = mass loading, removal rate in air (lbs/day)

Qair = flow rate in air (cfm)

Cair = contaminant concentration (mg/rn3)

MWx = molecular weight in grams/mole, for PCE is 166

Note: The conversion factor (1 mole air)/(24.1 L) varies with both temperature and pressure. At a pressure of 1 atmosphere and a temperature of 32 degrees Farenheit

Manage of the second se		E FIO	W Rate			VOC	
Onto	f/o	(લંહા	/\ve	Concentration	G	Discharge Rate	Total Discharge
ana mandriana kana dia mpika mpina di	And and the land and		(cfm)	(ppm)	(ppm)	(lbs/day)	(lbs)
5/13/2004	14	150	160	6	6	0.6	8.3
5/30/2004	17	147	148.5	5.9	5.95	0.5	9.3
6/10/2004	11	150	148.5	4.4	5.15	0.5	5.2
6/30/2004	20	145	<u>147.5</u>	5.6	5	0.5	9.1
7/8/2004	8	140	142.5	4.9	5.25	0.5	3.7
7/22/2004	14	139	139.5	4.8	4.85	0.4	5.8
8/9/2004	18	140	139.5	3.1	3.95	0.3	6.1
8/31/2004	1	135	137.5	3	3.05	0.3	0.3
9/8/2004	8	120	127.5	2.9	2.95	0.2	1.9
9/30/2004	22	121	120.5	3.1	3	0.2	4.9
10/4/2004	5	121	121	2.9	3	0.2	1.1
10/20/200 4	15	120	120.5	2.8	2.85	0.2	3.2
11/1/2004	12	121	120.5	3	2.9	0.2	2.6
11/17/200 4	16	125	123	4.1	3.55	0.3	4.3
11/29/200 4	12	120	122.5	4.2	4.15	0.3	3.8
12/7/2004	8	121	120.5	4.2	4.2	0.3	2.5
12/16/200 4	9	120	120.5	4.1	4.15	0.3	2.8
						Total	223.5

Notes:

SVE system turned off from 8/24/2004 through 8/31/2004 during tennis court demolition activites.

New SVE well EPA-EXT-04 on-line 11/04/2004

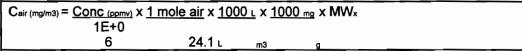
VOC readings taken before vapor phase carbon off-gas treatment.

Deep SVE Wells Closed on 12/10/03 Per OSC's Request

Formula provided by EPA in the "Elements for Effective Management of Operating Pump

and Treatment Systems" publication.

Mair = Qair x Cair x 0.0283 m_3 x 1440 min. x 2.2 lbs.ft.3 day 1000000 mg



Notes:

Mair = mass loading, removal rate in air (lbs/day)

Qair = flow rate in air (cfm)

Cair = contaminant concentration (mg/m3)

MWx = molecular weight in grams/mole, for PCE is 166

Note: The conversion factor (1 mole air)/(24.1 L) varies with both temperature and

pressure. At a pressure of 1 atmosphere and a temperature of 32 degrees Farenheit

	•			
			,	

		MA FIO	w Rate			VOC MANAGEMENT	
Date	(io Days		Lycr	C oncentration	Average	Discharge Rato	Total Discharge
	hallen i de sant sant de la profission	(cfm)	/AVg (Gim)	(ppm)	(ppm)	(ibs/day)	(lbs)
1/12/2005	27	120	120.	4.5	4.3	0.3	8.6
1/17/2005	5	120	120	4.5	4.5	0.3	1.7
2/9/2005	23	120	120	3.9	4.2	0.3	7.2
2/23/2005	14	120	120	3.5	3.7	0.3	3.8
3/2/2005	7	120	120	3.2	3.35	0.2	1.7
3/16/2005	14	120	120	3.5	3.35	0.2	3.5
4/4/2005	19	120	120	3	3.25	0.2	4.6
4/20/2005	16	120	120	2.9	2.95	0.2	3.5
5/3/2005	13	120	120	3.1	3.00	0.2	2.9
5/19/2005	16	120	120	2.9	3.00	0.2	3.6
6/15/2005	26	120	120	1	1.95	0.1	3.8
6/22/2005	7	270	120	8.3	4.65	0.3	2.4
7/25/2005	33	280	275	8.3	8.30	1.4	46.5
8/9/2005	15	290	285	5	6.65	1.2	17.6
8/24/2005	15	290	290	6	5.50	1.0	14.8
9/7/2005	14	260	275	6.5	6.25	1.1	14.9
9/20/2005	13_	260	260	6.8	6.65	1.1	13.9
			· ·			Total	378.3

Notes:

SVE system turned off from 8/24/2004 through 8/31/2004 during tennis court demolition activites.

New SVE well EPA-EXT-04 on-line 11/04/2004

VOC readings taken before vapor phase carbon off-gas treatment.

Deep SVE Wells Closed on 12/10/03 Per OSC's Request

Formula provided by EPA in the "Elements for Effective Management of Operating Pump and Treatment Systems" publication.

 $C_{air (mg/m3)} = Conc_{(ppmv)} \times 1 \text{ mole air } \times 1000 \text{ L} \times 1000 \text{ mg} \times MWx$ 1E+06 24.1 L m₃ g

Notes:

Mair = mass loading, removal rate in air (lbs/day)

Qair = flow rate in air (cfm)

Cair = contaminant concentration (mg/m3)

MWx = molecular weight in grams/mole, for PCE is 166

Note: The conversion factor (1 mole air)/(24.1 L) varies with both temperature and pressure. At a pressure of 1 atmosphere and a temperature of 32 degrees Farenheit

		Flo	w Rate			Vocation in	
Oato	ero Days	(cím)	A.T	Concentration		Discharge Rate	Total Discharge
10/2/2005	4.3		(cfm)	(ppm)	(ppm)		(lbs)
10/3/2005	13	270	265	7.4	7.10	1.2	15.1
10/18/2005	15	240	255	3.7	5.55	0.9	13.1
11/7/2005	20	250	245	1.5	2.60	0.4	7.9
11/29/2005	22	200	225	1.7	1.60	0.2	4.9
12/19/2005	20	305	252.5	14.7	8.20	1.3	25.6
1/4/2006	16	260	282.5	3.4	9.05	1.6	25.3
1/19/2006	15	285	272.5	2.5	2.95	0.5	7.4
1/30/2006	10	275	280	2.2	2.35	0.4	4.1
2/16/2006	17	210	242.5	10.7	6.45	1.0	16.4
2/27/2006	11	275	242.5	2.4	6.55	1.0	10.8
3/23/2006	24	245	260	2.3	2.35	0.4	9.1
4/11/2006	19	245	245	1.6	1.95	0.3	5.6
5/4/2006	23	265	255	0	0.80	0.1	2.9
6/15/2006	42	270	267.5	5	2.50	0.4	17.3
6/26/2006	11	260	265	0	2.50	0.4	4.5
7/13/2006	17	275	267.5	7.2	3.60	0.6	10.1
7/27/2006	14	305	290	3.3	5.25	0.9	13.2
8/3/2006	7	265	285	4.5	3.90	0.7	4.8
8/14/2006	11	270	267.5	10.3	7.40	1.2	13.4
8/28/2006	14	255	262.5	8	9.15	1.5	20.8
						Total	610.5

Notes:

SVE system turned off from 8/24/2004 through 8/31/2004 during tennis court demolition activites.

New SVE well EPA-EXT-04 on-line 11/04/2004

VOC readings taken before vapor phase carbon off-gas treatment.

Deep SVE Wells Closed on 12/10/03 Per OSC's Request

Formula provided by EPA in the "Elements for Effective Management of Operating Pump and Treatment Systems" publication.

Cair (mg/m3) =
$$\frac{\text{Conc (ppmv)}}{1\text{E}+06} \times \frac{1 \text{ mole air}}{24.1 \text{ L}} \times \frac{1000 \text{ L}}{m3} \times \frac{1000 \text{ mg}}{g} \times MW_x$$

Notes:

Mair = mass loading, removal rate in air (lbs/day)

Qair = flow rate in air (cfm)

Cair = contaminant concentration (mg/m3)

MWx = molecular weight in grams/mole, for PCE is 166

Note: The conversion factor (1 mole air)/(24.1 L) varies with both temperature and pressure. At a pressure of 1 atmosphere and a temperature of 32 degrees Farenheit

General and Assault Internal State of the manufacture of		Elo	W Rate			voc en la	
Dat	#of Days			Concentratio	Averag (e)	Discharge Rate	Total Discharge
	Same and the second state of the second	(Giii	Ayo (cfm)	(ppm)	(ppm)	(lbs/day)	(ēdi))
9/21/2006	24	280	267.5	12	10.00	1.7	39.6
9/28/2006	7	252	266	10.6	11.30	1.9	13.0
10/12/200 6	14	260	256	6.3	8.45	1.3	18.7
10/26/200 6	14	250	255	7.8	7.05	 1.1	15.5
11/13/200 6	18	265	257.5	7.5	7.65	1.2	21.9
11/28/200 6	15	265	265	4	5.75	0.9	14.1
12/13/200 6	15	98	181.5	0	2.00	0.2	3.4
12/28/200 6	15	83	90.5	2.7	1.35	0.1	1.1
1/10/2007	13	55.5	69.25	0	1.35	0.1	0.8
1/23/2007	13	23	39.25	MultiR	AE not oper	ational	
						Total	738.7

Notes:

SVE system turned off from 8/24/2004 through 8/31/2004 during tennis court demolition activites.

New SVE well EPA-EXT-04 on-line 11/04/2004

VOC readings taken before vapor phase carbon off-gas treatment.

Deep SVE Wells Closed on 12/10/03 Per OSC's Request

Formula provided by EPA in the "Elements for Effective Management of Operating Pump and Treatment Systems" publication.

$$C_{air (mg/m3)} = \frac{Conc_{(ppmv)}}{1E+0} \times \frac{1 \text{ mole air}}{6} \times \frac{1000 \text{ L}}{24.1 \text{ L}} \times \frac{1000 \text{ mg}}{3} \times MW_x$$

Notes:

Mair = mass loading, removal rate in air (lbs/day)

Qair = flow rate in air (cfm)

Cair = contaminant concentration (mg/m3)

MWx = molecular weight in grams/mole, for PCE is 166

Note: The conversion factor (1 mole air)/(24.1 L) varies with both temperature and

pressure. At a pressure of 1 atmosphere and a temperature of 32 degrees Farenheit

APPENDICES

Appendix A

Daily Quality Control Reports (DQCRs)

(

		· DATI	Y QUALITY	CONTROL	REPORT	D aniel and a		a de la composição
			aners Site (LTR/					
			Company of the Compan					AND THE
Contractor				e Contract No.	2112 001 200 201 3			
Address			Stiffe 400	4.00				
	Richmond	Virginia 2	3228	100				
Phone No.			9.CO.					Sec.
Date: 1/10/0'	7.00000000000000	en entrepris	A BOOK OF	Earth Tech P	roject No.	70536	TO STATE OF	SE AS TO
Day	S	M	T	W	T	F	S	perfermina illerinia
Weather		 		PARTLY				
W cather				CLOUDY				
Temp.				34° F				
Wind				NW 20 MPH				
Humidity				43%				
Earth Tech P	ersonnel On	-Site: Russ	ell Kolacek, Cha	arles Fernald				
Subcontracto	or (include na	mes & resp	onsibilities): N/A	1				
_					_			
Contract Mat	terials and E	quipment or	n site: Chevy 150	0 pick-up, gen	eral sampl	ing equipm	ent,	
general han		• •		••				
							_	
Work Perfor	med (include	sampling:	list by NAS num	ber if applicable	e):			
			ekly air monitor			SVE pipin	g. Collected	
monthly sys	_	•	July will into mitor.			~ · — p-p	B. 0011011011	
<u> </u>			field calibration	s): Calibrated	MultiRae.	calibrated	Horiba U-22.	
Quality Con.	10111111	5 (1101441112	, 11014	<u></u>				
_					_			
Health and S	afety Levels	and Activit	ties: Level D					
			ction Taken: N/A					
1 TOOICIIIS EII	countered/e	011001101111	CHOIL TUROIL TWI					
Explain Dev	elopments L	eading to C	hange in SOW or	Finding of Fac	t: N/A	<u> </u>		
			ctions by subject			attach minu	ites of meeting	and
list of all atte			onous of subject					
iist of all all	<u> </u>							
Have all requ	uired submitt	tals and sam	ples of construct	ion been approx	red? Ves			
Trave air requ	anou submitt	and sail	ipros or construct	ion occir approv	. 103			
Do the mater	rials and equ	ipment to h	e used conform to	the submittals	? Yes			
20 dio illutoi	und oqu	-Pinton to 0	- Love tollionin to	THE DESIGNATION OF THE PERSON				
Has all prelie	minary work	heen inspe	cted, tested, and o	completed? Ves				
rias aii pieiii	mmary work	occii ilispe	cica, icsica, and t	ompiciou: 10s				
Test required	l and inspect	ion technic	ues to be execute	d to prove contr	act complis	nce (includ	le both expected	1
and actual re	-	ion tooming	and to be execute	a to prove conti		aree (menu	our expected	•
ana aviuai 10	Buildly INEX							

		Site (LTRA) - Great Neck, NY
		Contract No 5442-001-001
Address Phone No.	Parth Tech Inc. 7870 Willa Park Drive, Suit Richmond, Virginta 23228 (804) 515-8300	
Date: 1/10/0		Earth Tech Project No.: 70536
Has a phase	hazard analysis been performe	ed? Included in the Site Specific Health & Safety Plan.
Comments a	nd deficiencies noted and corr	rective actions taken: Explained in work performed section.
noted and co	rrective actions taken.	subject and specification location. Comment and/or deficiencies
Explained in	work performed section.	
Follow-up I	espection: List all inspections	by subject and specification location. Comment and/or deficiencies
	nspection: List all inspections prrective actions taken.	by subject and specification location. Comment and/or deficiencies
noted and co	prrective actions taken.	by subject and specification location. Comment and/or deficiencies
noted and co	es:	
noted and co Special Note Noticed pin	es: hole sized leak at base of air	s by subject and specification location. Comment and/or deficiencies r stripper; appears to be from corroded weld at seam between floor sumps or system operation at this point.
Special Note Noticed pin front and b	hole sized leak at base of air ottom. Leak is not affecting Expectations:	r stripper; appears to be from corroded weld at seam between floor sumps or system operation at this point.
Special Note Noticed pin front and b Tomorrow's Bi weekly C	es: hole sized leak at base of air ottom. Leak is not affecting Expectations: D&M Inspection; bi weekly a	r stripper; appears to be from corroded weld at seam between floor sumps or system operation at this point.
Special Note Noticed pin front and b Tomorrow's Bi weekly C Change out	hole sized leak at base of air ottom. Leak is not affecting Expectations: Market Inspection; bi weekly a of carbon in indoor air filter	r stripper; appears to be from corroded weld at seam between floor sumps or system operation at this point. air monitoring. rs at the site.
Special Note Noticed pin front and b Tomorrow's Bi weekly C Change out	corrective actions taken. ces: hole sized leak at base of air ottom. Leak is not affecting Expectations: O&M Inspection; bi weekly a of carbon in indoor air filter tions for repairing leak in air	r stripper; appears to be from corroded weld at seam between floor sumps or system operation at this point. air monitoring. rs at the site.
Special Note Noticed pin front and b Tomorrow's Bi weekly C Change out	hole sized leak at base of air ottom. Leak is not affecting Expectations: Market Inspection; bi weekly a of carbon in indoor air filter	r stripper; appears to be from corroded weld at seam between floor sumps or system operation at this point. air monitoring. rs at the site.
Special Note Noticed pin front and b Tomorrow's Bi weekly C Change out	hole sized leak at base of air ottom. Leak is not affecting Expectations: O&M Inspection; bi weekly a of carbon in indoor air filter tions for repairing leak in air repair of front window.	r stripper; appears to be from corroded weld at seam between floor sumps or system operation at this point. air monitoring. rs at the site.

this reporting period are in compliance with the contract specifications and submittals, except as noted above.

Cita Nine	NA TAXX	· Ctontan C1	Annard Cita /I.T	DAY C	Neck NY	A STATE OF THE STA	Maria Company of the
			leaners Site (B1		ct.No. 5442-001-00		
Contractor:				Conua	CUNUS 3442-001-00		n en
			e Stitle 400				
		d, Virginia					
Phone No.:						4	
Date: 01/18/	07	Control Control		Earth T	ech Project No.:*	70536*	
Day	S	M	T	W	T	F	S
Weather					PARTLY		
					CLOUDY		
Temp.					28° F		
Wind	<u> </u>			 -	Calm		
Humidity	<u></u>				51%		
Earth Tech I	ersonnel O	n-Site: Rus	sell Kolacek		· ·		
G-14				T/A			
Subcontracto	or (include i	names & res	ponsibilities): N	<u>//A</u>			
Control Ma	4			<u> </u>		<u> </u>	4
General ha		Equipment of	on site: Cnevy 1	SOU PICK-U	p, general samplin	g equipme	ent,
t-enerai nai							
General Ha	nd tools						
		11:	1: at has NAC and		liochle).		
Work Perfor	med (includ		; list by NAS nu			avaht a 55	gallon hamal
Work Perfor	med (include	n Great Ne	ck Glass for fro	ont window	replacement. Bro		
Work Perfor Met with Lowith liner to	med (include eonard from o store spen	n Great Ne it carbon fr	ck Glass for fro om air filters.	nt window Recorded	replacement. Bro O&M data. Air sa		
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	MAILY QUALIT	TY CONTROL REPORT
Site Name an	d Location: Stanton Cleaners Site (L	TR'A) - Great Neck; NY
Client: ECC		Contract No: 5442-001-001
Address	Earth Tech, Inc. 7870 Villa Park Drive, Suite 400 Richmond, Virginia 23228	
AT 10 7 WILLIAM 21 TEV.	(804) 515-8300	
Date: 01/18/0	<i>11</i>	Earth Tech Project No.: 70536
Has a phase l	hazard analysis been performed? Incl	uded in the Site Specific Health & Safety Plan.
Comments ar	nd deficiencies noted and corrective a	ctions taken: Explained in work performed section.
noted and con	rrective actions taken.	nd specification location. Comment and/or deficiencies
Explained in	work performed section.	
_	spection: List all inspections by subjective actions taken.	ect and specification location. Comment and/or deficiencies
Special Notes	s:	
Continually readings wo calibration v	received a "zero drift" error when uld not stabilize in fresh air either.	I was unable to calibrate the MultiRae properly. attempting to do a fresh-air calibration. The CO and O2 Typically we do a fresh-air calibration and a VOC nitoring vapor points. There was no more time available
Tomorrow's	Expectations:	
Bi weekly O	&M Inspection; bi weekly air moni	toring.
Change out	of carbon in indoor air filters at the	e site.
By: Russell I	P. Kolacek Tit	le: Environmental Technician
Signature:	Russell P. Volacal (Quality Control Representative/Manager)
The above so	mort is complete and correct All mot	erials and equipment used and all work performed during
		entract specifications and submittals, except as noted above.
Signature:		Contractor's Authorized Representative)
Digitature.	(John Grand Lopic Schaller

Site Name a	nd Location:	Stanton Cl	eaners Site (LTRA	(i) #Great N	veck, NY	de ableviore,	the first of the second
					No. 5442-001-		
Address		Park Drive Virginia 2	Suite 400 23228				
Date: 01/23/	07	******		Earth Te	ch Project No.	:* 70536 *****	44/400 (
Day	S	M	T	W	T	F	S
Weather			PART. CLOUDY				
Temp.			34° F				
Wind			LIGHT				
Humidity			LOW				
Earth Tech l	Personnel On	-Site: Rus	sell Kolacek, Just	in Self			
	iterials and E	quipment o	on site: Chevy 150	0 pick-up,	general hand	tools. Multi	RAE.
Work Perfor	rmed (include	e sampling;	list by NAS number the calibrations	per if applic	eable):		
Work Performance Bi weekly (Quality Contact Health and S	rmed (include O&M inspect trol Activitie Safety Levels	e sampling; tion; Bi we es (including	list by NAS numb	per if applicing. S): Calibra	eable):		
Work Performs Bi weekly Condition Quality Condition Health and Second Problems Explain Developments Preparatory	rmed (include)&M inspect trol Activitie Safety Levels ncountered/C	e sampling; tion; Bi we es (including and Activit correction A eading to C ist all inspe	list by NAS numbers air monitoring field calibrations atties: Level D	per if applicing. S): Calibra Finding of	able): ated MultiRae Fact: N/A	, (see special	notes)
Work Performance Bi weekly (Quality Consequence Health and Sequence Problems Explain Development of all attentions	Safety Levels ncountered/Covelopments Lanspection (Inspection (Inspection (Inspection (Inspection))	e sampling; tion; Bi we es (including and Activit correction A eading to C ist all inspect	list by NAS numbered pair monitoring field calibrations stries: Level Daction Taken: N/A	per if applicing. E): Calibrate Finding of and specific	Fact: N/A	, (see special	notes)
Work Performs Bi weekly (Quality Constitution Health and Section Problems Enterprise Explain Development of all attention Have all required	Safety Levels incountered/Covelopments L. Inspection (I endees): N/A	e sampling; tion; Bi we es (including and Activit correction A eading to C ist all inspect	list by NAS numberekly air monitoring field calibrations atties: Level Daction Taken: N/A Change in SOW or ections by subject a	per if applicang. S): Calibrate Finding of and specification been applications.	Fact: N/A cation location;	, (see special	notes)
Work Performs in weekly (Quality Constitution Problems Enterparatory list of all attention and the problems and the problems in the problems i	Safety Levels ncountered/Covelopments L Inspection (I endees): N/A quired submit	e sampling; tion; Bi we es (including and Activit correction A eading to C ist all inspect	list by NAS numbered pair monitoring field calibrations atties: Level Dection Taken: N/A Change in SOW or ections by subject at a supples of constructions.	Finding of and specific on been ap	Fact: N/A cation location; proved? Yes	, (see special	notes)

DAILY QUALITY CONTROL REPORT
Site Name and Location: Stanton Cleaners Site (LTRA) - Great Neck, NY
Client: ECC Contract No: 5442-001-001
Address: 7870 Villa Park Drive Suite 400
Phone No.: (804) 515-8300 Date 01/23/07 Earth Tech Project No.: 70536
Date: 01/23/07. Earth Tech Project No.: 70536
Has a phase hazard analysis been performed? Included in the Site Specific Health & Safety Plan.
Comments and deficiencies noted and competitive actions taken. Employed in words nowformed section
Comments and deficiencies noted and corrective actions taken: Explained in work performed section.
Initial Inspection: List all inspections by subject and specification location. Comment and/or deficiencies
noted and corrective actions taken.
Explained in work performed section.
Follow-up Inspection: List all inspections by subject and specification location. Comment and/or deficiencies
noted and corrective actions taken.
See special notes
Special Notes:
Again was unable to calibrate the MultiRAE using fresh air or span gas. Suspect the sensors to be bad
and the unit in need of service. Contacting ECC for approval. Unfortunately the MultiRAE from our office was also on it's last legs and it had the same problem, so the MultiRAE portion of the air-
monitoring was unattainable.
monitoring was unattainable.
Tomorrow's Expectations:
Bi weekly O&M Inspection; bi weekly air monitoring.
Change out of carbon in indoor air filters at the site.
Explore options for repairing leak in air stripper.
Monthly system sampling.
By: Russell Kolacek Title: Environmental Technician
Signature: Russell P. Volacah (Quality Control Representative/Manager)
Signature: (Quality Control Representative/Manager)
The above report is complete and correct. All materials and equipment used and all work performed during
this reporting period are in compliance with the contract specifications and submittals, except as noted above.

Appendix B

Groundwater Treatment System Operation & Maintenance Checklists

<u>STA</u>	<u>NTON CLEANERS AREA GROUNDWATER C</u> <u>MAINTENANCE WEEKLY</u>	
1.	A. Is any part of the system leaking? <u>YES</u> If so, list where: slow leak @ base of air stripper near	NO discharge flange – corroded seam weld
	B. Is there water on the floor? <u>YES</u> NO If so, list where: @ base of roll-up door – from rain	
	C. Are all three (3) floor sump level switches in place	? <u>YES</u> NO
	D. Is there any evidence of water in any of these floor Note: If water is present, remove with shop vac or pa	
	A. Display screen on computer will either show systenger to show screen. If only the desktop is showing with the taskbar at the bottom of the screen.	
	B. From the site display, monitor and record the follo	wing.
	1. Recovery Well EPA-EXT-02 flow ¹	<u>51</u> GPM
	2. Recovery Well EPA-EXT-02 valve open	%
	3. Recovery Well EPA-EXT-4R flow	GPM
	4. Recovery Well EPA-EXT-4R valve open	%
	5. Recovery Well pH	<u>6.4</u> pH
	6. Recovery Well conductivity	<u>70</u> cond
	7. Air Stripper pH	<u>6.8</u> pH
	8. Air Stripper temperature	deg.
	9. Air Stripper air flow	480CFM
	10. Pre-vapor carbon pressure	<u>0</u> "wc
	11. Post carbon air flow	<u>2737</u> CFM
	12. Discharge conductivity	<u>77</u> cond
	13. Discharge pH	pH
	14. Discharge flow	<u>66</u> GPM
	15. Discharge total gallons	<u>_143451712</u> Gal
	16. SVE inlet vacuum	<u>2</u> "Hg
	17. SVE air flow	<u>500</u> CFM

Wells EPA-EXT-02 and MW-24 wells are manifold together in the field and are piped into the treatment building together. The EPA-EXT-02 water flow meter is therefore actually displaying and totalizing the output of both wells.

1.	Recovery Well EPA-EXT-02 total flow	<u>6200835</u>	Gal
2. 1	Recovery Well EPA-EXT-03 total flow	51.5 0	Gal
3.]	Recovery Well pH	5.95	pH
4.]	Recovery Well conductivity	0.73	cond
5	Air Stripper pH	6.79	pH
6	Air Stripper temperature	14.8	deg. C
7.	Air Stripper Pump water flow	82.5	GPM
8	Air Stripper Pump pressure	44.5	PSI
9. 1	Discharge conductivity	0.67	cond
10.	Discharge pH	<u>7.59</u> p	Н
11.	SVE inlet vacuum (digital readout)	+1.7_	"Hg
12.	SVE inlet vacuum		"Hg
13.	SVE post knockout vacuum		"Hg
	llows, check to see that the treatment syst CLEANERS AREA GROUNDWATER		
Treatment S	ystem is cycling properly.		

<u>STA</u>	NTON CLEANERS AREA GROUNDWATER C MAINTENANCE WEEKLY	
1.		NO
	B. Is there water on the floor? <u>YES</u> NO If so, list where: Floor area below the air stripper	
	C. Are all three (3) floor sump level switches in place	? <u>YES</u> NO
	D. Is there any evidence of water in any of these floor Note: If water is present, remove with shop vac or par	
	A. Display screen on computer will either show systenger to show screen. If only the desktop is showing with the taskbar at the bottom of the screen.	
	B. From the site display, monitor and record the follo	wing.
	1. Recovery Well EPA-EXT-02 flow ¹	<u>50</u> GPM
	2. Recovery Well EPA-EXT-02 valve open	%
	3. Recovery Well EPA-EXT-4R flow	<u>0</u> GPM
	4. Recovery Well EPA-EXT-4R valve open	%
	5. Recovery Well pH	<u>6.4</u> pH
	6. Recovery Well conductivity	cond
	7. Air Stripper pH	<u>6.8</u> pH
	8. Air Stripper temperature	<u>150</u> deg.
	9. Air Stripper air flow	444CFM
	10. Pre-vapor carbon pressure	<u>0</u> "wc
	11. Post carbon air flow	2861CFM
	12. Discharge conductivity	<u>78</u> cond
	13. Discharge pH	<u>7.5</u> pH
	14. Discharge flow	<u>65</u> GPM
	15. Discharge total gallons	_144103137_ Gal
	16. SVE inlet vacuum	<u>2</u> "Hg
	17. SVE air flow	CFM

¹ Wells EPA-EXT-02 and MW-24 wells are manifold together in the field and are piped into the treatment building together. The EPA-EXT-02 water flow meter is therefore actually displaying and totalizing the output of both wells.

C. From the treatment room, monitor and record the	following.
1. Recovery Well EPA-EXT-02 total flow	<u>6778201</u> Gal
2. Recovery Well EPA-EXT-03 total flow	51 Gal
3. Recovery Well pH	pH
4. Recovery Well conductivity	<u>0.73</u> cond
5. Air Stripper pH	<u>6.78</u> pH
6. Air Stripper temperature	14.9deg. C
7. Air Stripper Pump water flow	<u>80</u> GPM
8. Air Stripper Pump pressure	44PSI
9. Discharge conductivity	<u>0.68</u> cond
10. Discharge pH	<u>7.57</u> pH
11. SVE inlet vacuum (digital readout)	<u>+1.7</u> "Hg
12. SVE inlet vacuum	"Hg
13. SVE post knockout vacuum	"Hg
A. If time allows, check to see that the treatment sys STANTON CLEANERS AREA GROUNDWATER	
Treatment System is cycling properly.	

STANTON CLEANERS AREA GROUNDWATER CONTAMINATION SITE OPERATION AND MAINTENANCE WEEKLY CHECKLIST 1/23/07				
	MAINTENANCE WEERLY	CHECKLIST 1/23/0/		
1.	A. Is any part of the system leaking? <u>YES</u> If so, list where: slow leak @ base of air stripper near	NO r discharge flange – corroded seam weld		
	B. Is there water on the floor? <u>YES</u> NO If so, list where: below air stripper – not very much			
	C. Are all three (3) floor sump level switches in place	e? <u>YES</u> NO		
	D. Is there any evidence of water in any of these floo Note: If water is present, remove with shop vac or pa			
	A. Display screen on computer will either show systeger to show screen. If only the desktop is showing with the taskbar at the bottom of the screen.			
	B. From the site display, monitor and record the follow	owing.		
	1. Recovery Well EPA-EXT-02 flow ¹	<u>48</u> GPM		
	2. Recovery Well EPA-EXT-02 valve open	%		
	3. Recovery Well EPA-EXT-4R flow	<u>0</u> GPM		
	4. Recovery Well EPA-EXT-4R valve open	%		
	5. Recovery Well pH	<u>6.4</u> pH		
	6. Recovery Well conductivity	cond		
	7. Air Stripper pH	<u>6.8</u> pH		
	8. Air Stripper temperature	150deg.		
	9. Air Stripper air flow	<u>496</u> CFM		
	10. Pre-vapor carbon pressure	0"wc		
	11. Post carbon air flow	2691 CFM		
	12. Discharge conductivity	<u>78</u> cond		
	13. Discharge pH	<u>7.5</u> pH		
	14. Discharge flow	<u>68</u> GPM		
	15. Discharge total gallons	_144516908_ Gal		
	16. SVE inlet vacuum	<u>2</u> "Hg		
	17. SVE air flow	CFM		

¹ Wells EPA-EXT-02 and MW-24 wells are manifold together in the field and are piped into the treatment building together. The EPA-EXT-02 water flow meter is therefore actually displaying and totalizing the output of both wells.

1. Recovery Well EPA-EXT-02 total flow	<u>7145665</u> Gal
2. Recovery Well EPA-EXT-03 total flow	<u>51.5</u> Gal
3. Recovery Well pH	<u>5.96</u> pH
4. Recovery Well conductivity	cond
5. Air Stripper pH	<u>6.80</u> pH
6. Air Stripper temperature	<u>14.8</u> deg. C
7. Air Stripper Pump water flow	
8. Air Stripper Pump pressure	PSI
9. Discharge conductivity	<u>0.67</u> cond
10. Discharge pH	<u>7.57</u> pH
11. SVE inlet vacuum (digital readout)	<u>+1.7</u> "Hg
12. SVE inlet vacuum	"Hg
13. SVE post knockout vacuum	<u>-2.0</u> "Hg
A. If time allows, check to see that the treatment sys STANTON CLEANERS AREA GROUNDWATER	
Treatment System is cycling properly.	

Appendix C

Groundwater Treatment System Downloaded Operational Data

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Appendix D
Sampling Trip Reports

SAMPLING TRIP REPORT

Site Name: STANTON CLEANERS AREA GROUNDWATER CONTAMINATION SITE

CERCLIS ID Number: NYD047650197 **Sampling Dates:** January 10, 2007

CLP Case Number: N/A

Site Location: 110 Cutter Mill Road, Great Neck, New York, 11021 Sample Descriptions: Groundwater Treatment System Influent / Effluent.

Laboratories Receiving Samples (Table 1):

Case Number	Sample Type	Name and Address of Laboratory
N/A	TCL-VOAs OLC03.2	John Birri USEPA Region II DESA LAB Building 209 MS-230 2890 Woodbridge Avenue Edison, N.J. 08837

Sample Dispatch Data (Table 2):

On January 10, 2007, a total of four (4) groundwater samples, including one (1) duplicate sample and one (1) trip blank were shipped to the U.S. Environmental Protection Agency Region II Lab

(USEPA) for TCL-VOAs analysis.

FedEx Air Bill No.	Number of Coolers	Number and Type of Samples	Time and Date of Shipping
799063905212	1	Total of 4 Aqueous Samples to include 1 duplicate sample, and 1 Trip Blank for TCL-VOAs	1/10/07 @ 10:00 am TO: USEPA

Sampling Personnel (Table 3):

Name	Organization	Site Duties
Francisco Metcalf	Earth Tech, Inc.	Earth Tech Project Manager
Russell Kolacek	Earth Tech, Inc.	Sampler

Sample Numbers and Collection Points (Table 4):

Laboratory	Analysis	Sample Type	Sample #	Sample Collection Point(SCP)
USEPA Region II DESA	TCL-VOAs	Aqueous	Influent (MW-24 and EPA-EXT-02)	Influent (MW-24 and EPA-EXT-02)
LAB Building 209 MS-230		Groundwater	Effluent	Effluent
2890 Woodbridge Avenue			Effluent A	Duplicate of Effluent
Edison, N.J. 08837			Trip Blank	Trip Blank

Additional Comments:

The Influent, Effluent and Effluent-A samples were collected after a five gallon purge from the sample ports located within the treatment system. The influent sample includes MW-24 and EPA-EXT-02. These two wells combine before they reach the treatment room and therefore cannot be sampled individually. These samples were collected for the following analysis: Target Compound List (TCL) Volatile Organic Compounds. In addition, one duplicate sample (Effluent-A) was collected from the effluent of the groundwater treatment process and was a duplicate sample of sample Effluent. One trip blank (TB) was also included in the shipment. Copies of the Chain of Custody forms and a copy of the FedEx air bill are included in Appendix A and B, respectively.

Earth Tech personnel also collected real time water quality parameters from the raw water for all the following sampling locations: Influent and Effluent (Discharge) and the results are included in Appendix C.

Chain of Custody (January 10, 2007 Sampling Event)

© EPA	USEPA Contract Laboratory Program Organic Traffic Report & Chain of Cu	act fic:	Laboratory I Report & Cha	USEPA Contract Laboratory Program Organic Traffic Report & Chain of Custody Record	iona.			Case No: DAS No: SDG No:	* º No.	Г
	1/10/2007		Chain of Custody Record	y Record	1111	1	al.	For L	For Lab Use Only	
Carrent:	Footbax	_	Retireputation By	(Date / Time)	Reserved By	ə	Date / Time)	Č.	Lab Contract No:	
Shipped tex	/99/05/39/05/12 USEPA Region 2 - DESA	*	Luda	In he illustor was				Unit Price:	Į.	
	LAB		2					Transfer To:	To	
	Bidg 209, MS-230 Edison NJ 08807		w			1		r c	Lab Contract No:	
	(732) 906-8888		•					Unit Price:	8	
ORGANIC SAMPLE No.	BAAFFOR TY	CONC	GNICHTARA	PATRONIA DATA	PLACYLON		SYMME COLLECT	ğ	INORGANIC SAMPLE No.	FOR LAB USE ONLY Simple Condition On Receipt
EFFLUENT	Ground Water! L Russel Kolacek	29	VOA (14)	(HCL) (3)	Effluent	ĕ	S: 1/10/2007	9:10		
EFFLUENT A	Field OC/ L Russel Kolacek	ક	VOA (14)	(HCT) (3)	Effluent A	ŠĢ.	\$: 1/10/2007	9:15		
INFLUENT (MW-24 & EP	Ground Water! L. Russel Kolacek	ጀ	VOA (14)	(HCL) (2)	Influent(MW-24 & EPA-EXT-02)	ķφ	S: 1/10/2007	99		
TRIP BLANK	Field QC/	န်	VOA (14)	(HCT) (3)	Trip Bank	ò	S: 1/10/2007	9.20		

Shipment for Case Complete Ty	Sample(s) to be used for faboratory OC:	Additional Sampler Signature(9):	Cooler Temperature Upon Receipt:	Chain of Cuetody Seal Number	Ä
Analysis Kay:	Concentration: L×Low, M×LowMadum, H×High	Type/Designate: Composite = C, Qrab = G		Custody Seel Intact?	Shipment lcad?
VOA = CLP TCL Voleties	*				
TR Number: 2 PR provides preliminary rest Send Copy to: Sample Ma	TR Number: 2-043013577-010407-0002 LAB: Reprodes primiting reads. Request to primiting result will increase analytical costs. Copy to Sample Management Office, Atm: Heather Bauer, CSC, 19000 Conference Center Dr., Chantilly, VA 20151-3819; Phone 703/818-4200; Fax	dcal coets. Conference Center Dr., Chan⊞y, VA 20151-3819; I	LAB Phone 703/816-4200; Fax	ORATO	RY COPY

PR provides preliminary results. Requises for preliminary results will become amendical codes.
Send Copy to: Sample Management Office, Atm. Heather Bauer, CSC, 15000 Conference Center Dr., Chantilly, VA 20151-3819; Phone 703/818-4200; Fax 703/818-4802

Organic Traffic Report & Chain of Custody Record	USEPA Contract Laboratory Program	
DAS No:	Case No:	
-		

TRIP BLANK	INFLUENT (MW-24 & EP	EPFLUENT A	EFFLUENT	ORGANIC SAMPLE No.	Region: Project Code: Accessed Code: Conc.US 10: Spill 10: Sille Hamaritists Project Leader: Action: Sampling Co:
Field OC/ Russel Kolacek	Ground Wated Russel Kotacek	Field OC/ Russel Kolacek	Ground Wated Russel Kolacek	HETANYS	, ,
2	6	ձ	10	TYPE	SEPA Contract La irganic Traffic Rej verbourssorer OZLH Stanton Area Cleaners Grou Departions and Maintenance Earth Tech
VOA (14)	VQA (14)	VOA (14)	VOA (14)	ANALYSEE	ISEPA Contract Laboratory Irganic Traffic Report & Ch Properties 2 2 2 2 2 2 2 2 2 2 2 2 2
(HCL) (3)	(HCL) (3)	(HCL) (3)	(HCL) (3)	TAG No./ PRESIGNATIVE BOOM	1 2
Trip Bank	influent(MN-24 & EPA-EXT-02)	Effluent A	Efficient	SIATION STATION	DESA
S: 1/10/2007	S: 1/10/2007	S: 1/10/2007	S: 1/10/2007	OVELURE SYNATE COTTECT	Cast DAS Chain of Custody Record Reinquished By Das Reinquished By D
9:20	9:00	9:15	9:10		Case No: DAS No: Das No: Das / Time)
74		Ĩ		INORGANIC SAMPLE No.	Banque AAA
Trip Blank	•	Field Duplicate	‡	79 OS	R

Shipment for Case Complete ? Y	Samplets) to be used for laboratory QC:	Additional Sampler Signesure(s);	Chain of Custody Seal Number:
Analysis Key:	Consentration: L=Low, M=LowMedium, H=High	Type/Designate: Composity = C, Geb = C	Shipment load?
VOA = CLP TCL Volation	8		
TR Number: '' PR provides preliminary real Send Copy to: Sample Ma 703/818-4802	TR Number: 2-043013577-010407-0002 Pit provides profitmery results. Requests for profitmery results will increase analytical costs. Sand Copyl Io: Sample Management Office, Alto: Heather Bauer, CSC, 15000 Conferent 703/816-4602	TR Number: 2-043013577-010407-0002 PR provides profitmany results. Requests for profitmany results will increase embylical costs. Sand Copy Io: Sample Management Office, Altr. Heather Bauer, CSC, 15000 Conference Center Dr., Chanlilly, VA 20151-3819; Phone 703/818-4200; Fax 703/818-4602	REGION COPY

FedEx Air Bill (January 10, 2007 Sampling Event)



- 1. Use the "Print" feature from your browser to send this page to your laser printer.
- 2. Fold the printed page along the horizontal line.

.....Return to History

3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number..

Use of this system constitutes your agreement to the service conditions in the current FadEx Service Guide, available on fedex.com. FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is finited to the greater of \$100 or the authorized declared value. Recovery cannot exceed ectual documented loss. Maximum for items of extraordinary value is \$500, e.g. jewelry, precious metals, negotiable instruments and other items listed in our Service Guide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

Water Quality Parameters (January 10, 2007 Sampling Event)

STANTON CLEANERS SITE LTRA

Groundwater Pump and Treatment System Water Quality Parameters Log

Date: 1/10/07 Project # 70536

	ρН	COND	TURB	DO	TEMP	SALINITY
unfilten:	5.79	0.627	0.7	10.5	14.40	0.0
Discharge	6.67	0.623	18.0	11.4	12.67	0.0

Total Galions pumped:

143458622 gallons

Flow rate:

66 gpm

* The influent consists of MW-24 and EPA-EXT-02. These wells combine before they reach the treatment room and therefore cannot be individually sampled.

Equipment Calibrated by:

Russ Kolacek

Comments:

Replaced batteries in

Water samples collected by:

Russ Kolacek

Horiba U-22

Water monitoring performed by:

oring performed by: Russ Kolacek

TEMP. - Temperature measured in degrees Fahrenheit.

COND. - Conductivity measured in milliSiemens per centimeter (mS/cm).

TURB. - Turbidity measure in nephelometric turbidity units (NTU).

DO - Dissolved Oxygen measured in milligrams per liter (mg/L).

SALINITY - Salinity in percentage.

Appendix E

Groundwater Treatment System Raw and Treated Analytical Data

Sample Location	ECC ID*	EPA ID	Date Collected	Compounds Detected	Result (μg/L)	Qualifier**	Discharge Criteria
				MTBE	2	J	
		1		cis-1,2-Dichloroethene	2	J	
Influent	SC-01	B0001	10/27/2003	Trichloroethene (TCE)	3	J	5
				Toluene	3	J	5
				Tetrachloroethene	350	D	5
Effluent	SC-04	B0002	10/27/2003	None			<u> </u>
				Acetone	61	J	5
Trip Blank	SC-TB	B0003	10/27/2003	Methylene chloride	2	J	5
				Tetrachloroethene (PCE)	240		5
Influent	SC-01	B0177	11/12/2003	Chlorodifluoromethane	8.6	NJ	
				1.2-Dichloroethene	3.3	NJ	
Effluent	SC-04	B0178	11/12/2003	Chlorodifluoromethane	22	NJ	
Lillacit	00 04	50170	117122000	Tetrachloroethene	250	110	5
Influent Dup	SC-60	B0179	11/12/2003	Chlorodifluoromethane	29	NJ	
iiiideiii bap	00 00	500	1111212000	1,2-Dichloroethene	3.4	NJ	
				Tetrachloroethene	9.4		5
Trip Blank	SC-TB	B0180	11/12/2003	Chlorodifluoromethane	4.3	NJ	
			_	Tetrachloroethene			+
Indiana.	00.04	D47 10	40/40/0000		290	<u>D</u>	5
Influent	SC-01	B17J3	12/10/2003	cis-1,2-Dichloroethene	2	J	_
		54514	1011010000	Trichloroethene	3	J	
Effluent	SC-04	B17J4	12/10/2003	None			- -
				Tetrachloroethene	280	D	5
influent Dup	SC-61	B17J5	12/10/2003	cis-1,2-Dichloroethene	2	J	
				Trichloroethene	3	J	
				MTBE	5	J	
Trip Blank	SC-TB	B17J6	12/10/2003	Toluene	2	J	
				Ethylbenzene	2	J	
		1		MTBE	2.7		
Influent	SC-01	B1000	1/12/2004	cis-1,2-Dichloroethene	1.5		
iniluent	SC-01	B1000	1/12/2004	Trichloroethene	2.5		
				Tetrachloroethene	280		5
Effluent	SC-04	B1001	1/12/2004	None			
				MTBE	2.6		
				cis-1,2-Dichloroethene	1.5		
Influent Dup	SC-62	B1002	1/12/2004	Trichloroethene	2.5		
				Tetrachioroethene	300		5
		+		Methylene chloride	0.6	K	
				MTBE	3.7		+
Trip Blank	SC-TB	B1003	1/12/2004	Tetrachloroethene	7.9		5
		1		m&p-Xylene	0.7		+
_		+		cis -1,2-Dichloroethene	1.7		+
							+
Influent	SC-01	B17Z0	2/12/2004	Trichloroethene	3.0		5
				Tetrachloroethene	610.0	D	+
C#4.com4	60.04	D4774	2/42/2004	Unknown TIC	0.53	J	F
Effluent	SC-04	B17Z1	2/12/2004	Acetone	3.8	J	5
				Acetone	25	J	5
Influent Dup	SC-63	B17Z2	2/12/2004	cis-1,2-Dichloroethene	1.7		_
·				Trichloroethene	2.8	_	+
				Tetrachloroethene	440	D	5
				Methylene chloride	0.16	J	
				MTBE	4.7		
		1		Chloroform	0.26	J	
				Tetrachloroethene	7.1		5
Trip Blank	SC-TB	B17Z3	2/12/2004	Xylene (total)	0.56		
				1,3-Dichlorobenzene	0.40	J	
				1,4-Dichlorobenzene	0.38	J	
				Unknown TIC	0.58	J	
				Benzene, 1-ethyl-3-methyl-	0.72	NJ	

Sample			Date	Compounds	Result	0 . 110 . 44	Discharge Criteria
Location	ECC ID*	EPA ID	Collected	<u>Detected</u>	(μg/L)	Qualifier**	Criteria
		1 1		MTBE	2.7		
Influent	SC-01	B17Z6	3/10/2004	cis-1,2-Dichloroethene	1.2		
iiiideiit	30-01	1 51,720	3/10/2004	Trichloroethene	2.3		
		1		Tetrachloroethene	260		5
Effluent	SC-04	B17Z7	3/10/2004 Tetrachloroethene		0.70		5
	_		MTBE		2.8		
	00.04	1 54770	014010004	cis-1,2-Dichloroethene	1.2		
Influent Dup	SC-64	B17Z8	3/10/2004	Trichloroethene	2.3		
				Tetrachloroethene	260		5
				Acetone	1.8		5
Trip Blank	SC-TB	B17Z9	3/10/2004	Toluene	0.50		
Trip Blank		5.720	0.10.2001	Isobutane	41	NJ	+
	_	+ -		MTBE	1.9		_
				cis-1,2-Dichloroethene	0.83		+
Influent	SC-01	B1BS2	4/14/2004	Trichloroethene	1.5		+
				Tetrachloroethene	380	D	5
Effluent	SC-04	B1BS3	4/14/2004	Tetrachloroethene	1.9		5
Lilident	00-04	B1000	4/14/2004	Acetone	1.2	J	<u> </u>
		1		MTBE	1.5		
Influent Dup	SC-65	B1BS4	4/14/2004	cis-1,2-Dichloroethene	0.67	J .	
milident Dup	00 00	5,504	471-72004	Trichloroethene	1.1	<u> </u>	
				Tetrachloroethene	260	D	5
		1		Methylene chloride	0.17	<u>_</u>	
Trip Blank	SC-TB	B1BS5	4/14/2004	Chloroform	2.8		
p S.a				Bromodichloromethane	0.80		
				MTBE	2.1		
				cis-1,2-Dichloroethene	1.0		
Influent	SC-01	B1BS6	5/20/2004	Trichloroethene	1.8		
				Tetrachloroethene	190		5
Effluent	SC-04	B1BS7	5/20/2004	Acetone	1.2	_	5
Lindon		1 2.557		Acetone	0		5
				MTBE	2.1		
Influent Dup	SC-66	B1BS8	5/20/2004	cis-1,2-Dichloroethene	0.9		
				Trichloroethene	1.6		
				Tetrachloroethene	200		5
				Acetone	1		5
Trip Blank	SC-TB	B1BS9	5/20/2004	Chloroform	0		
				Bromodichloromethane	0		
				Carbon Disulfide	1.1		
				MTBE	2.7		
Influent	SC-01	B1BS6	6/15/2004	cis-1,2-Dichloroethene	1.3		
				Trichloroethene	2.4		
				Tetrachloroethene	320		5
Effluent	SC-04	B1BS7	6/15/2004	Tetrachloroethene	2.1	7	5
				MTBE	2.3		
Influent Dun	SC-67	B1BS8	6/15/2004	cis-1,2-Dichloroethene	1.2		
Influent Dup	30-01	D 1036	0/13/2004	Trichloroethene	2.2		
				Tetrachloroethene	330		5
Trip Blank	SC-TB	B1BS9	6/15/2004	None			

Sample	_		Date	Compounds	Result		Discharge
Location	ECC ID*	EPA ID	Collected	Detected	(μg/L)	Qualifier**	Criteria
				Acetone	8.0		5
				MTBE	2.3		
Influent	SC-01	B1FJ2	7/13/2004	cis-1,2-Dichloroethene	1.1		
				Trichloroethene	1.7		<u> </u>
				Tetrachloroethene	170		5
Effluent	SC-04	B1FJ3	7/13/2004	Acetone	0.72		5
		_		Tetrachloroethene	2		5
i				MTBE	2.4		
Influent Dup	SC-67	B1FJ4	7/13/2004	cis-1,2-Dichloroethene Trichloroethene	1.1		
·				Tetrachloroethene	1.8 160		
							5
Trip Blank	SC-TB	B1FJ5	7/13/2004	Acetone	0.73 2.5	NI I	5
		+		Acetic Acid, Ethyl Ester		ŊJ	
				MTBE_	1.9		
1-0	CO 04	D4CU2	0/46/0004	cis-1,2-Dichloroethene	0.7		
Influent	SC-01	B1GH2	8/16/2004	Trichloroethene	1.5		
				Tetrachloroethene	200		5
				Acetone	2		5
Effluent	SC-04	B1GH3	8/16/2004	Tetrachloroethene	5.4		5
				Acetone	1.6		5
:		1		Acetone	1.2		5
				MTBE	2		
Influent Dup	SC-69	B1GH4	8/16/2004	cis-1,2-Dichloroethene	0.7		
				Trichloroethene	1.5		
				Tetrachloroethene	210		5
		1		Chloromethane	0.80		
ŀ				Acetone	1.0		5
influent	SC-01		9/28/2004	MTBE	1.5		
oon	00 01		0/20/2001	cis-1,2-Dichloroethene	0.70		
		1		Trichloroethene	1.4		
				Tetrachloroethene	200		5
•				Chloromethane	0.80		
Effluent	SC-04		9/28/2004	Acetone	2.1		5
				Tetrachloroethene	1.7		5
				Acetone	1.0		5
		1		MTBE	1.3		
Influent Dup	SC-70	1	9/28/2004	cis-1,2-Dichloroethene	0.60		
				Trichloroethene	1.4		
				Tetrachloroethene	210		5
Trip Blank	SC-TB		9/28/2004	Acetone	2.2		5
The Blank			0/20/2001	2-Butanone	1.5		
				Acetone	5	J	5
				Methylene chloride	0.2	J	
Influent	SC-01	B1L72	10/21/2004	MTBE	0.82		
IIII.GOIN	00 0.	5	10/21/2001	cis-1,2-Dichloroethene	0.5		
		1		Trichloroethene	1.2		
				Tetrachloroethene	220		_5
P-10	00.00	J	10/04/2006	Acetone	5	J	5
Effluent	SC-04	B1LZ3	10/21/2004	Methylene chloride	0.5	UJ	
		-		Tetrachloroethene	0.2	J	5
				Acetone	5	J	5
				Methylene chloride	1.1		
Influent Dup	SC-71	B1LZ4	10/21/2004	MTBE	1.1		
				cis-1,2-Dichloroethene	0.64		
				Trichloroethene	1.1		
		-		Tetrachloroethene	210	D	5
T. C. Div. di	00.75	D4: 75	4004/000	Acetone	5.7		5
Trip Blank	SC-TB	B1LZ5	10/21/2004	Methylene chloride	0.68		
				Toluene	0.39	J	

Sample			Date	Compounds	Result		Discharge
Location	ECC ID*	EPA ID	Collected	Detected	(μg/L)	Qualifler**	Criteria
				Acetone	3	J	5
				Methylene chloride	1.3	υ _	
1	00.04	B1T22	11/17/2004	MTBE	1.3		
Influent	SC-01	BIIZZ	11/1//2004	cis-1,2-Dichloroethene	0.64		
		1		Trichloroethene	1.2	•	
		1		Tetrachloroethene	170	D	5
	00.04	B1T23	11/17/2004	Methyl Acetate	0.5	UJ	
Effluent	SC-04	B1123	11/1//2004	Methylene chloride	0.5	U	
				Methylene chloride	0.85	J	
		1		MTBE	1.3		
Influent Dup	SC-72	B1T24	11/17/2004	cis-1,2-Dichloroethene	0.5		
		1		Trichloroethene	0.83		
		1		Tetrachloroethene	160	D	5
				Acetone	3	J	5
				Methyl Acetate	0.5	ŲJ	
	00.70	DATOS	44/47/0004	Methylene chloride	0.46	7	
Trip Blank	SC-TB	B1T25	11/17/2004	2-Butanone	2.4	7	
				Tetrachloroethene	9.6		5
				1,2,3-Trichlorobenzene	0.5	IJ	5
				MTBE	1.6		
				cis-1,2-Dichloroethene	0.45	J	
				Trichloroethene (TCE)	1.0	J	5
		1		Tetrachloroethene	100	D	5
		1		Methylcyclohexane	1	UJ	
				Bromomethane	1	UJ	
Influent	SC-01	B1T79	12/15/2004	Bromodichloromethane	1	UJ	
		1		Chloromethane	1	ÜJ	
		1		1,2-Dichloroethene	1	ÜJ	
		1		1,2-Dichloropropane	1	UJ	
		1	1	2-Hexarione	10	R	
		1		4-Methyl-2-pentanone	10	R	
				Benzene	0.5	Ü	
Effluent	SC-04	B1T81	12/15/2004	1,2,4-Trichlorobenzene	0.5	Ü	
Lindon	00-04	5	12, 10,200	1,2,3-Trichlorobenzene	0.5	Ü	5
		+		Methyl tert-Butyl Ether	1.6		
		1		cis-1,2-Dichloroethene	0.48	J	
				Trichloroethene	0.98	J	
Influent Dup	Influent Dup SC-73 B1	B1T80	12/15/2004	4-Methyl-2-pentanone	10	Ř	
			Tetrachloroethene	98	D	5	
				2-Hexanone	10	R	1
		+		Chloroform	0.1	Ĵ	
				Cyclohexane	0.15	j	
Trip Blank	SC-TB	B1T82	12/15/2004	Benzene	0.15	ŭ	1
				Toluene	0.21	J	1
				roluene	0.21	<u> </u>	

Sample Location	ECC ID*	EPA ID	Date Collected	Compounds Detected	Result (μg/L)	Qualifier**	Discharge Criteria
Location	EQC ID	LFAID	J J J J J J J J J J	MTBE	1.5	quantito	0.1.00.1.0
		1 1		cis-1,2-Dichloroethene	0.7		
Influent	SC-01	B1W00	1/21/2005	Trichloroethene (TCE)	1.4		5
				Tetrachloroethene	160		 5
	CC 04	B4\A/02	1/21/2005	Acetone	1.8		5
Effluent	SC-04	B1W02	1/2 1/2005	Methyl tert-Butyl Ether	1.4		
				cis-1,2-Dichloroethene	0.7		_
Influent Dup	SC-74	B1W01	1/21/2005	Trichloroethene	1.4		_
IIIIIuelii Dup	30-74	I BIVVOI I	1/2 1/2003	Tetrachloroethene	150		5
				Acetone	10		5
Trip Blook	CC TD	B414/02	1/21/2005	Acetone	3.5	_	5
Trip Blank	SC-TB	B1W03	1/21/2005	MTBE	1.4	_	
		1 1		cis -1.2-Dichloroethene	0.5		_
Influent	SC-01	AG00197	2/3/2005	Trichloroethene (TCE)	1.1		5
					140		5
	00.04	4000400	0/0/0005	Tetrachloroethene			_
Effluent	SC-04	AG00198	2/3/2005	Acetone	1.2		5
		1 1		Methyl tert-Butyl Ether	1.5		
		1,000,00	01010005	cis-1,2-Dichloroethene	0.54		
Influent Dup	SC-75	AG00199	2/3/2005	Trichloroethene	1.1		
				Tetrachloroethene	140		5
				Acetone	1.1		5
Trip Blank	SC-TB	AG00200	2/3/2005	Acetone	4.3		5
7.10 2.0				4-Methyl-2-pentanone	1.2		
				MTBÉ	1.4		
Influent	SC-01	AG00468	3/9/2005	Acetone	2.5		5
muent	30-01	7000-00	3/3/2003	Trichloroethene (TCE)	1.1		_5
				Tetrachloroethene	130		5
Effluent	SC-04	AG00469	3/9/2005	Acetone	1.8		5
				MTBE	1.4		
Influent Dun	SC-76	AG00470	3/9/2005	Acetone	1.2		5
Influent Dup	30-70	AG00470	3/3/2003	Trichloroethene	1.1		
		1 1		Tetrachloroethene	130		5
Trin Blank	SC-TB	AG00471	3/9/2005	Acetone	1.7		5
Trip Blank	3C-1B	AG00471	3/9/2003	Chloroform	1.6		
		1 1		MTBE	1.7		
		1 1		2-Butanone	2.2		
Influent	SC-01	AG00825	4/22/2005	Acetone	2.4		5
(EPA-EXT-02)				Trichloroethene (TCE)	1.1		5
				Tetrachloroethene	65		5
		1		2-Butanone	2.5		
Influent			. 100 1000 -	Acetone	5.1		5
(EPA-EXT-4R)	SC-02	AG00826	4/22/2005	Trichloroethene (TCE)	1.3	-	5
(=:::=::::-				Tetrachloroethene	9.5		5
Effluent	SC-04	AG00827	4/22/2005	None	1 - 5.5	_	1
Lindon		7.000027		2-Butanone	2.8		
Influent Dup			4100:	Acetone	4.9		5
(EPA-EXT-02)	SC-77	AG00828	4/22/2005	Trichloroethene	1.3		
(EPA-EXT-4R)				Tetrachloroethene	9	_	. 5

Sample Location	ECC ID*	EPA ID	Date Collected	Compounds Detected	Result (μg/L)	Qualifier**	Discharge Criteria
				Acetone	1		5
Trip Blank	SC-TB	AG00829	4/22/2005	Chloroform	1.7		
				Trichloroethene (TCE)	0.84		5
In the count				MTBE	1.1		
Influent	SC-01	AG01320	5/24/2005	Trichloroethene (TCE)	1.0		5
(EPA-EXT-02)			Tetrachloroethene		100		5
Influent (EPA-EXT-4R)	SC-02	AG01321	5/24/2005	Tetrachloroethene	8.8		5
Effluent	SC-04	AG01322	5/24/2005	Acetone	1.3		5
Influent Dup (EPA-EXT-02) (EPA-EXT-4R)	SC-78	AG01323	5/24/2005	Tetrachloroethene	8.6		5
				Acetone	1.3		5
Trip Blank	SC-TB	AG01324	5/24/2005	Chloroform	13		
				Bromodichloromethane	2.5		
				MTBE	0.98		
Induant		1 1		Trichloroethene (TCE)	0.8		5
Influent (EPA-EXT-02)	SC-01	AG02074	6/22/2005	Tetrachloroethene	95		5
(EFA-EX1-02)				Acetone	2.7	Ķ	5
				Ethyl Acetate	10	NJ	
				Tetrachloroethene	9.1		5
Influent	SC-02	AG02075	6/22/2005	Acetone	1.9	K	5
(EPA-EXT-4R)	30-02	1 4002073	0/22/2003	Ethyl Acetate	3.6	NJ	
				Propane, 2-Isothiocyanto-2	0.8	NJ	
				MTBE	0.64		
		1 1		Tetrachloroethene	50		5
Influent		AG02076	6/22/2005	Acetone	2	_K	5
		1 1		Trichloroethene (TCE)	0.56		5
				Ethyl Acetate	8.8	NJ	
Effluent	SC-04	AG02072	6/22/2005	Acetone	2.6	K	5
Lilidelit	30-04	7002072	<u> </u>	Ethyl Acetate	6.2	NJ	
EffluenDup	SC-04	AG02073	6/22/2005	Acetone	2.6	K	5
Lindenbap		7.002070		Ethyl Acetate	3.3	NJ	
		1 1		Acetone	2.4	K	55
Trip Blank	SC-TB	AG02077	6/22/2005	Chloroform	13		
The Blank	00 15	1,,0020,,	0/22/2000	Bromodichloromethane	2.7		
				Ethyl Acetate	3.1	NJ	
				MTBE	0.9		
influent	SC-01	AG02780	7/12/2005	Trichloroethene (TCE)	0.8		_ 5
(EPA-EXT-02)	00-01	1,002,00	77123200	Tetrachloroethene	85		5
				Acetone	1	K	5
				<u>Tetrachloroethene</u>	7.4		
Influent	SC-02	AG02781	7/12/2005	Acetone	2.1	K	5
(EPA-EXT-4R)	33-UL	/.032.01		Ethyl Acetate	4.1	NJ	
		\perp		Propane, 2-Isothiocyanto-2	1.4	NJ	+
Influent		AG02782	7/12/2005	MTBE	0.52		+
		+		Tetrachloroethene	43		5
Effluent	SC-04	AG02778	7/12/2005	Acetone	2.8	K	5
				Ethyl Acetate	11	NJ	5
EffluenDup	SC-04	AG02779	7/12/2005	Acetone	1.9	K	1 3
				Ethyl Acetate	5.2 1.5	NJ	5
Trip Plank	SC TB		7/12/2005	Acetone Chloroform	1.5	<u> </u>	
Trip Blank	SC-TB		111212003	Bromodichloromethane	2.6		+
				Diomodichioromethane	2.0		

Sample		T	Date	Compounds	Result		Discharge
Location	ECC ID*	EPA ID	Collected	Detected	(μg/L)	Qualifier**	Criteria
		+		MTBE	0.68		
Influent	SC-01	AG03721	8/15/2005	Trichloroethene (TCE)	0.73		5
(EPA-EXT-02)		1		Tetrachloroethene	88		5
Influent	SC-02	AG03722	8/15/2005	Tetrachloroethene	9.7		5
(EPA-EXT-4R)				Propane, 2-Isothiocyanto-2	0.53	NJ	
Influent		AG03723	8/15/2005	Tetrachloroethene	43		5
Effluent	SC-04	AG03725	8/15/2005	Acetone	ND (5.0)		5
EffluenDup	SC-04	AG03720	8/15/2005	Acetone	ND (5.0)		5
Trip Blank	SC-TB	AG03724	8/15/2005	Chloroform	13		
111p Blatik	30-16	AG03724	0/13/2003	Bromodichloromethane	2.6		
In floored				MTBE	0.76		
Influent (EPA-EXT-02)	SC-01	AG04086	9/8/2005	Trichloroethene (TCE)	0.74		5
(EPA-EXI-02)				Tetrachloroethene	90		5
Influent (EPA-EXT-4R)	SC-02	AG04087	9/8/2005	Tetrachloroethene	9.8		5
Influent		AG04088	9/8/2005	MTBE	0.63		
influent		AG04000	9/0/2005	Tetrachloroethene	44		5
Effluent	SC-04	AG04084	9/8/2005	Acetone	ND (1.0)		5
EffluentDup	SC-04	AG04085	9/8/2005	Acetone	1.0		5
Trip Blank	SC-TB	AG04089	9/8/2005	Chloroform	11		
THP DIATIK	30-1B	AG04009	3/0/2003	Bromodichloromethane	2.2		
la Occasión	•			MTBE	0.82		
Influent (EPA-EXT-02)	SC-01	AG07649	10/5/2005	Trichloroethene (TCE)	0.78		5
(EFA-EX1-02)				Tetrachloroethene	100		5
Influent (EPA-EXT-4R)	SC-02	AG07650	10/5/2005	Tetrachloroethene	9.3		5
			•••	MTBE	0.6	_	
Influent		AG07651	10/5/2005	Acetone	1		5
				Tetrachloroethene	52		5
Effluent	SC-04	AG07647	10/5/2005	Acetone	1.1		
EffluentDup	SC-04	AG07648	10/5/2005	Acetone	1.4		
Trip Blank	SC-TB	AG07652	10/5/2005	Chloroform	ND		
				Acetone	1.4	K	
Influent	SC-01	AG08530	11/14/2005	MTBE	0.92		
(EPA-EXT-02)	00-01	1,000,000	11/14/2000	Trichloroethene (TCE)	0.81		5
				<u>Tetrachloroethene</u>	95		5
Influent	SC-02	AG08531	11/14/2005	Acetone	1.0	K	5
(EPA-EXT-4R)		71000001		Tetrachloroethene	10		5
		1		MTBE	0.9		
Influent		AG08532	11/14/2005	Acetone	1.4	K	5
I IIIIGEIIL		700002	11/1-7/2000	Trichloroethene (TCE)	0.74		5
				Tetrachloroethene	91		5
Effluent	SC-04	AG08528	11/14/2005	Acetone	ND		5
EffluentDup	SC-04	AG08529	11/14/2005	Acetone	ND		5
Trip Blank	SC-TB	AG08533	11/14/2005	Acetone	2.0	K	5_

Sample		Т	Date	Compounds	Result		Discharge
Location	ECC ID*	EPA ID	Collected	Detected	(μg/L)	Qualifier**	Criteria
		1		Acetone	4.1		
Influent		1 1		MTBE	0.85		
Influent (EPA-EXT-02)	SC-01	AG08953	12/6/2005	Trichloroethene (TCE)	0.67		5
(2174-231-02)		1 1		Tetrachloroethene	90		5
				1-Butanol	0.63	NJ	
Influent	SC-02	AG08954	12/6/2005	Acetone	1.4	K	5
(EPA-EXT-4R)		7.000004	120,2000	Tetrachloroethene	9.5		5
				MTBE	0.9		_
Influent		AG08955	12/6/2005	Acetone	1.4	K	5
				Trichloroethene (TCE)	0.77		5
		1.000054	10/0/000	Tetrachloroethene	89	14	5
Effluent	SC-04	AG08951	12/6/2005	Acetone	1.5	K	5
EffluentDup	SC-04	AG08952	12/6/2005	Acetone	3.0	K	5
Trip Blank	SC-TB		12/6/2005	Acetone	ND		5
		1 1		Acetone	ND		5
Influent	SC-01	AH00216	1/10/2006	MTBE	0.98		<u> </u>
(EPA-EXT-02)				Trichloroethene (TCE)	0.79		5
				Tetrachloroethene	93		5
Influent	SC-02	AH00217	1/10/2006	Acetone	ND (1.0)		5
(EPA-EXT-4R)				Tetrachloroethene	8.2		_5
		1 1		MTBE	0.94		 _ _
Influent		AH00218	1/10/2006	Acetone (TOT)	ND (1.0)		5
		1 1		Trichloroethene (TCE)	0.85		5
		11100011	414010000	Tetrachloroethene	90		5
Effluent	SC-04	AH00214	1/10/2006	Acetone	ND (1.0)		5
EffluentDup	SC-04	AH00215	1/10/2006	Furan, Tetrahydro	0.52	NJ	+ -
Trip Blank	SC-TB	AH00219		Acetone	ND (1.0)		5
				MTBE	1.2		
Influent	SC-01	AH01177	2/15/2006	Trichloroethene (TCE)	0.72		5
				Tetrachloroethene -	80		5
				Acetone	1.2		5
MW-19		AH01178	2/15/2006	Trichloroethene (TCE)	1.2		5
		\bot		Tetrachloroethene	85		5
MW-21		AH01179	2/15/2006	Trichloroethene (TCE)	2.6		5
		1		Tetrachloroethene	27		5
Effluent		AH01175	2/15/2006	None None			
Effluent Duplicate		AH01176	2/15/2006	None			
	SC-TB	ALI00240	2/45/2006	Chloroform	10		
Trip Blank	2C-1B	AH00219	2/15/2006	Bromodichloromethane	2.3		
		1 1		MTBE	1.4		
	00.04	1,,,,,,,,,,,,	0/0/0000	Trichloroethene (TCE)	0.71		5
Influent	SC-01	AH01256	3/8/2006	Tetrachloroethene	83		5
		1 1		Acetone	2		5
Effluent	SC-04	AH01254	3/8/2006	Acetone	2		5
Effluent	00.04	AH01255	3/8/2006	Acetone	2.4		
Duplicate	SC-04			Acatoma	2		5 5
Trin Blank	SC-TB	AH01257	3/8/2006	Acetone			
Trip Blank	30-10	Anu (29/	3/0/2000	Bromodichloromethane	5		+
		+		Chloroform MTBE	1 <u>4</u>		_
				TRICHLOROETHENE	0.57		+
Influent		AH01641	4/5/2006	TETRACHLOROETHENE	68		5
mucnt			7072000	ACETONE	1.7		5
	SC-01			ETHYL ACETATE	1.7	NJ	5
	50-01	+ -		ACETONE	1.7	.10	5
Effluent	SC-04	AH01639	4/5/2006	EHHYL ACETATE	1.7	NJ	5
	30-04	71101038	4/5/2006	ACETONE	4.6	140	5
Effluent A	SC-04	AH01640	4/5/2006	EHHYL ACETATE	5.3	NJ	5
Trin Plank	SC-TB	AH01642	4/5/2006	ACETONE	1.7		5
Trip Blank	30-10	ANU 1042	4/3/2000		1.7		<u> </u>

Sample Location	ECC ID*	EPA ID	Date Collected	Compounds Detected	Result (μg/L)	Qualifier**	Discharge Criteria
	EGG ID	LI AID		ACETONE	2.3	- California	5
Influent (MW-24				MTBE	1.7		+
& EPA-EXT-02)	SC-01	AH02078	5/3/2006	TRICHLOROETHENE	0.72		
& EFA-EX1-02)				TETRACHLOROETHENE	80		5
		+ +		CHLOROMETHANE	0.51		+-~-
Effluent	SC-04	AH02076	5/3/2006	ACETONE	1.6		5
Effluent-A	SC-04	AH02077	5/3/2006	ACETONE	2.2		5
Trip Blank	SC-TB	AH02079	5/3/2006	ACETONE	1.8		5
TTIP DIGTIK	00-15	A1102073	3/3/2000	ACETONE	1.8	К	5
				MTBE	1.6	N N	
Influent		AH02645	6/8/2006	TRICHLOROETHENE	70		
	CC 01	1 1		EHHYL ACETATE	0.7	NJ	5
Effluent	SC-01 SC-04	AH02643	6/8/2006	ACETONE	1.2	K	5
Emuent	30-04	AHU2043				K	
Effluent-A	00.04	AH02644	6/8/2006	ACETONE	1.5	NJ	5
Trin Dlank	SC-04 SC-TB	AH02646	6/8/2006	ETHYL ACETATE	ND	NJ	
Trip Blank	SC-1B	AHU2040	6/8/2006	AOFTONE			+
Influent (MW-24	00.04	1,1,00007	7/40/0000	ACETONE	1.8	_	5
& EPA-EXT-02)	SC-01	AH03367	7/12/2006	MTBE	1.6		+ -
	00.04	AL 100007	7/40/0000	TETRACHLOROETHENE	74		5
Effluent	SC-04	AH03367	7/12/2006	None_	ND		
Effluent A	SC-04	AH03368	7/12/2006	None	ND		
Trip Blank	SC-TB	AH03370	7/12/2006	None	ND		
		1 1		ACETONE	1.3	J	5
Influent (MW-24	SC-01	AH04373	8/9/2006	MTBE	1.6		
& EPA-EXT-02)	00 01	1,0,0,0,0	676.2000	TRICHLOROETHENE	0.55		
				TETRACHLOROETHENE	65		5
Effluent	SC-04	AH04371	8/9/2006	ACETONE	1.3	J	5
Effluent A	SC-04	AH04372	8/9/2006	ACETONE	2	J	5
Trip Blank	SC-TB	AH04374	8/9/2006	ACETONE	0.78	J	5
Influent (MW-24				MTBE	1.7		
& EPA-EXT-02)	SC-01	AH05500	9/6/2006	TRICHLOROETHENE	0.68		
& EF A-EX1-02)				TETRACHLOROETHENE	69	_	5
Effluent	SC-04	AH05498	9/6/2006		ND		
Effluent A	SC-04	AH05499	9/6/2006	CHLOROMETHANE	0.64		5
Trip Blank	SC-TB	AH05501	9/6/2006		ND		
Influent /MM/ 24				MTBE	1		
Influent (MW-24 & EPA-EXT-02)	SC-01	AH05962	10/4/2006	TRICHLOROETHENE	0.54		
& EPA-EX1-02)				TETRACHLOROETHENE	68		5
Effluent	SC-04	AH05960	10/4/2006	None			
Effluent A	SC-04	AH05961	10/4/2006	None			5
Trip Blank	SC-TB	AH05963	10/4/2006	None			
Influent (MW-24		ALICCOCA		MTBE	1.4		
& EPA-EXT-02)	SC-01	AH06624	11/8/2006	TETRACHLOROETHENE	67		5
Effluent	SC-04	AH06622	11/8/2006	None			
Effluent A	SC-04	AH06623	11/8/2006	None			5
Trip Blank	SC-TB	AH06625	11/8/2006	MTBE	0.6		
Influent (MW-24		_		MTBE	1.4	J	
& EPA-EXT-02)	SC-01	AH07022	12/14/2006	TETRACHLOROETHENE	58		5
Effluent	SC-04	AH07020	12/14/2006	None			
Effluent A	SC-04	AH07021	12/14/2006	None			
Trip Blank	SC-TB	AH07023	12/14/2006	METHYLENE CHLORIDE	1.3		5
Influent (MW-24				MTBE	1.1	K	1
& EPA-EXT-02)	SC-01	AJ00067	1/11/2007	TETRACHLOROETHENE	51		5
Effluent	SC-04	AJ00065	1/11/2007	None			1
Effluent A	SC-04	AJ00066	1/11/2007	None			
Trip Blank	SC-TB	AJ00068	1/11/2007	METHYLENE CHLORIDE	1.3		5
THE DIGITAL	00-10	,					
_		_					_

Sample			Date	Compounds	Result		Discharge
Location	ECC ID*	EPA ID	Collected	Detected	(μg/L)	Qualifier**	Criteria

Notes

- = Unless otherwise noted, samples collected from ECC ID SC-04 were used as the matrix spike / matrix spike duplicate sample.
- ** = 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.
- (D) = Detection from a dilution of the sample.
- J = qualified as estimated
- NJ = Presumptive evidence for the presence of the material at an estimated value.
- K = The reported value may be biased high.
- μg/L = micrograms per liter
- MTBE = methyl tertiary butyl ether
 - TIC = Tentatively Identified Compound.

Appendix F

Soil Vapor Extraction and Pump and Treat System Bi-weekly Air Monitoring Logs

STANTON CLEANERS AREA GROUNDWATER CONTAMINATION SITE

Soil-Vapor Extraction and Pump and Treat System Bi-Weekly Air Monitoring Log

Date: 1/10/07 Project # 70536

			MultiR	AE Plus P	GM-50			Ve	lociCalc P	lus	
	Pipe ID	VOC	CO	Oxygen	LEL	H2S	Temp.	Vac. Pre.	%RH	Dew pt.	Flow
SVE-Influent	5.709	0.0	0	19.6%	0%	0%	92.4	+	26.3%	52.9	55.5
Post Air Stripper	11.294	0.0	0	20.4%	0%	0%	57.6	+	98.5%	57.2	120.0
SVE-Effluent¹	5.706	0.0	0	19.7%	0%	0%	59.4	+	70.7%	48.9	47.9
GW Post Vapor Effluent ²	11.294	0.0	0	20.5%	0%	0%	58.0	+	94.9%	56.8	112.0
EPA-SVE-1 (shallow)	1.913	0.0	0	19.6%	0%	0%	60.5	10.0	16.0%	15.8	16.8
EPA-SVE-1 (medlum)	1.913	0.0	0	19.9%	0%	0%	42.8	11.0	32.5%	17.9	0.4
EPA-SVE-2 (shallow)	1.913	0.0	0	18.8%	0%	0%	50.2	1.9	26.2%	18.4	34.7
EPA-SVE-2 (medium)	1.913	0.0	0	19.9%	0%	0%	55.3	1.3	78.9%	48.8	3.8
SS-A	1.913	0.0	0	20.5%	0%	0%	32.5	3.4	48.1%	19.5	49.5
EPA-SVE-04R/SS-B(A)	1.913	0.0	0	20.6%	0%	0%	34.6	2.5	43.0%	16.3	1.2
SS-B-C	1.913	0.0	0	20.5%	0%	0%	37.3	3.0	41.2%	17.6	2.2
SS-C	1.913	0.0	0	20.4%	0%	0%	50.8	3.3	23.1%	16.1	61.0
L1	1.913	0.0	0	20.5%	0%	0%	49.3	5.0	68.9%	38.9	157.0
L2	1.913						Offline				
SS-B(B)	1.913	0.0	0	20.4%	0%	0%	44.4	2.4	39.9%	22.8	46.1
SS Vent-LIHA	3.786	0.0	0	20.4%	0%	0%	51.5	2.0	66.2%	40.5	22.0
Vapor Point-1/Slope 1		0.0	0	20.9%	0%	0%	No	t Measured	- vapor n	nonitoring po	int
SVE-3A	1.913	N	lot mea	sured - too	much	water ii	n line	12.9	1	lot measure	d
SVE-3B	1.913	0.0	0	19.1%	0%	0%	56.1	8.2	45.3%	34.0	176.0
Background		0.0	0	20.9%	0%	0%	39.6	0.0	30.0%	12.8	0

Equipment calibrated by: Russ Kolacek

Air readings collected by: Russ Kolacek, Chuck Femald

Comments:

VOC: Volatile Organic Compounds

CO: Carbon Monoxide LEL: Lower Explosive Limit ppm: parts per million

temperature: measured in degrees Fahrenheit

pressure: measured in inches of water (in/H2O), inches of mercury (in/Hg), or

pounds per square inch (psi).

Flow: measured in cubic feet per minute (cfm)

%RH: relative humidity

Dew Pt.: dew point in degrees Fahrenheit

AS: Air Stripper

SVE: Soil Vapor Extraction System

¹Formerly Post SVE Carbon ²Formerly Post Air Stripper Carbon ³Formerly Sub-Slab A,B, and C ⁴Formerly Sub-Slab D

A - - - - - - 4 14 0 10 T

⁵Formerly Sub-Slab B NA- Not Available

	Prior to 10/3/05	<u>As of 1/10/07</u>
SVE 1	shallow on	shallow and medium on
SVE 2	shallow on	shallow and medium on
SVE 3	shallow on	A and B on
SVE 4	off	off
EPA-SVE-04R/SSB(A)	on	on
SS-A	on	on
SS-B(B)	on	on
SS-B(C)	on	on
L1	on	on
L2	on	off

Comments

New SVE well EPA-EXT-04 online since 11/4/04 Sub-slab sample ports online since 3/22/05 L2 is offline

STANTON CLEANERS AREA GROUNDWATER CONTAMINATION SITE

Soil-Vapor Extraction and Pump and Treat System Bi-Weekly Air Monitoring Log

Date: 1/23/07 Project # 70536

			MultiR	AE Plus F	GM-50			Ve	lociCalc F	lus	
	Pipe ID	VOC	CO	Oxygen	LEL	H2S	Temp.	Vac. Pre.	%RH	Dew pt.	Flow
SVE-Influent	5.709						86.4	+	27.6%	49.4	23
Post Air Stripper	11.294						58.4	+	94.7%	56.6	53.5
SVE-Effluent'	5.706						60.5	+	65.1%	50.2	24
GW Post Vapor Effluent ²	11.294						57.8	+	94.0%	56.2	52.5
EPA-SVE-1 (shallow)	1.913						62.1	5.00	21.2%	23.9	3.0
EPA-SVE-1 (medium)	1.913						42.9	6.00	43.8%	23.0	0.47
EPA-SVE-2 (shallow)	1.913						55.5	0.50	28.0%	23.5	0.900
EPA-SVE-2 (medium)	1.913						51.0	0.25	38.9%	27.1	0.005
SS-A	1.913						44.5	6.90	59.1%	30.1	31.2
EPA-SVE-04R/SS-B(A)	1.913						40.9	4.00	57.5%	27.3	2.10
SS-B-C	1.913						41.9	5.0	94.0	40.6	1.7
SS-C	1.913						43.6	5.00	47.1%	24.6	34.2
L1	1.913						42.6	7.20	71.5%	30.3	89.5
L2	1.913					No	t Measured	- Offline			
SS-B(B)	1.913						40.3	4.00	75.1%	32.9	19.8
SS Vent-LIHA	3.786						51.6	1.50	50.7%	33.5	15.0
Vapor Point-1/Slope 1		NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
SVE-3A	1.913						36.2	14	70.2	27.3	1.3
SVE-3B	1.913						53.1	10.90	57.3	38.8	
Background							40.9	0.0	95.5%	36.8	0

Equipment calibrated by: Russell Kolacek, Justin Self Air readings collected by: Russell Kolacek, Justin Self

Comments: NM=Not Measured

VOC: Volatile Organic Compounds

CO: Carbon Monoxide LEL: Lower Explosive Limit ppm: parts per million

temperature: measured in degrees Fahrenheit

pressure: measured in inches of water (in/H2O), inches of mercury (in/Hg), or

pounds per square inch (psi).

Flow: measured in cubic feet per minute (cfm)

%RH: relative humidity

Dew Pt.: dew point in degrees Fahrenheit

AS: Air Stripper

SVE: Soil Vapor Extraction System

¹Formerly Post SVE Carbon ²Formerly Post Air Stripper Carbon ³Formerly Sub-Slab A,B, and C ⁴Formerly Sub-Slab D

Formerly Sub-Slab B NA- Not Available

	Prior to 10/3/05	As of 01/23/07
SVË 1	shallow on	shallow and medium on
SVE 2	shallow on	not measurable
SVE 3	shallow on	A & B on
SVE 4	off	off
EPA-SVE-04R/SSB(A)	on	on
SS-A	on	on
SS-B(B)	on	on
SS-B(C)	on	on
L1	on	on
L2	on	off

Comments:

Again unable to calibrate MultiRAE. Suspect sensors to be bad. Unit needs service. Contacting ECC for approval. Unfortunately the MultiRAE from our office was also on it's last legs and it had the same problem, so the MultiRAE portion of the airmonitoring was unattainable. L2 is offline

Appendix G

Semi-Annual Groundwater Sampling Analytical Data



Appendix H

Historical Groundwater Level Monitoring Results (Ongoing)

WATER LEVEL DATA SUMMARY

PROJECT:	Stanton Cleaners				JOB NUMBER	R:70536
LOCATION:	Great Neck, NY				DATE:	_1/10/2007
CLIENT:	USACE / USEPA				MEASURED E	r: C.Fernald
SURVEY DATUM:	ft msl					R. Kolacek
MEASURING DEVICE:	Solinat Water Level Indicator S/	N# 34407				
WELL	MEASURING P	OINT	DEPTH TO	ELEVAT	ION OF	COMMENTS
NUMBER	Description	Elevation (FT)	WATER (FT)	WATE	R (FT)	
EPA-MW-11D	ft BTOC	74.63	NA.			blocked by car
EPA <u>-M</u> W-21	ft BTOC	84.13	65.84	18.	29	no bolts
EPA-MW-22	ft BTOC	82.20	63.51	18.	69	
EPA-MW-23	ft BTOC	82.83	64.09	18.	74	
EPA-MW-27	ft BTOC	69.32	51.38	17.	94	no bolts
ST-MW-02	ft BTOC	82.03	63.39	18.	64	top of PVC
ST-MW-06	ft BTOC	69.83	44.85	24.	98	top of PVC
ST-MW-09	ft BTOC	78.13	63.54	14.	59	
ST-MW-11	ft BTOC	75.25	NA_			blocked by car
ST-MW-12	ft BTOC	87.20	70.89	16.	31	missing 1 bolt
ST-MW-14	ft BTOC	69.73	55.64	14.	09	no bolts
ST-MW-16	ft BTOC	75.78	54.10	21.	68	no bolts
ST-MW-17	ft BTOC	86.53	70.37	16.	16	no bolts
ST-MW-19	_ft BTOC	82.50	66.26	16.	24	no bolts
ST-MW-20	ft BTOC	84.53	71.63	12.	90	no bolts
			_			

Notes:

During water level measurements, WAGNN Well #12 was pumping at 1300 GPM, Well # 9 was pumping at 950 GPM.

HISTORICAL GROUNDWATER ELEVATIONS STANTON CLEANERS AREA GROUNDWATER CONTAMINATION SITE GREAT NECK, NASSAU COUNTY, NEW YORK

	T4 D)/O	10/29/2003		10/31	1/2003	11/22/03	11/22/03 - 11/23/03		
Well ID	Top of PVC Elevation (ft msi)	DTW (ft BTOC)	Elevation (ft msl)	DTW (ft BTOC)	Elevation (ft msl)	DTW (ft BTOC)	Elevation (ft msl)		
EPA-MW-							_		
11D	74.63	57.74	16.89	57.94	16.69	60.07	14.56		
EPA-MW-21	84.13	66.70	17.43	66.14	17.99	66.86	17.27		
EPA-MW-22	82.20	64.51	17.69	64.08	18.12	65.09	17.11		
EPA-MW-23	82.83	64.97	17.86	64.54	18.29	78.61	4.22		
EPA-MW-27	69.32	51.74	17.58	51.12	18.20	52.85	16.47		
ST-MW-02	82.03	64.19	17.84	63.78	18.25	64.40	17.63		
ST-MW-06	69.83	63.43	6.40	44.82	25.01	44.92	24.91		
ST-MW-09	78.13	61.39	16.74	60.67	17.46	62.52	15.61		
ST-MW-11	75.25	58.67	16.58	58.06	17.19	60.59	14.66		
ST-MW-12	87.20	73.84	13.36	70.18	17.02	72.01	15.19		
ST-MW-14	69.73	50.94	18.79	50.76	18.97	56.40	13.33		
ST-MW-16	75.78	55.51	20.27	55.53	20.25	65.51	10		
ST-MW-17	86.53	69.95	16.58	69.27	17.26	71.55	14.98		
ST-MW-19	82.50	67.01	15.49	64.93	17.57	68.04	14.46		
ST-MW-20	84.53	65.99	18.54	65.83	18.70	73.45	11.08		

Notes:

ft msl - feet mean sea level ft BTOC - feet below top of casing --- Not

measured

	Top of PVC	12/17/03	- 12/18/03	1/12	/2004	2/26/2	2/26/2004	
Well ID	Elevation (ft msl)	DTW (ft BTOC)	Elevation (ft msl)	DTW (ft BTOC)	Elevation (ft msl)	DTW (ft BTOC)	Elevation (ft msl)	
EPA-MW-								
11D	74.63	59.00	15.63	57.52	17.11	56.50	18.13	
EPA-MW-21	84.13	64.99	19.14	66.17	17.96	64.30	19.83	
EPA-MW-22	82.20	63.03	19.17	63.99	18.21	61.90	20.30	
EPA-MW-23	82.83	77.05	5.78	64.45	18.38	63.00	19.83	
EPA-MW-27	69.32	51.75	17.57	51.22	18.10	50.50	18.82	
ST-MW-02	82.03	63.25	18.78	64.03	18.00	62.03	20.00	
ST-MW-06	69.83	43.10	26.73	45.74	24.09	44.40	25.43	
ST-MW-09	78.13	61.50	16.63	_		60.00	18.13	
ST-MW-11	75.25	59.23	16.02	62.10	13.15	60.90	14.35	
ST-MW-12	87.20	72.00	15.20	70.27	16.93	60.50	26.70	
ST-MW-14	69.73	55.05	14.68	NA	NA	48.70	21.03	
ST-MW-16	75.78	64.18	11.60	54.99	20.79	53.00	22.78	
ST-MW-17	86.53	69.99	16.54	69.40	17.13	67.25	19.28	
ST-MW-19	82.50	67.21	15.29			65.25	17.25	
ST-MW-20	84.53	71.56	12.97	63.51	21.02	61.75	22.78	

Notes:

ft msl - feet mean sea level ft BTOC - feet below top of casing -- Not measured

	Ton of DVC	3/29	/2004	4/5/	2004	5/19/2	2004
Well ID	Top of PVC Elevation (ft msi)	DTW (ft BTOC)	Elevation (ft msi)	DTW (ft BTOC)	Elevation (ft msl)	DTW (ft BTOC)	Elevation (ft msl)
EPA-MW-							
11D	74.63	60.00	14.63	60.36	14.27	60.30	14.33
EPA-MW-21	84.13	66.99	17.14	67.38	16.75	67.10	17.03
EPA-MW-22	82.20	61.90	20.30	65.00	17.20	64.98	17.22
EPA-MW-23	82.83	65.10	17.73	65.59	17.24	65.25	17.58
EPA-MW-27	69.32	52.08	17.24	52.84	16.48	53.10	16.22
ST-MW-02	82.03	63.99	18.04	64.90	17.13	64.87	17.16
ST-MW-06	69.83	45.60	24.23	46.24	23.59	46.25	23.58
ST-MW-09	78.13	62.80	15.33			62.00	16.13
ST-MW-11	75.25	60.00	15.25	60.85	14.40	60.46	14.79
ST-MW-12	87.20	72.22	14.98	72.22	14.98	72.12	15.08
ST-MW-14	69.73	56.99	12.74	57.87	11.86	58.13	11.60
ST-MW-16	75.78	54.68	21.10	55.48	20.30	55.09	20.69
ST-MW-17	86.53	70.25	16.28	71.76	14.77	71.80	14.73
ST-MW-19	82.50	66.00	16.50			65.78	16.72
ST-MW-20	84.53	71.45	13.08	73.78	10.75	73.65	10.88

ft msl - feet mean sea level ft BTOC - feet below top of casing

- - Not measured

	Ton of DVC	6/14	/2004	7/21/04	- 7/22/04	8/2/2	004
Well ID	Top of PVC Elevation (ft msl)	DTW (ft BTOC)	Elevation (ft msl)	DTW (ft BTOC)	Elevation (ft msl)	DTW (ft BTOC)	Elevation (ft msl)
EPA-MW-							
11D	74.63	59.97	14.66	59.75	14.88	59.75	14.88
EPA-MW-21	84.13	67.00	17.13	66.99	17.14	66.11	18.02
EPA-MW-22	82.20	64.78	17.42	64.50	17.70	64.33	17.87
EPA-MW-23	82.83	66.21	16.62	66.10	16.73	65.16	17.67
EPA-MW-27	69.32	53.05	16.27	52.98	16.34	54.86	14.46
ST-MW-02	82.03	65.11	16.92	65.00	17.03	59.85	22.18
ST-MW-06	69.83	45.99	23.84	45.66	24.17	44.11	25.72
ST-MW-09	78.13	62.00	16.13	61.79	16.34	-	
ST-MW-11	75.25	60.40	14.85	60.39	14.86	60.50	14.75
ST-MW-12	87.20	72.29	14.91	72.20	15.00	71.36	15.84
ST-MW-14	69.73	58.55	11.18	58.34	11.39	55.56	14.17
ST-MW-16	75.78	55.09	20.69	55.01	20.77	54.85	20.93
ST-MW-17	86.53	71.52	15.01	71.46	15.07	70.80	15.73
ST-MW-19	82.50	65.00	17.50	64.77	17.73		
ST-MW-20	84.53	73.44	11.09	73.25	11.28	71.66	12.87

Notes:

ft msl - feet mean sea level ft BTOC - feet below top of casing -- Not measured

	Top of PVC	9/28/04	- 9/29/04	10/12/04	-10/13/04	11/3	3/2004
Well ID	Elevation (ft msl)	DTW (ft BTOC)	Elevation (ft msl)	DTW (ft BTOC)	Elevation (ft msl)	DTW (ft BTOC)	Elevation (ft msl)
EPA-MW-							
11D	74.63	59.70	14.93	58.97	15.66	58.95	15.68
EPA-MW-21	84.13	66.75	17.38	66.50	17.63	66.41	17.72
EPA-MW-22	82.20	64.41	17.79	64.34	17.86	64.32	17.88
EPA-MW-23	82.83	65.11	17.72	65.00	17.83	64.87	17.96
EPA-MW-27	69.32	52.31	17.01	52.25	17.07	52.26	17.06
ST-MW-02	82.03	65.00	17.03	65.03	17.00	65.00	17.03
ST-MW-06	69.83	44.55	25.28	55.34	14.49	55.29	14.54
ST-MW-09	78.13	62.00	16.13	62.12	16.01	62.15	15.98
ST-MW-11	75.25	60.41	14.84	60.50	14.75	60.34	14.91
ST-MW-12	87.20	72.00	15.20	72.21	14.99	72.22	14.98
ST-MW-14	69.73	56.71	13.02	56.50	13.23	56.49	13.24
ST-MW-16	75.78	55.10	20.68	57.00	18.78	57.01	18.77
ST-MW-17	86.53	70.99	15.54	70.98	15.55	70.95	15.58
ST-MW-19	82.50	64.84	17.66	64.80	17.70	64.79	17.71
ST-MW-20	84.53	71.97	12.56	72.00	12.53	72.55	11.98

ft msl - feet mean sea level ft BTOC - feet below top of casing

-- - Not measured

	Top of PVC	12/8	/2004	1/3/	2005	2/7/2	005
Well ID	Elevation (ft msl)	DTW (ft BTOC)	Elevation (ft msl)	DTW (ft BTOC)	Elevation (ft msl)	DTW (ft BTOC)	Elevation (ft msl)
EPA-MW-							
11D	74.63	59.75	14.88	59.10	15.53	57.63	17.00
EPA-MW-21	84.1 <u>3</u>	66.61	17.52	<u>65.67</u>	18.46	65.80	18.33
EPA-MW-22	82.20	64.33	17.87	64.44	17.76	65.32	16.88
EPA-MW-23	82.83	65.16	17.67	65.10	17.73	64.44	18.39
EPA-MW-27	69.32	52.24	17.08	51.87	17.45	50.85	18.47
ST-MW-02	82.03	64.54	17.49	64.78	17.25	63.90	18.13
ST-MW-06	69.83	44.11	25.72	55.41	14.42	47.32	22.51
ST-MW-09	78.13	59.98	18.15	62.31	15.82	63.44	14.69
ST-MW-11	75.25	60.50	14.75	59.99	15.26	58.64	16.61
ST-MW-12	87.20	71.36	15.84	71.98	15.22	70.45	16.75
ST-MW-14	69.73	55.56	14.17	56.51	13.22	50.15	19.58
ST-MW-16	75.78	54.85	20.93	57.08	18.70	55.15	20.63
ST-MW-17	86.53	70.80	15.73	71.03	15.50	70.75	15.78
ST-MW-19	82.50	64.32	18.18	64.76	17.74	65.01	17.49
ST-MW-20	84.53	71.66	12.87	72.43	12.10	65.09	19.44

Notes:

ft msl - feet mean sea level ft BTOC - feet below top of casing

- - Not measured

		3/22/2005		4/11	/2005	5/19/2005		
Well ID	Top of PVC Elevation (ft msl)	DTW (ft BTOC)	Elevation (ft msl)	DTW (ft BTOC)	Elevation (ft msl)	DTW (ft BTOC)	Elevation (ft msl)	
EPA-MW-								
11D	74.63	60.00	14.63	60.99	13.64	61.00	13.63	
EPA-MW-21	84.13	64.50	19.63	64.00	20.13	63.21	20.92	
EPA-MW-22	82.20	64.55	17.65	65.12	17.08	65.43	16.77	
EPA-MW-23	82.83	65.00	17.83	65.10	17.73	65.00	17.83	
EPA-MW-27	69.32	51.67	17.65	51.60	17.72	51.33	17.99	
ST-MW-02	82.03	63.99	18.04	63.89	18.14	63.40	18.63	
ST-MW-06	69.83	55.40	14.43	55.42	14.41	55.32	14.51	
ST-MW-09	78.13	61.20	16.93	61.78	16.35	61.72	16.41	
ST-MW-11	75.25	60.10	15.15	60.00	15.25	59.99	15.26	
ST-MW-12	87.20	72.00	15.20	71.21	15.99	71.12	16.08	
ST-MW-14	69.73	56.20	13.53	56.33	13.40	56.34	13.39	
ST-MW-16	75.78	57.00	18.78	57.10	18.68	57.30	18.48	
ST-MW-17	86.53	70.78	15.75	70.00	16.53	59.90	26.63	
ST-MW-19	82.50	63.23	19.27	63.00	19.50	63.00	19.50	
ST-MW-20	84.53	71.32	13.21	71.21	13.32	71.71	12.82	

ft msl - feet mean sea level ft BTOC - feet below top of casing

-- Not measured

	Top of PVC	6/15	/2005	וחד	2005	8/4/2	2005
Well ID	Elevation (ft msl)	DTW (ft BTOC)	Elevation (ft msl)	DTW (ft BTOC)	Elevation (ft msl)	DTW (ft BTOC)	Elevation (ft msl)
EPA-MW-							
11D	74.63	58.70	15.93	58. <u>5</u> 1	16.12	59.07	15.56
EPA-MW-21	84.13	66.35	17.78	66.27	√17.83	66.85	17.28
EPA-MW-22	82.20	63.83	18.37	63.78	18.42	64.38	17.82
EPA-MW-23	82.83	64.32	18.51	64.29	18.54	64.88	17.95
EPA-MW-27	69.32	51.45	17.87	51.35	17.97	51.84	17.48
ST-MW-02	82.03						
ST-MW-06	69.83	45.70	24.13	45.90	23.93	45.80	24.03
ST-MW-09	78.13	63.45	14.68	63.29	14.84	63.94	14.19
ST-MW-11	75.25	_					
ST-MW-12	87.20	71.02	16.18	70.71	16.49	71.42	15.78
ST-MW-14	69.73	55.08	14.65	54.99	14.74	55.45	14.28
ST-MW-16	75.78	54.54	21.24	54.71	21.07	54.82	20.96
ST-MW-17	86.53	70.35	16.18	70.17	16.36	70.78	15.75
ST-MW-19	82.50	66.82	15.68	66.89	15.61	66.53	15.97
ST-MW-20	84.53	71.20	13.33	71.07	13.46	71.59	12.94

Notes:

ft msl - feet mean sea level ft BTOC - feet below top of casing

- - Not measured

	Top of PVC	8/30/2005		10/11/2005		11/6/2005	
Well ID	Elevation (ft msl)	DTW (ft BTOC)	Elevation (ft msl)	DTW (ft BTOC)	Elevation (ft msl)	DTW (ft BTOC)	Elevation (ft msl)
EPA-MW-							
11D	74.63			59.28	15.35	60.09	
EPA-MW-21	84.13	67.03	17.10	67.35	16.78	67.14	16.99
EPA-MW-22	82.20	64.52	17.68	64.93	17.27	64.67	17.53
EPA-MW-23	82.83	65.03	17.80	65.43	17.40	65.17	17.66
EPA-MW-27	69.32	55.11	14.21	52.38	16.94	52.27	17.05
ST-MW-02	82.03	64.42	17.61				
ST-MW-06	69.83	46.25	23.58	45.99	23.84	43.69	26.14
ST-MW-09	78.13			64.28	13.85	64.40	13.73
ST-MW-11	75.25						
ST-MW-12	87.20	71.61	15.59	71.68	15.52	71.76	15.44
ST-MW-14	69.73	55.71	14.02	55.71	14.02	57.16	12.57
ST-MW-16	75.78	55.21	20.57	55.78	20.00	54.55	21.23
ST-MW-17	86.53	70.99	15.54	71.09	15.44	71.36	15.17
ST-MW-19	82.50	66.71	15.79	66.90	15.60	66.86	15.64
ST-MW-20	84.53	71.83	12.70	71.78	12.75	74.56	9.97

ft msi - feet mean sea level ft BTOC - feet below top of casing

-- - Not measured

	Top of PVC	12/19/2005		1/24/2006		2/22/2006	
Well ID	Elevation (ft msl)	DTW (ft BTOC)	Elevation (ft msl)	DTW (ft BTOC)	Elevation (ft msl)	DTW (ft BTOC)	Elevation (ft msl)
EPA-MW-							
11D	74.63	59.19	15.44	59.22	15.41	58.37	16.26
EPA-MW-21	84.13	66.84	17.29	66.55	17.58	65.72	18.41
EPA-MW-22	82.20	64.39	17.81	64.09	18.11	63.38	18.82
EPA-MW-23	82.83	64.89	17.94	64.61	18.22	63.91	18.92
EPA-MW-27	69.32	51.96	17.36	51.72	17.60	51.10	18.22
ST-MW-02	82.03						
ST-MW-06	69.83	44.43	25.40	44.08	25.75	44.88	24.95
ST-MW-09	78.13	63.96	14.17	63.77	14.36	63.24	14.89
ST-MW-11	75.25		_				
ST-MW-12	87.20	71.43	15.77	71.17	16.03	70.58	16.62
ST-MW-14	69.73	55.58	14.15	56.09	13.64	54.86	14.87
ST-MW-16	75.78	54.77	21.01	54.43	21.35	54.17	21.61
ST-MW-17	86.53	70.82	15.71	70.62	15.91	70.03	16.50
ST-MW-19	82.50	66.94	15.56	66.66	15.84	66.46	16.04
ST-MW-20	84.53	71.64	12.89	72.13	12.40	70.81	13.72

Notes:

ft msl - feet mean sea level ft BTOC - feet below top of casing

-- - Not measured

	Top of PVC	4/11/2006		5/2/2006		6/26/2006	
Well ID	Elevation (ft msl)	DTW (ft BTOC)	Elevation (ft msl)	DTW (ft BTOC)	Elevation (ft msl)	DTW (ft BTOC)	Elevation (ft msl)
EPA-MW-11D	74.63	59.30	15.33	64.90	9.73		
EPA-MW-21	84.13	66.23	17.90	63.84	20.29	65.44	18.69
EPA-MW-22	82.20	63.89	18.31	63.59	18.61	63.10	19.10
EPA-MW-23	82.83	64.44	18.39	68.99	13.84	63.70	19.13
EPA-MW-27	69.32	51.72	17.60	51.28	18.04	51.78	17.54
ST-MW-02	82.03				_		
ST-MW-06	69.83	46.54	23.29	44.58	25.25	43.81	26.02
ST-MW-09	78.13	63.96	14.17	63.50	14.63	62.92	15.21
ST-MW-11	75.25						
ST-MW-12	87.20	71.35	15.85	73.87	13.33	70.24	16.96
ST-MW-14	69.73	56.10	13.63	55.71	14.02	54.38	15.35
ST-MW-16	75.78	54.58	21.20	54.63	21.15	53.85	21.93
ST-MW-17	86.53	70.76	15.77	70.35	16.18	69.74	16.79
ST-MW-19	82.50	67.13	15.37	66.69	15.81	65.70	16.80
ST-MW-20	84.53	72.13	12.40	71.80	12.73	73.45	11.08

ft msi - feet mean sea level ft BTOC - feet below top of casing

-- - Not measured

	Top of PVC	7/20/2006		8/31/2006		9/27/2006	
Weil ID	Elevation (ft msl)	DTW (ft BTOC)	Elevation (ft msl)	DTW (ft BTOC)	Elevation (ft msl)	DTW (ft BTOC)	Elevation (ft msl)
EPA-MW-							
11D	74.63	58.62	16.01	58.12	16.51	58.17	16.46
EPA-MW-21	84.13	65.57	18.56	65.42	18.71	65.43	18.70
EPA-MW-22	82.20	63.23	18.97	63.13	19.07	63.11	19.09
EPA-MW-23	82.83	63.77	19.06	63.64	19.19	63.68	19.15
EPA-MW-27	69.32	51.00	18.32	50.80	18.52	50.81	18.51
ST-MW-02	82.03	64.11					
ST-MW-06	69.83	43.43	26.40	43.61	26.22	45.00	24.83
ST-MW-09	78.13	63.18	14.95	62.92	15.21	63.97	14.16
ST-MW-11	75.25						
ST-MW-12	87.20	70.56	16.64	70.21	16.99	70.42	16.78
ST-MW-14	69.73	55.57	14.16	54.82	14.91	54.69	15.04
ST-MW-16	75.78	53.54	22.24	53.75	22.03	54.57	21.21
ST-MW-17	86.53	70.05	16.48	69.71	16.82	69.85	16.68
ST-MW-19	82.50	64.97	17.53	65.69	16.81	65.79	16.71
ST-MW-20	84.53	71.54	12.99	70.86	13.67	73.83	10.70

Notes:

ft msl - feet mean sea level

ft BTOC - feet below top of casing

- - Not measured

	Top of PVC	10/25	/2006	12/13	3/2006	1/1	0/27
Well ID	Elevation (ft msl)	DTW (ft BTOC)	Elevation (ft msl)	DTW (ft BTOC)	Elevation (ft msl)	DTW (ft BTOC)	Elevation (ft msl)
EPA-MW-							Well blocked by
11D	74.63	58.92	15.71	57.92	16.71	NA	car
EPA-MW-21	84.13	65. <u>8</u>	18.33	65.33	18.80	65.84	18.29
EPA-MW-22	82.2	63.48	18.72	63.04	19.16	63.51	18.69
EPA-MW-23	82.83	64.04	18.79	63.53	19.30	64.09	18.74
EPA-MW-27	69.32	51.29	18.03	50.65	18.67	51.38	17.94
ST-MW-02	82.03			62.98	19.05	63.39	18.64
ST-MW-06	69.83	45.18	24.65	45.27	24.56	44.85	24.98
ST-MW-09	78.13	63.45	14.68	62.75	1 <u>5.38</u>	63.54	14.59
ST-MW-11	75.25		_			NA	Well blocked by car
ST-MW-12	87.2	70.87	16.33	70.24	1 <u>6.96</u>	70.89	16.31
ST-MW-14	69.73	56.69	13.04	53.95	15.78	55.64	14.09
ST-MW-16	75.78	54.9	20.88	53.84	21.94	54.10	21.68
ST-MW-17	86.53	70.35	16.18	69.64	16.89	70.37	16.16
ST-MW-19	82.5	66.22	16.28	65.59	16.91	66.26	16.24
ST-MW-20	84.53	71.71	12.82	70.05	14.48	71.63	12.90

ft msl - feet mean sea level
ft BTOC - feet below top of casing
-- Not
measured

	Top of PVC	5/22	2006
Well ID	Elevation (ft msl)	DTW (ft BTOC)	Elevation (ft msl)
ST-MW-02	82.03	63.36	18.67
ST-MW-16	75.78	54.52	21.26
EPA-MW-25	73.24	54.03	19.21
EPA-MW-26	78.37	58.64	19.73
ST-MW-15	90.13	72.78	17.35
ST-MW-18	84.4	71.9	12.50
ST-MW-12	87.2	70.4	16.80
ST-MW-17	86.53	69.96	16.57
ST-MW-20	84.53	71.37	13.16
ST-MW-19	N/A	66.3	
ST-MW-09	N/A		
EPA-MW-9A	80.24	65.18	15.06
ST-MW-06	69.83	44.5	25.33
EPA-MW-27	69.32	51.03	18.29
ST-MW-14	69.73	55.35	14.38

ft msl - feet mean sea level ft BTOC - feet below top of casing

-- - Not measured

Appendix I Indoor Air Quality Analytical Data

Appendix J Action List Dated December 2006



JANUARY 2007 ACTION LIST SUMMARY

PROJECT: **Stanton Cleaners** LOCATION: Great Neck, NY

JOB NUMBER: 70536 DATE:

February 1, 2007

CLIENT: USACE / USEPA

COMPLETED ITEMS	DATE PERFORMED
Bi-weekly O&M inspection	1/10/2007
Bi weekly air monitoring	1/10/2007
Drained water from SVE piping	1/10/2007
Replaced Broken Treatment Building Window	1/18/2007
Recorded O&M Data	1/18/2007
Bi weekly O&M Inspection	1/23/3007
Bi-weekly Air Monitoring	1/23/2007

OUTSTANDING ITEMS RECOMMENDED SOLUTION

Pinhole sized leak observed at the base of an air stripper. Caused by corroded weld at the seam between the front and bottom of the air stripper. Leak not affecting floor sump pumps or systems operations at this point..

Options are being explored for a repair