

Monthly Operations and Monitoring Report March 2007

Site:

Stanton Cleaners Area Groundwater Contamination
Great Neck, NY

Prepared for:

Environmental Chemical Corporation
1125 Route 22 West
Bridgewater, New Jersey 08807

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May 5, 2007

Earth Tech Project No. 70536

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1.0 INTRODUCTION

This Monthly Operations and Monitoring Report, March 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 EPA installed a temporary soil vapor interceptor system, adjacent to the tennis club, to mitigate impacts from PCE vapors to the indoor air of this facility.

In 2001, the EPA completed the construction and installation of a soil vapor extraction (SVE) system and a 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 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 United States Environmental Protection Agency (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 system and SVE system, 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 March 1 and March 31, 2007.

2.0 SUMMARY OF ACTIVITIES DURING MARCH 2007

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

- March 7 - Bi-weekly O&M Inspection/System Monitoring (installed new breaker and electric wiring for heat trace on outside influent pipe);
- March 7 - Bi-weekly air monitoring;
- March 7 - Monthly Treatment System sampling;
- March 7 - Monthly groundwater monitoring well network water level measurement;
- March 21 - Bi-weekly O&M Inspection/System Monitoring (GWT System was down due to wet floor alarm, restarted GWT System);
- March 21 - Bi-weekly air monitoring; and,
- March 28 and 29 - System maintenance (wet floor alarm had shut down the system due to leaking aqueous phase carbon vessel, by-passed vessel for servicing, restarted GWT System, reduced flow to avoid backpressure problems).

Details of system shutdowns and alarms during the month of March 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 GWT system treated and discharged 1,384,345.4 gallons during the month of March 2007. The system was operational (recovery well pumps running) for approximately 408 of the 720 hours during the month, for an average operating flow of 56.6 gallons per minute (gpm). The system has treated a total of 147,525,423 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 was completed during the O&M inspection event for March 7 and 21, 2007 and is 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 (Russell Kolacek). If he requires guidance or notes any serious conditions, the inspector notifies the Project Manager (Francisco Metcalf). The checklists are completed on site and sent to Project Manager 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 March 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).

On February 7, 2007, the GWT system was shut down due to influent pipeline freezing. Heat tape was installed around the pipe to prevent future freezing and the system was restarted on February 20, 2007.

In March 2007 the GWT System was shut down due to wet floor alarms triggered by water leaking from one of the 400-lb aqueous phase carbon vessels. The damaged aqueous phase carbon vessel has been taken offline for maintenance. The GWT System continues to operate with just one 400-lb aqueous phase carbon vessel at a reduce flow (influent at 38 GPM and effluent at 66 GPM).

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 March 7, 2007. The samples were shipped to the USEPA 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.

The next GWTS influent / effluent sampling event is scheduled for April 12, 2007.

3.2.2 Process Air Stream Monitoring

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 March 7 and 21, 2007. Copies of the bi-weekly air monitoring logs are included in Appendix F. The next bi-weekly air-monitoring event is scheduled for April 3, 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

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
L1	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 third semi-annual groundwater sampling event was performed the week of May 23, 2006. It included sampling sixteen (16) monitoring wells, nine (9) 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 fourth semi-annual groundwater sampling event took place the week of February 12, 2007. Below is a list of monitoring wells that were be sampled (per the USEPA Remedial Project Manager selection/request). Also below is a list of monitoring well samples that were further analyzed for monitoring and natural attenuation parameters. A copy of the semi-annual groundwater sampling event trip report was included in Appendix G of the February 2007 Monthly O&M Report.

Table 2 Monitored Well Samples for Further Analysis

CL-ID	CL-ID
CL-4D	EPA-MW-21
EPA-MW-21	EPA-MW-26
EPA-MW-22	EPA-MW-27
EPA-MW-23	EPA-MW-29
EPA-MW-26	ST-MW-12
EPA-MW-27	ST-MW-17
EPA-MW-29	ST-MW-19
ST-MW-02	ST-MW-20
ST-MW-11	

ST-MW-12	
ST-MW-14	
ST-MW-15	
ST-MW-17	
ST-MW-19	
ST-MW-20	

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 (Water Authority of Great Neck North) 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 March 7, 2007. The location and number of monitoring wells was determined by the USEPA based on the site Capture Zone Analysis Plan. Groundwater level measurements for March 7, 2007 and 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 (as of May 2006 indoor air sampling is performed on a semi-annual basis). 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.

Indoor air quality samples were collected on February 13 and February 14, 2007 by Earth Tech personnel. This sampling event was conducted to address air quality issues within the Long Island Hebrew Academy, the Silverstein Hebrew Academy, and the Stanton Cleaners Treatment Building. A copy of the Indoor Air Sampling Trip Report was included in Appendix I of the February 2007 Monthly O&M Report.

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; and,
- Obtain groundwater level measurements as directed by USACE/ECC/USEPA.

8.0 PROBLEM AREAS AND RECOMMENDED SOLUTIONS (OUTSTANDING ISSUES)

The altering of the piping for the 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 GPM to 72 GPM following the change. 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 was secured (using ply wood from the inside) and a contractor was 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.

On February 7, 2007, the GWT system was shut down due to influent pipeline freezing. Heat tape was installed around the influent pipe to prevent freezing and the system was restarted on February 20, 2007.

On February 20, 2007, it was noted that the SVE lines for SS-B(B) & SS-B(A) had broken due to the weight of the SVE line above it that had fallen onto it. Repairs to these lines are planned during the next trip to the site.

On March 28, 2007 the GWT System was shut down due to wet floor alarms triggered by water leaking from one of the 400-lb aqueous phase carbon vessels. The damaged aqueous phase carbon vessel has been taken offline for maintenance. The GWT System continues to operate with just one 400-lb aqueous phase carbon vessel at a reduce flow (influent at 38 GPM and effluent at 66 GPM). Maintenance on the leaking vessel will be performed to coincide with the next spent carbon change out (vessel needs to be empty in order to perform maintenance).

Tables

Estimated PCE Recovery Rates
Stanton Cleaners Area Groundwater Contamination Site
250 CFM SVE SYSTEM
September 2003 – March 2007

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 Shutdown 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

Notes:

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

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.

$$M_{air} = Q_{air} \times C_{air} \times \frac{0.0283 \text{ m}^3}{\text{ft}^3} \times \frac{1440 \text{ min}}{\text{day}} \times \frac{2.2 \text{ lbs}}{1000000 \text{ mg}}$$

$$C_{air} \text{ (mg/m}^3\text{)} = \frac{\text{Conc (ppmv)}}{1E+0} \times \frac{1 \text{ mole air}}{24.1 \text{ L}} \times \frac{1000 \text{ L}}{\text{m}^3} \times \frac{1000 \text{ mg}}{\text{g}} \times MW_x$$

Notes:

M_{air} = mass loading, removal rate in air (lbs/day)

Q_{air} = flow rate in air (cfm)

C_{air} = contaminant concentration (mg/m³)

MW_x = 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 Fahrenheit (0 degrees Celcius), the conversion is (1 mole air)/(22.4 L).

Estimated PCE Recovery Rates (continued)

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	147.5	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
10/20/2004	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
11/17/2004	16	125	123	4.1	3.55	0.3	4.3
11/29/2004	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
12/16/2004	9	120	120.5	4.1	4.15	0.3	2.8

Notes:

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

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.

$$M_{air} = Q_{air} \times C_{air} \times 0.0283 \frac{m^3}{ft^3} \times 1440 \frac{min}{day} \times 2.2 \frac{lbs}{mg} \times 1000000 \frac{mg}{lbs}$$

$$C_{air} (mg/m^3) = \frac{Conc (ppmv)}{1E+0} \times \frac{1 \text{ mole air}}{24.1 \text{ L}} \times \frac{1000 \text{ L}}{m^3} \times \frac{1000 \text{ mg}}{g} \times MW_x$$

Notes:

M_{air} = mass loading, removal rate in air (lbs/day)

Q_{air} = flow rate in air (cfm)

C_{air} = contaminant concentration (mg/m³)

MW_x = 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 Fahrenheit (0 degrees Celcius), the conversion is (1 mole air)/(22.4 L).

Estimated PCE Recovery Rates (continued)

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

Notes:

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

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.

$$M_{air} = Q_{air} \times C_{air} \times 0.0283 \frac{m^3}{ft^3} \times 1440 \frac{min}{day} \times 2.2 \frac{lbs}{mg} \times 1000000$$

$$C_{air} (mg/m^3) = \frac{Conc (ppmv)}{1E+06} \times \frac{1 \text{ mole air}}{24.1 \text{ L}} \times \frac{1000 \text{ L}}{m^3} \times \frac{1000 \text{ mg}}{g} \times MW_x$$

Notes:

M_{air} = mass loading, removal rate in air (lbs/day)

Q_{air} = flow rate in air (cfm)

C_{air} = contaminant concentration (mg/m³)

MW_x = 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 (0 degrees Celcius), the conversion is (1 mole air)/(22.4 L).

Estimated PCE Recovery Rates (continued)

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

Notes:

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

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.

$$M_{air} = Q_{air} \times C_{air} \times \frac{0.0283 \text{ m}^3}{\text{ft}^3} \times \frac{1440 \text{ min}}{\text{day}} \times \frac{2.2 \text{ lbs}}{1000000 \text{ mg}}$$

$$C_{air} \text{ (mg/m}^3\text{)} = \frac{\text{Conc (ppmv)} \times 1 \text{ mole air} \times 1000 \text{ L} \times 1000 \text{ mg}}{1\text{E}+06 \times 24.1 \text{ L} \times \text{MW}_x}$$

Notes:

M_{air} = mass loading, removal rate in air (lbs/day)

Q_{air} = flow rate in air (cfm)

C_{air} = contaminant concentration (mg/m³)

MW_x = 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 Fahrenheit (0 degrees Celsius), the conversion is (1 mole air)/(22.4 L).

Estimated PCE Recovery Rates (continued)

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
10/12/2006	14	260	256	6.3	8.45	1.3	18.7
10/26/2006	14	250	255	7.8	7.05	1.1	15.5
11/13/2006	18	265	257.5	7.5	7.65	1.2	21.9
11/28/2006	15	265	265	4	5.75	0.9	14.1
12/13/2006	15	98	181.5	0	2.00	0.2	3.4
12/28/2006	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	MultiRAE not operational			
2/20/2007	25	52	37.5	0	0	0.0	0.0
3/7/2007	15	61	56.5	0	0	0.0	0.0
3/17/2007	System down						
3/21/2007	10	61	61	0	0	0.0	0.0

Notes:

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

SVE system off from 2/7/2007 through 2/20/07 due to frozen lines.

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.

$$M_{air} = Q_{air} \times C_{air} \times 0.0283 \frac{m^3}{ft^3} \times 1440 \frac{min}{day} \times 2.2 \frac{lbs}{mg} \times 1000000$$

$$C_{air} (mg/m^3) = \frac{Conc (ppmv)}{1E+0} \times \frac{1 \text{ mole air}}{24.1 \text{ L}} \times \frac{1000 \text{ L}}{m^3} \times \frac{1000 \text{ mg}}{g} \times MW_x$$

Notes:

M_{air} = mass loading, removal rate in air (lbs/day)

Q_{air} = flow rate in air (cfm)

C_{air} = contaminant concentration (mg/m³)

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

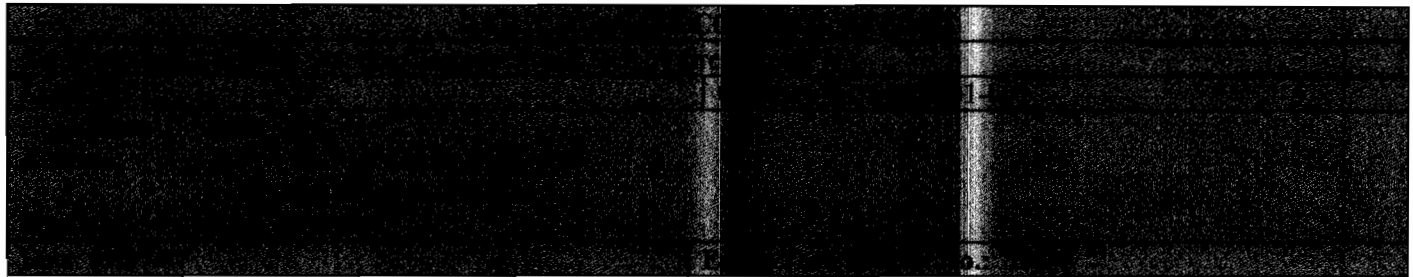
Note: The conversion factor (1 mole air)/(24.1 L) varies with both temperature and pressure. At a pressure of 1 atmosphere and a temperature of 32 degrees Fahrenheit

(0 degrees Celcius), the conversion is (1 mole air)/(22.4 L).

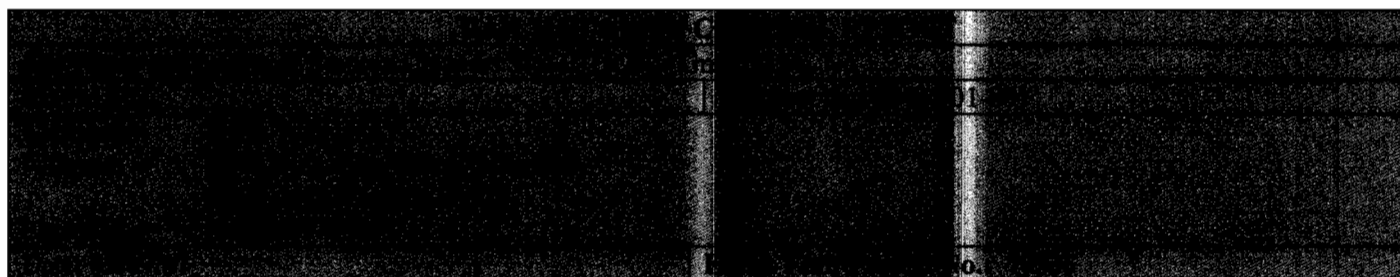
Appendices

Appendix A

Daily Quality Control Reports (DQCRs)



Day	S	M	T	W	T	F	S
Weather				SNOWING			
Temp.				15° F			
Wind				WINDY			
Humidity				LOW			
Earth Tech Personnel On-Site: Russell Kolacek, Justin Self							
Subcontractor (include names & responsibilities): N/A							
Contract Materials and Equipment on site: Chevy 1500 pick-up, general hand tools. MultiRAE.							
Extension ladder, climbing harness, DeWalt power toolkit;							
Work Performed (include sampling; list by NAS number if applicable): Bi weekly O&M inspection; Bi weekly air monitoring; Repaired broken section of SVE pipe near SS-B(B) and SS-B(A); Collected monthly system samples; Installed new breaker and electrical wiring and heat trace for the outside portion of the influent pipe; photographed installation; (see special notes)							
Quality Control Activities (including field calibrations): Calibrated MultiRae							
Health and Safety Levels and Activities: Level D							
Problems Encountered/Correction Action Taken: N/A							
Explain Developments Leading to Change in SOW or Finding of Fact: N/A							
Preparatory Inspection (list all inspections by subject and specification location; attach minutes of meeting and list of all attendees): N/A							
Have all required submittals and samples of construction been approved? Yes							
Do the materials and equipment to be used conform to the submittals? Yes							
Has all preliminary work been inspected, tested, and completed? Yes							
Test required and inspection techniques to be executed to prove contract compliance (include both expected and actual results): N/A							
Has a phase hazard analysis been performed? Included in the Site Specific Health & Safety Plan.							



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: The LCD display for the plant PLC was not working when we arrived. The enclosure had been left opened indicating someone had been working inside it. We jiggled the power cord for the monitor trying to get it to turn on. It turned on for a short period enabling us to record a portion of the O&M data, but shortly afterwards stopped working again. Removed the plug on the monitor and plugged it back in and jiggled the cord, this time hearing a pop sound. The monitor would not respond. I examined the DC power supply and could see that the DC plug was a makeshift job with the original plug that was attached to the power supply electrical taped to a different DC plug which was the correct size for the monitor. A shorting between the contacts could likely have damaged the LCD monitor. I checked the power supply with a multi-meter; it was operating at the correct voltage. I called the distributor and spoke with tech-support. We concluded that the monitor was damaged and outside of warranty and would need replaced.

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.

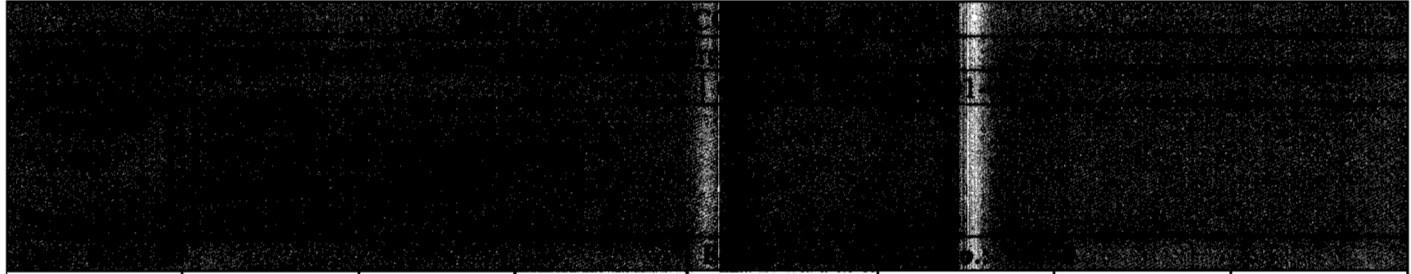
By: Russell Kolacek

Title: Environmental Technician

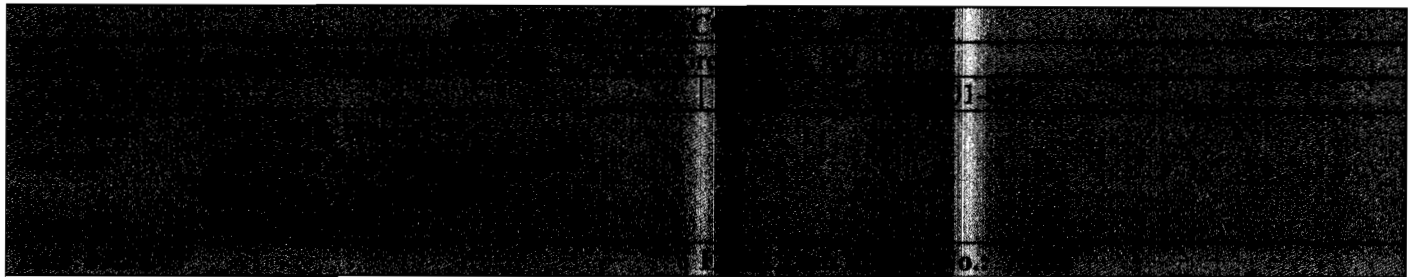
Signature:

(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.



Day	S	M	T	W	T	F	S
Weather				SUNNY			
Temp.				48° F			
Wind				BREEZY			
Humidity				LOW			
Earth Tech Personnel On-Site: Russell Kolacek, John McTernan							
Subcontractor (include names & responsibilities): N/A							
Contract Materials and Equipment on site: Chevy 1500 pick-up, general hand tools. MultiRAE.							
Work Performed (include sampling; list by NAS number if applicable): Bi weekly O&M inspection; Bi weekly air monitoring; Restarted system; Cleaned water on the floor;(see special notes)							
Quality Control Activities (including field calibrations): Calibrated MultiRae							
Health and Safety Levels and Activities: Level D							
Problems Encountered/Correction Action Taken: N/A							
Explain Developments Leading to Change in SOW or Finding of Fact: N/A							
Preparatory Inspection (list all inspections by subject and specification location; attach minutes of meeting and list of all attendees): N/A							
Have all required submittals and samples of construction been approved? Yes							
Do the materials and equipment to be used conform to the submittals? Yes							
Has all preliminary work been inspected, tested, and completed? Yes							
Test required and inspection techniques to be executed to prove contract compliance (include both expected and actual results): N/A							
Has a phase hazard analysis been performed? Included in the Site Specific Health & Safety Plan.							



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: **The LCD display for the plant PLC is not operational; There was water in the sump sensor and a small amount on the floor, however, it had mostly evaporated and a source of the leak could not be determined. After restarting the system and observing operation, a source of the leak was still undeterminable.**

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.

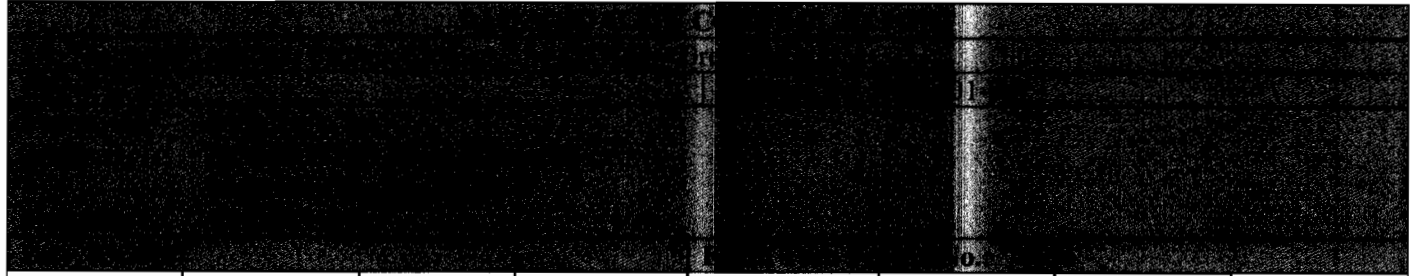
By: Russell Kolacek

Title: Environmental Technician

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.



Day	S	M	T	W	T	F	S
Weather				CLOUDY			
Temp.				52° F			
Wind				WINDY			
Humidity				LOW			

Earth Tech Personnel On-Site: **Russell Kolacek, Justin Self**

Subcontractor (include names & responsibilities): **N/A**

Contract Materials and Equipment on site: **Chevy 1500 pick-up, general hand tools. MultiRAE.**

Work Performed (include sampling; list by NAS number if applicable):

Restarted system; Noticed leak coming from the underside of one of the aqueous carbon vessels; Due to the distance off the floor, the carbon vessel is unserviceable until a carbon change-out is done; There were no bypass valves for individual carbon vessels (only a set of valves to bypass both carbon vessels); Attempted to find supplier for 2-inch ball valves; Found a supplier but was unable to reach them before they closed (Mayer Malbin Supply); Contacted Greg Stadden to dial into the PLC and reduce the flow from the wells by 50%; Cleaned water on the floor;(see special notes)

Quality Control Activities (including field calibrations):

Health and Safety Levels and Activities: **Level D**

Problems Encountered/Correction Action Taken: **N/A**

Explain Developments Leading to Change in SOW or Finding of Fact: **N/A**

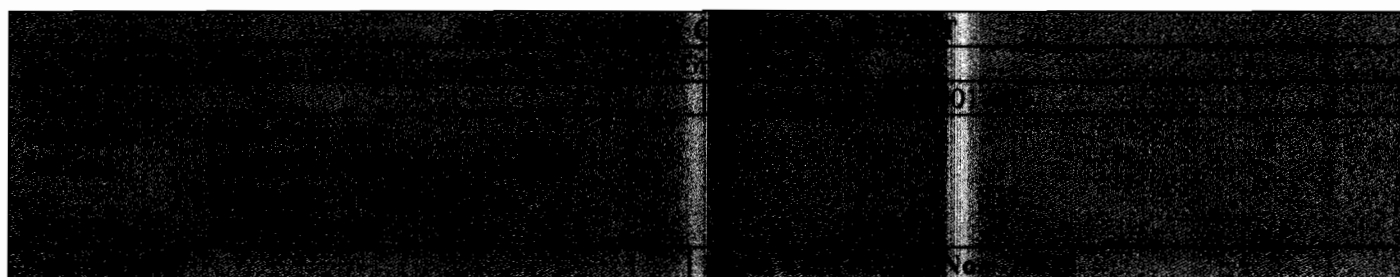
Preparatory Inspection (list all inspections by subject and specification location; attach minutes of meeting and list of all attendees): **N/A**

Have all required submittals and samples of construction been approved? **Yes**

Do the materials and equipment to be used conform to the submittals? **Yes**

Has all preliminary work been inspected, tested, and completed? **Yes**

Test required and inspection techniques to be executed to prove contract compliance (include both expected and actual



results): N/A

Has a phase hazard analysis been performed? **Included in the Site Specific Health & Safety Plan.**

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:

Returning to supplier tomorrow to purchase parts and install;

Tomorrow's Expectations:

Bi weekly O&M Inspection; bi weekly air monitoring.

Change out of carbon in indoor air filters at the site.

Install ball valves to bypass carbon vessel

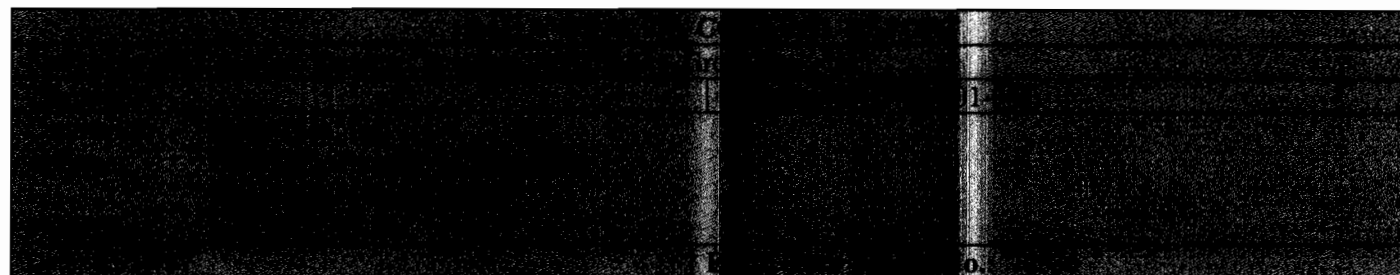
By: Russell Kolacek

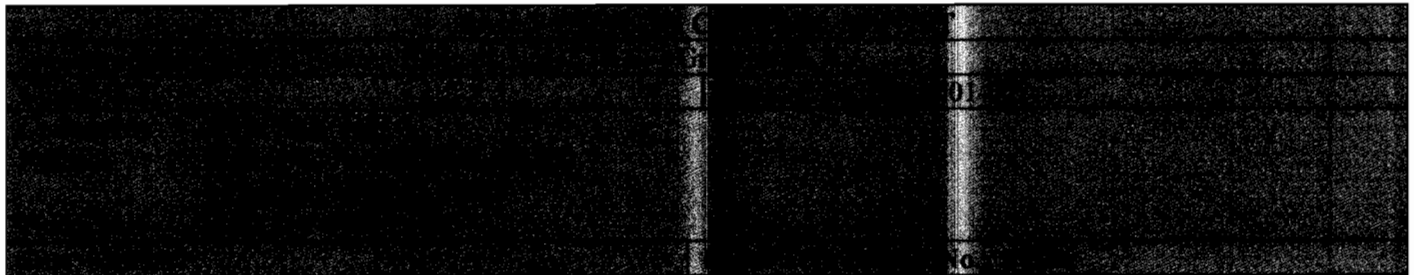
Title: Environmental Technician

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.

							
Day	S	M	T	W	T	F	S
Weather					SUNNY		
Temp.					51° F		
Wind					windy		
Humidity					LOW		
Earth Tech Personnel On-Site: Russell Kolacek							
Subcontractor (include names & responsibilities): N/A							
Contract Materials and Equipment on site: Chevy 1500 pick-up, general hand tools. MultiRAE.							
Work Performed (include sampling; list by NAS number if applicable): Purchased 2-inch ball valves from supplier (Mayer Malbin); Installed ball valves on influent and effluent sides of the leaking carbon vessel; Restarted the system and observed proper system cycling with the valves closed for the leaking carbon vessel; Measured influent @ 38GPM & effluent @ 66GPM; Cleaned water on the floor;(see special notes)							
Quality Control Activities (including field calibrations):							
Health and Safety Levels and Activities: Level D							
Problems Encountered/Correction Action Taken: N/A							
Explain Developments Leading to Change in SOW or Finding of Fact: N/A							
Preparatory Inspection (list all inspections by subject and specification location; attach minutes of meeting and list of all attendees): N/A							
Have all required submittals and samples of construction been approved? Yes							
Do the materials and equipment to be used conform to the submittals? Yes							
Has all preliminary work been inspected, tested, and completed? Yes							
Test required and inspection techniques to be executed to prove contract compliance (include both expected and actual results): N/A							



Has a phase hazard analysis been performed? **Included in the Site Specific Health & Safety Plan.**

Called PM hourly to check-in;

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:

Tomorrow's Expectations:

Bi weekly O&M Inspection; bi weekly air monitoring.

Change out of carbon in indoor air filters at the site.

By: Russell Kolacek

Title: Environmental Technician

Signature: *Russell P. Kolacek*

(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

STANTON CLEANERS AREA GROUNDWATER CONTAMINATION SITE OPERATION AND MAINTENANCE WEEKLY CHECKLIST **DATE: 03/07/07**

1. A. Is any part of the system leaking? YES NO
 If so, list where: slow leak @ base of air stripper near discharge flange – corroded seam weld
- B. Is there water on the floor? YES NO
 If so, list where: below air stripper – not very much
- C. Are all three (3) floor sump level switches in place? YES NO
- D. Is there any evidence of water in any of these floor sumps? YES NO
 Note: If water is present, remove with shop vac or paper towels.
2. A. Display screen on computer will either show system or screen saver. If screen saver is on, tap screen with finger to show screen. If only the desktop is showing with no system screen, click the *Lookout* – (Stanton) icon on the taskbar at the bottom of the screen.

B. From the site display, monitor and record the following.

- | | | |
|---|------------|------|
| 1. Recovery Well EPA-EXT-02 flow ¹ | <u>43</u> | GPM |
| 2. Recovery Well EPA-EXT-02 valve open | <u>100</u> | % |
| 3. Recovery Well EPA-EXT-4R flow | <u>0</u> | GPM |
| 4. Recovery Well EPA-EXT-4R valve open | <u>0</u> | % |
| 5. Recovery Well pH | <u>6.6</u> | pH |
| 6. Recovery Well conductivity | <u>55</u> | cond |
| 7. Air Stripper pH | <u>6.8</u> | pH |
| 8. Air Stripper temperature | <u>148</u> | deg. |
| 9. Air Stripper air flow | <u>415</u> | CFM |
| 10. Pre-vapor carbon pressure | <u>0</u> | "wc |
| 11. Post carbon air flow | <u>NA</u> | CFM |
| 12. Discharge conductivity | <u>NA</u> | cond |
| 13. Discharge pH | <u>NA</u> | pH |
| 14. Discharge flow | <u>NA</u> | GPM |
| 15. Discharge total gallons | <u>NA</u> | Gal |
| 16. SVE inlet vacuum | <u>NA</u> | "Hg |

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.

17. SVE air flow NA CFM

C. From the treatment room, monitor and record the following.

1. Recovery Well EPA-EXT-02 total flow 8953363.5 Gal
2. Recovery Well EPA-EXT-03 total flow 51.5 Gal
3. Recovery Well pH 6.20 pH
4. Recovery Well conductivity 0.52 cond
5. Air Stripper pH 6.85 pH
6. Air Stripper temperature 14.7 deg. C
7. Air Stripper Pump water flow 77.0 GPM
8. Air Stripper Pump pressure 49 PSI
9. Discharge conductivity 0.933 cond
10. Discharge pH 7.86 pH
11. SVE inlet vacuum (digital readout) +2.1 "Hg
12. SVE inlet vacuum -3.8 "Hg
13. SVE post knockout vacuum -3.7 "Hg

3. A. If time allows, check to see that the treatment system is cycling properly as described in STANTON CLEANERS AREA GROUNDWATER CONTAMINATION SITE O&M MANUAL

Treatment System is cycling properly.

The LCD display needed for O&M data recording was not functioning and appeared to have been damaged. Some O&M data was unattainable due to this problem.

**STANTON CLEANERS AREA GROUNDWATER CONTAMINATION SITE OPERATION AND
MAINTENANCE WEEKLY CHECKLIST** **DATE:03/21/07**

1. A. Is any part of the system leaking? YES NO
 If so, list where: Air stripper between some seals and at a weld seam. Slow leak.

 B. Is there water on the floor? YES NO
 If so, list where: Below the air stripper, slight accumulation.

 C. Are all three (3) floor sump level switches in place? YES NO

 D. Is there any evidence of water in any of these floor sumps? YES NO
 Note: If water is present, remove with shop vac or paper towels.
2. A. Display screen on computer will either show system or screen saver. If screen saver is on, tap screen with finger to show screen. If only the desktop is showing with no system screen, click the *Lookout – (Stanton)* icon on the taskbar at the bottom of the screen.

 B. From the site display, monitor and record the following.
 1. Recovery Well EPA-EXT-02 flow¹ _____ 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 _____ pH
 6. Recovery Well conductivity _____ cond
 7. Air Stripper pH _____ pH
 8. Air Stripper temperature _____ deg.
 9. Air Stripper air flow _____ CFM
 10. Pre-vapor carbon pressure _____ "wc
 11. Post carbon air flow _____ CFM
 12. Discharge conductivity _____ cond
 13. Discharge pH _____ pH
 14. Discharge flow _____ GPM
 15. Discharge total gallons _____ Gal
 16. SVE inlet vacuum _____ "Hg

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.

17. SVE air flow _____ CFM

C. From the treatment room, monitor and record the following.

1. Recovery Well EPA-EXT-02 total flow 9450454 Gal
2. Recovery Well EPA-EXT-03 total flow 51.5 Gal
3. Recovery Well pH 6.12 pH
4. Recovery Well conductivity 0.60 cond
5. Air Stripper pH 6.88 pH
6. Air Stripper temperature 15.1 deg. C
7. Air Stripper Pump water flow 72.5 GPM
8. Air Stripper Pump pressure 49 PSI
9. Discharge conductivity 0.39 cond
10. Discharge pH 7.35 pH
11. SVE inlet vacuum (digital readout) 1.6 "Hg
12. SVE inlet vacuum 3.0 "Hg
13. SVE post knockout vacuum 2.8 "Hg

3. A. If time allows, check to see that the treatment system is cycling properly as described in STANTON CLEANERS AREA GROUNDWATER CONTAMINATION SITE O&M MANUAL

Appendix C

Groundwater Treatment System Downloaded Operational Data

Stanton Cleaners Groundwater Contamination Site - March 2007 - Site Operation Data

3/1/2007	0:00	0	0	0	0	0	66	2632	150	55	84	6.5	6.8	7.8	146154417.9	381	2932	500
3/1/2007	4:00	0	0	0	50	50	69	2930	149	54	47	6.6	6.8	7.8	146167487.9	453	2930	500
3/1/2007	8:00	0	0	0	50	50	65	2928	150	56	47	6.6	6.8	7.8	146180611.8	414	2928	500
3/1/2007	12:00	0	0	0	37	37	66	2923	150	62	86	6.5	6.9	7.7	146193691.6	306	2923	500
3/1/2007	16:00	0	0	0	44	44	66	2776	150	59	44	6.4	6.9	7.6	146206835	407	2776	500
3/1/2007	20:00	0	0	0	48	48	0	2774	150	39	86	6.5	6.9	7.7	146220072.5	371	2774	500
3/2/2007	0:00	0	0	0	41	41	64	2683	151	58	88	6.5	6.8	7.7	146233327.1	413	2683	500
3/2/2007	4:00	0	0	0	50	50	67	2776	152	62	89	6.5	6.9	7.7	146246450.9	392	2776	976
3/2/2007	8:00	0	0	0	46	46	64	2693	153	62	49	6.4	6.9	7.6	146259601.9	331	2693	976
3/2/2007	12:00	0	0	0	45	45	66	2693	153	63	49	6.4	6.9	7.6	146272742.4	352	2693	976
3/2/2007	16:00	0	0	0	43	43	69	2606	152	57	47	6.5	6.9	7.6	146285869.9	389	2606	500
3/2/2007	20:00	0	0	0	45	45	69	2693	151	61	48	6.5	6.9	7.7	146299227.1	359	2693	500
3/3/2007	0:00	0	0	0	48	48	65	2610	150	59	47	6.6	6.8	7.8	146312314.7	368	2610	500
3/3/2007	4:00	0	0	0	45	45	68	2767	150	61	47	6.5	6.8	7.7	146325426.3	433	2767	500
3/3/2007	8:00	0	0	0	50	50	65	2771	151	47	47	6.6	6.8	7.7	146338519.8	297	2771	500
3/3/2007	12:00	0	0	0	42	42	0	2889	152	45	48	6.5	6.9	7.7	146351800.8	343	2889	500
3/3/2007	16:00	0	0	0	51	51	69	2886	151	60	47	6.5	6.9	7.7	146364874.2	376	2886	500
3/3/2007	20:00	0	0	0	41	41	64	2769	151	63	47	6.5	6.9	7.8	146378048.1	428	2769	500
3/4/2007	0:00	0	0	0	45	45	64	2776	150	61	47	6.5	6.9	7.7	146391134.8	359	2776	500
3/4/2007	4:00	0	0	0	51	51	64	2683	150	59	47	6.5	6.9	7.7	146404509.9	397	2683	500
3/4/2007	8:00	0	0	0	47	47	66	2774	150	53	46	6.6	6.9	7.8	146417616.9	374	2774	500
3/4/2007	12:00	0	0	0	38	38	64	2776	150	59	46	6.5	6.9	7.7	146430708.2	387	2776	500
3/4/2007	16:00	0	0	0	45	45	0	2932	150	59	47	6.5	6.9	7.7	146443928.9	379	2932	500
3/4/2007	20:00	0	0	0	44	44	65	2730	150	57	46	6.6	6.9	7.8	146457196.3	328	2730	500
3/5/2007	0:00	0	0	0	39	39	65	2926	149	63	46	6.6	6.9	7.8	146470271.7	430	2926	500
3/5/2007	4:00	0	0	0	37	37	66	2932	149	60	46	6.6	6.9	7.8	146483353	373	2932	500
3/5/2007	8:00	0	0	0	38	38	66	2932	149	63	46	6.5	6.9	7.7	146496439.3	427	2932	500
3/5/2007	12:00	0	0	0	28	28	67	2928	150	62	47	6.5	6.9	7.8	146509770.2	429	2928	500
3/5/2007	16:00	0	0	0	44	44	66	2919	150	59	47	6.5	6.9	7.7	146522858.1	425	2919	500
3/5/2007	20:00	0	0	0	32	32	64	2546	149	63	46	6.5	6.9	7.8	146535921.1	429	2546	500
3/6/2007	0:00	0	0	0	40	40	0	2884	148	57	45	6.5	6.9	7.8	146549155.5	399	2884	500
3/6/2007	4:00	0	0	0	47	47	66	2921	147	54	45	6.5	6.8	7.8	146562322.7	481	2921	500
3/6/2007	8:00	0	0	0	50	50	66	3045	147	54	44	6.5	6.8	7.7	146575319.2	486	3045	976
3/6/2007	12:00	0	0	0	44	44	66	2886	147	57	46	6.5	6.8	7.8	146588574.2	340	2886	500
3/6/2007	16:00	0	0	0	47	47	0	2869	148	55	45	6.5	6.8	7.8	146601705.6	382	2869	500
3/6/2007	20:00	0	0	0	50	50	69	2982	147	55	46	6.5	6.8	7.8	146614849.1	394	2982	500
3/7/2007	0:00	0	0	0	49	49	67	3174	147	40	46	6.6	6.8	7.8	146627863.5	458	3174	976
3/7/2007	4:00	0	0	0	41	41	66	2982	147	59	45	6.6	6.8	7.8	146641140.8	465	2982	976
3/7/2007	8:00	0	0	0	47	47	0	2935	147	54	46	6.6	6.8	7.8	146654292.9	428	2935	500
3/7/2007	12:00	0	0	0	47	47	65	2776	148	55	45	6.5	6.8	7.7	146667472.5	383	2776	500
3/7/2007	16:00	0	0	0	48	48	68	2909	148	56	44	6.4	6.8	7.5	146680601.8	439	2909	500
3/7/2007	20:00	0	0	0	51	51	65	2909	148	49	44	6.3	6.8	7.5	146693785	442	2909	500
3/8/2007	0:00	0	0	0	45	45	65	3031	148	42	46	6.6	6.8	7.8	146704332.5	358	3031	500
3/8/2007	4:00	0	0	0	48	48	3	2992	148	54	46	6.6	6.8	7.8	146717589.6	352	2992	500
3/8/2007	8:00	0	0	0	46	46	65	3043	148	47	46	6.6	6.8	7.8	146730677.2	417	3043	500
3/8/2007	12:00	0	0	0	43	43	64	2932	149	60	47	6.6	6.8	7.8	146743733.8	378	2932	500
3/8/2007	16:00	0	0	0	49	49	66	2608	149	52	47	6.6	6.9	7.7	146757041.9	445	2608	500
3/8/2007	20:00	0	0	0	30	30	64	2935	148	53	46	6.6	6.9	7.8	146770101.4	366	2935	500
3/9/2007	0:00	0	0	0	49	49	65	2896	148	51	46	6.6	6.8	7.8	146783147.4	396	2896	500
3/9/2007	4:00	0	0	0	52	52	66	3179	147	53	46	6.6	6.8	7.8	146796494.4	463	3179	500
3/9/2007	8:00	0	0	0	46	46	69	2928	147	52	46	6.6	6.8	7.8	146809548.3	382	2928	500
3/9/2007	12:00	0	0	0	39	39	0	3043	148	52	47	6.6	6.8	7.8	146822665.8	417	3043	500
3/9/2007	16:00	0	0	0	42	42	67	2893	149	55	47	6.6	6.8	7.8	146835885.5	336	2893	500
3/9/2007	20:00	0	0	0	40	40	69	2893	149	53	47	6.6	6.8	7.8	146849952.9	369	2893	500

[illegible]

Appendix D

**Groundwater Treatment System
Sampling Trip Report**

SAMPLING TRIP REPORT

Site Name: STANTON CLEANERS AREA GROUNDWATER CONTAMINATION SITE

CERCLIS ID Number: NYD047650197

Sampling Dates: March 7, 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 March 7, 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
791248202403	1	Total of 4 Aqueous Samples to include 1 duplicate sample, and 1 Trip Blank for TCL-VOAs	3/7/07 @ 5:00 pm 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 LAB Building 209 MS-230 2890 Woodbridge Avenue Edison, N.J. 08837	TCL-VOAs	Aqueous Groundwater	Influent (MW-24 and EPA-EXT-02)	Influent (MW-24 and EPA-EXT-02)
			Effluent	Effluent
			Effluent A	Duplicate of Effluent
			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.

Appendix A

Chain of Custody (March 7, 2007, System Sampling Event)



USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No:
DAS No:

R

Region: 2	Date Shipped: 3/7/2007	Carrier Name: FedEx	Station Location	Sample Collect Date/Time	Inorganic Sample No.	QC Type
Project Code: Account Code: CERCLUS ID: Spill ID: Site Name/State: Project Leader: Action: Sampling Co:	Carrier Name: 791248202403 Shipped to: LAB 2080 Woodbridge Ave. Bldg. 206, MS-230 Edison NJ 08837 (732) 908-0886	USEPA Region 2 - DESA				
NYD047650197						
02LH						
Stanton Area Cleaners Groundwater Contar						
Francisco, Metcalf						
Operations and Maintenance						
EarthTech						

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	QC Type
EFFLUENT	Ground Water/ Russell Kolecek	L/G	VOA (14)	(HCL) (3)	EFFLUENT	S: 3/7/2007 16:35		-
EFFLUENT A	Ground Water/ Russell Kolecek	L/G	VOA (14)	(HCL) (3)	EFFLUENT A	S: 3/7/2007 16:40		Field Duplicate
INFLUENT (MM-24 & EP	Ground Water/ Russell Kolecek	L/G	VOA (14)	(HCL) (3)	INFLUENT (MM-24 & EPA-EXT-02)	S: 3/7/2007 16:30		-
TRIP BLANK	Field QC/ Russell Kolecek	L/G	VOA (14)	(HCL) (2)	TRIP BLANK	S: 3/7/2007 16:45		Trip Blank

Shipment for Case Complete? Y	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Chain of Custody Seal Number:
Analyte Key: VOA = CLP TCL Volatiles	Concentration: L = Low, M = Low/Medium, H = High	Type/Designator: Composite = C, Grab = G	Shipment lost? _____

TR Number: 2-043013577-030707-0001

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

Send Copy to: Sample Management Office, Attn: Heather Bauer, CSC, 15000 Conference Center Dr., Chantilly, VA 20151-3819; Phone 703/818-4200; Fax 703/818-4802

REGION COPY



USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Date Shipped: 3/7/2007		Chain of Custody Record		Sample Signature: <i>Russell Kolaczk</i>		Case No: L	
Carrier Name: FedEx		Relinquished By: <i>Russell Kolaczk</i>		Received By: <i>Russell Kolaczk</i>		For Lab Use Only	
Airbill: 791248202403		Date / Time: 3/7/2007 17:00		Date / Time: (Date / Time)		Lab Contract No:	
Shipped to: USEPA Region 2 - DESA LAB		2				Unit Price:	
2680 Woodbridge Ave.		3				Transfer To:	
Bldg. 200, MS-230		4				Lab Contract No:	
Edison NJ 08837						Unit Price:	
(732) 908-6866							

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNOVER	TAQ No./ PRESERVATIVE Bottle	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
EFFLUENT	Ground Water/ Russell Kolaczk	L/G	VOA (14)	(HCL) (3)	EFFLUENT	3/7/2007 16:35		
EFFLUENT A	Ground Water/ Russell Kolaczk	L/G	VOA (14)	(HCL) (3)	EFFLUENT A	3/7/2007 16:40		
INFLUENT (MW-24 & EP	Ground Water/ Russell Kolaczk	L/G	VOA (14)	(HCL) (3)	INFLUENT (MW-24 & EPA-EXT-02)	3/7/2007 16:30		
TRIP BLANK	Field QC/ Russell Kolaczk	L/G	VOA (14)	(HCL) (2)	TRIP BLANK	3/7/2007 16:45		

Shipment for Case Complete?	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt:	Chain of Custody Seal Number:
Analysis Key: VOA = CLP TCL Volatiles	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? <input type="checkbox"/> Shipment lost? <input type="checkbox"/>

TR Number: 2-043013577-030707-0001
PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Sample Management Office, Attn: Heather Bauer, CSC, 15000 Conference Center Dr., Chantilly, VA 20151-3819; Phone 703/818-4200; Fax 703/818-4602

LABORATORY COPY

Appendix B

**FedEx Air Bill
(March 7, 2007, System Sampling Event)**

Shipping Label

Page 1 of 1

From: Origin ID: GTYA (717)795-8029
 Russell Kolacsek
 EarthTech
 2 Market Plaza Way
 Mechanicsburg, PA 17055



Ship Date: 07MAR07
 Acctg: 10 LB
 System: 7447067/MET2000
 Account: 9 *****
 Dimens: 14 X 8 X 10 IN

Delivery Address Bar Code



Ref # 70536.07.01 Stanton
 Invoice #
 PO #
 Dept #

SHIP TO: (732)806-0886 BILL BENNER
 John Blm
 USEPA Region 2 DESA Lab
 Building 208, MS-230
 2890 Woodbridge Ave
 Edison, NJ 08837



STANDARD OVERNIGHT

THU

TRK# 7912 4820 2403

FORM 5201

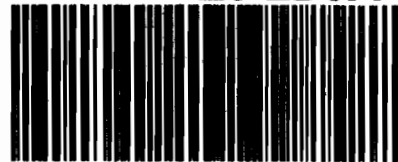
Deliver By:
 08MAR07

EWR

A1

08837 -NJ-US
 DSR

Z3 LDJA



Shipping Label

This shipping label constitutes the air waybill for this shipment.

[View Details](#)

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.
3. Place label in shipping label 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.

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Appendix C

Water Quality Parameters (March 7, 2007, System Sampling Event)

Groundwater Pump and Treatment System Water Quality Parameters Log

[illegible]

Equipment Calibrated by:	Justin Self	Comments:
Water samples collected by:	Russell Kolacek	PLC monitor not working, total flow data missing.
Water monitoring performed by:	Justin Self	

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

Stanton Cleaners Analytical Tracking Table
Influent and Effluent Groundwater Data

Sample Location	ECC ID*	EPA ID	Date Collected	Compounds Detected	Result (µg/L)	Qualifier**	Discharge Criteria
Influent	SC-01	B0001	10/27/2003	MTBE	2	J	
				cis-1,2-Dichloroethene	2	J	
				Trichloroethene (TCE)	3	J	5
				Toluene	3	J	5
				Tetrachloroethene	350	D	5
Effluent	SC-04	B0002	10/27/2003	None			
Trip Blank	SC-TB	B0003	10/27/2003	Acetone	61	J	5
				Methylene chloride	2	J	5
Influent	SC-01	B0177	11/12/2003	Tetrachloroethene (PCE)	240		5
				Chlorodifluoromethane	8.6	NJ	
				1,2-Dichloroethene	3.3	NJ	
Effluent	SC-04	B0178	11/12/2003	Chlorodifluoromethane	22	NJ	
Influent Dup	SC-60	B0179	11/12/2003	Tetrachloroethene	250		5
				Chlorodifluoromethane	29	NJ	
				1,2-Dichloroethene	3.4	NJ	
Trip Blank	SC-TB	B0180	11/12/2003	Tetrachloroethene	9.4		5
				Chlorodifluoromethane	4.3	NJ	
Influent	SC-01	B17J3	12/10/2003	Tetrachloroethene	290	D	5
				cis-1,2-Dichloroethene	2	J	
				Trichloroethene	3	J	
Effluent	SC-04	B17J4	12/10/2003	None			
Influent Dup	SC-61	B17J5	12/10/2003	Tetrachloroethene	280	D	5
				cis-1,2-Dichloroethene	2	J	
				Trichloroethene	3	J	
Trip Blank	SC-TB	B17J6	12/10/2003	MTBE	5	J	
				Toluene	2	J	
				Ethylbenzene	2	J	
Influent	SC-01	B1000	1/12/2004	MTBE	2.7		
				cis-1,2-Dichloroethene	1.5		
				Trichloroethene	2.5		
				Tetrachloroethene	280		5
Effluent	SC-04	B1001	1/12/2004	None			
Influent Dup	SC-62	B1002	1/12/2004	MTBE	2.6		
				cis-1,2-Dichloroethene	1.5		
				Trichloroethene	2.5		
				Tetrachloroethene	300		5
Trip Blank	SC-TB	B1003	1/12/2004	Methylene chloride	0.6	K	
				MTBE	3.7		
				Tetrachloroethene	7.9		5
				m&p-Xylene	0.7		
Influent	SC-01	B17Z0	2/12/2004	cis-1,2-Dichloroethene	1.7		
				Trichloroethene	3.0		
				Tetrachloroethene	610.0	D	5
				Unknown TIC	0.53	J	
Effluent	SC-04	B17Z1	2/12/2004	Acetone	3.8	J	5
Influent Dup	SC-63	B17Z2	2/12/2004	Acetone	25	J	5
				cis-1,2-Dichloroethene	1.7		
				Trichloroethene	2.8		
				Tetrachloroethene	440	D	5
Trip Blank	SC-TB	B17Z3	2/12/2004	Methylene chloride	0.16	J	
				MTBE	4.7		
				Chloroform	0.26	J	
				Tetrachloroethene	7.1		5
				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	

Stanton Cleaners Analytical Tracking Table
Influent and Effluent Groundwater Data

Sample Location	ECC ID*	EPA ID	Date Collected	Compounds Detected	Result (µg/L)	Qualifier**	Discharge Criteria
Influent	SC-01	B17Z6	3/10/2004	MTBE	2.7		
				cis-1,2-Dichloroethene	1.2		
				Trichloroethene	2.3		
				Tetrachloroethene	260		5
Effluent	SC-04	B17Z7	3/10/2004	Tetrachloroethene	0.70		5
Influent Dup	SC-64	B17Z8	3/10/2004	MTBE	2.8		
				cis-1,2-Dichloroethene	1.2		
				Trichloroethene	2.3		
				Tetrachloroethene	260		5
Trip Blank	SC-TB	B17Z9	3/10/2004	Acetone	1.8		5
				Toluene	0.50		
				Isobutane	41	NJ	
Influent	SC-01	B1BS2	4/14/2004	MTBE	1.9		
				cis-1,2-Dichloroethene	0.83		
				Trichloroethene	1.5		
				Tetrachloroethene	380	D	5
Effluent	SC-04	B1BS3	4/14/2004	Tetrachloroethene	1.9		5
Influent Dup	SC-65	B1BS4	4/14/2004	Acetone	1.2	J	5
				MTBE	1.5		
				cis-1,2-Dichloroethene	0.67	J	
				Trichloroethene	1.1		
				Tetrachloroethene	260	D	5
				Methylene chloride	0.17	J	
Trip Blank	SC-TB	B1BS5	4/14/2004	Chloroform	2.8		
				Bromodichloromethane	0.80		
				MTBE	2.1		
Influent	SC-01	B1BS6	5/20/2004	cis-1,2-Dichloroethene	1.0		
				Trichloroethene	1.8		
				Tetrachloroethene	190		5
				Acetone	1.2		5
Influent Dup	SC-66	B1BS8	5/20/2004	Acetone	0		5
				MTBE	2.1		
				cis-1,2-Dichloroethene	0.9		
				Trichloroethene	1.6		
				Tetrachloroethene	200		5
Trip Blank	SC-TB	B1BS9	5/20/2004	Acetone	1		5
				Chloroform	0		
				Bromodichloromethane	0		
Influent	SC-01	B1BS6	6/15/2004	Carbon Disulfide	1.1		
				MTBE	2.7		
				cis-1,2-Dichloroethene	1.3		
				Trichloroethene	2.4		
				Tetrachloroethene	320		5
Effluent	SC-04	B1BS7	6/15/2004	Tetrachloroethene	2.1	7	5
Influent Dup	SC-67	B1BS8	6/15/2004	MTBE	2.3		
				cis-1,2-Dichloroethene	1.2		
				Trichloroethene	2.2		
				Tetrachloroethene	330		5
Trip Blank	SC-TB	B1BS9	6/15/2004	None			

Stanton Cleaners Analytical Tracking Table
Influent and Effluent Groundwater Data

Sample Location	ECC ID*	EPA ID	Date Collected	Compounds Detected	Result (µg/L)	Qualifier**	Discharge Criteria
Influent	SC-01	B1FJ2	7/13/2004	Acetone	0.8		5
				MTBE	2.3		
				cis-1,2-Dichloroethene	1.1		
				Trichloroethene	1.7		
				Tetrachloroethene	170		5
Effluent	SC-04	B1FJ3	7/13/2004	Acetone	0.72		5
				Tetrachloroethene	2		5
				MTBE	2.4		
Influent Dup	SC-67	B1FJ4	7/13/2004	cis-1,2-Dichloroethene	1.1		
				Trichloroethene	1.8		
				Tetrachloroethene	160		5
				Acetone	0.73		5
Trip Blank	SC-TB	B1FJ5	7/13/2004	Acetic Acid, Ethyl Ester	2.5	NJ	
				MTBE	1.9		
Influent	SC-01	B1GH2	8/16/2004	cis-1,2-Dichloroethene	0.7		
				Trichloroethene	1.5		
				Tetrachloroethene	200		5
				Acetone	2		5
				Tetrachloroethene	5.4		5
Effluent	SC-04	B1GH3	8/16/2004	Acetone	1.6		5
				Acetone	1.2		5
Influent Dup	SC-69	B1GH4	8/16/2004	MTBE	2		
				cis-1,2-Dichloroethene	0.7		
				Trichloroethene	1.5		
				Tetrachloroethene	210		5
				Chloromethane	0.80		
Influent	SC-01		9/28/2004	Acetone	1.0		5
				MTBE	1.5		
				cis-1,2-Dichloroethene	0.70		
				Trichloroethene	1.4		
				Tetrachloroethene	200		5
Effluent	SC-04		9/28/2004	Chloromethane	0.80		
				Acetone	2.1		5
				Tetrachloroethene	1.7		5
Influent Dup	SC-70		9/28/2004	Acetone	1.0		5
				MTBE	1.3		
				cis-1,2-Dichloroethene	0.60		
				Trichloroethene	1.4		
				Tetrachloroethene	210		5
Trip Blank	SC-TB		9/28/2004	Acetone	2.2		5
				2-Butanone	1.5		
Influent	SC-01	B1LZ2	10/21/2004	Acetone	5	J	5
				Methylene chloride	0.2	J	
				MTBE	0.82		
				cis-1,2-Dichloroethene	0.5		
				Trichloroethene	1.2		
				Tetrachloroethene	220		5
Effluent	SC-04	B1LZ3	10/21/2004	Acetone	5	J	5
				Methylene chloride	0.5	UJ	
				Tetrachloroethene	0.2	J	5
				Acetone	5	J	5
Influent Dup	SC-71	B1LZ4	10/21/2004	Methylene chloride	1.1		
				MTBE	1.1		
				cis-1,2-Dichloroethene	0.64		
				Trichloroethene	1.1		
				Tetrachloroethene	210	D	5
Trip Blank	SC-TB	B1LZ5	10/21/2004	Acetone	5.7		5
				Methylene chloride	0.68		
				Toluene	0.39	J	

Stanton Cleaners Analytical Tracking Table
Influent and Effluent Groundwater Data

Sample Location	ECC ID*	EPA ID	Date Collected	Compounds Detected	Result (µg/L)	Qualifier**	Discharge Criteria
Influent	SC-01	B1T22	11/17/2004	Acetone	3	J	5
				Methylene chloride	1.3	U	
				MTBE	1.3		
				cis-1,2-Dichloroethene	0.64		
				Trichloroethene	1.2		
				Tetrachloroethene	170	D	5
Effluent	SC-04	B1T23	11/17/2004	Methyl Acetate	0.5	UJ	
				Methylene chloride	0.5	U	
Influent Dup	SC-72	B1T24	11/17/2004	Methylene chloride	0.85	U	
				MTBE	1.3		
				cis-1,2-Dichloroethene	0.5		
				Trichloroethene	0.83		
				Tetrachloroethene	160	D	5
Trip Blank	SC-TB	B1T25	11/17/2004	Acetone	3	J	5
				Methyl Acetate	0.5	UJ	
				Methylene chloride	0.46	J	
				2-Butanone	2.4	J	
				Tetrachloroethene	9.6		5
				1,2,3-Trichlorobenzene	0.5	UJ	5
Influent	SC-01	B1T79	12/15/2004	MTBE	1.6		
				cis-1,2-Dichloroethene	0.45	J	
				Trichloroethene (TCE)	1.0	J	5
				Tetrachloroethene	100	D	5
				Methylcyclohexane	1	UJ	
				Bromomethane	1	UJ	
				Bromodichloromethane	1	UJ	
				Chloromethane	1	UJ	
				1,2-Dichloroethene	1	UJ	
				1,2-Dichloropropane	1	UJ	
				2-Hexanone	10	R	
Effluent	SC-04	B1T81	12/15/2004	4-Methyl-2-pentanone	10	R	
				Benzene	0.5	U	
				1,2,4-Trichlorobenzene	0.5	U	
				1,2,3-Trichlorobenzene	0.5	U	5
Influent Dup	SC-73	B1T80	12/15/2004	Methyl tert-Butyl Ether	1.6		
				cis-1,2-Dichloroethene	0.48	J	
				Trichloroethene	0.98	J	
				4-Methyl-2-pentanone	10	R	
				Tetrachloroethene	98	D	5
				2-Hexanone	10	R	
Trip Blank	SC-TB	B1T82	12/15/2004	Chloroform	0.1	J	
				Cyclohexane	0.15	J	
				Benzene	0.5	U	
				Toluene	0.21	J	

Stanton Cleaners Analytical Tracking Table
Influent and Effluent Groundwater Data

Sample Location	ECC ID*	EPA ID	Date Collected	Compounds Detected	Result (µg/L)	Qualifier**	Discharge Criteria
Influent	SC-01	B1W00	1/21/2005	MTBE	1.5		
				cis-1,2-Dichloroethene	0.7		
				Trichloroethene (TCE)	1.4		5
				Tetrachloroethene	160		5
Effluent	SC-04	B1W02	1/21/2005	Acetone	1.8		5
Influent Dup	SC-74	B1W01	1/21/2005	Methyl tert-Butyl Ether	1.4		
				cis-1,2-Dichloroethene	0.7		
				Trichloroethene	1.4		
				Tetrachloroethene	150		5
Trip Blank	SC-TB	B1W03	1/21/2005	Acetone	10		5
				Acetone	3.5		5
				MTBE	1.4		
				cis-1,2-Dichloroethene	0.5		
Influent	SC-01	AG00197	2/3/2005	Trichloroethene (TCE)	1.1		5
Effluent	SC-04	AG00198	2/3/2005	Tetrachloroethene	140		5
				Acetone	1.2		5
				Methyl tert-Butyl Ether	1.5		
				cis-1,2-Dichloroethene	0.54		
Influent Dup	SC-75	AG00199	2/3/2005	Trichloroethene	1.1		
				Tetrachloroethene	140		5
				Acetone	1.1		5
				Acetone	4.3		5
Trip Blank	SC-TB	AG00200	2/3/2005	4-Methyl-2-pentanone	1.2		
				MTBE	1.4		
				Acetone	2.5		5
				Trichloroethene (TCE)	1.1		5
Influent	SC-01	AG00468	3/9/2005	Tetrachloroethene	130		5
				Acetone	1.8		5
				MTBE	1.4		
				Acetone	1.2		5
Effluent	SC-04	AG00469	3/9/2005	Trichloroethene	1.1		
				Tetrachloroethene	130		5
				Acetone	1.7		5
				Chloroform	1.6		
Influent Dup	SC-76	AG00470	3/9/2005	MTBE	1.7		
				2-Butanone	2.2		
				Acetone	2.4		5
				Trichloroethene (TCE)	1.1		5
Trip Blank	SC-TB	AG00471	3/9/2005	Tetrachloroethene	65		5
				2-Butanone	2.5		
				Acetone	5.1		5
				Trichloroethene (TCE)	1.3		5
Influent (EPA-EXT-02)	SC-01	AG00825	4/22/2005	Tetrachloroethene	9.5		5
				None			
				2-Butanone	2.8		
				Acetone	4.9		5
Influent (EPA-EXT-4R)	SC-02	AG00826	4/22/2005	Trichloroethene	1.3		
				Tetrachloroethene	9		5
				Acetone	4.9		5
				Trichloroethene	1.3		
Effluent	SC-04	AG00827	4/22/2005	Tetrachloroethene	9		5
				Acetone	4.9		5
				Trichloroethene	1.3		
				Tetrachloroethene	9		5
Influent Dup (EPA-EXT-02) (EPA-EXT-4R)	SC-77	AG00828	4/22/2005	Acetone	4.9		5
				Trichloroethene	1.3		
				Tetrachloroethene	9		5
				Acetone	4.9		5

Stanton Cleaners Analytical Tracking Table
Influent and Effluent Groundwater Data

Sample Location	ECC ID*	EPA ID	Date Collected	Compounds Detected	Result (µg/L)	Qualifier**	Discharge Criteria
Trip Blank	SC-TB	AG00829	4/22/2005	Acetone	1		5
				Chloroform	1.7		
				Trichloroethene (TCE)	0.84		5
Influent (EPA-EXT-02)	SC-01	AG01320	5/24/2005	MTBE	1.1		
				Trichloroethene (TCE)	1.0		5
				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
Trip Blank	SC-TB	AG01324	5/24/2005	Acetone	1.3		5
				Chloroform	13		
				Bromodichloromethane	2.5		
Influent (EPA-EXT-02)	SC-01	AG02074	6/22/2005	MTBE	0.98		
				Trichloroethene (TCE)	0.8		5
				Tetrachloroethene	95		5
				Acetone	2.7	K	5
				Ethyl Acetate	10	NJ	
Influent (EPA-EXT-4R)	SC-02	AG02075	6/22/2005	Tetrachloroethene	9.1		5
				Acetone	1.9	K	5
				Ethyl Acetate	3.6	NJ	
				Propane, 2-Isothiocyano-2	0.8	NJ	
Influent		AG02076	6/22/2005	MTBE	0.64		
				Tetrachloroethene	50		5
				Acetone	2	K	5
				Trichloroethene (TCE)	0.56		5
				Ethyl Acetate	8.8	NJ	
Effluent	SC-04	AG02072	6/22/2005	Acetone	2.6	K	5
				Ethyl Acetate	6.2	NJ	
EffluentDup	SC-04	AG02073	6/22/2005	Acetone	2.6	K	5
				Ethyl Acetate	3.3	NJ	
Trip Blank	SC-TB	AG02077	6/22/2005	Acetone	2.4	K	5
				Chloroform	13		
				Bromodichloromethane	2.7		
				Ethyl Acetate	3.1	NJ	
Influent (EPA-EXT-02)	SC-01	AG02780	7/12/2005	MTBE	0.9		
				Trichloroethene (TCE)	0.8		5
				Tetrachloroethene	85		5
				Acetone	1	K	5
Influent (EPA-EXT-4R)	SC-02	AG02781	7/12/2005	Tetrachloroethene	7.4		
				Acetone	2.1	K	5
				Ethyl Acetate	4.1	NJ	
				Propane, 2-Isothiocyano-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	
EffluentDup	SC-04	AG02779	7/12/2005	Acetone	1.9	K	5
				Ethyl Acetate	5.2	NJ	
Trip Blank	SC-TB		7/12/2005	Acetone	1.5	K	5
				Chloroform	12		
				Bromodichloromethane	2.6		

Stanton Cleaners Analytical Tracking Table
Influent and Effluent Groundwater Data

Sample Location	ECC ID*	EPA ID	Date Collected	Compounds Detected	Result (µg/L)	Qualifier**	Discharge Criteria
Influent (EPA-EXT-02)	SC-01	AG03721	8/15/2005	MTBE	0.68		
				Trichloroethene (TCE)	0.73		5
				Tetrachloroethene	88		5
Influent (EPA-EXT-4R)	SC-02	AG03722	8/15/2005	Tetrachloroethene	9.7		5
				Propane, 2-Isothiocyanato-2	0.53	NJ	
Influent		AG03723	8/15/2005	Tetrachloroethene	43		5
Effluent	SC-04	AG03725	8/15/2005	Acetone	ND (5.0)		5
EffluentDup	SC-04	AG03720	8/15/2005	Acetone	ND (5.0)		5
Trip Blank	SC-TB	AG03724	8/15/2005	Chloroform	13		
				Bromodichloromethane	2.6		
Influent (EPA-EXT-02)	SC-01	AG04086	9/8/2005	MTBE	0.76		
				Trichloroethene (TCE)	0.74		5
				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		
				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		
				Bromodichloromethane	2.2		
Influent (EPA-EXT-02)	SC-01	AG07649	10/5/2005	MTBE	0.82		
				Trichloroethene (TCE)	0.78		5
				Tetrachloroethene	100		5
Influent (EPA-EXT-4R)	SC-02	AG07650	10/5/2005	Tetrachloroethene	9.3		5
Influent		AG07651	10/5/2005	MTBE	0.6		
				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		
Influent (EPA-EXT-02)	SC-01	AG08530	11/14/2005	Acetone	1.4	K	
				MTBE	0.92		
				Trichloroethene (TCE)	0.81		5
Influent (EPA-EXT-4R)	SC-02	AG08531	11/14/2005	Tetrachloroethene	95		5
				Acetone	1.0	K	5
				Tetrachloroethene	10		5
Influent		AG08532	11/14/2005	MTBE	0.9		
				Acetone	1.4	K	5
				Trichloroethene (TCE)	0.74		5
Effluent	SC-04	AG08528	11/14/2005	Tetrachloroethene	91		5
EffluentDup	SC-04	AG08529	11/14/2005	Acetone	ND		5
Trip Blank	SC-TB	AG08533	11/14/2005	Acetone	2.0	K	5

**Stanton Cleaners Analytical Tracking Table
Influent and Effluent Groundwater Data**

Sample Location	ECC ID*	EPA ID	Date Collected	Compounds Detected	Result (µg/L)	Qualifier**	Discharge Criteria
Influent (EPA-EXT-02)	SC-01	AG08953	12/6/2005	Acetone	4.1		
				MTBE	0.85		
				Trichloroethene (TCE)	0.67		5
				Tetrachloroethene	90		5
Influent (EPA-EXT-4R)	SC-02	AG08954	12/6/2005	1-Butanol	0.63	NJ	
				Acetone	1.4	K	5
				Tetrachloroethene	9.5		5
Influent		AG08955	12/6/2005	MTBE	0.9		
				Acetone	1.4	K	5
				Trichloroethene (TCE)	0.77		5
				Tetrachloroethene	89		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
Influent (EPA-EXT-02)	SC-01	AH00216	1/10/2006	Acetone	ND		5
				MTBE	0.98		
				Trichloroethene (TCE)	0.79		5
				Tetrachloroethene	93		5
Influent (EPA-EXT-4R)	SC-02	AH00217	1/10/2006	Acetone	ND (1.0)		5
				Tetrachloroethene	8.2		5
				MTBE	0.94		
Influent		AH00218	1/10/2006	Acetone	ND (1.0)		5
				Trichloroethene (TCE)	0.85		5
				Tetrachloroethene	90		5
				Acetone	ND (1.0)		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
Influent	SC-01	AH01177	2/15/2006	MTBE	1.2		
				Trichloroethene (TCE)	0.72		5
				Tetrachloroethene	80		5
MW-19		AH01178	2/15/2006	Acetone	1.2		5
				Trichloroethene (TCE)	1.2		5
				Tetrachloroethene	85		5
MW-21		AH01179	2/15/2006	Trichloroethene (TCE)	2.6		5
Effluent		AH01175	2/15/2006	Tetrachloroethene	27		5
Effluent Duplicate		AH01176	2/15/2006	None			
Trip Blank	SC-TB	AH00219	2/15/2006	Chloroform	10		
				Bromodichloromethane	2.3		
Influent	SC-01	AH01256	3/8/2006	MTBE	1.4		
				Trichloroethene (TCE)	0.71		5
				Tetrachloroethene	83		5
				Acetone	2		5
Effluent	SC-04	AH01254	3/8/2006	Acetone	2		5
Effluent Duplicate	SC-04	AH01255	3/8/2006	Acetone	2.4		5
				Acetone	2		5
Trip Blank	SC-TB	AH01257	3/8/2006	Acetone	2		5
				Bromodichloromethane	5		
				Chloroform	14		
Influent	SC-01	AH01641	4/5/2006	MTBE	1.5		
				TRICHLOROETHENE	0.57		
				TETRACHLOROETHENE	68		5
				ACETONE	1.7		5
				ETHYL ACETATE	1.5	NJ	5
Effluent	SC-04	AH01639	4/5/2006	ACETONE	1.7		5
Effluent A	SC-04	AH01640	4/5/2006	EHYL ACETATE	1.7	NJ	5
			4/5/2006	ACETONE	4.6		5
Effluent A	SC-04	AH01640	4/5/2006	EHYL ACETATE	5.3	NJ	5
			4/5/2006	ACETONE	1.7		5
Trip Blank	SC-TB	AH01642	4/5/2006	ACETONE	1.7		5

Stanton Cleaners Analytical Tracking Table
Influent and Effluent Groundwater Data

Sample Location	ECC ID*	EPA ID	Date Collected	Compounds Detected	Result (µg/L)	Qualifier**	Discharge Criteria
Influent (MW-24 & EPA-EXT-02)	SC-01	AH02078	5/3/2006	ACETONE	2.3		5
				MTBE	1.7		
				TRICHLOROETHENE	0.72		
				TETRACHLOROETHENE	80		5
Effluent	SC-04	AH02076	5/3/2006	CHLOROMETHANE	0.51		
				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
Influent	SC-01	AH02645	6/8/2006	ACETONE	1.8	K	5
				MTBE	1.6		
				TRICHLOROETHENE	70		
				EHYL ACETATE	0.7	NJ	5
Effluent	SC-04	AH02643	6/8/2006	ACETONE	1.2	K	5
Effluent-A	SC-04	AH02644	6/8/2006	ACETONE	1.5	K	
			6/8/2006	ETHYL ACETATE	1	NJ	5
Trip Blank	SC-TB	AH02646	6/8/2006		ND		
Influent (MW-24 & EPA-EXT-02)	SC-01	AH03367	7/12/2006	ACETONE	1.8		5
				MTBE	1.6		
				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		
Influent (MW-24 & EPA-EXT-02)	SC-01	AH04373	8/9/2006	ACETONE	1.3	J	5
				MTBE	1.6		
				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 & EPA-EXT-02)	SC-01	AH05500	9/6/2006	MTBE	1.7		
				TRICHLOROETHENE	0.68		
				TETRACHLOROETHENE	69		5
					ND		
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 (MW-24 & EPA-EXT-02)	SC-01	AH05962	10/4/2006	MTBE	1		
				TRICHLOROETHENE	0.54		
				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 & EPA-EXT-02)	SC-01	AH06624	11/8/2006	MTBE	1.4		
				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 & EPA-EXT-02)	SC-01	AH07022	12/14/2006	MTBE	1.4	J	
				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 & EPA-EXT-02)	SC-01	AJ00067	1/11/2007	MTBE	1.1	K	
				TETRACHLOROETHENE	51		5
Effluent	SC-04	AJ00065	1/11/2007	None			
Effluent A	SC-04	AJ00066	1/11/2007	None			
Trip Blank	SC-TB	AJ00068	1/11/2007	METHYLENE CHLORIDE	1.3		5
Influent (MW-24 & EPA-EXT-02)	SC-01	AJ00524	2/20/2007	MTBE	0.59		
				TETRACHLOROETHENE	54		5
Effluent	SC-04	AJ00522	2/20/2007	None			
Effluent A	SC-04	AJ00523	2/20/2007	None			5
Trip Blank	SC-TB	AJ00525	2/20/2007	METHYLENE CHLORIDE	0.81	K	5

**Stanton Cleaners Analytical Tracking Table
Influent and Effluent Groundwater Data**

Sample Location	ECC ID*	EPA ID	Date Collected	Compounds Detected	Result (µg/L)	Qualifier**	Discharge Criteria
Influent (MW-24 & EPA-EXT-02)	SC-01	AJ01186	3/7/2007	MTBE	1		
				TETRACHLOROETHENE	57		5
Effluent	SC-04	AJ01184	3/7/2007	None			
Effluent A	SC-04	AJ01185	3/7/2007	None			
Trip Blank	SC-TB	AJ01187	3/7/2007	None			

Notes:

* 10 µg/L from ECC ID SC-04 were used as the matrix spike matrix spike duplicate sample.

** Region II. ECC carried over assigned qualifiers and did not perform a separate review or validation of the data.

(D) from a dilution of the sample

J qualified as estimated

NJ presence of the material at an estimated value

K ad value may be biased high

µg/L micrograms per liter

MTBE 1,1,1-trimethyl-2-methyl ethyl ether

TIC rely 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

3/7/2007
Project # 70536

	Pipe ID	MultiRAE Plus PGM-50					VelociCalc Plus				
		VOC	CO	Oxygen	LEL	H2S	Temp.	Vac. Pre.	%RH	Dew pt.	Flow
SVE-Influent	5.709	0.0	0	20.9%	0%	0%	87.3	+	24.3%	46.4	61
Post Air Stripper	11.294	0.1	0	20.9%	0%	0%	56.9	+	100.0%	56.9	122
SVE-Effluent ¹	5.706	0.0	0	20.5%	0%	0%	29.7	+	81.4%	18.3	43
GW Post Vapor Effluent ²	11.294	0.0	0	20.9%	0%	0%	56.2	+	98.5%	55.2	115
EPA-SVE-1 (shallow)	1.913	0.0	0	20.9%	0%	0%	28.5	0.00	87.6%	25.8	0.0
EPA-SVE-1 (medium)	1.913	0.0	0	20.9%	0%	0%	32.8	0.00	84.8%	28.3	0.00
EPA-SVE-2 (shallow)	1.913	0.0	0	20.9%	0%	0%	28.4	0.00	79.4%	23.1	0.000
EPA-SVE-2 (medium)	1.913	0.0	0	20.9%	0%	0%	28.2	0.00	78.8%	23.3	0.000
SS-A	1.913	0.0	0	20.9%	0%	0%	41.7	5.50	33.8%	16.1	72.5
EPA-SVE-04R/SS-B(A)	1.913	0.0	0	20.9%	0%	0%	30.7	3.60	63.2%	20.8	32.60
SS-B-C	1.913	0.0	0.0	20.9	0.0	0.0	27.1	5.00	62.2	17.8	5.5
SS-C	1.913	0.0	0	20.9%	0%	0%	29.4	5.20	94.3%	28.1	101.0
L1	1.913	0.0	0	20.9%	0%	0%	30.5	6.40	89.0%	18.8	167.0
L2	1.913	Not Measured - Offline									
SS-B(B)	1.913	0.0	0	20.9%	0%	0%	27.8	3.50	61.5%	19.5	31.5
SS Vent-LIHA	3.786	0.0	0	20.9%	0%	0%	29.6	1.80	61.5%	19.9	16.6
Vapor Point-1/Slope 1		0	0	20.90%	0	0	NM	NM	NM	NM	NM
SVE-3A	1.913			Ports frozen							
SVE-3B	1.913			Ports frozen							
Background		0.0	0	20.9%	0%	0%	22.7	0.0	62.0%	12.7	0

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

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

Comments:
NM=Not Measured

¹Formerly Post SVE Carbon
²Formerly Post Air Stripper Carbon
³Formerly Sub-Slab A,B, and C
⁴Formerly Sub-Slab D
⁵Formerly Sub-Slab B
NA- Not Available

SVE 1
SVE 2
SVE 3
SVE 4
EPA-SVE-04R/SSB(A)
SS-A
SS-B(B)
SS-B(C)
L1

Prior to 10/3/05

shallow on
shallow on
shallow on
off
on
on
on
on
on

As of 03/07/07

shallow and medium on
not measurable
A & B on
off
on
on
on
on
on

L2

on

off

Comments:

L2 is offline

Points SVE-3A AND SVE-3B has frozen ports and were unable to break loose. Monitoring not taken for those points. Repaired previously broken section of SVE pipe near SS-B(B) AND SS-B(A)

**STANTON CLEANERS AREA GROUNDWATER
CONTAMINATION SITE
Soil-Vapor Extraction and Pump and Treat System
Bi-Weekly Air Monitoring Log**

3/21/2007
Project # 70536

	Pipe ID	MultiRAE Plus PGM-50					VelociCalc Plus				
		VOC	CO	Oxygen	LEL	H2S	Temp.	Vac. Pre.	%RH	Dew pt.	Flow
SVE-Influent	5.709	0.0	0	20.3%	0%	0%	71.1	+	100.0%	71.0	61
Post Air Stripper	11.294	0.0	0	20.9%	0%	0%	60.5	+	89.8%	57.0	71.5
SVE-Effluent ¹	5.706	0.0	0	20.4%	0%	0%	57.5	+	95.6%	29.5	39
GW Post Vapor Effluent ²	11.294	0.0	0	20.5%	0%	0%	73.0	+	57.9%	56.0	74.5
EPA-SVE-1 (shallow)	1.913	0.0	0	20.9%	0%	0%	42.3		68.8%	32.6	0.1
EPA-SVE-1 (medium)	1.913	0.0	0	20.9%	0%	0%	44.5		72.4%	35.6	0.05
EPA-SVE-2 (shallow)	1.913	0.0	0	20.1%	0%	0%	39.4		66.4%	29.1	28.300
EPA-SVE-2 (medium)	1.913	0.0	0	20.5%	0%	0%	47.6		95.4%	47.5	40.300
SS-A	1.913			buried under ice							
EPA-SVE-04R/SS-B(A)	1.913	0.0	0	20.9%	0%	0%	39.5		68.1%	30.4	4.46
SS-B-C	1.913	0.0	0.0	20.9	0.0	0.0	39.7		67.5	30.2	2.0
SS-C	1.913	0.0	0	20.9%	0%	0%	42.3		58.7%	29.8	75.5
L1	1.913	0.0	0	20.9%	0%	0%	37.6		91.9%	34.6	188.0
L2	1.913	Not Measured - Offline									
SS-B(B)	1.913	0.0	0	20.9%	0%	0%	41.3		62.2%	29.8	37.5
SS Vent-LIHA	3.786	0.0	0	20.9%	0%	0%	44.6		68.6%	36.1	13.2
Vapor Point-1/Slope 1		0	0	20.90%	0	0	NM	NM	NM	NM	NM
SVE-3A	1.913	0.0	0	20.9%	0%	0%	54.8		22.1	18	2.21
SVE-3B	1.913	0.0	0	20.9%	0%	0%	49.4		100.0	48.9	186.0
Background		0.0	0	20.9%	0%	0%	37.6		46.0%	19.4	0

Equipment calibrated by: Russell Kolacek, John McTernan
Air readings collected by: Russell Kolacek, John McTernan

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

Comments: Vac gauge not working. Variable vacuum box unavailable for measurement.
NM=Not Measured

¹Formerly Post SVE Carbon
²Formerly Post Air Stripper Carbon
³Formerly Sub-Slab A,B, and C
⁴Formerly Sub-Slab D
⁵Formerly Sub-Slab B
NA- Not Available

SVE 1
SVE 2
SVE 3
SVE 4
EPA-SVE-04R/SSB(A)
SS-A
SS-B(B)
SS-B(C)
L1
L2

Prior to 10/3/05

shallow on
shallow on
shallow on
off
on
on
on
on
on
on

As of 03/21/07

shallow and medium on
not measurable
A & B on
off
on
on
on
on
on
off

Comments:
L2 is offline

SS-A was buried under a mound of snow and ice that had slid from the roof of the adjacent building. The site vacuum gauge is broken and our office's vacuum box was unavailable for use.

Appendix G

**Semi-Annual Groundwater Sampling Trip Report
(submitted under separate cover)**

Appendix H

Historical Groundwater Level Monitoring Results (Ongoing)

WATER LEVEL DATA SUMMARY

<p>PROJECT: Stanton Cleaners</p> <p>LOCATION: Great Neck, NY</p> <p>CLIENT: USACE / USEPA</p> <p>SURVEY DATUM: ft msl</p> <p>MEASURING DEVICE: Solinst Water Level Indicator S/N# 34407</p>	<p>JOB NUMBER: 70536</p> <p>DATE: 3/7/2007</p> <p>MEASURED BY: R. Kolacek J. Self</p>
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WELL NUMBER	MEASURING POINT		DEPTH TO WATER (FT)	ELEVATION OF WATER (FT)	COMMENTS
	Description	Elevation (FT)			
EPA-MW-11D	ft BTOC	74.63	58.01	16.62	no bolts
EPA-MW-21	ft BTOC	84.13		84.13	no bolts, buried beneath snow mound
EPA-MW-22	ft BTOC	82.20	62.89	19.31	
EPA-MW-23	ft BTOC	82.83	63.42	19.41	
EPA-MW-27	ft BTOC	69.32	50.58	18.74	no bolts
ST-MW-02	ft BTOC	82.03	62.79	19.24	top of PVC
ST-MW-06	ft BTOC	69.83	45.05	24.78	top of PVC
ST-MW-09	ft BTOC	78.13	62.36	15.77	
ST-MW-11	ft BTOC	75.25	58.58	16.67	no bolts
ST-MW-12	ft BTOC	87.20	70.02	17.18	missing 1 bolt
ST-MW-14	ft BTOC	69.73	54.39	15.34	no bolts
ST-MW-16	ft BTOC	75.78	54.17	21.61	no bolts
ST-MW-17	ft BTOC	86.53	69.49	17.04	no bolts
ST-MW-19	ft BTOC	82.50	65.42	17.08	no bolts
ST-MW-20	ft BTOC	84.53	70.63	13.90	no bolts

Notes:

EPA-MW-21 was buried beneath a mound of snow and ice that had been plowed and pushed on top of it.

During water level measurements, WAGNN Well # 9 was pumping at 1000 GPM, and well #12 was pumping at 1250 GPM.

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

Well ID	Top of PVC Elevation (ft msl)	10/29/2003		10/31/2003		11/22/03 - 11/23/03	
		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

Well ID	Top of PVC Elevation (ft msl)	12/17/03 - 12/18/03		1/12/2004		2/26/2004	
		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

Well ID	Top of PVC Elevation (ft msl)	3/29/2004		4/5/2004		5/19/2004	
		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	60.36	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

Well ID	Top of PVC Elevation (ft msl)	6/14/2004		7/21/04 - 7/22/04		8/2/2004	
		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

Well ID	Top of PVC Elevation (ft msl)	9/28/04 - 9/29/04		10/12/04 -10/13/04		11/3/2004	
		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

Well ID	Top of PVC Elevation (ft msl)	12/8/2004		1/3/2005		2/7/2005	
		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	84.13	66.61	17.52	65.67	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

Well ID	Top of PVC Elevation (ft msl)	3/22/2005		4/11/2005		5/19/2005	
		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

Well ID	Top of PVC Elevation (ft msl)	6/15/2005		7/7/2005		8/4/2005	
		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	58.51	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

Well ID	Top of PVC Elevation (ft msl)	8/30/2005		10/11/2005		11/6/2005	
		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

Well ID	Top of PVC Elevation (ft msl)	12/19/2005		1/24/2006		2/22/2006	
		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

Well ID	Top of PVC Elevation (ft msl)	4/11/2006		5/2/2006	
		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
EPA-MW-22	82.20	63.89	18.31	63.59	18.61
EPA-MW-23	82.83	64.44	18.39	68.99	13.84
EPA-MW-27	69.32	51.72	17.60	51.28	18.04
ST-MW-02	82.03	--	--	--	--
ST-MW-06	69.83	46.54	23.29	44.58	25.25
ST-MW-09	78.13	63.96	14.17	63.50	14.63
ST-MW-11	75.25	--	--	--	--
ST-MW-12	87.20	71.35	15.85	73.87	13.33
ST-MW-14	69.73	56.10	13.63	55.71	14.02
ST-MW-16	75.78	54.58	21.20	54.63	21.15
ST-MW-17	86.53	70.76	15.77	70.35	16.18
ST-MW-19	82.50	67.13	15.37	66.69	15.81
ST-MW-20	84.53	72.13	12.40	71.80	12.73

Well ID	Top of PVC Elevation (ft msl)	5/22/2006	
		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

Notes:

ft msl - feet mean sea level

ft BTOC - feet below top of casing

-- - Not measured

Well ID	Top of PVC Elevation (ft msl)	6/22/06		7/20/2006		8/31/2006	
		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
EPA-MW-21	84.13	65.44	18.69	65.57	18.56	65.42	18.71
EPA-MW-22	82.20	63.10	19.10	63.23	18.97	63.13	19.07
EPA-MW-23	82.83	63.70	19.13	63.77	19.06	63.64	19.19
EPA-MW-27	69.32	51.78	17.54	51.00	18.32	50.80	18.52
ST-MW-02	82.03	--	--	64.11	17.92	--	--
ST-MW-06	69.83	43.81	26.02	43.43	26.40	43.61	26.22
ST-MW-09	78.13	62.92	15.21	63.18	14.95	62.92	15.21
ST-MW-11	75.25	--	--	--	--	--	--
ST-MW-12	87.20	70.24	16.96	70.56	16.64	70.21	16.99
ST-MW-14	69.73	54.38	15.35	55.57	14.16	54.82	14.91
ST-MW-16	75.78	53.85	21.93	53.54	22.24	53.75	22.03
ST-MW-17	86.53	69.74	16.79	70.05	16.48	69.71	16.82
ST-MW-19	82.50	65.70	16.80	64.97	17.53	65.69	16.81
ST-MW-20	84.53	73.45	11.08	71.54	12.99	70.86	13.67

Well ID	Top of PVC Elevation (ft msl)	9/27/2006		10/25/2006		12/13/2006	
		DTW (ft BTOC)	Elevation (ft msl)	DTW (ft BTOC)	Elevation (ft msl)	DTW (ft BTOC)	Elevation (ft msl)
EPA-MW-11D	74.63	58.17	16.46	58.92	15.71	57.92	16.71
EPA-MW-21	84.13	65.43	18.70	65.80	18.33	65.33	18.80
EPA-MW-22	82.20	63.11	19.09	63.48	18.72	63.04	19.16
EPA-MW-23	82.83	63.68	19.15	64.04	18.79	63.53	19.30
EPA-MW-27	69.32	50.81	18.51	51.29	18.03	50.65	18.67
ST-MW-02	82.03	--	--	--	--	62.98	19.05
ST-MW-06	69.83	45.00	24.83	45.18	24.65	45.27	24.56
ST-MW-09	78.13	63.97	14.16	63.45	14.68	62.75	15.38
ST-MW-11	75.25	--	--	--	--	--	--
ST-MW-12	87.20	70.42	16.78	70.87	16.33	70.24	16.96
ST-MW-14	69.73	54.69	15.04	56.69	13.04	53.95	15.78
ST-MW-16	75.78	54.57	21.21	54.90	20.88	53.84	21.94
ST-MW-17	86.53	69.85	16.68	70.35	16.18	69.64	16.89
ST-MW-19	82.50	65.79	16.71	66.22	16.28	65.59	16.91
ST-MW-20	84.53	73.83	10.70	71.71	12.82	70.05	14.48

Notes:

ft msl - feet mean sea level

ft BTOC - feet below top of casing

-- - Not measured

Well ID	Top of PVC Elevation (ft msl)	1/10/2007		2/7/2007		3/7/2007	
		DTW (ft BTOC)	Elevation (ft msl)	DTW (ft BTOC)	Elevation (ft msl)	DTW (ft BTOC)	Elevation (ft msl)
EPA-MW-11D	74.63	--	--	58.29	16.34	58.01	16.62
EPA-MW-21	84.13	65.84	18.29	65.35	18.78		84.13
EPA-MW-22	82.2	63.51	18.69	63.11	19.09	62.89	19.31
EPA-MW-23	82.83	64.09	18.74	63.63	19.2	63.42	19.41
EPA-MW-27	69.32	51.38	17.94	50.7	18.62	50.58	18.74
ST-MW-02	82.03	63.39	18.64	62.94	19.09	62.79	19.24
ST-MW-06	69.83	44.85	24.98	46.28	23.55	45.05	24.78
ST-MW-09	78.13	63.54	14.59	62.59	15.54	62.36	15.77
ST-MW-11	75.25	--	--	58.95	16.3	58.58	16.67
ST-MW-12	87.2	70.89	16.31	70.3	16.9	70.02	17.18
ST-MW-14	69.73	55.64	14.09	55.2	14.53	54.39	15.34
ST-MW-16	75.78	54.1	21.68	54.14	21.64	54.17	21.61
ST-MW-17	86.53	70.37	16.16	67.7	18.83	69.49	17.04
ST-MW-19	82.5	66.26	16.24	64.7	17.8	65.42	17.08
ST-MW-20	84.53	71.63	12.9	71.17	13.36	70.63	13.90

Notes:

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

Appendix I

**Indoor Air Quality Sampling Trip Report
(submitted under separate cover)**

Appendix J

Action List Dated March 2007



A **tyco** International Ltd. Company

MARCH 2007 ACTION LIST SUMMARY

PROJECT: Stanton Cleaners
LOCATION: Great Neck, NY
CLIENT: USACE / USEPA

JOB NUMBER: 70536
DATE: May 5, 2007

COMPLETED ITEMS

DATE PERFORMED

<ul style="list-style-type: none">• Bi-weekly O&M Inspection/System Monitoring (installed new breaker and electric wiring for heat trace on outside influent pipe)	<ul style="list-style-type: none">• March 7
<ul style="list-style-type: none">• Bi-weekly air monitoring	<ul style="list-style-type: none">• March 7
<ul style="list-style-type: none">• Monthly Treatment System sampling	<ul style="list-style-type: none">• March 7
<ul style="list-style-type: none">• Monthly groundwater monitoring well network water level measurement	<ul style="list-style-type: none">• March 7
<ul style="list-style-type: none">• Bi-weekly O&M Inspection/System Monitoring (GWT System was down due to wet floor alarm, restarted GWT System)	<ul style="list-style-type: none">• March 21
<ul style="list-style-type: none">• Bi-weekly air monitoring	<ul style="list-style-type: none">• March 21
<ul style="list-style-type: none">• System maintenance (wet floor alarm had shut down the system due to leaking aqueous phase carbon vessel, by-passed vessel for servicing, restarted GWT System, reduced flow to avoid backpressure problems)	<ul style="list-style-type: none">• March 28 & 29

OUTSTANDING ITEMS

RECOMMENDED SOLUTION

<ul style="list-style-type: none">• Maintenance/repair of leaking 400-lb aqueous phase carbon vessel (currently off-line).• Carbon change-out.	<p>Order replacement part and perform maintenance when carbon vessel is empty.</p> <p>Schedule carbon change out with general Carbon.</p>