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TRANSMITTAL LETTER

TO: **Brian Jankauskas** **New York State Department of Environmental Conservation** **Remedial Bureau A - Division of Environmental Remediation** **625 Broadway, 11th Floor** **Albany, New York 12233-7015**	**RE:** **Additional Sampling Results** **101 Green Acres Road Site** **Valley Stream, New York** **NYSDEC Case No. 1-30-084**

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☐ **Specifications** ☒ **Reports** ☐ **Samples** ☐ **Letters** ☐ **Other** ☐ **Drawings**

Quantity	Description
1	Enclosed please find one hard copy and one electronic copy of the *Additional Sampling Results* report associated with the 101 Green Acres Road Site located in Valley Stream, NY.

BY: Mike Potts **DATE: June 9, 2014**

VIA: ☐ **First Class** ☒ **Federal Express** ☐ **Messenger** ☐ **UPS**

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Additional Sampling Results
101 Green Acres Road Site
Valley Stream, New York
NYSDEC Site No. 1-30-084

Prepared for:
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Washington, D.C.

On behalf of:
Bulova Corporation
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Princeton, New Jersey

Date:
June 2014

Project Number:
02-1961B

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1 Site Overview

ENVIRON International Corporation (ENVIRON), on behalf of Bulova Corporation (Bulova), has prepared this report to document the findings of additional sampling activities conducted at the 101 Green Acres Road Site in Valley Stream, New York (the "Site"). The Site location is depicted on Figure 1. The scope of the sampling activities was based on the New York State Department of Environmental Conservation's (NYSDEC) review of the *Annual Sampling Results* report (ENVIRON, July 2013) and detailed in the correspondence from NYSDEC dated August 27, 2013. NYSDEC requested that the monitoring program be continued for an additional year. Accordingly, this report provides results of two rounds of groundwater sampling (conducted in September 2013 and March 2014), an indoor air sampling event (conducted in March 2014), and an inspection of the building slab and building HVAC system (both completed in March 2014).

The following sections provide relevant background information, and a summary of the additional sampling and results completed at the Site, and present conclusions based on the results of the additional sampling activities. Detailed information regarding the Site history and the results of the prior investigation activities were previously provided to NYSDEC in reports prepared by ENVIRON and Weston Solutions, Inc. (Weston).

1.1 Site Description

1.1.1 Location and Physical Setting

The Site is located in the Town of Hempstead, Nassau County, New York, in a mixed-use urban area with residential, commercial, and light industrial properties. The Site is included in the Lynbrook, New York USGS topographic quadrangle and the Site location is depicted on Figure 1. The Site covers approximately 7.2 acres and is bordered to the northwest and northeast by retail stores and paved parking areas. The Green Acres shopping mall is immediately northeast of the Site. The northern limits of the retail stores and parking areas are bordered by Sunrise Highway and the Far Rockaway branch of the Long Island Rail Road. A residential area is adjacent to the eastern property boundary. Light industrial facilities, including distribution and shipping companies, are located to the south of the Site at the Airport Industrial Office Park (AIOP). John F. Kennedy International Airport is approximately 2 miles southwest of the Site.

Hook Creek, an intermittent stream, is located beyond the western edge of the Site. The creek receives storm water drainage from the Site as well as from upgradient areas including paved parking areas, Sunrise Highway, and the Long Island Rail Road adjacent to Sunrise Highway. Hook Creek flows south, merges with Valley Stream approximately 0.5 miles south of the Site, and then flows to the west, discharging to Jamaica Bay. Clear Stream, located approximately 0.3 miles southeast of the Site, flows to the south and joins Valley Stream approximately 0.2 miles upstream of Hook Creek. In the vicinity of the Site, the Nassau/Queens County line roughly follows Hook Creek.

1.1.2 Geology

The Site is located within Long Island's glacial outwash plain, which extends 10 miles southward from the Ronkonkoma and Harbor Hill terminal moraines to the south shore. Surface

topography at the Site is flat, with surface elevations ranging from approximately 8 to 10 feet above mean sea level (amsl). Topography in the vicinity of the Site is also generally flat and gently slopes toward the south and southeast in the direction of Hook Creek and Valley Stream. The Site is underlain by upper Pleistocene deposits, which form the upper glacial aquifer. The upper Pleistocene deposits consist mainly of stratified beds of fine to coarse sand and of sand and gravel. Thin beds of silt and clay are often interbedded with the coarse-grained material. The upper glacial aquifer is underlain by the "20-foot" clay and the Gardiners Clay. The "20-foot" clay is lithologically similar to the underlying Gardiners Clay and the two units are distinguished primarily by stratigraphic position. In some portions of southern Nassau County, the "20-foot" clay is separated from the Gardiners Clay by a layer of upper Pleistocene deposits. The "20-foot" clay and the Gardiners Clay represent the major confining layers within the upper portion of the ground water reservoir beneath Nassau County. Additional information related to the regional geology is detailed in the Geologic Review and Well Record Search Results letter report (ENVIRON, April 16, 1998).

Based on observations during the prior site investigations, geologic conditions at and in the vicinity of the Site are consistent with the findings of regional geologic investigations. The Site is underlain by fine to medium sands. Ground water is located approximately 5 feet below ground surface (bgs). Regional geologic investigation reports indicate that the northern boundary of the "20-foot" clay is present in the vicinity of the Site, and the site investigation results indicate that the "20-foot" clay is discontinuous beneath the Site. Where the "20-foot" clay is present, a thin layer of upper Pleistocene deposits appear to be positioned between the "20-foot" clay and the Gardiners Clay. The top of the "20-foot" clay has been encountered at depths of 38 – 45 feet bgs and the top of the Gardiners Clay has been encountered at depths of 45 – 52 feet bgs.

1.1.3 Site History

Industrial operations at the Site are believed to have started in the late 1920s with the construction of the Curtiss-Wright Airport in 1929.[1] Airport related structures at the Site included airplane hangars and a portion of the runway. Although Curtiss Flying Service abandoned the airfield in approximately 1938, several other air service companies continued to operate the airfield. Occupants included the Columbia Aircraft Corporation, which built airplanes for military and private concerns between 1940 and 1948. The Bulova Watch Company leased the property from 1948 until 1960, when Bulova took title of the property.

When Bulova took occupancy of the Site in 1948, two airplane hangars existed on the eastern portion of the Site. Based on discussions with Bulova personnel, it is believed that Bulova connected the airplane hangars in 1952, creating Building No. 1. Building No. 2 was erected west of Building No. 1 in 1967. During Bulova's occupancy, the eastern and northern portions of the Site were paved; a portion of the paved area incorporated the original concrete airfield runway, which traversed the eastern portion of the property from north to south. Bulova ceased

[1] Information related to prior site operations was obtained from a Phase I environmental assessment performed by Certified Engineering and Testing Company during 1990.

operations at the Site during 1990 and title of the property was transferred to Home Depot in April 1993.

The Site was redeveloped during 1993. Redevelopment included demolition of all existing Site structures and construction of a Home Depot retail store. The entire Site is currently covered by the Home Depot building and the associated paved parking areas. Potable water and sanitary service at the Site are provided by the local municipal authority. Storm water drainage from the building roof and paved parking areas is collected in a series of catch basins and directed via reinforced concrete piping beyond the eastern property boundary.

1.2 Prior Investigation/Interim Action Activities

Numerous phases of investigation and remediation have been completed at the Site, under the oversight of the NYSDEC. Based on the results of prior investigations and remedial actions at the Site, the NYSDEC determined that no further remedial actions are warranted at the Site. As detailed in the Record of Decision (NYSDEC; March 2000), NYSDEC determined that actual or threatened releases of hazardous waste constituents at the Site had been addressed through the implementation of interim response actions and that the response actions had significantly reduced the threat to public health and the environment. Based on the results of the investigations and response actions at the Site, NYSDEC determined in the Record of Decision that no further remedial action was required and that natural attenuation represented an appropriate alternative to address impacted ground water at the Site. Details of investigation and interim action results completed at the Site have been provided to NYSDEC in prior report submittals.

2 Additional Sampling Results

2.1 Overview

Pursuant to NYSDEC's August 27, 2013 correspondence, the additional monitoring for the Site followed the scope of work completed during 2012/2013 and consisted of:

- Groundwater sampling in September 2013 and March 2014;
- Indoor and ambient air sampling in March 2014;
- Inspection of the building slab and building HVAC system in April 2014.

The primary objectives of the monitoring programs are to: (1) evaluate changes in conditions in ground water on-site; and (2) evaluate the effectiveness of the existing building slab and HVAC system at the Site, which prior investigations demonstrated to be providing an effective mitigation measure to address the vapor intrusion exposure pathway. The groundwater sampling activities in September 2013 and March 2014, and the March 2014 air sampling and annual inspections of the building and HVAC conditions, were completed in accordance with the revised *Operations and Maintenance Plan* (OM&M Plan) which was provided to NYSDEC on April 19, 2012. The vapor intrusion-related sampling activities outlined in the OM&M Plan are consistent with the *Guidance for Evaluating Soil Vapor Intrusion in the State of New York* (New York State Department of Health [NYSDOH], October 2006). Results of the additional monitoring activities are summarized below.

2.2 Institutional Control and Environmental Covenant

Pursuant to the Record of Decision (March 2000), a Declaration of Covenants and Restrictions was placed on the property prohibiting the installation of potable water wells on-site and providing that non-potable wells may be installed only with approval of the Nassau County Department of Health and the NYSDEC. As described in prior reports, water is provided to the Site by the municipal water supply and therefore, groundwater is not used at the Site. Other than monitoring wells, no other non-potable or potable groundwater use wells have been installed at the property.

The site Declaration of Covenants and Restrictions was amended to include reference to the revised OM&M Plan. It was recorded on April 24, 2013, and was provided to NYSDEC on April 29, 2013. Pursuant to the Declaration of Covenants and Restrictions, an Institutional and Engineering Controls (IC/EC) Certification Form was provided to NYSDEC as part of the Periodic Review Report (PRR) and was included in the 2013 Annual Sampling Results Report. NYSDEC approved the PRR and the IC/EC Certification Form in correspondence dated August 29, 2013. A copy of the August 29, 2013 approval letter is provided as Appendix A. The next PRR and IC/EC Certification submittal is due to NYSDEC on May 30, 2016.

2.3 Groundwater Monitoring

2.3.1 Water Level Measurements and Sampling Procedures

Synoptic groundwater level measurements were collected in conjunction with the groundwater sampling events completed in September 2013 and March 2014. Monitoring well locations are depicted on Figure 2. The depth-to-water measurements were collected at each monitoring well

using an electronic interface probe. The depth-to-water measurements and corresponding groundwater elevation data derived from the measurements are presented in Table 1. Potentiometric surface maps associated with the September 2013 and March 2014 gauging/monitoring events are provided as Figures 3 and 4, respectively. Consistent with the results of prior groundwater monitoring events at the Site, water level data collected during the gauging/monitoring events indicate that groundwater flow is directed toward the southeast and generally coincides with local topography.

Groundwater samples were collected from monitoring wells MW-HD4, MW-HD6, and MW-HD7 during the September 2013 and March 2014 sampling events. In addition, once duplicate groundwater sample was also collected from monitoring well MW-HD6 during each sampling event. The groundwater sampling activities were conducted using a stainless steel submersible pump equipped with dedicated discharge tubing. Initial water quality indicator measurements were collected prior to purging each well. The indicator parameters include pH, water temperature, specific conductance, dissolved oxygen, turbidity and oxidation/reduction potential. Water quality indicators were measured during purging and purging continued until indicator values had stabilized or until three well volumes had been purged from the well. Groundwater field parameters are provided in Appendix B.

Each groundwater sample was analyzed for the six primary constituents of concern identified in NYSDEC's March 2000 Record of Decision associated with the Site (i.e., tetrachloroethene [PCE]; trichloroethene [TCE]; 1,1,1-trichloroethane [TCA]; 1,1-Dichloroethane [1,1-DCA]; 1,1,-Dichloroethene [1,1-DCE]; and Freon 113). Laboratory services were provided by Accutest Laboratories of Dayton, New Jersey, an Environmental Laboratory Approval Program (ELAP)-certified laboratory. Laboratory deliverables are provided in Attachment A.

2.3.2 Groundwater Sampling Results

Analytical results from the September 2013 and March 2014 groundwater sampling events are summarized in Table 2. Consistent with prior sampling events at the Site, elevated VOC concentrations were detected in groundwater samples collected from the monitoring well at the southeast portion of the Site (i.e., MW-HD4). Reported VOC concentrations from monitoring well MW-HD6, which is at the Site boundary, and from the off-site monitoring well, MW-HD7, were below the laboratory method detection limits and/or the corresponding Ambient Water Quality Standard.

While the reported concentrations of certain VOCs in groundwater samples collected from MW-HD4 are above the NYSDEC Ambient Water Quality criteria, concentrations generally show an overall decrease since the interim response actions were completed at the Site. In addition, the reported VOC concentrations at MW-HD4 during the recent additional monitoring events were significantly lower than peak concentrations encountered during 2012/2013 and were consistent with concentrations detected during the earlier post-ROD monitoring events. Charts depicting constituent concentrations in groundwater at the southeast portion of the Site (i.e., MW-HD4) are provided in Appendix C.

2.3.3 Quality Assurance/Quality Control Analytical Results

During the groundwater sampling activities, field and trip blanks were collected to evaluate equipment decontamination procedures and potential cross contamination during sample container storage and shipment. QA/QC samples were analyzed for the same constituents as described above and are reported in Table 3. VOCs were not detected above laboratory method detection limits in field and trip blank analytical results from the September 2013 and March 2014 groundwater sampling events.

2.4 Vapor Intrusion Evaluation

2.4.1 Building Walkthrough Survey

As noted above, a vapor intrusion investigation was completed during March 2014 to further evaluate the vapor intrusion exposure pathway at the Site. Prior to conducting the vapor intrusion investigation, a building walkthrough survey was completed to identify potential background sources of indoor air contamination. Based on the information provided by the store manager and the pre-sampling building walkthrough, Site conditions have not changed since the prior vapor intrusion sampling events at the Site. Accordingly, a copy of the previously completed form is provided as Appendix D.

2.4.2 Annual Inspection of Building Conditions

The current site owner maintains the building condition and performs periodic maintenance of the building HVAC system. A copy of the HVAC system maintenance for the Site is provided as Appendix E. In addition, it is ENVIRON's understanding that no maintenance was required for the building slab (i.e., no cracks requiring sealing were present).

2.4.3 Sample Collection

The vapor intrusion sampling activities were completed on March 12, 2014 and included the following:

- Collection of indoor air samples from locations positioned adjacent to or in the vicinity of previously-sampled indoor locations (each of which corresponded to a previous sub-slab soil gas sampling location); and
- Collection of a concurrent ambient air sample from the rear parking area at the Site.

Vapor intrusion investigation sampling locations are depicted on Figure 2. All sampling canisters were positioned in the breathing zone, approximately 3 to 5 feet above the floor or ground surface. The ambient air sample location was positioned outside of the building in an area that is reasonably representative of background conditions and was not adjacent to high traffic areas.

Sampling activities took place during normal business hours, while the heating, ventilation, and cooling (HVAC) system and the building's doors were operating in a manner consistent with normal operating conditions. Home Depot store personnel confirmed that the HVAC system was in normal operation during the time that the samples were collected.

Samples were collected using laboratory-provided 6-liter stainless steel Summa® canisters, and transported to an ELAP-certified laboratory. One duplicate indoor air sample was collected at sample location ENV04. Laboratory services were provided by Accutest Laboratories of Dayton, New Jersey. Consistent with previous vapor intrusion investigations at the Site, each sample was analyzed for PCE, TCE, TCA, 1,1,-DCA, 1,1-DCE, and Freon 113 using USEPA Method TO-15. Each Summa® canister was equipped with a regulator pre-set by the laboratory to correspond to an 8-hour sampling time. Laboratory deliverables are provided in Attachment A.

2.4.4 Vapor Intrusion Investigation Results

The indoor air and ambient air sampling results associated with the vapor intrusion sampling activities conducted during March 2014 are summarized in Table 4. A summary of the recent indoor air sampling results, sorted by date, is presented in Appendix F.

As described in prior reports, several factors, including but not limited to, building construction, building size, and air circulation, can influence the migration of sub-slab soil vapor into indoor air and serve to address potential unacceptable exposure via the vapor intrusion pathway. For example, the competent concrete slab throughout the warehouse-style building at the Site and the expected nominal positive pressure within the building to account for air exchanges associated with routine retail operations at the Site (e.g., opening of customer doors and shipping/receiving area doors) can serve to address potential unacceptable exposure via the vapor intrusion pathway. As described above, no changes have been observed in the building slab condition and there are no reports of changes to the air circulation system.

Additional discussion regarding the representative indoor air sampling results follows:

- Low concentrations of PCE (ranging from 0.45 to 3 µg/m^3) were detected in indoor air samples. However, all of the reported PCE concentrations are below the NYSDOH Air Guidance Values, USEPA benchmark values for indoor air quality in public and commercial buildings, and corresponding Occupational Indoor Air Standards.
- Freon 113 was detected in all of the indoor air samples at concentrations ranging from 1.9 µg/m^3 at ENV02 to 22 µg/m^3 and ENV04. Freon 113 was also detected in the ambient air sample at a concentration of 2.5 µg/m^3. The reported Freon 113 concentrations are well below the Occupational Indoor Air Standard of 7,600,000 µg/m^3. As NYSDOH has not published an Air Guidance Value for Freon 113, ENVIRON calculated a human health, risk-based indoor air screening criterion to support the evaluation of the indoor air concentration identified during the vapor intrusion investigation. Details regarding the criterion development process were provided in prior reports and are also included in Appendix G. As presented in Table 4, the reported Freon 113 concentrations are all well below the risk-based criterion of 130,000 µg/m^3.
- TCE, TCA, 1,1,-DCA, and 1,1-DCE were not detected in any indoor or ambient air sample.

Based on the results of the 2014 sampling event and comparison with prior sampling events (see Appendix F), no significant human exposures are present via the vapor intrusion pathway. These data support the prior conclusions that the existing building at the Site and its HVAC

system serve as an effective mitigation measure to address the vapor intrusion exposure pathway.

2.5 Data Usability

In accordance with Section 2.1 and Appendix 2B of the draft *Technical Guidance for Site Investigation and Remediation* (DER-10), ENVIRON has included a Data Usability Summary Report associated with each sampling event described above. The Data Usability Summary Reports are included as Appendix H. As presented in Appendix H, the data usability review determined that the data deliverables associated with each sampling event were complete and that the data quality was generally acceptable.

3 Conclusions

As detailed above, ENVIRON completed additional sampling activities at the 101 Green Acres Road Site in Valley Stream, New York during 2013/2014. The sampling activities included the collection and analysis of groundwater samples from two on-site monitoring wells and one off-site monitoring well and the collection and analysis of indoor air and ambient air samples from several locations at the Site. The findings of the additional sampling activities can be summarized as follows:

- Consistent with the results of prior groundwater sampling events at the Site, analysis of groundwater samples collected from the monitoring well located at the southeast portion of the Site identified certain VOCs at concentrations above the corresponding Ambient Water Quality Standards. However, reported VOC concentrations in ground water at the southeastern portion of the Site have decreased since 1995, which is after the interim response actions were completed at the Site. Reported VOC concentrations in groundwater samples collected from MW-HD6 (at the Site boundary) and from the off-site monitoring well were below the laboratory method detection limits and/or the corresponding Ambient Water Quality Standard. At the time of the Record of Decision associated with the Site (NYSDEC; March 2000), NYSDEC determined that natural attenuation represented an appropriate alternative to address impacted ground water at the Site. Similar to prior sampling results, the recent groundwater monitoring activities have confirmed that VOC concentrations in groundwater are lower than pre-response action concentrations and that off-site ground water has not been impacted. In addition, the reported VOC concentrations at the southeast portion of the Site during the recent additional monitoring events were significantly lower than peak concentrations encountered during 2012/2013 and were consistent with concentrations detected during the earlier post-ROD monitoring events.
- Reported VOC concentrations in indoor air samples were below corresponding NYSDOH Air Guidance Values, Calculated Health-Based Indoor Air Criterion, USEPA benchmark values for indoor air quality in public and commercial buildings, and Occupational Indoor Air Standards. Based on the vapor intrusion investigation results, the existing building at the Site and its HVAC system continue to serve as an effective mitigation measure to address the vapor intrusion exposure pathway and no significant human exposures are currently occurring via the vapor intrusion pathway at the Site.

4 Schedule

As requested by NYSDEC, Bulova completed additional groundwater monitoring and indoor air monitoring activities through March 2014. The reported VOC concentrations were significantly lower than peak concentrations encountered during 2012/2013 and were consistent with concentrations detected during the earlier post-ROD monitoring events. In addition, the vapor intrusion investigation results indicate that the existing building at the Site and its HVAC system continue to serve as an effective mitigation measure to address the vapor intrusion exposure pathway.

In light of these results, Bulova respectfully requests that the monitoring program be terminated. If NYSDEC has any questions regarding the additional monitoring results, or regarding Bulova's request to terminate the monitoring program, Bulova respectfully requests the opportunity to meet with NYSDEC.

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Tables

TABLE 1
Groundwater Elevation Data
101 Green Acres Road
Valley Stream, New York

Monitoring Well	Top of Casing Elevation (Feet AMSL)	September 26, 2013		March 12, 2014	
		Depth-to-Water (Feet)	Groundwater Elevation (Feet AMSL)	Depth-to-Water (Feet)	Groundwater Elevation (Feet AMSL)
MW-HD1	9.93	5.95	3.98	5.35	4.58
MW-HD2	9.45	N/A	--	N/A	--
MW-HD3	9.93	N/A	--	N/A	--
MW-HD4	10.09	6.44	3.65	5.85	4.24
MW-HD5	9.45	5.71	3.74	5.05	4.40
MW-HD6	9.97	6.40	3.57	5.73	4.24
MW-HD7	9.33	5.50	3.83	5.07	4.26

Abbreviation:
AMSL: Above mean sea level
N/A: Not Accessible
Notes:
MW-HD2 and MW-HD3 were destroyed during resurfacing of the parking lot in 2012

TABLE 2
Summary of Groundwater Analytical Results
101 Green Acres Road Site
Valley Stream, New York

Location ENVIRON Sample ID Sample Method Sample Date Comments	Ambient Water Quality Criteria	HD04 MWHD4-130926 Submersible Pump 9/26/2013	HD04 MWHD4-140312 Submersible Pump 3/12/2014	HD06 MWHD6-130926 Submersible Pump 9/26/2013	HD06 MWHD6-130926D Submersible Pump 9/26/2013 Field Duplicate	HD06 MWHD6-140312 Submersible Pump 3/12/2014
Volatile Organic Compounds						
1,1-Dichloroethane	5	**21.6 (5)**	**14.7 (1)**	ND (1)	ND (1)	ND (1)
1,1-Dichloroethene	5	**250 (5)**	**77.5 (1)**	ND (1)	ND (1)	ND (1)
Tetrachloroethene	5	2.3 J (5)	1.2 (1)	ND (1)	ND (1)	ND (1)
1,1,1-Trichloroethane	5	**895 (5)**	**111 (1)**	ND (1)	ND (1)	ND (1)
Trichloroethene	5	**73.9 (5)**	**32.7 (1)**	0.37 J (1)	0.4 J (1)	ND (1)
Freon 113	5	ND (25)	**8.7 (5)**	ND (5)	ND (5)	ND (5)

Notes:

1 All concentrations are presented in ug/L (ppb).
Detection limits are in parentheses.
2 Only compounds with at least one detection are shown
3 Bold concentrations exceed the Ambient Water Quality Criteria.

Abbreviations:

ND -- Not Detected.
J -- Estimated Concentration

TABLE 2
Summary of Groundwater Analytical Results
101 Green Acres Road Site
Valley Stream, New York

Location ENVIRON Sample ID Sample Method Sample Date Comments	Ambient Water Quality Criteria	HD06 MWHD6-140312D Submersible Pump 3/12/2014 Field Duplicate	HD07 MWHD7-130926 Submersible Pump 9/26/2013	HD07 MWHD7-140312 Submersible Pump 3/12/2014
Volatile Organic Compounds				
1,1-Dichloroethane	5	ND (1)	ND (1)	ND (1)
1,1-Dichloroethene	5	ND (1)	ND (1)	ND (1)
Tetrachloroethene	5	ND (1)	ND (1)	ND (1)
1,1,1-Trichloroethane	5	ND (1)	ND (1)	ND (1)
Trichloroethene	5	ND (1)	0.43 J (1)	ND (1)
Freon 113	5	ND (5)	ND (5)	ND (5)

Notes:

1 All concentrations are presented in ug/L (ppb).
Detection limits are in parentheses.
2 Only compounds with at least one detection are shown
3 Bold concentrations exceed the Ambient Water Quality Criteria.

Abbreviations:

ND -- Not Detected.
J -- Estimated Concentration

TABLE 3
Summary of QAQC Analytical Results
101 Green Acres Road Site
Valley Stream, New York

Location	QAQC	QAQC	QAQC	QAQC
ENVIRON Sample ID	FB-130926	TB-130926	FB-140312	TB-140312
Sample Method	Submersible Pump	Trip Blank	Submersible Pump	Trip Blank
Sample Date	9/26/2013	9/26/2013	3/12/2014	3/12/2014
Comments				
Volatile Organic Compounds	**ND**	**ND**	**ND**	**ND**

Notes:

1 All concentrations are presented in ug/L (ppb).

Abbreviations:

ND -- Not Detected.

TABLE 4
Summary of Indoor Air Analytical Results
101 Green Acres Road Site
Valley Stream, New York

Location ENVIRON Sample ID Matrix Sample Method Sample Date Comments	NYSDOH Air Guideline Value	USEPA Indoor Air Benchmark (90th Percentile)	Calculated Human Health Risk-Based Indoor Air Criteria	Occupational Indoor Air Standard	ENV01 ENV01-140312 Indoor Air Summa Canister 3/12/2014	ENV02 ENV02-140312 Indoor Air Summa Canister 3/12/2014	ENV03 ENV03-140312 Indoor Air Summa Canister 3/12/2014	ENV04 ENV04-140312 Indoor Air Summa Canister 3/12/2014
Volatile Organic Compounds								
Tetrachloroethene	100	15.9	NC	670,000	0.95 (0.27)	0.49 (0.27)	3 (0.27)	1.2 (0.27)
Freon 113	NA	NA	130,000	7,600,000	2 (1.5)	1.9 (1.5)	3.6 (1.5)	5 (1.5)

Notes:

1 All concentrations are presented in ug/m^3. Detection limits are in parentheses.

2 Only compounds with at least one detection are shown.

3 None of the targeted constituent concentrations are greater than the most stringent indoor air values.

Abbreviations:

ND -- Not Detected.

TABLE 4
Summary of Indoor Air Analytical Results
101 Green Acres Road Site
Valley Stream, New York

Location ENVIRON Sample ID Matrix Sample Method Sample Date Comments	NYSDOH Air Guideline Value	USEPA Indoor Air Benchmark (90th Percentile)	Calculated Human Health Risk-Based Indoor Air Criteria	Occupational Indoor Air Standard	ENV04 ENV04-140312D Indoor Air Summa Canister 3/12/2014 Field Duplicate	ENV05 ENV05-140312 Indoor Air Summa Canister 3/12/2014	ENV06 ENV06-140312 Indoor Air Summa Canister 3/12/2014	AA AA-1403122 Ambient Air Summa Canister 3/12/2014
Volatile Organic Compounds								
Tetrachloroethene	100	15.9	NC	670,000	1 (0.27)	0.45 (0.27)	0.81 (0.27)	ND (0.27)
Freon 113	NA	NA	130,000	7,600,000	22 (1.5)	9.2 (1.5)	2.8 (1.5)	2.5 (1.5)

Notes:

1 All concentrations are presented in ug/m^3. Detection limits are in parentheses.

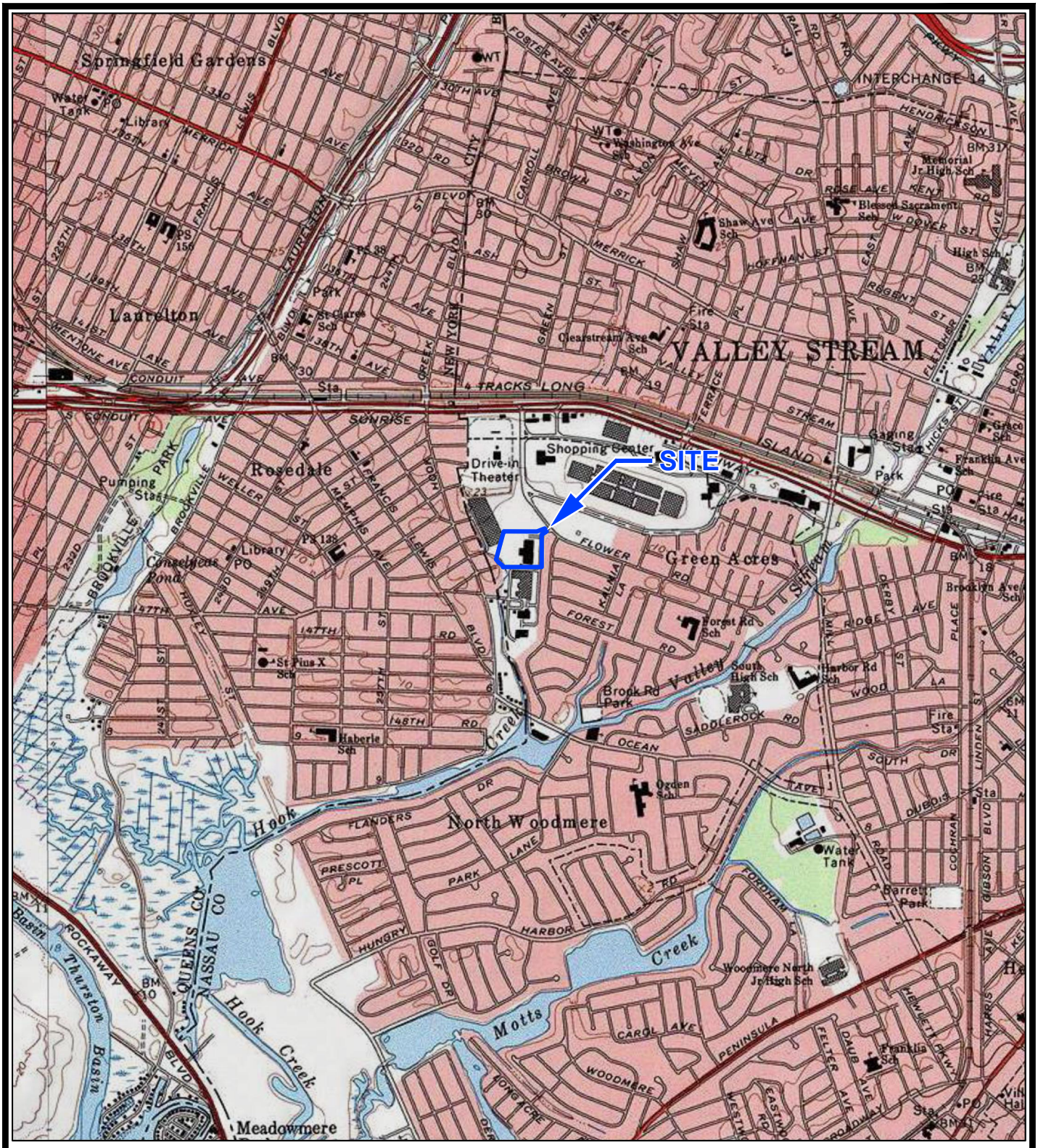
2 Only compounds with at least one detection are shown.

3 None of the targeted constituent concentrations are greater than the most stringent indoor air values.

Abbreviations:

ND -- Not Detected.

Figures



SOURCE:
USGS QUAD MAP: BY NATIONAL GEOGRAPHIC TOPO!. USGS 7.5 MINUTE TOPOGRAPHIC QUADRANGLE; 40°39'35" N, 73°43'28" W WGS84; LYNBROOK, NY.
MAP CURRENT AS OF 1969.

ENVIRON

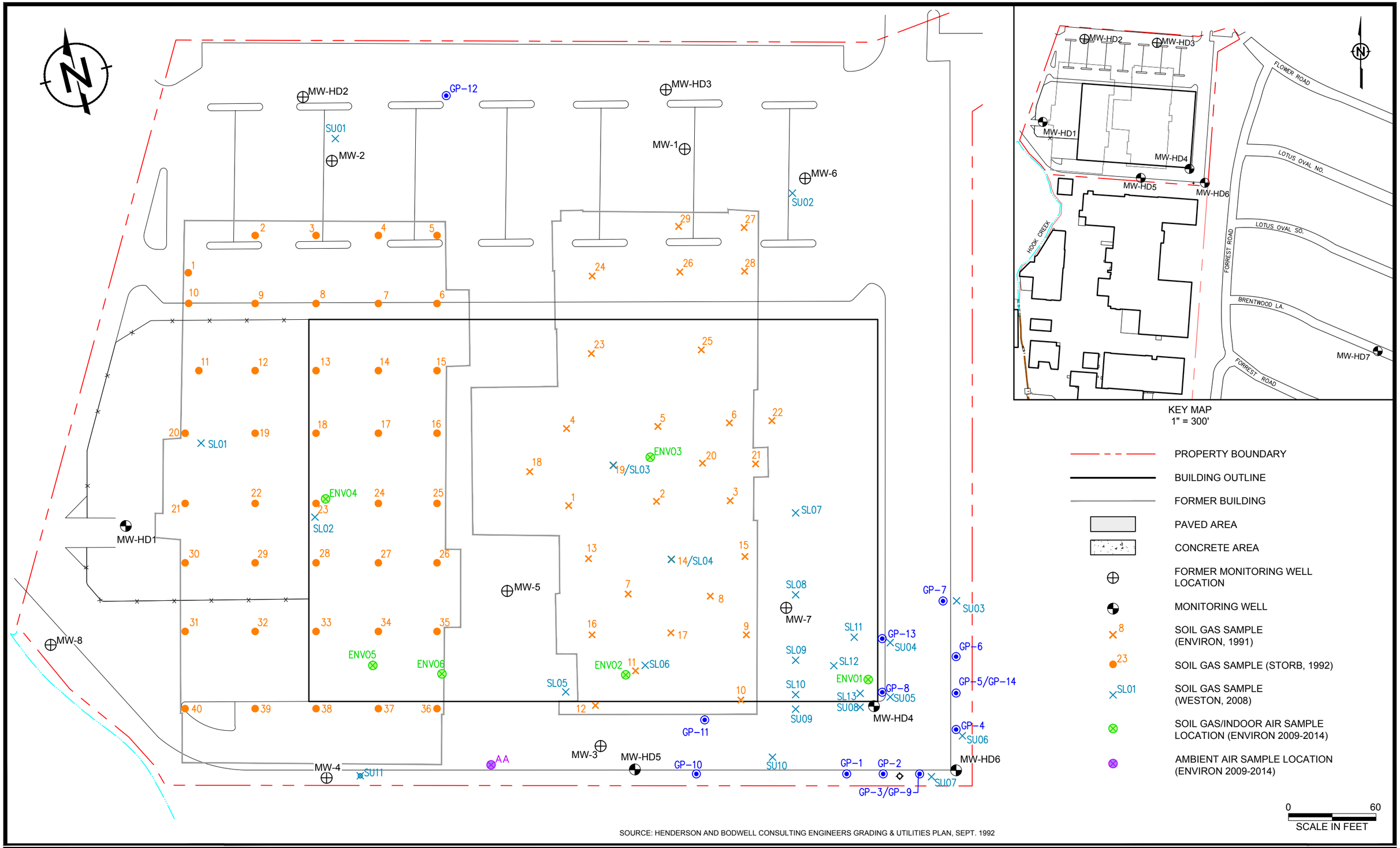
SITE LOCATION MAP

101 GREEN ACRES ROAD SITE
VALLEY STREAM, NEW YORK

FIGURE
1

DRAFTED BY: TSP | DATE: 06/11/2013 | 021961B

TSP 6/11/13 [021961_SLM] F:\021961



SOURCE: HENDERSON AND BODWELL CONSULTING ENGINEERS GRADING & UTILITIES PLAN, SEPT. 1992

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DRAFTED BY: TSP/KM | DATE: 05/16/2014

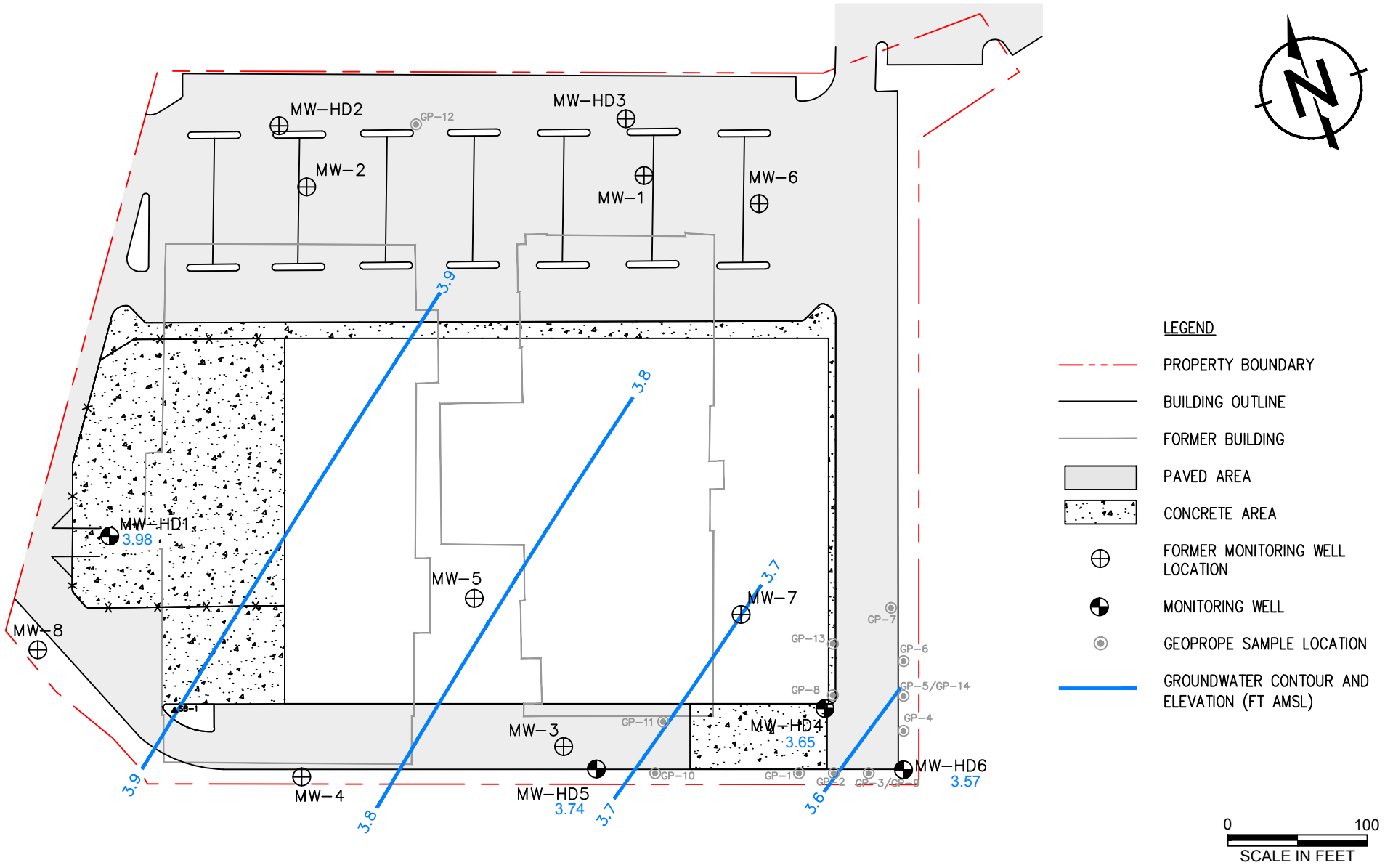
SITE LAYOUT AND SAMPLE LOCATION MAP

101 GREEN ACRES ROAD SITE
VALLEY STREAM, NEW YORK

FIGURE
2

021961B

KMAUGHAN 6/5/14 [021961_SL_AND SMPL] F:\021961



ENVIRON

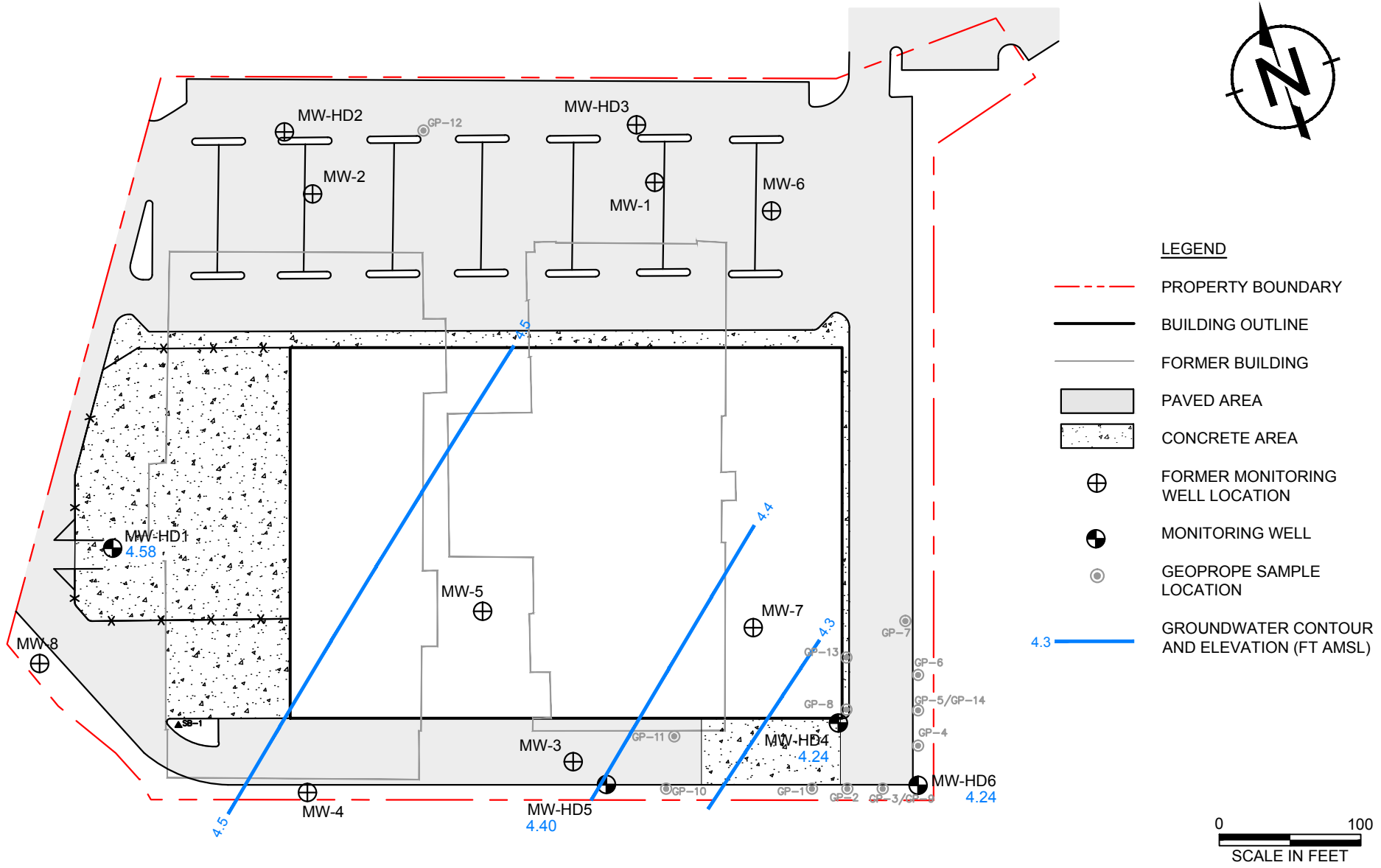
DRAFTED BY: BJK/TSP | DATE: 10/03/2013

GROUNDWATER POTENTIOMETERIC SURFACE - SEPTEMBER 26, 2013

101 GREEN ACRES ROAD SITE
VALLEY STREAM, NEW YORK

FIGURE
3

021961B



ENVIRON

DRAFTED BY: TSP | DATE: 03/20/2014

GROUNDWATER POTENTIOMETERIC SURFACE - MARCH 12, 2014

101 GREEN ACRES ROAD SITE
VALLEY STREAM, NEW YORK

FIGURE
4

021961B

Appendix A

Institutional and Engineering Controls Certification Approval

New York State Department of Environmental Conservation
Division of Environmental Remediation, 12th Floor
625 Broadway, Albany, New York 12233
Phone: (518) 402-9625
Fax: 518-402-9627
Website: www.dec.ny.gov

Joe Martens
Commissioner

AUG 29 2013

Bulova Technologies, Inc.
Bob Weber
1 Bulova Way
Woodside, NY 11377

Re: Site Management (SM) Periodic Review Report (PRR) Response Letter

101 Green Acres Road Site, Valley Stream
Nassau County, Site No.: 130084

Dear Bob Weber:

The Department has reviewed your Periodic Review Report (PRR) and IC/EC Certification for following period: May 30, 2012 to May 31, 2013.

The Department hereby accepts the PRR and associated Certification. The frequency of Periodic Reviews for this site is 3 year(s), your next PRR is due on May 30, 2016. You will receive a reminder letter and updated certification form 75-days prior to the due date.

If you have any questions, or need additional forms, please contact me at 518-402-9626 or e-mail: bfjankau@gw.dec.state.ny.us

Sincerely,

Brian Jankauskas
Project Manager

ec:
Brian Jankauskas, Project Manager
Steve Karpinski, DOH Project Manager
Walter Parish, RHWRE

cc:
Thomas Fusillo, Environ, 214 Carnegie Center, Princeton, NJ 08540-6284
Michael Potts, Environ, 214 Carnegie Center, Princeton, NJ 08540-6284
Mitchell Bernstein, Van Ness Feldman, P.C.
Mike Maddocks, 2455 Paces Ferry Road, Atlanta, GA 30339
Brett Soloway, 2455 Paces Ferry Road, Atlanta, GA 30339
Christine Leas, Sive, Paget & Riesel, P.C.

Appendix B

Groundwater Field Parameters

Appendix B
Ground Water Field Parameters
September 2013
101 Green Acres Road
Valley Stream, New York

Sample Point ID	MWHD4	MWHD6	MWHD7
Date	9/26/2013	9/26/2013	9/26/2013
Weather Conditions	Partly Sunny, ~65*F	Partly Sunny, ~65*F	Partly Sunny, ~65*F
PID Reading (ppm)	2.4	ND	ND
Free Product Thickness	ND	ND	ND
Total Depth (ft)	14.60	14.15	40.00
Depth to Water (ft)	6.44	6.40	5.50
Height Water Column (ft)	8.16	7.75	34.50
One Casing Volume (gal.)	5.33	1.26	5.62
Three Volumes (gal.)	15.99	3.79	16.87
Actual Purge Volume (gal.)	16	4	16.8
Purge Start Time	12:03	11:38	9:53
Purge End Time	12:35	11:54	10:31
Flow Rate (gpm)	0.50	0.25	0.44
Date Sampled	9/26/2013	9/26/2013	9/26/2013
Time Sampled	12:35	11:54	10:31
Purge Method	SP	SP	SP
Sampling Method	SP	SP	SP
Depth to Water After Purge (ft)	6.50	6.50	5.50
Depth to Water Before Sampling (ft)	6.50	6.50	5.50

SAMPLING/PURGE METHOD
ND = not detected
SP = submersible pump

FIELD PARAMETERS	MWHD4	MWHD6	MWHD7
Initial			
pH	5.56	5.13	5.17
Specific Conductivity (µs/cm)	0.698	0.624	0.621
Turbidity (NTU)	66.9	>1000	322
Dissolved Oxygen (ppm)	7.09	4.44	1.8
Temperature (°C)	21.38	20.05	18.29
Oxygen Reduction Potential (mV)	55	24	36
During Purging			
pH	5.47	5.45	5.43
Specific Conductivity (µs/cm)	0.701	0.631	0.729
Turbidity (NTU)	0.1	104	798
Dissolved Oxygen (ppm)	4.73	0.67	1.43
Temperature (°C)	22.35	20.41	16.52
Oxygen Reduction Potential (mV)	61	35	-17
After Purging / At Sampling			
pH	5.47	5.43	5.41
Specific Conductivity (µs/cm)	0.7	0.629	0.719
Turbidity (NTU)	0	34.6	335
Dissolved Oxygen (ppm)	3.87	0.58	1.15
Temperature (°C)	22.38	20.41	16.42
Oxygen Reduction Potential (mV)	52	40	-20

SAMPLING/PURGE METHOD
ND = not detected
SP = submersible pump

Appendix B
Ground Water Field Parameters
March 2014
101 Green Acres Road
Valley Stream, New York

Sample Point ID	MWHD4	MWHD6	MWHD7
Date	3/12/2014	3/12/2014	3/12/2014
Weather Conditions	Cloudy, slightly windy, ~55*F	Cloudy, slightly windy, ~55*F	Cloudy, slightly windy, ~55*F
PID Reading (ppm)	ND	ND	ND
Free Product Thickness	ND	ND	ND
Total Depth (ft)	14.60	14.15	40.00
Depth to Water (ft)	5.85	4.72	5.07
Height Water Column (ft)	8.75	9.43	34.93
One Casing Volume (gal.)	5.71	1.54	5.69
Three Volumes (gal.)	17.14	4.61	17.08
Actual Purge Volume (gal.)	13.5	4.5	16.5
Purge Start Time	15:08	14:40	12:36
Purge End Time	15:40	14:55	13:00
Flow Rate (gpm)	0.50	0.25	0.69
Date Sampled	3/12/2014	3/12/2014	3/12/2014
Time Sampled	15:40	14:55	13:00
Purge Method	SP	SP	SP
Sampling Method	SP	SP	SP
Depth to Water After Purge (ft)	5.85	5.73	5.40
Depth to Water Before Sampling (ft)	5.85	5.73	5.40

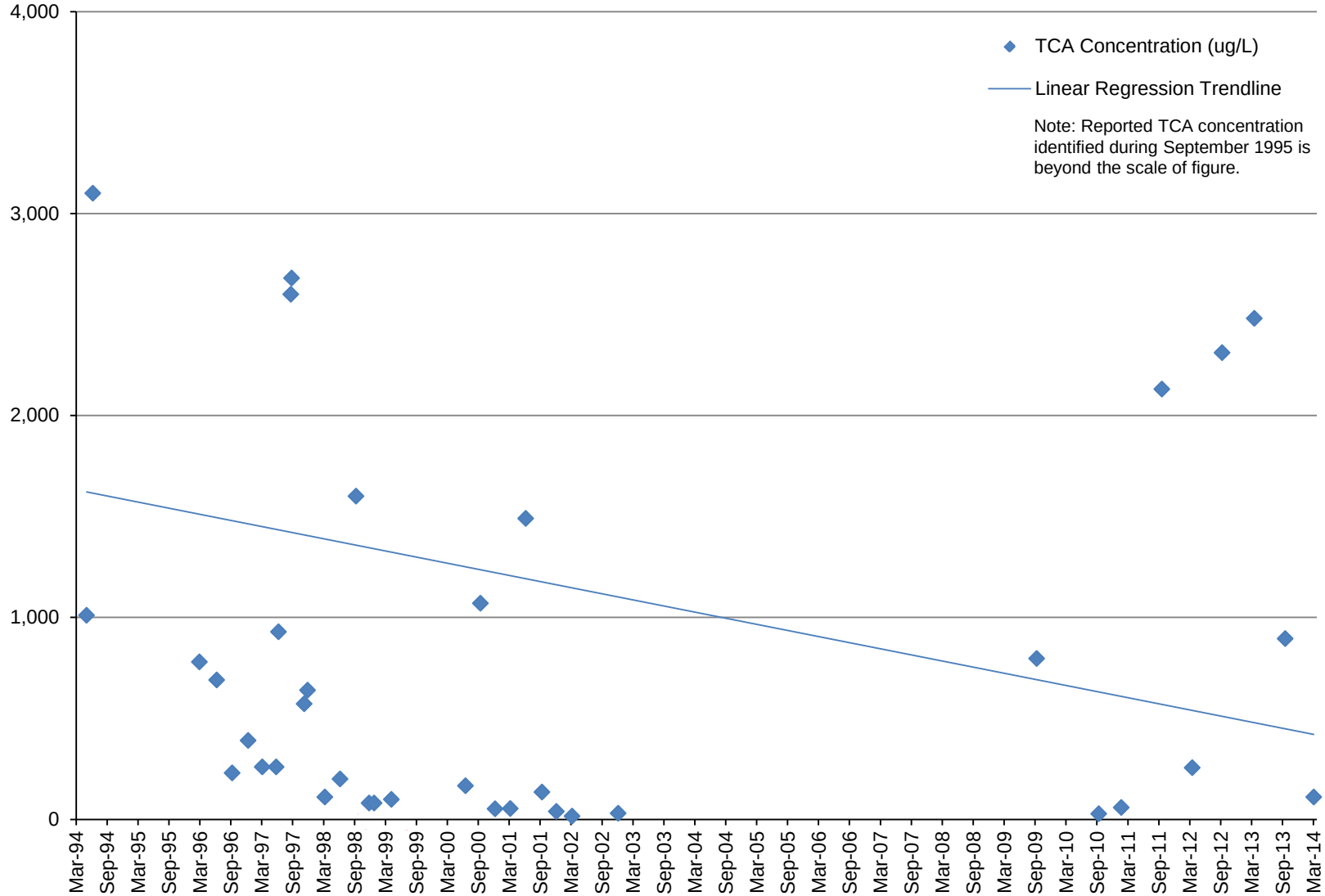
SAMPLING/PURGE METHOD
ND = not detected
SP = submersible pump

FIELD PARAMETERS	MWHD4	MWHD6	MWHD7
Initial			
pH	6.35	6.03	4.25
Specific Conductivity (µs/cm)	0.671	0.75	0.312
Turbidity (NTU)	56.4	>1000	136
Dissolved Oxygen (ppm)	3.59	13.2	9.25
Temperature (°C)	14.13	10.8	12.2
Oxygen Reduction Potential (mV)	96	52	216
During Purging			
pH	6.32	5.88	6.22
Specific Conductivity (µs/cm)	0.689	0.748	0.541
Turbidity (NTU)	2.8	101	>1000
Dissolved Oxygen (ppm)	2.87	4.02	5.7
Temperature (°C)	14.84	11.14	15.04
Oxygen Reduction Potential (mV)	83	84	16
After Purging / At Sampling			
pH	6.28	5.77	6.07
Specific Conductivity (µs/cm)	0.691	0.74	0.557
Turbidity (NTU)	0	45.9	>1000
Dissolved Oxygen (ppm)	2.76	3.81	5.1
Temperature (°C)	14.87	11.08	15.07
Oxygen Reduction Potential (mV)	80	96	16

NOTES:
ND = not detected
SP = submersible pump

Appendix C

MW-HD4 Groundwater Contaminant Concentration Trends

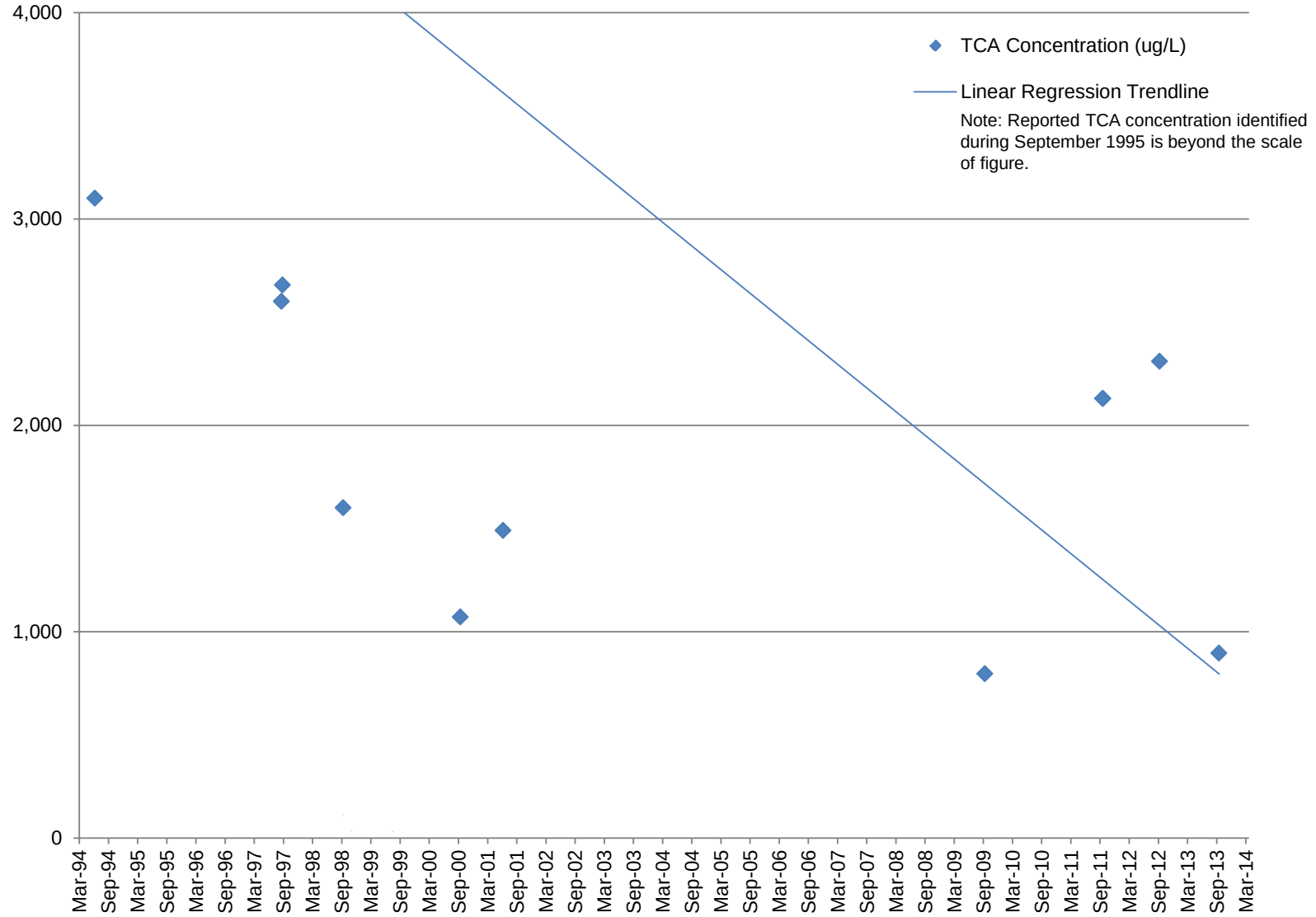


ENVIRON

DRAFTED BY: NJS | DATE: 4/30/2014

Historical 1,1,1-TCA Concentrations – MW-HD4
101 Green Acres Road – Valley Stream, NY

FIGURE
C-1

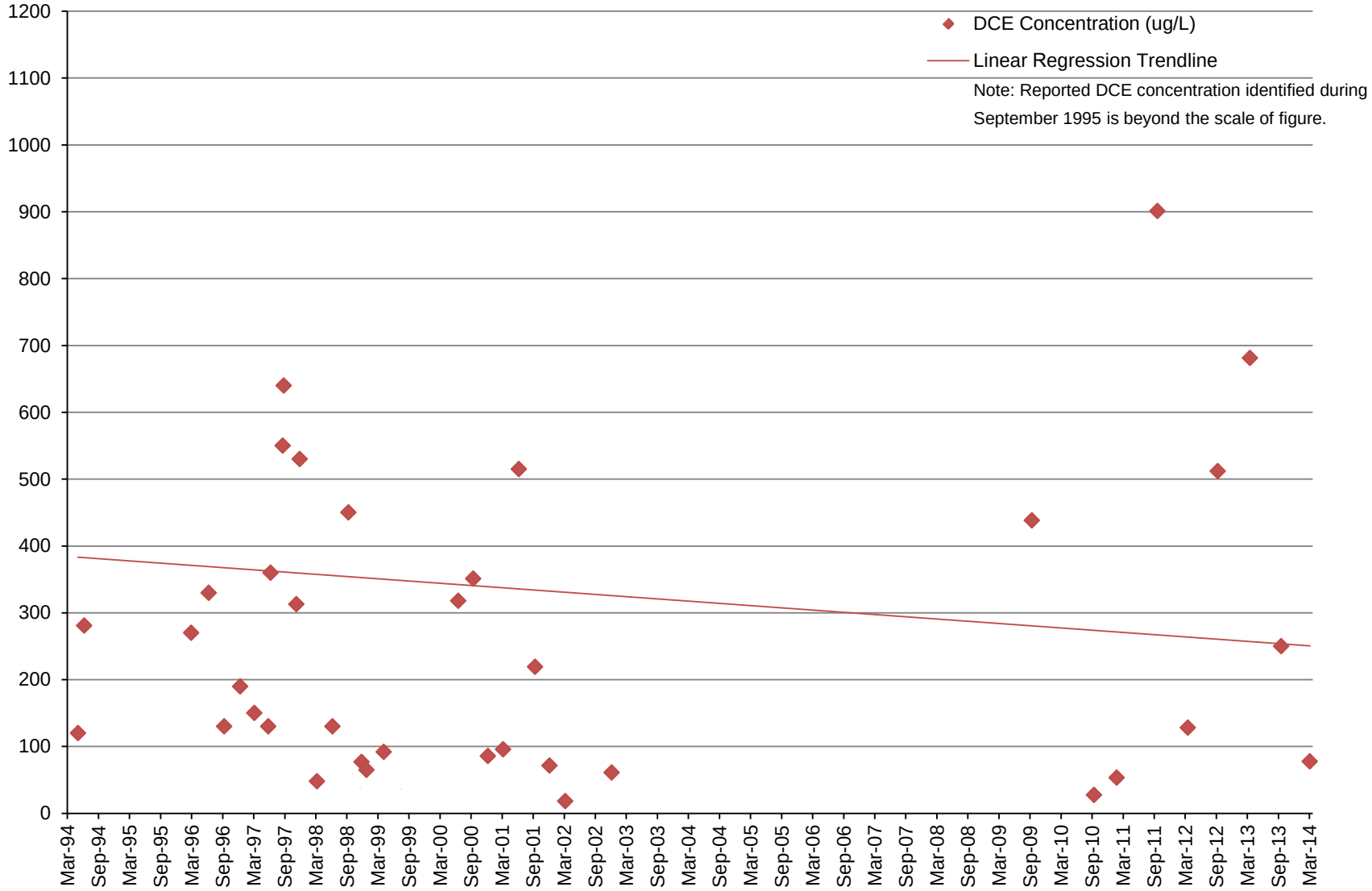


ENVIRON

DRAFTED BY: NJS | DATE: 4/30/2014

Historical June/Sept. Peak 1,1,1-TCA Concentrations – MW-HD4
101 Green Acres Road – Valley Stream, NY

FIGURE
C-2

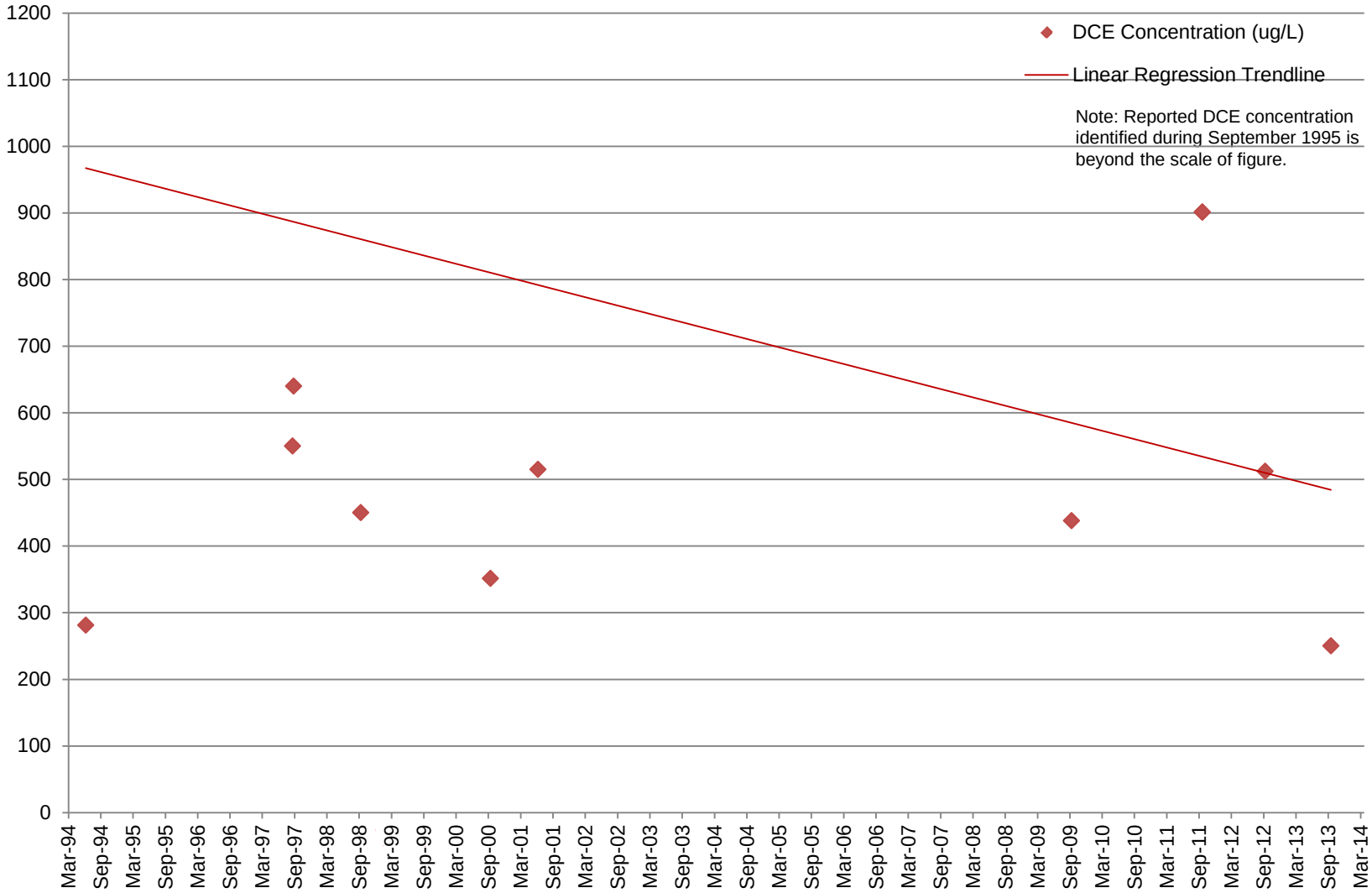


ENVIRON

DRAFTED BY: NJS | DATE: 4/30/2014

Historical 1,1-DCE Concentrations – MW-HD4
101 Green Acres Road – Valley Stream, NY

FIGURE
C-3

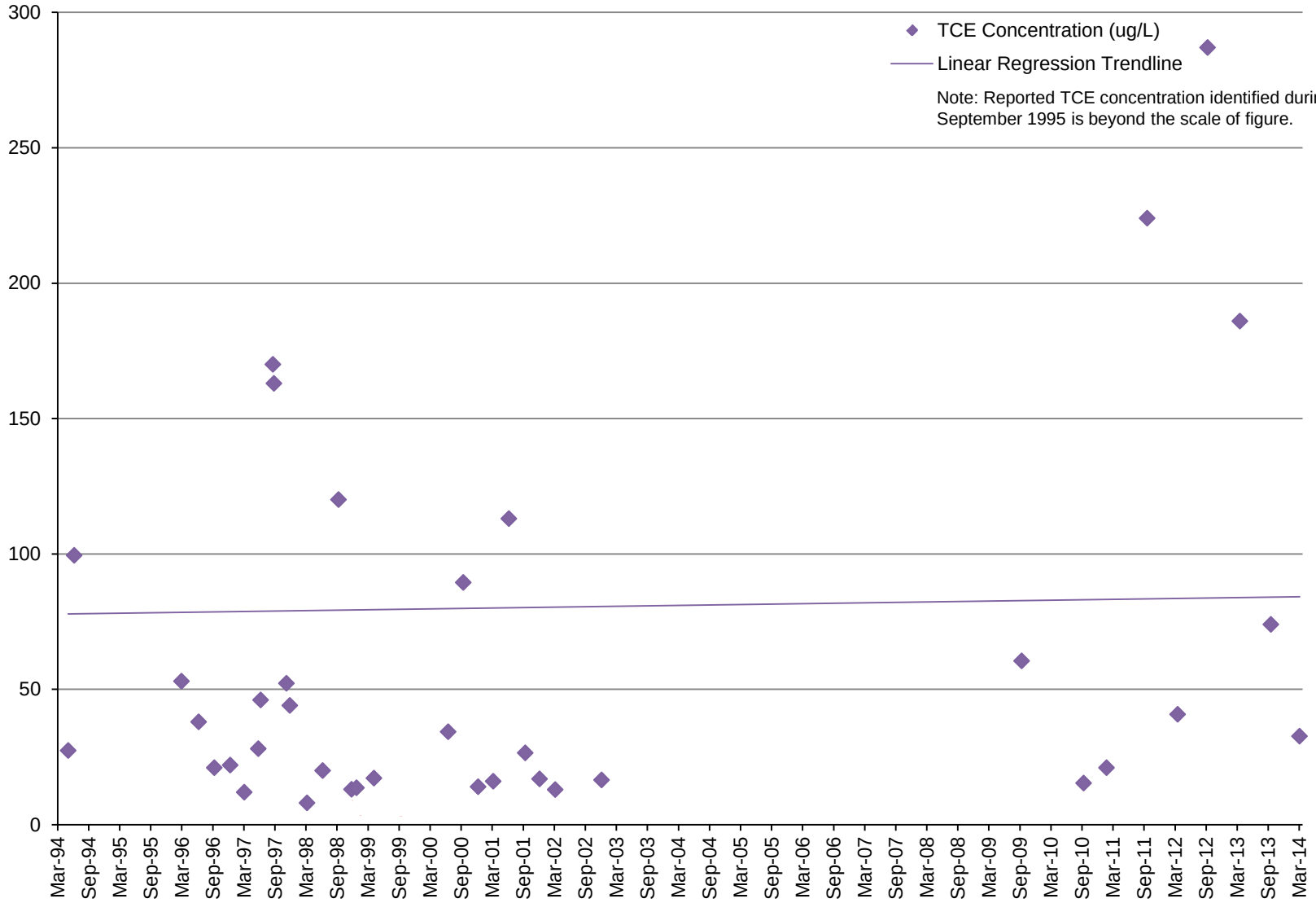


ENVIRON

DRAFTED BY: NJS | DATE: 4/30/2014

Historical June/Sept. Peak 1,1-DCE Concentrations – MW-HD4
101 Green Acres Road – Valley Stream, NY

FIGURE
C-4

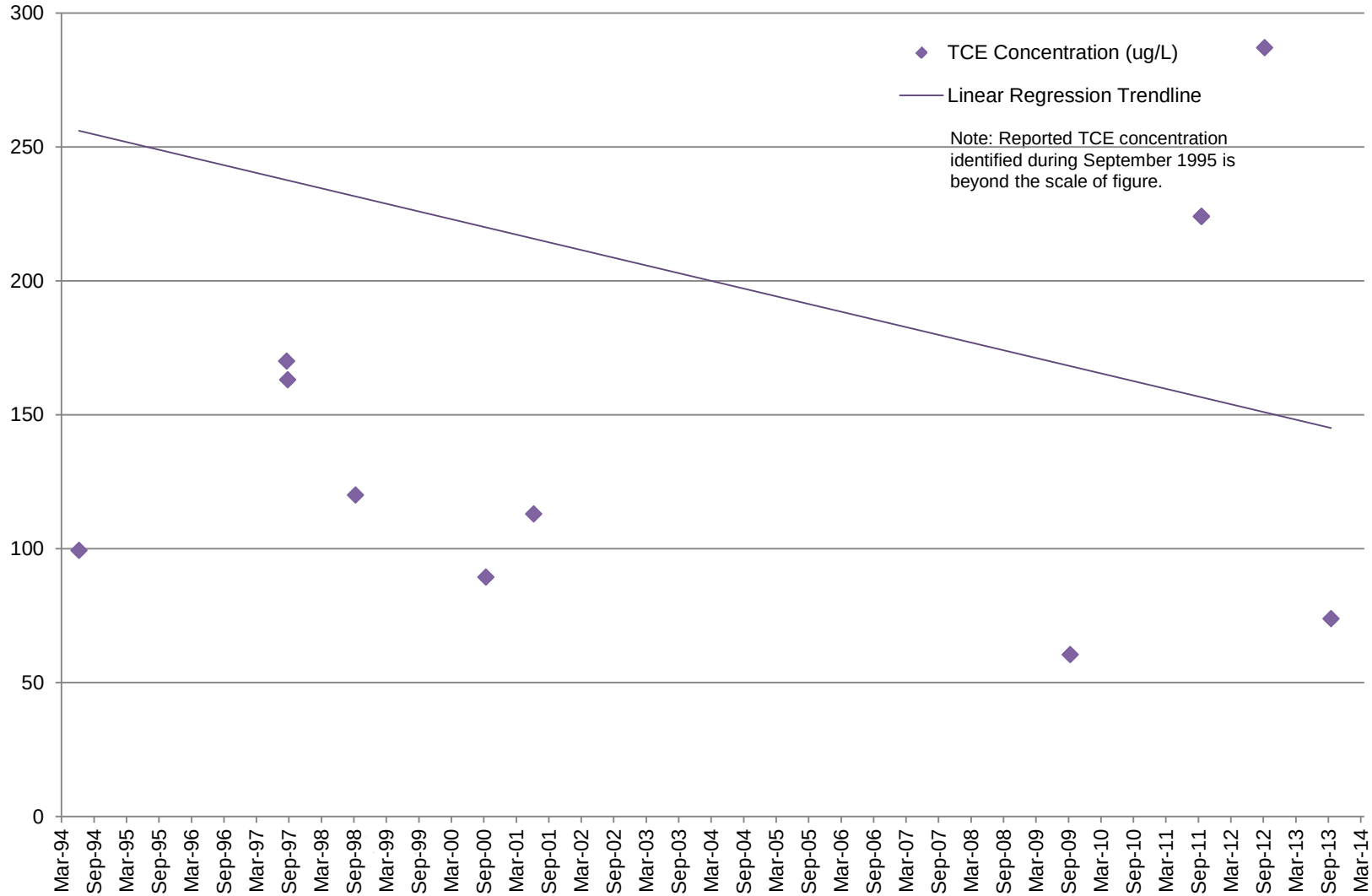


ENVIRON

DRAFTED BY: NJS | DATE: 4/30/2014

Historical TCE Concentrations – MW-HD4
101 Green Acres Road – Valley Stream, NY

FIGURE
C-5



ENVIRON

DRAFTED BY: NJS | DATE: 4/30/2014

Historical June/Sept. Peak TCE Concentrations – MW-HD4
101 Green Acres Road – Valley Stream, NY

FIGURE
C-6

Appendix D

Indoor Air Quality Questionnaire/Building Inventory and Vapor Point Installation Observations

NEW YORK STATE DEPARTMENT OF HEALTH
INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY
CENTER FOR ENVIRONMENTAL HEALTH

This form must be completed for each residence involved in indoor air testing.

Preparer's Name _Will Larrison___ Date/Time Prepared: 10/21/2009, 16:41; other questions via e-mail

Preparer's Affiliation _ENVIRON International Corporation___ Phone No.__609-243-9877_____

Purpose of Investigation_Assessment of potential vapor intrusion_____

1. OCCUPANT:

Interviewed: Y / N

Last Name: _Kuhns_____ First Name: _Jeff_____ (Store Manager)

Address: __101 Green Acres Road, Valley Stream, NY 11581___

County: __Nassau__

Home Phone: _____ Office Phone: 516-823-0700 ext 310

Number of Occupants/persons at this location _____ Age of Occupants _Adults_

2. OWNER OR LANDLORD: (Check if same as occupant ___)

Interviewed: Y / N

Last Name: _____ First Name: _____

Address: _____

County: _____

Home Phone: _____ Office Phone: _____

3. BUILDING CHARACTERISTICS

Type of Building: (Circle appropriate response)

Residential	School	Commercial/Multi-use
Industrial	Church	Other: _____

If the property is residential, type? (Circle appropriate response)

Ranch	2-Family	3-Family
Raised Ranch	Split Level	Colonial
Cape Cod	Contemporary	Mobile Home
Duplex	Apartment House	Townhouses/Condos
Modular	Log Home	Other: NA

If multiple units, how many? _____

If the property is commercial, type?

Business Type(s) Home Improvement Sales

Does it include residences (i.e., multi-use)? Y / N If yes, how many? _____

Other characteristics:

Number of floors 1 Building age 15

Is the building insulated? Y / N How air tight? Tight / Average / Not Tight

4. AIRFLOW

Use air current tubes or tracer smoke to evaluate airflow patterns and qualitatively describe:

Airflow between floors

Airflow near source

Outdoor air infiltration

Infiltration into air ducts

5. BASEMENT AND CONSTRUCTION CHARACTERISTICS (Circle all that apply)

a. Above grade construction:	wood frame	(concrete)	stone	brick
b. Basement type:	full	crawlspace	(slab)	other _____
c. Basement floor:	concrete	dirt	stone	other N/A
d. Basement floor:	uncovered	covered	covered with N/A	
e. Concrete floor:	unsealed	(sealed)?	sealed with Diama-Guard Attache MSDS.	
f. Foundation walls:	poured	block	stone	other N/A
g. Foundation walls:	unsealed	sealed	sealed with N/A	
h. The basement is:	wet	damp	dry	moldy N/A
i. The basement is:	finished	unfinished	partially finished	N/A
j. Sump present?	Y (N)			
k. Water in sump?	Y / N / (not applicable)			

Basement/Lowest level depth below grade: _____(feet)

Identify potential soil vapor entry points and approximate size (e.g., cracks, utility ports, drains)

Some joints and cracks present, but they all appear to be sealed

---

6. HEATING, VENTING and AIR CONDITIONING (Circle all that apply)

Type of heating system(s) used in this building: (circle all that apply – note primary)

(Hot air circulation)	Heat pump	Hot water baseboard	
(Space Heaters)	Stream radiation	Radiant floor	
Electric baseboard	Wood stove	Outdoor wood boiler	Other _____

The primary type of fuel used is:

(Natural Gas)	Fuel Oil	Kerosene
Electric	Propane	Solar
Wood	Coal	

Domestic hot water tank fueled by: Electric

Boiler/furnace located in:	Basement	(Outdoors)	Main Floor	Other_____
Air conditioning:	(Central Air)	Window units	Open Windows	None

Are there air distribution ducts present? Y / N

Describe the supply and cold air return ductwork, and its condition where visible, including whether there is a cold air return and the tightness of duct joints. Indicate the locations on the floor plan diagram.

multiple roof top package units 1-12 have concentric air diffusers low pressure duct systems, units 13-16 have duct systems all in good shape. see attached sketch.

7. OCCUPANCY

Is basement/lowest level occupied? Full-time Occasionally Seldom Almost Never

Level	**General Use of Each Floor (e.g., familyroom, bedroom, laundry, workshop, storage)**
Basement	NA
1st Floor	Home Improvement Sales
2nd Floor	NA
3rd Floor	NA
4th Floor	NA

8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

a. Is there an attached garage? Y / [N] Receiving Docks

b. Does the garage have a separate heating unit? Y / N / [NA]

c. Are petroleum-powered machines or vehicles stored in the garage (e.g., lawnmower, atv, car) [Y] / N / NA
Please specify: Pre-owned equipment sold in store

d. Has the building ever had a fire? Y (N) When? _____

e. Is a kerosene or unvented gas space heater present? Y / [N] Where? _____

f. Is there a workshop or hobby/craft area? [Y] / N Where & Type? _____

g. Is there smoking in the building? Y / [N] How frequently? _____

h. Have cleaning products been used recently? [Y] / N When & Type? Daily, Commercial Cleaning

i. Have cosmetic products been used recently? Y / [N] When & Type? _____

j. Has painting/staining been done in the last 6 months? Y / N Where & When? Nothing by me but store could have?

k. Is there new carpet, drapes or other textiles? Y / [N] Where & When? These items sold in store

l. Have air fresheners been used recently? Y / N When & Type? Store could have?

m. Is there a kitchen exhaust fan? Y / [N] If yes, where vented? _____

n. Is there a bathroom exhaust fan? (Y) / N If yes, where vented? outside

o. Is there a clothes dryer? Y / [N] If yes, is it vented outside? Y / N

p. Has there been a pesticide application? (Y) / N When & Type? See attached

Are there odors in the building? [Y] / N
If yes, please describe: _____

Do any of the building occupants use solvents at work? Y / N
(e.g., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delivery, boiler mechanic, pesticide application, cosmetologist

If yes, what types of solvents are used? _____

If yes, are their clothes washed at work? Y / N

Do any of the building occupants regularly use or work at a dry-cleaning service? (Circle appropriate response)

Yes, use dry-cleaning regularly (weekly) [No]
Yes, use dry-cleaning infrequently (monthly or less) Unknown
Yes, work at a dry-cleaning service

Is there a radon mitigation system for the building/structure? Y / [N] Date of Installation: _____
Is the system active or passive? Active/Passive

9. WATER AND SEWAGE

Water Supply: [Public Water] Drilled Well Driven Well Dug Well Other: _____

Sewage Disposal: [Public Sewer] Septic Tank Leach Field Dry Well Other: _____

10. RELOCATION INFORMATION (for oil spill residential emergency) N/A

a. Provide reasons why relocation is recommended: _____

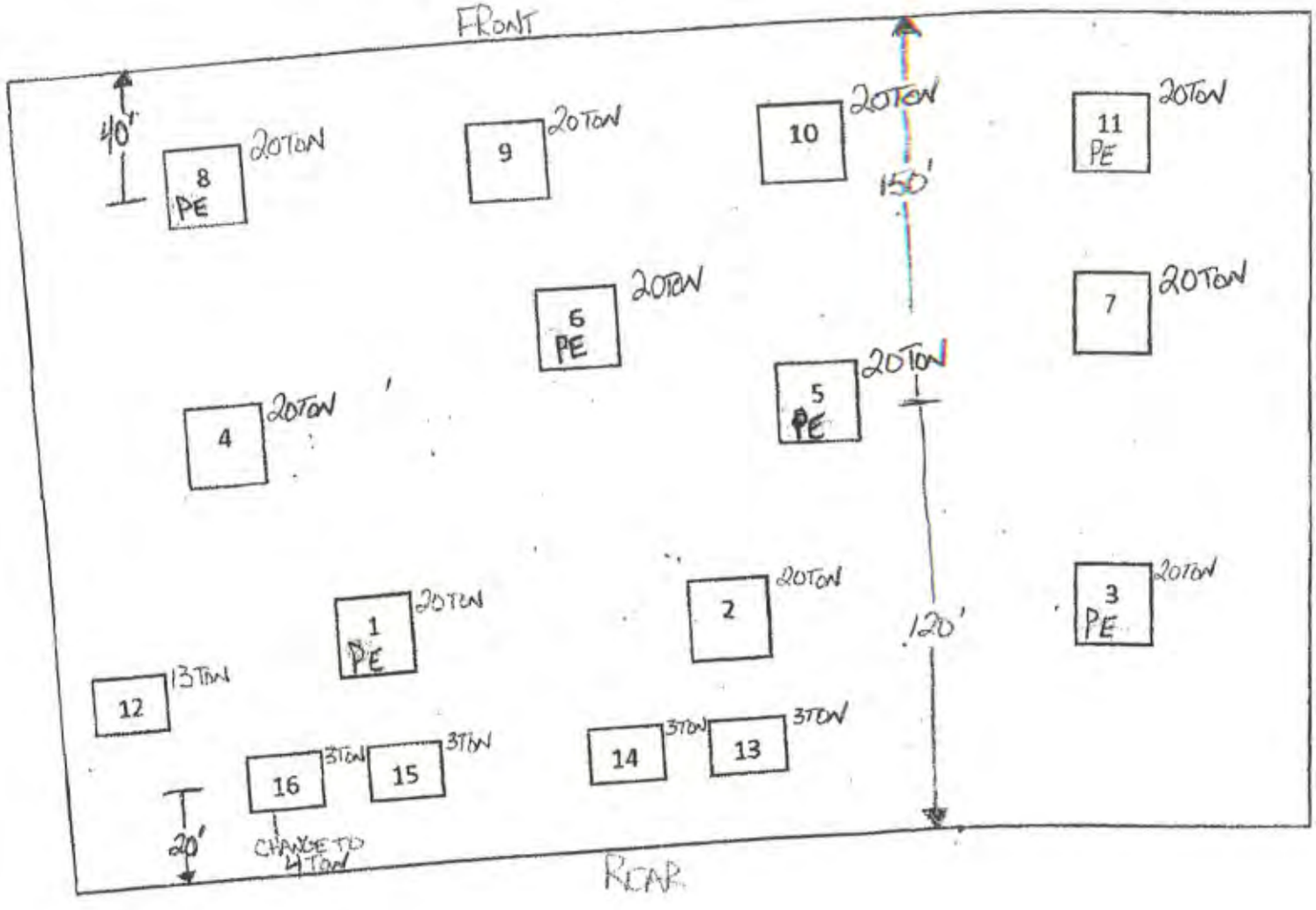
b. Residents choose to: remain in home relocate to friends/family relocate to hotel/motel

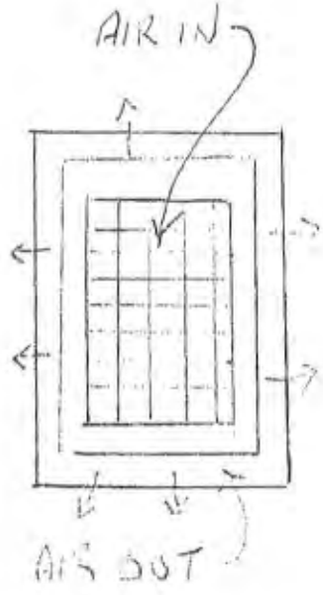
c. Responsibility for costs associated with reimbursement explained? Y / N

d. Relocation package provided and explained to residents? *Y / N*

HOME DEPOT VALLEY STREAM # 1216

RTU Layout





MATERIAL SAFETY DATA SHEET

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: DIAMAGARD

GENERAL USE: Concrete sealer

PRODUCT DESCRIPTION: Clear to light amber liquid, slightly alkaline, may cause eye and skin irritation upon contact.

MANUFACTURER'S NAME DiamaShield	DATE PREPARED: March 10, 2005 SUPERSEDES: NEW	Page 1 of 4
ADDRESS (NUMBER, STREET, P.O. BOX) 32700 Industrial Drive	TELEPHONE NUMBER FOR INFORMATION (800)696.3280	
(CITY, STATE AND ZIP CODE) COUNTRY Madison Heights, MI 48071 USA	EMERGENCY TELEPHONE NUMBER (800) 696.3280	
DISTRIBUTOR'S NAME Same		
ADDRESS (NUMBER, STREET, P.O. BOX)	TELEPHONE NUMBER FOR INFORMATION	
(CITY, STATE AND ZIP CODE) COUNTRY	EMERGENCY TELEPHONE NUMBER	

SECTION 2 - HAZARDOUS INGREDIENTS

HAZARDOUS COMPONENTS	CAS #	% (by weight)	OSHA PEL PPM	OSHA PEL MG/M³	ACGIH TWA PPM	ACGIH TWA MG/M³	SARA TITLE III	RQ LBS
Proprietary Ingredient A (*, a)	Not specified	7 - 13				1*		
Proprietary Ingredient B (a)	Not specified	5 - 10	not established					
Proprietary Ingredient C (a)	Not specified	3 - 7	not established					

(*) The ACGIH Threshold Limit Value (TLV) has not been established nor has OSHA established the Permissible Exposure Limit (PEL) for this product, therefore the limits described have been established as guidelines by the manufacturer.

(a) The specific product is not identified due to "Trade Secret" status. In emergency situations further information may be obtained by the on - duty physician calling the emergency information number listed above. Reference 29 CFR 1910.1200 and / or 40 CFR 350.

SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Alkaline liquid, prolonged contact may cause skin & eye irritation. Ingestion may cause gastric distress. Hazard symbols for this product - None. R-Phrases - Not classified

POTENTIAL HEALTH EFFECTS

INHALATION: Inhalation of mists or vapors may cause irritation to upper respiratory tract and mucous membranes.

SKIN: Contact with skin may cause irritation, dermatitis.

EYES: Contact with eyes may cause pain and irritation.

INGESTION: Irritating to digestive tract; may cause gastric distress, stomach pains.

CARCINOGENICITY NTP? No IARC MONOGRAPHS? No OSHA REGULATED? No

SECTION 4 - FIRST AID MEASURES

INHALATION: Remove affected person to fresh air; wash mouth and nasal passages with water repeatedly; if breathing difficulties persist seek medical attention.

SKIN: Wash contacted area with soap and water; DO NOT attempt to neutralize with chemical agents; if irritation persists, seek medical attention.

EYES: Remove contact lenses. Immediately flush eyes for 15 minutes in clear running water while holding eyelids open; seek medical attention immediately.

INGESTION: Drink large quantities of water or milk; DO NOT induce vomiting; seek medical attention immediately.

SECTION 5 - FIRE FIGHTING MEASURES

FLASH POINT (METHOD USED)	FLAMMABLE LIMITS	LEL: Not applicable	UEL: Not applicable
Non-flammable	AUTOIGNITION TEMPERATURE:	Not determined	NFPA CLASS: None

GENERAL HAZARDS: Product is alkaline. Products of combustion include compounds of carbon, hydrogen and oxygen, including carbon monoxide.

EXTINGUISHING MEDIA
Carbon dioxide, water, water fog, dry chemical, chemical foam

FIRE FIGHTING PROCEDURES
Keep containers cool with water spray to prevent container rupture due to steam buildup; floor will become slippery if material is released. Material is alkaline and will irritate the eyes if product is allowed to directly contact the eyes.

UNUSUAL FIRE AND EXPLOSION HAZARDS
None

HAZARDOUS COMBUSTION PRODUCTS
Smoke, fumes, oxides of carbon

SECTION 6 - ENVIRONMENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Material is alkaline and will irritate the eyes if product is allowed to directly contact the eyes. Wash small spills to sanitary sewer. Large spills - confine spill, soak up with approved absorbent, shovel product into approved container for disposal.

SECTION 7 - HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Keep container closed when not in use; protect containers from abuse; protect from extreme temperatures. Keep this and other chemicals out of reach of children.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS
The use of local exhaust ventilation is recommended. Use corrosion-resistant ventilation equipment.

PERSONAL PROTECTION:
RESPIRATORY PROTECTION (SPECIFY TYPE): None required while threshold limits (Section 2) are kept below maximum allowable concentrations; if TWA exceeds limits, NIOSH approved respirator must be worn. Refer to 29 CFR 1910.134 or European Standard EN 149 for complete regulations.

PROTECTIVE GLOVES: Neoprene or rubber gloves with cuffs.

EYE PROTECTION: Goggles with side shields; safety eyebath nearby.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Coveralls, apron, or other equipment should be worn to minimize skin contact.

WORK / HYGIENIC PRACTICES: Practice safe workplace habits. Minimize body contact with this, as well as all chemicals in general.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

VAPOR PRESSURE (MM Hg) 17 mm Hg @ 20 ° C	VAPOR DENSITY (AIR = 1) < 1
SPECIFIC GRAVITY (WATER = 1) 1.106	EVAPORATION RATE (WATER = 1) < 1
SOLUBILITY IN WATER Appreciable (> 95%)	FREEZING POINT 32°F (0° C)
pH Approximately 11.0	APPEARANCE AND ODOR Clear to light amber liquid, practically odorless
BOILING POINT 212°F (100° C)	PHYSICAL STATE Liquid
VISCOSITY Like that of water	VOLATILE ORGANIC COMPOUNDS (Total VOC's) None

SECTION 10 - STABILITY AND REACTIVITY

STABILITY UNSTABLE: STABLE: XXX	CONDITIONS TO AVOID: Extreme temperatures, keep from freezing

INCOMPATIBILITY (MATERIALS TO AVOID):
Strong oxidizers, strong acids

HAZARDOUS DECOMPOSITION OR BYPRODUCTS: Decomposition will not occur if handled and stored properly. In case of a fire, oxides of carbon and lithium, hydrocarbons, fumes, and smoke may be produced.

HAZARDOUS POLYMERIZATION MAY OCCUR: WILL NOT OCCUR: XXX	CONDITIONS TO AVOID: None

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazardous Ingredients	%	CAS #	LD50 of Ingredient (Specify Species and Route)	LC50 of Ingredient (Specify Species)
Proprietary Ingredient A (*, a)	7 - 13	Not specified	16,540 mg / kg Oral - rat	Not established
Proprietary Ingredient B (a)	5 - 10	Not specified	7460 mg / kg Oral - rat	Not established
Proprietary Ingredient C (a)	3 - 7	Not specified	Not established	Not established

SECTION 12 - ECOLOGICAL INFORMATION

No data are available on the adverse effects of this material on the environment. Neither COD nor BOD data are available. Based on the chemical composition of this product it is assumed that the mixture can be treated in an acclimatized biological waste treatment plant system in limited quantities. However, such treatment should be evaluated and approved for each specific biological system. None of the ingredients in this mixture are classified as a Marine Pollutant.

SECTION 13 - DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Dispose of in accordance with Local, State, and Federal Regulations. Refer to "40 CFR Protection of Environment Parts 260 - 299" for complete waste disposal regulations for alkaline materials. Consult your local, state, or Federal Environmental Protection Agency before disposing of any chemicals.

SECTION 14 - TRANSPORT INFORMATION

PROPER SHIPPING NAME: Not Regulated

HAZARD CLASS / Pack Group: None / None
REFERENCE: Not Applicable
IDENTIFICATION NUMBER: None
LABEL: None Required

IATA HAZARD CLASS / Pack Group: None
IMDG HAZARD CLASS: None
RID/ADR Dangerous Goods Code: None
Canadian TDG Class / Division: None
HAZARD SYMBOLS: None

Note: Transportation information provided is for reference only. Client is urged to consult CFR 49 parts 100 - 177, IMDG, IATA, EC, Canadian TDG, and United Nations TDG information manuals for detailed regulations and exceptions covering specific container sizes, packaging materials and methods of shipping.

SECTION 15 - REGULATORY INFORMATION

TSCA (Toxic substance Control Act)
All components of this product are listed on the U.S. Toxic Substances Control Act Chemical Inventory (TSCA Inventory) or are exempted from listing because a Low Volume Exemption has been granted in accordance with 40 CFR 723.50.

SARA TITLE III (Superfund Amendments and Reauthorization Act)
311/312 Hazard Categories
None

313 Reportable Ingredients:
None

CERCLA (Comprehensive Response Compensation and Liability Act)
None

CPR (Canadian Controlled Products Regulations)
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

IDL (Canadian Ingredient Disclosure List)
Components of this product identified by CAS number and listed on the Canadian Ingredient Disclosure List are shown in Section 2.

DSL / NDSL (Canadian Domestic Substances List / Non-Domestic Substances List)
Components of this product identified by CAS number are listed on the DSL or NDSL and may or may not be listed in Section 2 of this document. Only ingredients classified as "hazardous" are listed in Section 2 unless otherwise indicated.

EINECS (European Inventory of Existing Commercial Chemical Substances)
Components of this product identified by CAS numbers are on the European Inventory of Existing Commercial Chemical Substances.

EC Risk Phrases
Not classified

EC Safety Phrases
S24/25 Avoid contact with skin and eyes
S28 After contact with skin, wash immediately with plenty of soap and water.

SECTION 16 - OTHER INFORMATION

No specific notes.

HMIS HAZARD RATINGS				
	HEALTH	1	0 = INSIGNIFICANT	3 = HIGH
	FLAMMABILITY	0	1 = SLIGHT	4 = EXTREME
	REACTIVITY	0	2 = MODERATE	
	PERSONAL PROTECTIVE EQUIPMENT	C	Safety Glasses, Gloves, Apron	

REVISION SUMMARY: This MSDS has been revised in the following sections:
Section 2, all items proprietary

MSDS Prepared by: Comprehensive Data Base, Inc.
P.O. Box 5604
Lakeland, FL 33807 USA
(863) 644 - 3298 www.compdatabase.com

Pesticide Usage Report

From: 6/1/2009 To: 11/23/2009

HOME DEPOT
101 GREEN ACRES ROAD
VALLEY STREAM, NY 11581

Pesticide Application for Site: Exterior

EPA Reg. Number / Lot Number	Pesticide Name	Device ID	Applicator	Pesticide Type	Amount	Unit of Measure	Conc. %	Date
12455-79	Contrac All-Weather Blox	(Site)	C. Espinal	Rodent Control Bait	3.00	Ounces	1. 00000000	6/10/2009
Target Pest:								
12455-79	Contrac All-Weather Blox	(Site)	C. Espinal	Rodent Control Bait	3.00	Ounces	1. 00000000	6/10/2009
Target Pest:								
12455-79	Contrac All-Weather Blox	(Site)	C. Espinal	Rodent Control Bait	3.00	Ounces	1. 00000000	7/22/2009
Target Pest:								
12455-79	Contrac All-Weather Blox	(Site)	C. Espinal	Rodent Control Bait	3.00	Ounces	1. 00000000	8/26/2009
Target Pest:								
12455-79	Contrac All-Weather Blox	(Site)	C. Espinal	Rodent Control Bait	3.00	Ounces	1. 00000000	8/26/2009
Target Pest:								
12455-79	Contrac All-Weather Blox	(Site)	C. Espinal	Rodent Control Bait	3.00	Ounces	1. 00000000	8/26/2009
Target Pest:								
12455-79	Contrac All-Weather Blox	(Site)	C. Espinal	Rodent Control Bait	3.00	Ounces	1. 00000000	8/26/2009
Target Pest:								
12455-79	Contrac All-Weather Blox	(Site)	C. Espinal	Rodent Control Bait	3.00	Ounces	1. 00000000	8/26/2009
Target Pest:								
7173-258	first strike	(Site)	C. Espinal	Rodent Control Bait	5.00	Grams	1. 00000000	9/30/2009
Target Pest: House Mouse								
7173-258	first strike	(Site)	C. Espinal	Rodent Control Bait	5.00	Grams	1. 00000000	9/30/2009
Target Pest: House Mouse								
7173-258	first strike	(Site)	C. Espinal	Rodent Control Bait	5.00	Grams	1. 00000000	9/30/2009
Target Pest: House Mouse								
7173-258	first strike	(Site)	C. Espinal	Rodent Control Bait	5.00	Grams	1. 00000000	9/30/2009
Target Pest: House Mouse								
7173-258	first strike	(Site)	C. Espinal	Rodent Control Bait	5.00	Grams	1. 00000000	9/30/2009
Target Pest: House Mouse								
7173-258	first strike	(Site)	C. Espinal	Rodent Control Bait	5.00	Grams	1. 00000000	9/30/2009

Pesticide Application for Site: Exterior

EPA Reg. Number / Lot Number	Pesticide Name	Device ID	Applicator	Pesticide Type	Amount	Unit of Measure	Conc. %	Date
Target Pest: House Mouse								
7173-258	first strike	(Site)	C. Espinal	Rodent Control Bait	5.00	Grams	1. 00000000	9/30/2009
Target Pest: House Mouse								
7173-258	first strike	(Site)	C. Espinal	Rodent Control Bait	5.00	Grams	1. 00000000	10/21/2009
Target Pest: House Mouse								
7173-258	first strike	(Site)	C. Espinal	Rodent Control Bait	5.00	Grams	1. 00000000	10/21/2009
Target Pest: House Mouse								
7173-258	first strike	(Site)	C. Espinal	Rodent Control Bait	5.00	Grams	1. 00000000	10/21/2009
Target Pest: House Mouse								
7173-258	first strike	(Site)	C. Espinal	Rodent Control Bait	5.00	Grams	1. 00000000	10/21/2009
Target Pest: House Mouse								
7173-258	first strike	(Site)	C. Espinal	Rodent Control Bait	5.00	Grams	1. 00000000	10/21/2009
Target Pest: House Mouse								

Site Summary

EPA Reg. Number	Pesticide Name	Pesticide Type	Amount	Unit of Measure
12455-79	Contrac All-Weather Blox	Rodent Control Bait	24.00	Ounces
7173-258	first strike	Rodent Control Bait	60.00	Grams

Pesticide Application for Site: Interior -> Break room

EPA Reg. Number / Lot Number	Pesticide Name	Device ID	Applicator	Pesticide Type	Amount	Unit of Measure	Conc. %	Date
7173-258	first strike	(Site)	C. Espinal	Rodent Control Bait	5.00	Grams	1. 00000000	10/7/2009
Target Pest: House Mouse								
7173-258	first strike	(Site)	C. Espinal	Rodent Control Bait	5.00	Grams	1. 00000000	10/7/2009
Target Pest: House Mouse								

Site Summary

EPA Reg. Number	Pesticide Name	Pesticide Type	Amount	Unit of Measure
7173-258	first strike	Rodent Control Bait	10.00	Grams

Pesticide Application for Site: Interior -> General Retail

EPA Reg. Number / Lot Number	Pesticide Name	Device ID	Applicator	Pesticide Type	Amount	Unit of Measure	Conc. %	Date
7173-258	first strike	(Site)	C. Espinal	Rodent Control Bait	5.00	Grams	1. 00000000	10/7/2009
Target Pest: House Mouse								
7173-258	first strike	(Site)	C. Espinal	Rodent Control Bait	5.00	Grams	1. 00000000	10/7/2009
Target Pest: House Mouse								
7173-258	first strike	(Site)	C. Espinal	Rodent Control Bait	5.00	Grams	1. 00000000	10/7/2009
Target Pest: House Mouse								
7173-258	first strike	(Site)	C. Espinal	Rodent Control Bait	5.00	Grams	1. 00000000	10/7/2009
Target Pest: House Mouse								
7173-258	first strike	(Site)	C. Espinal	Rodent Control Bait	5.00	Grams	1. 00000000	10/7/2009
Target Pest: House Mouse								
7173-258	first strike	(Site)	C. Espinal	Rodent Control Bait	5.00	Grams	1. 00000000	10/7/2009
Target Pest: House Mouse								
7173-258	first strike	(Site)	C. Espinal	Rodent Control Bait	5.00	Grams	1. 00000000	10/7/2009
Target Pest: House Mouse								
7173-258	first strike	(Site)	C. Espinal	Rodent Control Bait	5.00	Grams	1. 00000000	10/7/2009
Target Pest: House Mouse								
7173-258	first strike	(Site)	C. Espinal	Rodent Control Bait	5.00	Grams	1. 00000000	11/4/2009
Target Pest: House Mouse								
7173-258	first strike	(Site)	C. Espinal	Rodent Control Bait	5.00	Grams	1. 00000000	11/4/2009
Target Pest: House Mouse								
7173-258	first strike	(Site)	C. Espinal	Rodent Control Bait	5.00	Grams	1. 00000000	11/4/2009
Target Pest: House Mouse								
7173-258	first strike	(Site)	C. Espinal	Rodent Control Bait	5.00	Grams	1. 00000000	11/4/2009
Target Pest: House Mouse								
7173-258	first strike	(Site)	C. Espinal	Rodent Control Bait	5.00	Grams	1. 00000000	11/4/2009
Target Pest: House Mouse								
7173-258	first strike	(Site)	C. Espinal	Rodent Control Bait	5.00	Grams	1. 00000000	11/4/2009

Pesticide Usage Report

From: 6/1/2009 To: 11/23/2009

HOME DEPOT
101 GREEN ACRES ROAD
VALLEY STREAM, NY 11581

Pesticide Application for Site: Interior -> General Retail

EPA Reg. Number / Lot Number	Pesticide Name	Device ID	Applicator	Pesticide Type	Amount	Unit of Measure	Conc. %	Date
Target Pest: House Mouse								

Site Summary

EPA Reg. Number	Pesticide Name	Pesticide Type	Amount	Unit of Measure
7173-258	first strike	Rodent Control Bait	70.00	Grams

Pesticide Application for Site: Interior -> Indoor Lumber

EPA Reg. Number / Lot Number	Pesticide Name	Device ID	Applicator	Pesticide Type	Amount	Unit of Measure	Conc. %	Date
7173-258	first strike	(Site)	C. Espinal	Rodent Control Bait	5.00	Grams	1.00000000	10/7/2009
Target Pest: House Mouse								
7173-258	first strike	(Site)	C. Espinal	Rodent Control Bait	5.00	Grams	1.00000000	10/7/2009
Target Pest: House Mouse								
7173-258	first strike	(Site)	C. Espinal	Rodent Control Bait	5.00	Grams	1.00000000	11/4/2009
Target Pest: House Mouse								
7173-258	first strike	(Site)	C. Espinal	Rodent Control Bait	5.00	Grams	1.00000000	11/4/2009
Target Pest: House Mouse								

Site Summary

EPA Reg. Number	Pesticide Name	Pesticide Type	Amount	Unit of Measure
7173-258	first strike	Rodent Control Bait	20.00	Grams

Copesan SPECIALISTS IN PEST SOLUTIONS   RapidTrax A Copesan Technology

Pesticide Usage Report

From: 6/1/2009   To: 11/23/2009

HOME DEPOT
101 GREEN ACRES ROAD
VALLEY STREAM, NY 11581

Pesticide Application for Site: Interior -> Lawn & Garden

EPA Reg. Number / Lot Number	Pesticide Name	Device ID	Applicator	Pesticide Type	Amount	Unit of Measure	Conc. %	Date
7173-258	first strike	(Site)	C. Espinal	Rodent Control Bait	5.00	Grams	1. 00000000	10/7/2009
Target Pest: House Mouse								
	glue board	(Site)	C. Espinal	Other	1.00		0. 00000000	10/7/2009
Target Pest:								
7173-258	first strike	(Site)	C. Espinal	Rodent Control Bait	5.00	Grams	1. 00000000	10/7/2009
Target Pest: House Mouse								
7173-258	first strike	(Site)	C. Espinal	Rodent Control Bait	5.00	Grams	1. 00000000	10/7/2009
Target Pest: House Mouse								
7173-258	first strike	(Site)	C. Espinal	Rodent Control Bait	5.00	Grams	1. 00000000	10/7/2009
Target Pest: House Mouse								
7173-258	first strike	(Site)	C. Espinal	Rodent Control Bait	5.00	Grams	1. 00000000	11/4/2009
Target Pest: House Mouse								
7173-258	first strike	(Site)	C. Espinal	Rodent Control Bait	5.00	Grams	1. 00000000	11/4/2009
Target Pest: House Mouse								
7173-258	first strike	(Site)	C. Espinal	Rodent Control Bait	5.00	Grams	1. 00000000	11/4/2009
Target Pest: House Mouse								
7173-258	first strike	(Site)	C. Espinal	Rodent Control Bait	5.00	Grams	1. 00000000	11/4/2009
Target Pest: House Mouse								
7173-258	first strike	(Site)	C. Espinal	Rodent Control Bait	5.00	Grams	1. 00000000	11/4/2009
Target Pest: House Mouse								

Site Summary

EPA Reg. Number	Pesticide Name	Pesticide Type	Amount	Unit of Measure
	glue board	Other	1.00	
7173-258	first strike	Rodent Control Bait	45.00	Grams

Pesticide Application for Site: Interior -> Receiving

EPA Reg. Number / Lot Number	Pesticide Name	Device ID	Applicator	Pesticide Type	Amount	Unit of Measure	Conc. %	Date
7173-258	first strike	(Site)	C. Espinal	Rodent Control Bait	5.00	Grams	1. 00000000	10/7/2009
Target Pest: House Mouse								
7173-258	first strike	(Site)	C. Espinal	Rodent Control Bait	5.00	Grams	1. 00000000	10/7/2009
Target Pest: House Mouse								
7173-258	first strike	(Site)	C. Espinal	Rodent Control Bait	5.00	Grams	1. 00000000	10/7/2009
Target Pest: House Mouse								
7173-258	first strike	(Site)	C. Espinal	Rodent Control Bait	5.00	Grams	1. 00000000	10/7/2009
Target Pest: House Mouse								
7173-258	first strike	(Site)	C. Espinal	Rodent Control Bait	5.00	Grams	1. 00000000	10/7/2009
Target Pest: House Mouse								
7173-258	first strike	(Site)	C. Espinal	Rodent Control Bait	5.00	Grams	1. 00000000	11/4/2009
Target Pest: House Mouse								
7173-258	first strike	(Site)	C. Espinal	Rodent Control Bait	5.00	Grams	1. 00000000	11/4/2009
Target Pest: House Mouse								
7173-258	first strike	(Site)	C. Espinal	Rodent Control Bait	5.00	Grams	1. 00000000	11/4/2009
Target Pest: House Mouse								
7173-258	first strike	(Site)	C. Espinal	Rodent Control Bait	5.00	Grams	1. 00000000	11/4/2009
Target Pest: House Mouse								

Site Summary

EPA Reg. Number	Pesticide Name	Pesticide Type	Amount	Unit of Measure
7173-258	first strike	Rodent Control Bait	45.00	Grams

Pesticide Usage Report

From: 6/1/2009 To: 11/23/2009

HOME DEPOT
101 GREEN ACRES ROAD
VALLEY STREAM, NY 11581

Pesticide Application for Site: Interior 1

EPA Reg. Number / Lot Number	Pesticide Name	Device ID	Applicator	Pesticide Type	Amount	Unit of Measure	Conc. %	Date
12455-79	Contrac All-Weather Blox	(Site)	C. Espinal	Rodent Control Bait	3.00	Ounces	1.00000000	6/24/2009
Target Pest:								
12455-79	Contrac All-Weather Blox	(Site)	C. Espinal	Rodent Control Bait	3.00	Ounces	1.00000000	6/24/2009
Target Pest:								
12455-79	Contrac All-Weather Blox	(Site)	C. Espinal	Rodent Control Bait	3.00	Ounces	1.00000000	6/24/2009
Target Pest:								
12455-79	Contrac All-Weather Blox	(Site)	C. Espinal	Rodent Control Bait	3.00	Ounces	1.00000000	6/24/2009
Target Pest:								
12455-79	Contrac All-Weather Blox	(Site)	C. Espinal	Rodent Control Bait	3.00	Ounces	1.00000000	6/24/2009
Target Pest:								
12455-79	Contrac All-Weather Blox	(Site)	C. Espinal	Rodent Control Bait	3.00	Ounces	1.00000000	6/24/2009
Target Pest:								
12455-79	Contrac All-Weather Blox	(Site)	C. Espinal	Rodent Control Bait	3.00	Ounces	1.00000000	6/24/2009
Target Pest:								
12455-79	Contrac All-Weather Blox	(Site)	C. Espinal	Rodent Control Bait	3.00	Ounces	1.00000000	7/8/2009
Target Pest:								
12455-79	Contrac All-Weather Blox	(Site)	C. Espinal	Rodent Control Bait	3.00	Ounces	1.00000000	7/8/2009
Target Pest:								
12455-79	Contrac All-Weather Blox	(Site)	C. Espinal	Rodent Control Bait	3.00	Ounces	1.00000000	7/8/2009
Target Pest:								
12455-79	Contrac All-Weather Blox	(Site)	C. Espinal	Rodent Control Bait	3.00	Ounces	1.00000000	7/8/2009
Target Pest:								
12455-79	Contrac All-Weather Blox	(Site)	C. Espinal	Rodent Control Bait	3.00	Ounces	1.00000000	7/8/2009
Target Pest:								
12455-79	Contrac All-Weather Blox	(Site)	C. Espinal	Rodent Control Bait	3.00	Ounces	1.00000000	7/22/2009
Target Pest:								
12455-79	Contrac All-Weather Blox	(Site)	C. Espinal	Rodent Control Bait	3.00	Ounces	1.00000000	8/12/2009

Pesticide Usage Report

From: 6/1/2009 To: 11/23/2009

HOME DEPOT
101 GREEN ACRES ROAD
VALLEY STREAM, NY 11581

Pesticide Application for Site: Interior 1

EPA Reg. Number / Lot Number	Pesticide Name	Device ID	Applicator	Pesticide Type	Amount	Unit of Measure	Conc. %	Date
Target Pest:								
12455-79	Contrac All-Weather Blox	(Site)	C. Espinal	Rodent Control Bait	3.00	Ounces	1. 00000000	8/12/2009
Target Pest:								
12455-79	Contrac All-Weather Blox	(Site)	C. Espinal	Rodent Control Bait	3.00	Ounces	1. 00000000	8/12/2009
Target Pest:								
12455-79	Contrac All-Weather Blox	(Site)	C. Espinal	Rodent Control Bait	3.00	Ounces	1. 00000000	8/12/2009
Target Pest:								
12455-79	Contrac All-Weather Blox	(Site)	C. Espinal	Rodent Control Bait	3.00	Ounces	1. 00000000	8/12/2009
Target Pest:								
12455-79	Contrac All-Weather Blox	(Site)	C. Espinal	Rodent Control Bait	3.00	Ounces	1. 00000000	8/12/2009
Target Pest:								
12455-79	Contrac All-Weather Blox	(Site)	C. Espinal	Rodent Control Bait	3.00	Ounces	1. 00000000	8/12/2009
Target Pest:								
12455-79	Contrac All-Weather Blox	(Site)	C. Espinal	Rodent Control Bait	3.00	Ounces	1. 00000000	8/12/2009
Target Pest:								
	EcoEMEMPT KO	(Site)	C. Espinal	Other	5.00	Ounces	1. 00000000	9/9/2009
Target Pest: Roaches								
7173-258	first strike	(Site)	C. Espinal	Rodent Control Bait	5.00	Grams	1. 00000000	9/9/2009
Target Pest: House Mouse								
7173-258	first strike	(Site)	C. Espinal	Rodent Control Bait	5.00	Grams	1. 00000000	9/9/2009
Target Pest: House Mouse								
7173-258	first strike	(Site)	C. Espinal	Rodent Control Bait	5.00	Grams	1. 00000000	9/9/2009
Target Pest: House Mouse								
7173-258	first strike	(Site)	C. Espinal	Rodent Control Bait	5.00	Grams	1. 00000000	9/9/2009
Target Pest: House Mouse								
7173-258	first strike	(Site)	C. Espinal	Rodent Control Bait	5.00	Grams	1. 00000000	9/9/2009
Target Pest: House Mouse								
7173-258	first strike	(Site)	C. Espinal	Rodent Control Bait	5.00	Grams	1.	9/9/2009

Pesticide Usage Report

From: 6/1/2009 To: 11/23/2009

HOME DEPOT
101 GREEN ACRES ROAD
VALLEY STREAM, NY 11581

Pesticide Application for Site: Interior 1

EPA Reg. Number / Lot Number	Pesticide Name	Device ID	Applicator	Pesticide Type	Amount	Unit of Measure	Conc. %	Date
							00000000	
Target Pest: House Mouse								
7173-258	first strike	(Site)	C. Espinal	Rodent Control Bait	5.00	Grams	1. 00000000	9/9/2009
Target Pest: House Mouse								
7173-258	first strike	(Site)	C. Espinal	Rodent Control Bait	5.00	Grams	1. 00000000	9/9/2009
Target Pest: House Mouse								
7173-258	first strike	(Site)	C. Espinal	Rodent Control Bait	5.00	Grams	1. 00000000	9/9/2009
Target Pest: House Mouse								
7173-258	first strike	(Site)	C. Espinal	Rodent Control Bait	5.00	Grams	1. 00000000	9/9/2009
Target Pest: House Mouse								

Site Summary

EPA Reg. Number	Pesticide Name	Pesticide Type	Amount	Unit of Measure
	EcoEMEMPT KO	Other	5.00	Ounces
12455-79	Contrac All-Weather Blox	Rodent Control Bait	63.00	Ounces
7173-258	first strike	Rodent Control Bait	50.00	Grams

Facility Summary

EPA Reg. Number	Pesticide Name	Pesticide Type	Amount	Unit of Measure
	EcoEMEMPT KO	Other	5.00	Ounces
	glue board	Other	1.00	
12455-79	Contrac All-Weather Blox	Rodent Control Bait	87.00	Ounces
7173-258	first strike	Rodent Control Bait	300.00	Grams

Appendix E

Building HVAC Maintenance Log

MetroTech
NATIONWIDE HVAC SERVICE
1827 Walden Office Square, Suite 304 • Schaumburg, IL 60173 • 800.416.4822 • Fax 847.882.1058
www.metrotechHVAC.com

1. All of the air handling equipment at this location is inspected on a regular basis and is working to full capacity.

2. We completed the annual cooling start-up PM on April 17th, 2014. This included replacing belts on all RTUs and PRVs, cleaning the coils, cleaning out drain lines and pans, and checking the units over for proper operation.

3. Service and quoted work is completed on demand throughout the year. Please see the attached spreadsheet with a breakdown of the work performed.

Zach Hajduk
Account Manager
Office: 855-258-2251
Cell: 708-703-8233

Work Order	Date Completed	Work Performed
1216001098	7/24/2013	Cleared drain lines on RTUs 13, 14, and 16.
1216001038	7/29/2013	Installed new zone sensor for computer room unit.
WEB-560217	11/29/2013	Arrived on site because front of store was cold. Called EMS to confirm units were calling for heat and found that EMS had them shut off. Asked to turn on. Units fired up.
WEB-603360	1/3/2014	Found receiving heater short cycling. Cleaned flame sensor and tested operation. Heater operating normally.
WEB-702727	2/28/2014	Arrived on site to check training room and break room RTU. Unit was running well upon arrival. Zone temperature was 65 degrees which EMS showed as set point.
WEB-714471	3/10/2014	Entrance heater was not firing correctly. Cleaned flame sensor and unit was firing up normally.
WEB-722510	3/17/2014	Arrived on site because rear lumber heater was in comm loss. Used lift to access unit. Found unit shut off at disconnect. Turned on and monitored. Unit operating normally.
WEB-732955	3/28/2014	Arrived on site and found RTU 13 working correctly. Called EMS to confirm everything was running on their and they did not see any issues.

Appendix F

Summary of Indoor Air Analytical Results

APPENDIX F
Summary of Indoor Air Analytical Results
101 Green Acres Road Site
Valley Stream, New York

Location	ENV-01	ENV-01	ENV-01	ENV-01	ENV-01	ENV01	ENV-02	ENV-02
ENVIRON Sample ID	IA01-091027	IA01-100121	IA01-110203	IA01-120327	IA01-130328	ENV01-140312	IA02-091027	IA02-100121
Date Sampled	10/27/2009	1/21/2010	2/3/2011	3/27/2012	3/28/2013	3/12/2014	10/27/2009	1/21/2010
Matrix	Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air
Comment								
Volatile Organic Compounds								
1,1-Dichloroethane	ND (0.13)	ND (0.13)	ND (0.10)	ND (0.11)	ND (0.81)	ND (0.81)	ND (0.13)	ND (0.13)
1,1-Dichloroethylene	ND (0.17)	ND (0.17)	ND (0.095)	ND (0.18)	ND (0.79)	ND (0.79)	ND (0.17)	ND (0.17)
Freon 113	ND (0.17)	ND (0.17)	ND (0.20)	ND (0.26)	0.77 J (1.5)	2 (1.5)	ND (0.17)	ND (0.17)
1,1,1-Trichloroethane	ND (0.14)	ND (0.14)	ND (0.13)	ND (0.12)	ND (1.1)	ND (1.1)	ND (0.14)	ND (0.14)
Tetrachloroethylene	2.9 (0.14)	4.8 (0.14)	0.35 (0.27)	2.4 (0.19)	0.59 (0.27)	0.95 (0.27)	2.2 (0.14)	2.1 (0.14)
Trichloroethylene	ND (0.10)	1.4 (0.10)	ND (0.13)	ND (0.18)	ND (0.21)	ND (0.21)	ND (0.10)	ND (0.10)

Notes:

1 All concentrations are presented in mg/m^3. Detection limits are in parentheses.

2 Because of significantly different laboratory results between the primary and duplicate samples collected from ENV-04 in March, confirmation samples were collected on April 18, 2013.

Abbreviations:

ND -- Not Detected.
NA -- Not Available.
NC -- Not Calculated.
J -- Estimated Concentration.

APPENDIX F
Summary of Indoor Air Analytical Results
101 Green Acres Road Site
Valley Stream, New York

Location	ENV-02	ENV-02	ENV-02	ENV02	ENV-03	ENV-03	ENV-03	ENV-03
ENVIRON Sample ID	IA02-110203	IA02-120327	IA02-130328	ENV02-140312	IA03-091027	IA03-100121	IA03-110203	IA03-120327
Date Sampled	2/3/2011	3/27/2012	3/28/2013	3/12/2014	10/27/2009	1/21/2010	2/3/2011	3/27/2012
Matrix	Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air
Comment								
Volatile Organic Compounds								
1,1-Dichloroethane	ND (0.10)	ND (0.11)	ND (0.81)	ND (0.81)	ND (0.13)	ND (0.13)	ND (0.10)	ND (0.11)
1,1-Dichloroethylene	ND (0.095)	ND (0.18)	ND (0.79)	ND (0.79)	ND (0.17)	ND (0.17)	ND (0.095)	ND (0.18)
Freon 113	ND (0.20)	0.54 J (0.26)	ND (1.5)	1.9 (1.5)	1.8 (0.17)	ND (0.17)	ND (0.20)	ND (0.26)
1,1,1-Trichloroethane	ND (0.13)	ND (0.12)	ND (1.1)	ND (1.1)	ND (0.14)	ND (0.14)	ND (0.13)	ND (0.12)
Tetrachloroethylene	0.37 (0.27)	1.6 (0.19)	0.75 (0.27)	0.49 (0.27)	2.5 (0.14)	10 (0.14)	0.35 (0.27)	6.2 (0.19)
Trichloroethylene	ND (0.13)	ND (0.18)	0.21 J (0.21)	ND (0.21)	ND (0.10)	ND (0.10)	ND (0.13)	ND (0.18)

Notes:

1 All concentrations are presented in mg/m^3. Detection limits are in parentheses.

2 Because of significantly different laboratory results between the primary and duplicate samples collected from ENV-04 in March, confirmation samples were collected on April 18, 2013.

Abbreviations:

ND -- Not Detected.
NA -- Not Available.
NC -- Not Calculated.
J -- Estimated Concentration.

APPENDIX F
Summary of Indoor Air Analytical Results
101 Green Acres Road Site
Valley Stream, New York

Location	ENV-03	ENV03	ENV-04	ENV-04	ENV-04	ENV-04	ENV-04	ENV-04
ENVIRON Sample ID	IA03-130328	ENV03-140312	IA04-091027	IA04-100121	IA04-110203	IA04-120327	IA04-130328	IA04-130328
Date Sampled	3/28/2013	3/12/2014	10/27/2009	1/21/2010	2/3/2011	3/27/2012	3/28/2013	3/28/2013
Matrix	Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air
Comment								Field Duplicate
Volatile Organic Compounds								
1,1-Dichloroethane	ND (0.81)	ND (0.81)	ND (0.13)	ND (0.13)	ND (0.10)	ND (0.11)	1.8 (0.81)	ND (0.81)
1,1-Dichloroethylene	ND (0.79)	ND (0.79)	ND (0.17)	ND (0.17)	ND (0.095)	ND (0.18)	1.9 (0.79)	ND (0.79)
Freon 113	ND (1.5)	3.6 (1.5)	ND (0.17)	ND (0.17)	ND (0.20)	ND (0.26)	0.77 J (1.5)	ND (1.5)
1,1,1-Trichloroethane	ND (1.1)	ND (1.1)	ND (0.14)	ND (0.14)	ND (0.13)	ND (0.12)	ND (1.1)	ND (1.1)
Tetrachloroethylene	0.95 (0.27)	3 (0.27)	1.5 (0.14)	4.2 (0.14)	0.59 (0.27)	2.2 (0.19)	6.8 (0.27)	0.55 (0.27)
Trichloroethylene	0.27 (0.21)	ND (0.21)	0.23 (0.10)	ND (0.10)	ND (0.13)	ND (0.18)	17 (0.21)	ND (0.21)

Notes:

1 All concentrations are presented in mg/m^3. Detection limits are in parentheses.

2 Because of significantly different laboratory results between the primary and duplicate samples collected from ENV-04 in March, confirmation samples were collected on April 18, 2013.

Abbreviations:

ND -- Not Detected.
NA -- Not Available.
NC -- Not Calculated.
J -- Estimated Concentration.

APPENDIX F
Summary of Indoor Air Analytical Results
101 Green Acres Road Site
Valley Stream, New York

Location	ENV-04	ENV-04	ENV04	ENV04	ENV-05	ENV-05	ENV-05	ENV-05
ENVIRON Sample ID	IA04-130418	IA04-130418D	ENV04-140312	ENV04-140312D	IA05-091027	IA05-100121	IA05-110203	IA05-120327
Date Sampled	4/18/2013	4/18/2013	3/12/2014	3/12/2014	10/27/2009	1/21/2010	2/3/2011	3/27/2012
Matrix	Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air
Comment		Field Duplicate						
Volatile Organic Compounds								
1,1-Dichloroethane	ND (0.81)	ND (0.81)	ND (0.81)	ND (0.81)	ND (0.13)	ND (0.13)	ND (0.10)	ND (0.11)
1,1-Dichloroethylene	ND (0.79)	ND (0.79)	ND (0.79)	ND (0.79)	ND (0.17)	ND (0.17)	ND (0.095)	ND (0.18)
Freon 113	ND (1.5)	ND (1.5)	5 (1.5)	22 (1.5)	ND (0.17)	ND (0.17)	ND (0.20)	ND (0.26)
1,1,1-Trichloroethane	ND (1.1)	ND (1.1)	ND (1.1)	ND (1.1)	ND (0.14)	ND (0.14)	ND (0.13)	ND (0.12)
Tetrachloroethylene	0.63 (0.27)	0.68 (0.27)	1.2 (0.27)	1 (0.27)	1.5 (0.14)	2.3 (0.14)	0.39 (0.27)	1.3 (0.19)
Trichloroethylene	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.10)	ND (0.10)	ND (0.13)	ND (0.18)

Notes:

1 All concentrations are presented in mg/m^3. Detection limits are in parentheses.

2 Because of significantly different laboratory results between the primary and duplicate samples collected from ENV-04 in March, confirmation samples were collected on April 18, 2013.

Abbreviations:

ND -- Not Detected.
NA -- Not Available.
NC -- Not Calculated.
J -- Estimated Concentration.

APPENDIX F
Summary of Indoor Air Analytical Results
101 Green Acres Road Site
Valley Stream, New York

Location	ENV-05	ENV05	ENV-06	ENV-06	ENV-06	ENV-06	ENV-06	ENV06
ENVIRON Sample ID	IA05-130328	ENV05-140312	IA06-091027	IA06-100121	IA06-110203	IA06-120327	IA06-130328	ENV06-140312
Date Sampled	3/28/2013	3/12/2014	10/27/2009	1/21/2010	2/3/2011	3/27/2012	3/28/2013	3/12/2014
Matrix	Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air
Comment								
Volatile Organic Compounds								
1,1-Dichloroethane	ND (0.81)	ND (0.81)	ND (0.13)	ND (0.13)	ND (0.10)	ND (0.11)	ND (0.81)	ND (0.81)
1,1-Dichloroethylene	ND (0.79)	ND (0.79)	ND (0.17)	ND (0.17)	ND (0.095)	ND (0.18)	ND (0.79)	ND (0.79)
Freon 113	ND (1.5)	9.2 (1.5)	ND (0.17)	ND (0.17)	ND (0.20)	ND (0.26)	0.77 J (1.5)	2.8 (1.5)
1,1,1-Trichloroethane	ND (1.1)	ND (1.1)	ND (0.14)	ND (0.14)	ND (0.13)	ND (0.12)	ND (1.1)	ND (1.1)
Tetrachloroethylene	2.1 (0.27)	0.45 (0.27)	1.7 (0.14)	4.3 (0.14)	0.39 (0.27)	2.9 (0.19)	0.57 (0.27)	0.81 (0.27)
Trichloroethylene	ND (0.21)	ND (0.21)	ND (0.10)	ND (0.10)	ND (0.13)	ND (0.18)	ND (0.21)	ND (0.21)

Notes:

1 All concentrations are presented in mg/m^3. Detection limits are in parentheses.

2 Because of significantly different laboratory results between the primary and duplicate samples collected from ENV-04 in March, confirmation samples were collected on April 18, 2013.

Abbreviations:

ND -- Not Detected.
NA -- Not Available.
NC -- Not Calculated.
J -- Estimated Concentration.

Appendix G

Calculated Risk-Based Criterion

APPENDIX G
Calculated Risk-Based Criterion

As NYSDOH has not published an Air Guidance Value for Freon 113, ENVIRON calculated a human health, risk-based indoor air screening criterion to support the evaluation of the indoor air concentration identified during the vapor intrusion investigation. The calculated risk-based criterion of 130 mg/m^3 (*i.e.,,* 130,000 µg/m^3) was used to determine if there is a potential for unacceptable exposures to indoor air, using the assumptions detailed below. As Freon 113 has not been identified as a carcinogen, the criterion was calculated as follows:

$$RBC_{nc} = THQ \times RfC \times \frac{AT_{nc}}{ET \times EF \times ED}$$

Where,

RBC_{nc} is the noncarcinogenic risk-based criterion (mg/m^3),
THQ is the target chemical specific noncancer hazard quotient (*i.e.,* 1),
RfC is the chemical specific reference concentration (mg/m^3),
AT_{nc} is the noncancer averaging time (hours),
ET is the receptors exposure time (hours/day),
EF is the receptors exposure frequency (days/year), and
ED is the receptors exposure duration (years).

The exposure factors used to calculate this criterion, per the equation above, are as follows:

Reference Concentration (RfC)
The NYSDEC (2006) *New York State Brownfield Cleanup Program, Development of Soil Cleanup Objectives, Technical Support Document*, Table 5.1.1-2 does not include inhalation toxicity values for Freon 113. As such, the noncancer inhalation RfC from USEPA's (1997) Health Effects Assessment Summary Tables (HEAST), FY-1997 Update (*i.e.,* 30 mg/m^3) was used for Freon 113.

Averaging Time (AT)
The averaging time used to calculate the criterion for noncarcinogenic constituents is equal to the exposure duration (USEPA 1989).

Exposure Time (ET)
Workers are assumed to be at the Site, indoors and inhaling vapors from site-related sources, for 8 hours per day, per the USEPA-recommended value for full-time workers (USEPA 2009).

Exposure Frequency (EF) and Exposure Duration (ED)
Workers are assumed to be at the Site, indoors for 250 days per year for 25 years. This combination of exposure frequency and exposure duration is expected to be conservative for the amount of time that workers are actually exposed to vapors from site-related sources during indoor activities. USEPA has recommended the use of these values for evaluating high-end routine worker exposures (USEPA 1991).

Appendix H

Data Usability Summary Reports

April 17, 2014

ENVIRON International Corporation
Att: Ms. Lily Diehl, Associate
214 Carnegie Center
Princeton, New Jersey 08540

Re: Bulova Corporation /Valley Stream, NY Site Data Deliverables; Laboratory Job No. JB61748
ENVIRON Project No. : 02-1961B

Dear Mr. Scala,

Enclosed with this cover letter are the results of our data review of the laboratory deliverables pertaining to the referenced site. The review was conducted according to the guidelines established by NYSDEC's Data Usability Summary Review [1] ('DUSR') process; data flags (qualifiers) were assigned to samples based on guidance contained in EPA Region II's data validation guidelines [2].

Site Name: Bulova Corporation, Valley Stream, NY

Fractions	Laboratory:	Accutest Laboratories
Volatile Organics	Matrix:	Aqueous

Reviewer: Chris Taylor
Prepared By: Environmental Quality Associates, Inc.

SECTION A
Sample Information

The above-referenced analytical job number / samples were analyzed by Accutest Laboratories, Dayton, NJ ('Accutest'). Samples were analyzed for volatile organics by EPA SW-846, Method 8260B. Eight aqueous samples, including matrix QC samples (MS/MSD), one trip blank (TB) and one field blank (FB) were collected on 03/12/14, and received at the laboratory under intact custody seal on 03/13/2014 at a recorded temperature of 0.9 degrees C, on ice, in good condition. The chain-of-custody indicated that all samples were (pH) unpreserved.

SECTION B
General Comments

Summary of data completeness and overall quality of data deliverables package
Data deliverables were complete as received.

Overall data quality
Data quality was acceptable, incorporating any applied data qualifiers as detailed in the accompanying QC and calibration summary forms, and discussed in the applicable narrative sections below.

Six target compounds were specified for analysis for these samples, as follow: 1,1-dichloroethane (1,1-dca); 1,1-dichloroethene (1,1-dce); Freon-113; tetrachloroethene (pce); 1,1,1-trichloroethane (1,1,1-tca); trichloroethene (tce).

May 19, 2014

ENVIRON International Corporation
Att: Ms. Lily Diehl, Associate
214 Carnegie Center
Princeton, New Jersey 08540

Re: Bulova Corporation /Valley Stream, NY Site Data Deliverables; Laboratory Job No. JB48726
ENVIRON Project No. : 02-1961B

Dear Ms. Diehl,

Enclosed with this cover letter are the results of our data review of the laboratory deliverables pertaining to the referenced site. The review was conducted according to the guidelines established by NYSDEC's Data Usability Summary Review [1] ('DUSR') process; data flags (qualifiers) were assigned to samples based on guidance contained in EPA Region II's data validation guidelines [2].

Site Name: Bulova Corporation, Valley Stream, NY

Fractions	Laboratory:	Accutest Laboratories
Volatile Organics	Matrix:	Aqueous

Reviewer: Chris Taylor
Prepared By: Environmental Quality Associates, Inc.

SECTION A
Sample Information

The above-referenced analytical job number / samples were analyzed by Accutest Laboratories, Dayton, NJ ('Accutest'). Samples were analyzed for volatile organics by EPA SW-846, Method 8260B. Eight aqueous samples, including matrix QC samples (MS/MSD), one trip blank (TB) and one field blank (FB) were collected on 09/26/2013, and received at the laboratory under intact custody seal on 09/26/2013 at a recorded temperature of 1.3 degrees C, on ice, in good condition. The chain-of-custody indicated that all samples were (pH) unpreserved.

SECTION B
General Comments

Summary of data completeness and overall quality of data deliverables package
Data deliverables were complete as received.

Overall data quality
Data quality was acceptable, incorporating any applied data qualifiers as detailed in the accompanying QC and calibration summary forms, and discussed in the applicable narrative sections below.

Six target compounds were specified for analysis for these samples, as follow: 1,1-dichloroethane (1,1-dca); 1,1-dichloroethene (1,1-dce); Freon-113; tetrachloroethene (pce); 1,1,1-trichloroethane (1,1,1-tca); trichloroethene (tce).

SECTION C
Volatile Organic Fraction

NYSDEC-ASP holding times from lab receipt to analysis were met in all samples; as were EPA technical holding times from sample collection to analysis. As noted above, all samples were pH unpreserved; all samples were analyzed within seven days of collection, which negates the need for acid preservation.

Surrogate recoveries, blank spike recoveries, matrix spike (MS) and matrix spike duplicate (MSD) recoveries, instrument tune parameters and internal standard recoveries and retention times were within acceptable limits, with the following exceptions: the MS and/or MSD recoveries of 1,1-dichloroethene (49%) and Freon-113 (33%, 31%) in parent sample JB48726-2 (MWHD6) were below the respective laboratory-derived lower limits for these compounds of 50% and 43%.

- QA Action: reported results for 1,1-dichloroethene and Freon-113 are qualified as quantitatively estimated (UJ) in parent sample MWHD6 only, with indication of potential low bias on the reported RL value, due to matrix interference.

All batch method blanks and the trip and field blanks were reported free of contamination.

Initial calibration (ICAL) %RSD values and relative response factors for target compounds and method CCC and SPCC compounds were within acceptable limits.

For the continuing calibration (CCAL) of 10/01/13 (4D40846.D), calibration performance criteria for target compounds were within limits.

Target compounds which were reported as positives were qualitatively verified from chromatograms and associated mass spectra against standard materials. A reported positive value was verified from the raw data and is shown in the QC/Cal summary attached. It is noted that sample JB48726-6 (MWHD4-130926) was analyzed at a 5x dilution in order to bring the response of 1,1,1-tca into detector scaling range; reported RL values for target compounds in this sample were adjusted upward accordingly on the report of analysis.

SECTION D
Overall Recommendations

The results of the review and qualification process for the above analytical fractions and associated samples are summarized on the attached QC and Calibration summary tables, in order to facilitate the end-user's' review of these data. Any required data qualifiers have been applied directly to the laboratory Form 1s associated with affected samples.

Very truly yours,
Environmental Quality Associates, Inc.

Chris W. Taylor
Vice President

/cwt
Attachments

[1] NYSDEC Draft DER-10, Technical Guidance for Site Investigation and Remediation, Appendix 2B, "Guidance for the Development of Data Usability Summary Reports", December 2002

[2] EPA Region II, SOP HW-24, Rev. #2, "Validating Organic Compounds by SW-846 Method 8260B", October, 2006

SUMMARY OF CALIBRATION AND QC PROCEDURES
EPA SW-846 METHOD 8260B, GC-MS VOLATILES

Calibration or QC Check	Minimum Frequency	Acceptance Criteria	QC Non-Compliance Description	Data Qualification Action[1]
Sample Preservation	All samples	Water: 4°C, $Na_2S_2O_3$, HCl to pH<2 Soil & Other: 4°C	None found *Note: all samples were noted as pH unpreserved*	*n/a all samples analyzed w/in 7 days of collection*
Holding Times	All samples	Water: 14 days	None found	
		Soil: 14 days (if samples maintained at 4°)		
MS Tuning	Every 12 hours, prior to calibrations	Method 8260B, Table 4 criteria	None found	
Initial Calibration	Prior to sample analysis, and whenever continuing calibrations fail to meet acceptance criteria (minimum 5 levels)	SPCC average RRF >0.300 (chlorobenzene & 1122-tca) & >0.100 for other 3 SPCC CCC RRF %RSD<30, and (a) linear : mean RSD all analytes ≤15% w/ no single analyte >30%, or (b) regression : r ≥ 0.99 for each affected analyte	None found *Note: samples were analyzed only for project-specific COPCs : 1,1-diClethane, 1,1-diClethene, Freon113, tetraClethene, 1,1,1-triClethane and triClethene*	
Retention Time Windows	Each sample analyzed	Relative retention time (RRT) of each positive analyte within ± 0.06 of associated IS RRT	None found	
Method Blank / Trip Blank	After ICV or CCV, before sample analysis, minimum one per analytical batch/ Trip Blank per cooler	No analytes detected ≥ PQL for method blank.	V4D1843-MB none found TB130926 none found FB130926 none found	
Continuing Calibration Verification (CCV)	Daily, before sample analysis, and after each successive 12 hours of sample analysis	SPCC average RRF >0.300 (chlorobenzene & 1122-tca) & >0.100 for other 3 SPCC CCC RRF %D<20, and all analytes within ± 20% of expected value	Refer to Cal Summary on Sheet 3 for details	Refer to Cal Summary on Sheet 3 for details

Notes:
[1] See DV report for details.

SUMMARY OF CALIBRATION AND QC PROCEDURES
EPA SW-846 METHOD 8260B, GC-MS VOLATILES

Calibration or QC Check	Minimum Frequency	Acceptance Criteria	QC Non-Compliance Description	Data Qualification Action[1]
Surrogate Compound Spike	Every sample, spiked sample, blank and standard	All analytes recovered within lab-established recovery ranges (see SW-846, Method 8000B, Sect. 8.7)	None found	
Internal Standards (IS)	Every sample, spiked sample, blank and standard	Retention time (RT): ± 30 seconds from RT of IS in ICAL midpoint standard	None found	
		IS area: between -50% and +100% of IS area in ICAL midpoint standard	None found	
Laboratory Control Sample (LCS)	Once per each analytical batch (should include all reported analytes), and should be prepared independently from calibration standards	All analytes recovered within 70 - 130% of expected (true) value, or recovery within laboratory-derived statistical limits	V4D1843-BS none found	
Matrix Spike / Matrix Spike Duplicate (MS/MSD)	Once per each 20 samples (should include all reported analytes), and should be prepared independently from calibration standards	All analytes recovered within laboratory-derived statistical limits for each matrix type, and	JB48726-2 recovery low 1,1-dichloroethene 49/50% Freon-113 33,31/43%	DV-flag 1,1-dce and Freon-113 estimated (UJ, J) in parent sample (JB48726-2) only, w/ indication of low bias
		%RPD between MS/MSD below laboratory-derived statistical limits	JB48726-2 RPD OK	n/a

Notes:
[1] See DV report for details.

Initial Calibration

Calibration Date: Lab File IDs :	09/11/13 4D40012-21.D	
CCC RSDs ≤ 30%? SPCC RRFs > specd. values ? All Target Mean RSD <15%? If No, was regression used ? If regression used, r ≥ 0.99 ? Qualification Action:	yes yes yes n/a n/a n/a	
Affected Samples:	All SDG samples	

Continuing Calibrations

	Cal 1			
Calibration Date: Lab File ID :	10/01/13 4D40846.D			
CCC %Ds ≤ 20%? SPCC RRFs > specd. values ? All Target %D <20%? If No, list target analytes >20%:	yes yes yes			
Analytical Bias: Qualification Action:	n/a n/a			
Affected Samples:	All SDG samples			

Sample Result Confirmation

Sample ID: JB48726-6 (MWHD4-130926)
Compound: 1,1,1-trichloroethane IS: pentafluorobenzene
Reported concentration: **895** µg/L File ID: 4D40859.D

	Ax	IS	Df
Concentration, µg/L =	575391	50	5
	232488	0.691	
	Ais	RRF	

Concentration, µg/L = **895**

Result Confirmed? Yes

Reviewer comments : calcs are based on 5.0 mL initial sample purge volume

where:
Ax = area response of target quant ion
IS = mass of internal standard injected, ng
Df = dilution factor

Ais = area response of internal standard quant ion
RRF = ICAL average relative response factor

SECTION C
Volatile Organic Fraction

NYSDEC-ASP holding times from lab receipt to analysis were met in all samples; as were EPA technical holding times from sample collection to analysis. As noted above, all samples were pH unpreserved; all samples were analyzed within seven days of collection, which negates the need for acid preservation.

Surrogate recoveries, blank spike recoveries, matrix spike (MS) and matrix spike duplicate (MSD) recoveries, instrument tune parameters and internal standard recoveries and retention times were within acceptable limits.

All batch method blanks and the trip and field blanks were reported free of contamination.

Initial calibration (ICAL) %RSD values and relative response factors for target compounds and method CCC and SPCC compounds were within acceptable limits.

For the continuing calibration (CCAL) of 03/14/14 (U181639.D), calibration performance criteria for target compounds were within limits.

Target compounds which were reported as positives were qualitatively verified from chromatograms and associated mass spectra against standard materials. A reported positive value was verified from the raw data and is shown in the QC/Cal summary attached.

SECTION D
Overall Recommendations

The results of the review and qualification process for the above analytical fractions and associated samples are summarized on the attached QC and Calibration summary tables, in order to facilitate the end-user's' review of these data. Any required data qualifiers have been applied directly to the laboratory Form 1s associated with affected samples.

Very truly yours,
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Chris W. Taylor
Vice President

/cwt
Attachments

[1] NYSDEC Draft DER-10, Technical Guidance for Site Investigation and Remediation, Appendix 2B, "Guidance for the Development of Data Usability Summary Reports", December 2002

[2] EPA Region II, SOP HW-24, Rev. #2, "Validating Organic Compounds by SW-846 Method 8260B", October, 2006

SUMMARY OF CALIBRATION AND QC PROCEDURES
EPA SW-846 METHOD 8260B, GC-MS VOLATILES

Calibration or QC Check	Minimum Frequency	Acceptance Criteria	QC Non-Compliance Description	Data Qualification Action[1]
Sample Preservation	All samples	Water: 4°C, $Na_2S_2O_3$, HCl to pH<2 Soil & Other: 4°C	None found *Note: all samples were noted as pH unpreserved*	*n/a all samples analyzed w/in 7 days of collection*
Holding Times	All samples	Water: 14 days (7 days max. if not pH preserved)	None found	
		Soil: 14 days (if samples maintained at 4°)		
MS Tuning	Every 12 hours, prior to calibrations	Method 8260B, Table 4 criteria	None found	
Initial Calibration	Prior to sample analysis, and whenever continuing calibrations fail to meet acceptance criteria (minimum 5 levels)	SPCC average RRF >0.300 (chlorobenzene & 1122-tca) & >0.100 for other 3 SPCC CCC RRF %RSD<30, and (a) linear : mean RSD all analytes ≤15% w/ no single analyte >30%, or (b) regression : r ≥ 0.99 for each affected analyte	None found *Note: samples were analyzed only for project-specific COPCs : 1,1-diClethane, 1,1-diClethene, Freon113, tetraClethene, 1,1,1-triClethane and triClethene*	
Retention Time Windows	Each sample analyzed	Relative retention time (RRT) of each positive analyte within ± 0.06 of associated IS RRT	None found	
Method Blank / Trip Blank	After ICV or CCV, before sample analysis, minimum one per analytical batch/ Trip Blank per cooler	No analytes detected ≥ PQL for method blank.	VU8388-MB none found Trip & Field Blanks none found	
Continuing Calibration Verification (CCV)	Daily, before sample analysis, and after each successive 12 hours of sample analysis	SPCC average RRF >0.300 (chlorobenzene & 1122-tca) & >0.100 for other 3 SPCC CCC RRF %D<20, and all analytes within ± 20% of expected value	Refer to Cal Summary on Sheet 3 for details	Refer to Cal Summary on Sheet 3 for details

Notes:
[1] See DV report for details.

SUMMARY OF CALIBRATION AND QC PROCEDURES
EPA SW-846 METHOD 8260B, GC-MS VOLATILES

Calibration or QC Check	Minimum Frequency	Acceptance Criteria	QC Non-Compliance Description	Data Qualification Action[1]
Surrogate Compound Spike	Every sample, spiked sample, blank and standard	All analytes recovered within lab-established recovery ranges (see SW-846, Method 8000B, Sect. 8.7)	None found	
Internal Standards (IS)	Every sample, spiked sample, blank and standard	Retention time (RT): ± 30 seconds from RT of IS in ICAL midpoint standard	None found	
		IS area: between -50% and +100% of IS area in ICAL midpoint standard	None found	
Laboratory Control Sample (LCS)	Once per each analytical batch (should include all reported analytes), and should be prepared independently from calibration standards	All analytes recovered within 70 - 130% of expected (true) value, or recovery within laboratory-derived statistical limits	VU8388-BS none found	
Matrix Spike / Matrix Spike Duplicate (MS/MSD)	Once per each 20 samples (should include all reported analytes), and should be prepared independently from calibration standards	All analytes recovered within laboratory-derived statistical limits for each matrix type, and	JB61748-2 none found	
		%RPD between MS/MSD below laboratory-derived statistical limits	JB61748-2 none found RPD values OK	

Notes:
[1] See DV report for details.

SUMMARY OF CALIBRATION AND QC PROCEDURES
EPA SW-846 METHOD 8260B, GC-MS VOLATILES

Initial Calibration

Calibration Date:	02/21/14	
Lab File IDs :	U180930-39.D	
CCC RSDs ≤ 30%?	yes	
SPCC RRFs > specd. values ?	yes	
All Target Mean RSD <15%?	yes	
If No, was regression used ?	n/a	
If regression used, r ≥ 0.99 ?	n/a	
Qualification Action:	n/a	
Affected Samples:	All SDG samples	

Continuing Calibrations

Calibration Date:	03/14/14		
Lab File ID :	U181639.D		
CCC %Ds ≤ 20%?	yes		
SPCC RRFs > specd. values ?	yes		
All Target %D <20%?	yes		
If No, list target analytes >20%:			
Analytical Bias:	n/a		
Qualification Action:	n/a		
Affected Samples:	JB61748-1-6 JB61748-2MS,MSD		

Sample Result Confirmation

Sample ID: JB61748-3 (MWHD4-140312)
Compound: 1,1,1-tca IS: pentafluorobenzene
Reported concentration: **111** µg/L File ID: U181655.D

Concentration, µg/L =	Ax	IS	Df
	334824	50	1
	228103	0.659	
	Ais	RRF	

Concentration, µg/L = **111.4**

Result Confirmed? Yes

Reviewer comments : calcs are based on 5.0 mL initial sample purge volume

where:
Ax = area response of target quant ion
IS = mass of internal standard injected, ng
Df = dilution factor

Ais = area response of internal standard quant ion
RRF = ICAL average relative response factor

April 17, 2014

ENVIRON International Corporation
Att: Ms. Lily Diehl, Associate
214 Carnegie Center
Princeton, New Jersey 08540

Re: Bulova Corporation /Valley Stream, NY Site Data Deliverables; Laboratory Job No. JB61746
ENVIRON Project No. : 02-1961B

Dear Ms. Diehl,

Enclosed with this cover letter are the results of our data review of the laboratory deliverables pertaining to the referenced site. The review was conducted according to the guidelines established by NYSDEC's Data Usability Summary Review [1] ('DUSR') process; any data flags (qualifiers) which are assigned to samples are based on guidance contained in EPA Region II's data validation guidelines [2].

Site Name: Bulova Corporation, Valley Stream, NY

Fractions	Laboratory:	Accutest Laboratories
Volatile Organics	Matrix:	Air

Reviewer: Chris Taylor
Prepared By: Environmental Quality Associates, Inc.

SECTION A
Sample Information

The above-referenced analytical job number / samples were analyzed by Accutest Laboratories, Dayton, NJ ('Accutest'). Samples were analyzed for volatile organics by EPA Compendium Method TO-15. Eight samples were collected in 6-liter canisters on 03/12/2014, and received at the laboratory on 03/13/2014.

SECTION B
General Comments

Summary of data completeness and overall quality of data deliverables package
Data deliverables were complete as received.

Overall data quality
Data quality was acceptable, as detailed in the accompanying QC and calibration summary forms, and discussed in the applicable narrative sections below.

Six target compounds were specified for analysis for these samples, as follow: 1,1-dichloroethane (1,1-dca); 1,1-dichloroethene (1,1-dce); Freon-113; tetrachloroethene (pce); 1,1,1-trichloroethane (1,1,1-tca); trichloroethene (tce).

All reported target compounds in SDG field samples were within calibrated range as initially analyzed; no sample volume dilutions were necessary.

SECTION C
Data Quality Assessment – TO-15

HOLDING TIMES
Method specified holding times from collection to analysis (30 days maximum) were met for all samples.

SAMPLE CONDITION

Sample condition and canister pressures (in and out) were documented and were acceptable.

METHOD BLANKS

Method blanks associated with submitted sample canisters were reported free of target and non-target contamination.

SURROGATE & INTERNAL STANDARD COMPOUNDS

Surrogate recoveries were within laboratory established limits for this sample set. It is noted that method and NYSDEC guidance do not require surrogate spikes for TO-15 canisters.

Internal standard (IS) recoveries were within the +/- 40% limits specified by the method for all associated samples and QC samples. All IS retention times were within acceptable range.

INSTRUMENT PERFORMANCE CHECK

Instrument tuning parameters for BFB were within method limits and performed within required frequency.

INITIAL CALIBRATION

The target compound %RSD values in the ICAL sequence of 03/14-15/2014 were within method-specified limits of maximum 30% RSD.

All reported individual and average RRF values for target compounds were above minimum required values.

CALIBRATION VERIFICATION

Calibration verification metrics for the continuing calibrations on 03/20/2014 and 03/21/2014 were within acceptable limits.

LABORATORY REPLICATES

Precision results for laboratory batch replicates of samples JB32810-1 and JB32810-7 were within applicable limits of < analyte RL values, with the following exception: Freon-113 exceeded the laboratory precision limit.

No action was taken, since the batch duplicate parent sample was not from this SDG.

FIELD DUPLICATES

Samples JB61746-4 (ENV04-140312) and JB61746-5 (ENV04-140312D) are collocated samples. The calculated precision values are presented in the QC/Cal summary, sheet 4. No QA action was taken, since standards have not been established.

LABORATORY BLANK SPIKES / BLANK SPIKE DUPLICATES

Duplicates of Blank Spike samples were performed for the analytical batch run associated with site samples. Recoveries and duplicate precision results were within acceptable limits.

SAMPLE RESULT VERIFICATION

Target compounds which were reported as positives were qualitatively verified from chromatograms and associated mass spectra against standard materials. A reported positive value was quantitatively verified from the raw data and is shown in the QC/Cal summary attached.

SECTION D
Overall Recommendations

The results of the review and qualification process for the above analytical fractions and associated samples are summarized on the attached QC and Calibration summary tables, in order to facilitate the end-user's' review of these data. Based on the review as performed and described herein, no data validation qualifiers were necessary for any SDG samples.

Very truly yours,
Environmental Quality Associates, Inc.

Chris W. Taylor
Vice President

/cwt
Attachments

[1] NYSDEC Draft DER-10, Technical Guidance for Site Investigation and Remediation, Appendix 2B, "Guidance for the Development of Data Usability Summary Reports", December 2002

[2] EPA Region II, SOP #HW-31, Rev. #4, "Validating Air Samples, Volatile Organic Analysis of Ambient Air in Canister by Method TO-15", October, 2006

CALIBRATION AND QC SUMMARY
EPA METHOD TO-15, GC-MS VOLATILES

Calibration or QC Check	Minimum Frequency	Acceptance Criteria	QC Non-Compliance Description	Data Qualification Action[1]
Sample Preservation	All samples	Certified clean & leak-free canisters per method	None found	
Holding Times	All samples	Analysis within 30 days from collection	None found	
MS Tuning	Every 24 hours, prior to calibrations	Method TO-15, Sect. 10.4 and Table 3 criteria	None found	
Initial Calibration	Prior to sample analysis, and whenever continuing calibrations fail to meet acceptance criteria (minimum 5 levels)	RSD of mean RRF each target must be $\leq$ 30.0% Note: Linear regression is optional for targets w/ RSD >30%; r must be >0.99	None found	
Retention Time Windows	Each sample analyzed	Relative retention time (RRT) of each positive analyte within $\pm$ 0.06 of associated IS RRT	None found	
Continuing Calibration Verification (CCV)	Daily, before sample analysis, and after each successive 24 hours of sample analysis	Response %D for each Target must be $\leq$ 30.0% $\%D = \frac{RRFc - RRFi}{RRFi} * 100$	None found	
		$\%D = \frac{True - Found}{True\ Value} * 100$	n/a	
Method Blank (certified clean canister; w/ ultra-pure zero air)	After ICV or CCV, before sample analysis, minimum once per 24-hour period	No analytes detected $\geq$ PQL* for method blank * PQL = 3x MDL	V2W1697-MB All targets ND JB61746- 1-6	
			V2W1698-MB All targets ND JB61746- 7-8	

Notes:
[1] See DV report for details.

Data Reviewer: Chris Taylor
For: ENVIRON_Princeton, NJ

Calibration or QC Check	Minimum Frequency	Acceptance Criteria	QC Non-Compliance Description	Data Qualification Action[1]
Surrogates	Note: per NYSDEC and method guidance, use of surrogates for TO-15 is not required	All surrogates recovered within 70 - 130% of expected (true) value, or recovery within laboratory-derived statistical limits	None found	
Internal Standards (IS)	Every sample, blank and standard	Retention time (RT): ± 20 seconds max from CCAL or average of ICAL	None found	
		IS area: max. ± 40% from corresponding CCAL	None found	
Laboratory Control Sample (LCS) aka Laboratory-Fortified Blank (LFB) aka Blank Spike	Once per each analytical batch (should include all reported analytes), and should be prepared independently from calibration standards	All analytes recovered within 70 - 130% of expected (true) value, or recovery within laboratory-derived statistical limits	V2W1697-BS/BSD None found JB61746- 1-6	
			V2W1698-BS/BSD None found JB61746- 7-8	
Field Duplicates	As submitted to laboratory and identified to reviewer	Not established; use lab-derived limits. Calculate and report RPD or difference values.	JB61746-4,-5 ENV04, ENV04D results presented difference >RL for Freon-113 (2.3 ppv vs. 0.20 ppbv RL)	No action taken See calculated results on page 4
Lab Duplicates	As analyzed by laboratory	Not established; use lab-derived limits.	JB61554-11 / -11DUP Samples not from this SDG; Freon 113 precision value exceeded lab limit	No action taken since batch dupe parent sample was not from this SDG

Notes:
[1] See DV report for details.

Data Reviewer: Chris Taylor
For: ENVIRON_Princeton, NJ

Initial Calibration

Calibration Date:	03/14/14	
Lab File IDs :	2W40570-74; 76-78; 80; 82.D	
RRFs > specd. values ?	yes	
Target RSDs ≤ 30%?	yes	
If No, was regression used ?	n/a	
If regression used, r ≥ 0.99 ?		
If No, list compounds :		
Analytical Bias:		
Qualification Action:	n/a	
Affected Samples:	All field samples	

Comments :

Continuing Calibrations

Calibration Date:	03/20/14	03/21/14	
Lab File ID :	2W40700.D	2W40728.D	
All Target %Ds ≤ 30%?	yes	yes	
If No, list target analytes >30%:			
Analytical Bias:	n/a	n/a	
Qualification Action:	n/a	n/a	
Affected Samples:	JB61746- 1-6	JB61746- 7-8	

Data Reviewer: Chris Taylor
For: ENVIRON_Princeton, NJ

Sample Result Verification

Sample ID:	ENV03-140312	JB61746-3		2W40722.D
Compound:	tetrachloroethene	(MW = 165.8)	IS:	chlorobenzene-d5
Reported concentration:	0.44	ppbv	Vol =	400 mL
	3.0	ug/m^3		

	Ax	IS	DF
Concentration, ppbv =	14619	10.0	1
	275646	1.193	
	Ais	RRF	

Concentration, ppbv = **0.44**

Concentration, ug/m^3 = $\frac{\text{ppbv} * \text{MW}}{24.45}$ tetrachhloroethene MW = 165.8

Concentration, ug/m^3 = **3.0**

Result Confirmed? *yes*

where:
Ax = area response of target quant ion
IS = internal standard injected, ppbv
Df = dilution factor

Ais = area response of internal standard quant ion
RRF = ICAL average relative response factor

FIELD DUPLICATE SAMPLE PRECISION DERIVATION

	Sample ID ENV04-140312	Dupe ID ENV04-140312D		
Target Compound	Sample Conc. pbbv	Duplicate Conc. pbbv	%RPD	difference
1,1-dichloroethane	0.20 ND	0.20 ND	nc	nc
1,1-dichloroethene	0.20 ND	0.20 ND	nc	nc
Freon-113	0.65	2.9	nc	2.25
1,1,1-trichloroethane	0.20 ND	0.20 ND	nc	nc
tetrachloroethene	0.17	0.15	nc	0.02
trichloroethene	0.040 ND	0.040 ND	nc	nc

ND : not detected in sample at listed RL concentration
nc : not calculated

Attachment A

Laboratory Deliverables

New Jersey
ACCUTEST
LABORATORIES

06/09/14

Technical Report for

Environ Corporation

Bulova, Valley Stream, NY

02-1961A

Accutest Job Number: JB48726

Sampling Date: 09/26/13

Report to:

Environ

NScala@environcorp.com

ATTN: Nick Scala

Total number of pages in report: **15**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Nancy Cole
Laboratory Director

Client Service contact: Marty Vitanza 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, OH VAP (CL0056), PA, RI, SC, TN, VA, WV, DoD ELAP (L-A-B L2248)

Sections: 1 2 3 4 5

Table of Contents

Sample Summary

Environ Corporation

Job No: JB48726

Bulova, Valley Stream, NY
Project No: 02-1961A

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JB48726-1	09/26/13	10:31	LD	09/26/13	AQ	Ground Water	MWHD7-130926
JB48726-2	09/26/13	11:53	LD	09/26/13	AQ	Ground Water	MWHD6-130926
JB48726-2D	09/26/13	11:53	LD	09/26/13	AQ	Water Dup/MSD	MWHD6-130926MSD
JB48726-2S	09/26/13	11:53	LD	09/26/13	AQ	Water Matrix Spike	MWHD6-130926MS
JB48726-3	09/26/13	11:53	LD	09/26/13	AQ	Ground Water	MWHD6-130926D
JB48726-6	09/26/13	12:35	LD	09/26/13	AQ	Ground Water	MWHD4-130926
JB48726-7	09/26/13	12:37	LD	09/26/13	AQ	Field Blank Water	FB-130926
JB48726-8	09/26/13	12:37	LD	09/26/13	AQ	Trip Blank Water	TB-130926

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	Environ Corporation	**Job No**	JB48726
Site:	Bulova, Valley Stream, NY	**Report Date**	10/4/2013 4:06:46 PM

On 09/26/2013, 4 Sample(s), 1 Trip Blank(s) and 1 Field Blank(s) were received at Accutest Laboratories at a temperature of 1.3 C. Samples were intact and chemically preserved, unless noted below. An Accutest Job Number of JB48726 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ **Batch ID:** V4D1843

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB48726-2MS, JB48726-2MSD were used as the QC samples indicated.
- Matrix Spike Recovery(s) for 1,1-Dichloroethene, Freon 113 are outside control limits. Outside control limits due to matrix interference.
- Matrix Spike Duplicate Recovery(s) for Freon 113 are outside control limits. Outside control limits due to matrix interference.
- JB48726-8: (pH=7)Sample is not acid preservation per method/client criteria. Sample analyzed within 7 days holding time.
- JB48726-6: (pH=7)Sample is not acid preservation per method/client criteria. Sample analyzed within 7 days holding time.
- JB48726-3: (pH=7)Sample is not acid preservation per method/client criteria. Sample analyzed within 7 days holding time.
- JB48726-2: (pH=7)Sample is not acid preservation per method/client criteria. Sample analyzed within 7 days holding time.
- JB48726-1: (pH=7)Sample is not acid preservation per method/client criteria. Sample analyzed within 7 days holding time.

Accutest certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting Accutest's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

Accutest Laboratories is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by Accutest Laboratories indicated via signature on the report cover

Summary of Hits

Job Number: JB48726
Account: Environ Corporation
Project: Bulova, Valley Stream, NY
Collected: 09/26/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JB48726-1	**MWHD7-130926**					
Trichloroethene [a]		0.43 J	1.0	0.22	ug/l	SW846 8260B
JB48726-2	**MWHD6-130926**					
Trichloroethene [a]		0.37 J	1.0	0.22	ug/l	SW846 8260B
JB48726-3	**MWHD6-130926D**					
Trichloroethene [a]		0.40 J	1.0	0.22	ug/l	SW846 8260B
JB48726-6	**MWHD4-130926**					
1,1-Dichloroethane [a]		21.6	5.0	0.53	ug/l	SW846 8260B
1,1-Dichloroethene [a]		250	5.0	0.96	ug/l	SW846 8260B
Tetrachloroethene [a]		2.3 J	5.0	1.4	ug/l	SW846 8260B
1,1,1-Trichloroethane [a]		895	5.0	1.2	ug/l	SW846 8260B
Trichloroethene [a]		73.9	5.0	1.1	ug/l	SW846 8260B
JB48726-7	**FB-130926**					
No hits reported in this sample.						
JB48726-8	**TB-130926**					
No hits reported in this sample.						

(a) (pH= 7)Sample is not acid preservation per method/client criteria. Sample analyzed within 7 days holding time.

New Jersey ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MWHD7-130926		
Lab Sample ID:	JB48726-1	**Date Sampled:**	09/26/13
Matrix:	AQ - Ground Water	**Date Received:**	09/26/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Bulova, Valley Stream, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	4D40857.D	1	10/02/13	PR	n/a	n/a	V4D1843
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-34-3	1,1-Dichloroethane	ND	1.0	0.11	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.19	ug/l	
76-13-1	Freon 113	ND	5.0	0.53	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.28	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-01-6	Trichloroethene	0.43	1.0	0.22	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		79-117%
17060-07-0	1,2-Dichloroethane-D4	94%		72-123%
2037-26-5	Toluene-D8	103%		82-118%
460-00-4	4-Bromofluorobenzene	96%		75-118%

(a) (pH= 7)Sample is not acid preservation per method/client criteria. Sample analyzed within 7 days holding time.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MWHD6-130926		
Lab Sample ID:	JB48726-2	**Date Sampled:**	09/26/13
Matrix:	AQ - Ground Water	**Date Received:**	09/26/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Bulova, Valley Stream, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	4D40856.D	1	10/02/13	PR	n/a	n/a	V4D1843
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-34-3	1,1-Dichloroethane	ND	1.0	0.11	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.19	ug/l	
76-13-1	Freon 113	ND	5.0	0.53	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.28	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-01-6	Trichloroethene	0.37	1.0	0.22	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		79-117%
17060-07-0	1,2-Dichloroethane-D4	94%		72-123%
2037-26-5	Toluene-D8	103%		82-118%
460-00-4	4-Bromofluorobenzene	94%		75-118%

(a) (pH= 7)Sample is not acid preservation per method/client criteria. Sample analyzed within 7 days holding time.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MWHD6-130926D		
Lab Sample ID:	JB48726-3	**Date Sampled:**	09/26/13
Matrix:	AQ - Ground Water	**Date Received:**	09/26/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Bulova, Valley Stream, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	4D40858.D	1	10/02/13	PR	n/a	n/a	V4D1843
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-34-3	1,1-Dichloroethane	ND	1.0	0.11	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.19	ug/l	
76-13-1	Freon 113	ND	5.0	0.53	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.28	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-01-6	Trichloroethene	0.40	1.0	0.22	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		79-117%
17060-07-0	1,2-Dichloroethane-D4	93%		72-123%
2037-26-5	Toluene-D8	102%		82-118%
460-00-4	4-Bromofluorobenzene	96%		75-118%

(a) (pH= 7)Sample is not acid preservation per method/client criteria. Sample analyzed within 7 days holding time.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MWHD4-130926		
Lab Sample ID:	JB48726-6	**Date Sampled:**	09/26/13
Matrix:	AQ - Ground Water	**Date Received:**	09/26/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Bulova, Valley Stream, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	4D40859.D	5	10/02/13	PR	n/a	n/a	V4D1843
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-34-3	1,1-Dichloroethane	21.6	5.0	0.53	ug/l	
75-35-4	1,1-Dichloroethene	250	5.0	0.96	ug/l	
76-13-1	Freon 113	ND	25	2.7	ug/l	
127-18-4	Tetrachloroethene	2.3	5.0	1.4	ug/l	J
71-55-6	1,1,1-Trichloroethane	895	5.0	1.2	ug/l	
79-01-6	Trichloroethene	73.9	5.0	1.1	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		79-117%
17060-07-0	1,2-Dichloroethane-D4	94%		72-123%
2037-26-5	Toluene-D8	105%		82-118%
460-00-4	4-Bromofluorobenzene	94%		75-118%

(a) (pH= 7)Sample is not acid preservation per method/client criteria. Sample analyzed within 7 days holding time.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FB-130926		
Lab Sample ID:	JB48726-7	**Date Sampled:**	09/26/13
Matrix:	AQ - Field Blank Water	**Date Received:**	09/26/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Bulova, Valley Stream, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4D40854.D	1	10/02/13	PR	n/a	n/a	V4D1843
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-34-3	1,1-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.34	ug/l	
76-13-1	Freon 113	ND	5.0	0.77	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.25	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		79-117%
17060-07-0	1,2-Dichloroethane-D4	85%		72-123%
2037-26-5	Toluene-D8	103%		82-118%
460-00-4	4-Bromofluorobenzene	96%		75-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB-130926		
Lab Sample ID:	JB48726-8	**Date Sampled:**	09/26/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/26/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Bulova, Valley Stream, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	4D40855.D	1	10/02/13	PR	n/a	n/a	V4D1843
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-34-3	1,1-Dichloroethane	ND	1.0	0.11	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.19	ug/l	
76-13-1	Freon 113	ND	5.0	0.53	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.28	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		79-117%
17060-07-0	1,2-Dichloroethane-D4	95%		72-123%
2037-26-5	Toluene-D8	103%		82-118%
460-00-4	4-Bromofluorobenzene	95%		75-118%

(a) (pH= 7)Sample is not acid preservation per method/client criteria. Sample analyzed within 7 days holding time.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

New Jersey ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

ACCUTEST LABORATORIES

CHAIN OF CUSTODY

UP

PAGE 1 OF 1

2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX: 732-329-3499/3480
www.accutest.com

WTB WFB GW

FED-EX Tracking #:
Bottle Order Control #:
Accutest Quote #:
Accutest Job #: JB48726

Client / Reporting Information

Company Name: ENVIRON
Street Address: 214 Carnegie Ctr
City / State / Zip: Princeton NJ 08540
Project Contact / E-mail: ldiehl@environcorp.com
Phone #: 609 452 9000
Fax #:
Sampler(s) Name(s): L.Diehl/E.Wardell
Phone #:

Project Information

Project Name: Bulova
Street:
City / State:
Project #:
Client Purchase Order #:
Project Manager: M.Potts

Billing Information (if different from Report to)
Company Name:
Street Address:
City / State / Zip:
Attention:

Requested Analysis (see TEST CODE sheet): PCE TCE, 1,1,1-TCA, 1,1-DCA, 1,1-DCE, Freon 113

Matrix Codes: DW - Drinking Water, GW - Ground Water, WW - Water, SW - Surface Water, SO - Soil, SL- Sludge, SED-Sediment, OI - Oil, LIQ - Other Liquid, AIR - Air, SOL - Other Solid, WP - Wipe, FB-Field Blank, EB-Equipment Blank, RB- Rinse Blank, TB-Trip Blank

Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Date	Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	PCE TCE	1,1,1-TCA, 1,1-DCA	1,1-DCE	Freon 113	LAB USE ONLY
1	MWHD7-130926		9/26/13	1031	ENV	GW	3					3				X	X	X	X	
2	MWHD6-130926		↓	1153	↓	↓	↓					↓				↓	↓	↓	↓	
3	MWHD6-130926D			1153																
4	MWHD6-130926MS	-2		1153																
5	MWHD6-130926MSD			1153																899D
6	MWHD4-130926			1235		↓	↓					↓								
7	FB-130926			1237		DI	2					2								
8	TB-130926		↓	1239	↓	DI	2									↓	↓	↓	↓	

Turnaround Time (Business days)

- [X] Std. 10 Business Days
- [ ] 5 Day RUSH
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY
- [ ] other

Emergency & Rush T/A data available VIA Lablink

Approved By (Accutest PM): / Date:

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULLT1 (Level 3+4)
- [X] NJ Reduced
- [ ] Commercial "C"
- [ ] NYASP Category A
- [X] NYASP Category B
- [ ] State Forms
- [ ] EDD Format
- [ ] Other

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
NJ Reduced = Results + QC Summary + Partial Raw data

Comments / Special Instructions

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 [signature]	9/26/13 1650	1 James Kwon	2		2
Relinquished by Sampler: 3	Date Time:	Received By: 3	Relinquished By: 4	Date Time:	Received By: 4
Relinquished by: 5	Date Time:	Received By: 5	Custody Seal #	☐ Intact ☐ Not intact	Preserved where applicable ☐ On Ice ☑ Cooler Temp. 1.3°C IP

JB48726: Chain of Custody
Page 1 of 2

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JB48726 **Client:** **Project:**

Date / Time Received: 9/26/2013 **Delivery Method:** **Airbill #'s:**

Cooler Temps (Initial/Adjusted): #1: (1.3/1.3); 0

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:			
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

Quality Control Preservatio	Y	or	N	N/A
1. Trip Blank present / cooler:	☑		☐	☐
2. Trip Blank listed on COC:	☑		☐	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☑		☐	☐

Comments

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Accutest Laboratories
V:732.329.0200

2235 US Highway 130
F: 732.329.3499

Dayton, New Jersey
www/accutest.com

JB48726: Chain of Custody
Page 2 of 2

New Jersey ACCUTEST LABORATORIES

06/09/14

Technical Report for

Environ Corporation

Bulova, Valley Stream, NY

02-1961B

Accutest Job Number: JB61746

Sampling Date: 03/12/14

Report to:

Environ

NScala@environcorp.com

ATTN: Nick Scala

Total number of pages in report: **20**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Nancy Cole
Laboratory Director

Client Service contact: Marty Vitanza 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, OH VAP (CL0056), PA, RI, SC, TN, VA, WV, DoD ELAP (L-A-B L2248)

Sections: 1 2 3 4 5

Table of Contents

Sample Summary

Environ Corporation

Job No: JB61746

Bulova, Valley Stream, NY
Project No: 02-1961B

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
JB61746-1	03/12/14	22:00	LD	03/13/14	AIR	Indoor Air Comp.	ENV01-140312
JB61746-2	03/12/14	21:53	LD	03/13/14	AIR	Indoor Air Comp.	ENV02-140312
JB61746-3	03/12/14	21:56	LD	03/13/14	AIR	Indoor Air Comp.	ENV03-140312
JB61746-4	03/12/14	21:49	LD	03/13/14	AIR	Indoor Air Comp.	ENV04-140312
JB61746-5	03/12/14	21:49	LD	03/13/14	AIR	Indoor Air Comp.	ENV04-140312D
JB61746-6	03/12/14	21:45	LD	03/13/14	AIR	Indoor Air Comp.	ENV05-140312
JB61746-7	03/12/14	21:52	LD	03/13/14	AIR	Indoor Air Comp.	ENV06-140312
JB61746-8	03/12/14	19:20	LD	03/13/14	AIR	Ambient Air Comp.	AA-140312

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	Environ Corporation	**Job No**	JB61746
Site:	Bulova, Valley Stream, NY	**Report Date**	3/25/2014 10:31:09 A

On 03/13/2014, 8 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at Accutest Laboratories. Samples were intact and chemically preserved, unless noted below. An Accutest Job Number of JB61746 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Volatiles by GCMS By Method TO-15

Matrix: AIR **Batch ID:** V2W1697

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB61554-11DUP were used as the QC samples indicated.
- RPD(s) for Duplicate for Freon 113 are outside of in house control limits.

Matrix: AIR **Batch ID:** V2W1698

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB61682-1DUP were used as the QC samples indicated.

Accutest certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting Accutest's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

Accutest Laboratories is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by Accutest Laboratories indicated via signature on the report cover

Summary of Hits

Job Number: JB61746
Account: Environ Corporation
Project: Bulova, Valley Stream, NY
Collected: 03/12/14

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JB61746-1	**ENV01-140312**					
Freon 113		0.26	0.20	0.021	ppbv	TO-15
Tetrachloroethylene		0.14	0.040	0.029	ppbv	TO-15
Freon 113		2.0	1.5	0.16	ug/m3	TO-15
Tetrachloroethylene		0.95	0.27	0.20	ug/m3	TO-15
JB61746-2	**ENV02-140312**					
Freon 113		0.25	0.20	0.021	ppbv	TO-15
Tetrachloroethylene		0.072	0.040	0.029	ppbv	TO-15
Freon 113		1.9	1.5	0.16	ug/m3	TO-15
Tetrachloroethylene		0.49	0.27	0.20	ug/m3	TO-15
JB61746-3	**ENV03-140312**					
Freon 113		0.47	0.20	0.021	ppbv	TO-15
Tetrachloroethylene		0.44	0.040	0.029	ppbv	TO-15
Freon 113		3.6	1.5	0.16	ug/m3	TO-15
Tetrachloroethylene		3.0	0.27	0.20	ug/m3	TO-15
JB61746-4	**ENV04-140312**					
Freon 113		0.65	0.20	0.021	ppbv	TO-15
Tetrachloroethylene		0.17	0.040	0.029	ppbv	TO-15
Freon 113		5.0	1.5	0.16	ug/m3	TO-15
Tetrachloroethylene		1.2	0.27	0.20	ug/m3	TO-15
JB61746-5	**ENV04-140312D**					
Freon 113		2.9	0.20	0.021	ppbv	TO-15
Tetrachloroethylene		0.15	0.040	0.029	ppbv	TO-15
Freon 113		22	1.5	0.16	ug/m3	TO-15
Tetrachloroethylene		1.0	0.27	0.20	ug/m3	TO-15
JB61746-6	**ENV05-140312**					
Freon 113		1.2	0.20	0.021	ppbv	TO-15
Tetrachloroethylene		0.067	0.040	0.029	ppbv	TO-15
Freon 113		9.2	1.5	0.16	ug/m3	TO-15
Tetrachloroethylene		0.45	0.27	0.20	ug/m3	TO-15
JB61746-7	**ENV06-140312**					
Freon 113		0.37	0.20	0.021	ppbv	TO-15

Summary of Hits

Job Number: JB61746
Account: Environ Corporation
Project: Bulova, Valley Stream, NY
Collected: 03/12/14

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Tetrachloroethylene		0.12	0.040	0.029	ppbv	TO-15
Freon 113		2.8	1.5	0.16	ug/m3	TO-15
Tetrachloroethylene		0.81	0.27	0.20	ug/m3	TO-15
JB61746-8	**AA-140312**					
Freon 113		0.32	0.20	0.021	ppbv	TO-15
Freon 113		2.5	1.5	0.16	ug/m3	TO-15

New Jersey ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: ENV01-140312
Lab Sample ID: JB61746-1
Matrix: AIR - Indoor Air Comp. Summa ID: A1158
Method: TO-15
Project: Bulova, Valley Stream, NY

Date Sampled: 03/12/14
Date Received: 03/13/14
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2W40720.D	1	03/21/14	YMH	n/a	n/a	V2W1697
Run #2							

	Initial Volume
Run #1	400 ml
Run #2	

VOA Special List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
75-34-3	98.96	1,1-Dichloroethane	ND	0.20	0.016	ppbv		ND	0.81	0.065	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.20	0.021	ppbv		ND	0.79	0.083	ug/m3
76-13-1	187.4	Freon 113	0.26	0.20	0.021	ppbv		2.0	1.5	0.16	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.20	0.016	ppbv		ND	1.1	0.087	ug/m3
127-18-4	165.8	Tetrachloroethylene	0.14	0.040	0.029	ppbv		0.95	0.27	0.20	ug/m3
79-01-6	131.4	Trichloroethylene	ND	0.040	0.019	ppbv		ND	0.21	0.10	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	97%		65-128%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: ENV02-140312
Lab Sample ID: JB61746-2
Matrix: AIR - Indoor Air Comp. Summa ID: A869
Method: TO-15
Project: Bulova, Valley Stream, NY

Date Sampled: 03/12/14
Date Received: 03/13/14
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2W40721.D	1	03/21/14	YMH	n/a	n/a	V2W1697
Run #2							

	Initial Volume
Run #1	400 ml
Run #2	

VOA Special List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
75-34-3	98.96	1,1-Dichloroethane	ND	0.20	0.016	ppbv		ND	0.81	0.065	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.20	0.021	ppbv		ND	0.79	0.083	ug/m3
76-13-1	187.4	Freon 113	0.25	0.20	0.021	ppbv		1.9	1.5	0.16	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.20	0.016	ppbv		ND	1.1	0.087	ug/m3
127-18-4	165.8	Tetrachloroethylene	0.072	0.040	0.029	ppbv		0.49	0.27	0.20	ug/m3
79-01-6	131.4	Trichloroethylene	ND	0.040	0.019	ppbv		ND	0.21	0.10	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	98%		65-128%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ENV03-140312		
Lab Sample ID:	JB61746-3	**Date Sampled:**	03/12/14
Matrix:	AIR - Indoor Air Comp. Summa ID: A1099	**Date Received:**	03/13/14
Method:	TO-15	**Percent Solids:**	n/a
Project:	Bulova, Valley Stream, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2W40722.D	1	03/21/14	YMH	n/a	n/a	V2W1697
Run #2							

	Initial Volume
Run #1	400 ml
Run #2	

VOA Special List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
75-34-3	98.96	1,1-Dichloroethane	ND	0.20	0.016	ppbv		ND	0.81	0.065	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.20	0.021	ppbv		ND	0.79	0.083	ug/m3
76-13-1	187.4	Freon 113	0.47	0.20	0.021	ppbv		3.6	1.5	0.16	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.20	0.016	ppbv		ND	1.1	0.087	ug/m3
127-18-4	165.8	Tetrachloroethylene	0.44	0.040	0.029	ppbv		3.0	0.27	0.20	ug/m3
79-01-6	131.4	Trichloroethylene	ND	0.040	0.019	ppbv		ND	0.21	0.10	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	97%		65-128%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: ENV04-140312
Lab Sample ID: JB61746-4
Matrix: AIR - Indoor Air Comp. Summa ID: A181
Method: TO-15
Project: Bulova, Valley Stream, NY

Date Sampled: 03/12/14
Date Received: 03/13/14
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2W40723.D	1	03/21/14	YMH	n/a	n/a	V2W1697
Run #2							

	Initial Volume
Run #1	400 ml
Run #2	

VOA Special List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
75-34-3	98.96	1,1-Dichloroethane	ND	0.20	0.016	ppbv		ND	0.81	0.065	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.20	0.021	ppbv		ND	0.79	0.083	ug/m3
76-13-1	187.4	Freon 113	0.65	0.20	0.021	ppbv		5.0	1.5	0.16	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.20	0.016	ppbv		ND	1.1	0.087	ug/m3
127-18-4	165.8	Tetrachloroethylene	0.17	0.040	0.029	ppbv		1.2	0.27	0.20	ug/m3
79-01-6	131.4	Trichloroethylene	ND	0.040	0.019	ppbv		ND	0.21	0.10	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	97%		65-128%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: ENV04-140312D
Lab Sample ID: JB61746-5
Matrix: AIR - Indoor Air Comp. Summa ID: A341
Method: TO-15
Project: Bulova, Valley Stream, NY

Date Sampled: 03/12/14
Date Received: 03/13/14
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2W40724.D	1	03/21/14	YMH	n/a	n/a	V2W1697
Run #2							

	Initial Volume
Run #1	400 ml
Run #2	

VOA Special List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
75-34-3	98.96	1,1-Dichloroethane	ND	0.20	0.016	ppbv		ND	0.81	0.065	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.20	0.021	ppbv		ND	0.79	0.083	ug/m3
76-13-1	187.4	Freon 113	2.9	0.20	0.021	ppbv		22	1.5	0.16	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.20	0.016	ppbv		ND	1.1	0.087	ug/m3
127-18-4	165.8	Tetrachloroethylene	0.15	0.040	0.029	ppbv		1.0	0.27	0.20	ug/m3
79-01-6	131.4	Trichloroethylene	ND	0.040	0.019	ppbv		ND	0.21	0.10	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	99%		65-128%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ENV05-140312		
Lab Sample ID:	JB61746-6	**Date Sampled:**	03/12/14
Matrix:	AIR - Indoor Air Comp. Summa ID: A262	**Date Received:**	03/13/14
Method:	TO-15	**Percent Solids:**	n/a
Project:	Bulova, Valley Stream, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2W40725.D	1	03/21/14	YMH	n/a	n/a	V2W1697
Run #2							

	Initial Volume
Run #1	400 ml
Run #2	

VOA Special List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
75-34-3	98.96	1,1-Dichloroethane	ND	0.20	0.016	ppbv		ND	0.81	0.065	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.20	0.021	ppbv		ND	0.79	0.083	ug/m3
76-13-1	187.4	Freon 113	1.2	0.20	0.021	ppbv		9.2	1.5	0.16	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.20	0.016	ppbv		ND	1.1	0.087	ug/m3
127-18-4	165.8	Tetrachloroethylene	0.067	0.040	0.029	ppbv		0.45	0.27	0.20	ug/m3
79-01-6	131.4	Trichloroethylene	ND	0.040	0.019	ppbv		ND	0.21	0.10	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	98%		65-128%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: ENV06-140312
Lab Sample ID: JB61746-7
Matrix: AIR - Indoor Air Comp. Summa ID: A875
Method: TO-15
Project: Bulova, Valley Stream, NY

Date Sampled: 03/12/14
Date Received: 03/13/14
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2W40736.D	1	03/21/14	YMH	n/a	n/a	V2W1698
Run #2							

	Initial Volume
Run #1	400 ml
Run #2	

VOA Special List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
75-34-3	98.96	1,1-Dichloroethane	ND	0.20	0.016	ppbv		ND	0.81	0.065	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.20	0.021	ppbv		ND	0.79	0.083	ug/m3
76-13-1	187.4	Freon 113	0.37	0.20	0.021	ppbv		2.8	1.5	0.16	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.20	0.016	ppbv		ND	1.1	0.087	ug/m3
127-18-4	165.8	Tetrachloroethylene	0.12	0.040	0.029	ppbv		0.81	0.27	0.20	ug/m3
79-01-6	131.4	Trichloroethylene	ND	0.040	0.019	ppbv		ND	0.21	0.10	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	97%		65-128%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	AA-140312		
Lab Sample ID:	JB61746-8	**Date Sampled:**	03/12/14
Matrix:	AIR - Ambient Air Comp. Summa ID: A323	**Date Received:**	03/13/14
Method:	TO-15	**Percent Solids:**	n/a
Project:	Bulova, Valley Stream, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2W40737.D	1	03/21/14	YMH	n/a	n/a	V2W1698
Run #2							

	Initial Volume
Run #1	400 ml
Run #2	

VOA Special List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
75-34-3	98.96	1,1-Dichloroethane	ND	0.20	0.016	ppbv		ND	0.81	0.065	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.20	0.021	ppbv		ND	0.79	0.083	ug/m3
76-13-1	187.4	Freon 113	0.32	0.20	0.021	ppbv		2.5	1.5	0.16	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.20	0.016	ppbv		ND	1.1	0.087	ug/m3
127-18-4	165.8	Tetrachloroethylene	ND	0.040	0.029	ppbv		ND	0.27	0.20	ug/m3
79-01-6	131.4	Trichloroethylene	ND	0.040	0.019	ppbv		ND	0.21	0.10	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	92%		65-128%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

New Jersey ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Summa Canister and Flow Controller Log

AIR

ACCUTEST LABORATORIES

CHAIN OF CUSTODY

Air Sampling Field Data Sheet

FED-EX Tracking #	Bottle Order Control #
Lab Quote #	Lab Job # JB61746

PAGE 1 OF 1

Client / Reporting Information

Company Name: ENVIRON

Address: 214 Carnegie Ctr

City: Princeton State: NJ Zip: 08540

Project Contact / E-mail: ldiehl@environcorp.com

Phone #: 6094529000 Fax #:

Sampler(s) Name(s): L. Diehl / J. Schwankert

Project Name: Bulova

Street:

City: Valley Stream State: NJ

Project #: 0219618B

Client Purchase Order #:

Weather Parameters

Temperature (Fahrenheit): Start: 55 Maximum: Stop: 45 Minimum:

Atmospheric Pressure (inches of Hg): Start: 29.27 Maximum: Stop: 29.04 Minimum:

Other weather comment:

Lab Sample #	Field ID / Point of Collection	Air Type: Indoor(I) Soil Vap(SV) Ambient(A)	Canister Serial #	Canister Size 6L or 1L	Flow Controller Serial #	Start Date	Start Time (24hr clock)	Start Canister Pressure ("Hg)	Start Interior Temp (F)	Start Sampler Init.	Stop Date	Stop Time (24hr clock)	Stop Canister Pressure ("Hg)	Stop Interior Temp (F)	Stop Sampler Init.	Standard Reporting List	PCE, TCE, 1,1,1-TCA, 1,1-DCE, 1,1-DCA, 1,2-DCE	Freon 113
1	ENV01-~~130312~~ 140312	I	A1158	6	FC608	3/12/14	1340	>-30	65	LD	3/12/14	2200	-9	65	LD		X	X
2	ENV02-~~130312~~ 140312	I	A869	6	FC654	↓	1344	-29	↓	LD	↓	2153	-6.5	↓	LD		X	X
3	ENV03-1~~30~~40312	I	A1099	6	FC650		1347	-29		LD		2156	-6		LD		X	X
4	ENV04-140312	I	A141	6	FC136		1355	-29		LD		2149	-7		LD		X	X
5	ENV04-140312D	I	A341	6	FC342		1355	-29.5		LD		2149	-7		LD		X	X
6	ENV05-140312	I	A262	6	FC596		1359	-27		LD		2145	-5		LD		X	X
7	ENV06-140312	I	A875	6	FC553		1352	-29		LD		2152	-6		LD		X	X
8	AA-140312	A	A323	6	FC[illegible]		1411	-27	55	LD		1920	-4.5	45	LD		X	X

Turnaround Time (Business days)

Standard - 15 Days	X
10 Day	
5 Day	
3 Day	
2 Day	
1 Day	
Other	

Approved By: ____________

Date: ____________

Data Deliverable Information

All NJDEP TO-15 is mandatory Full T1

Comm A	
Comm B	
Reduced T2	
Full T1	
Other:	

Comments / Remarks

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by	Date Time	Received By	Relinquished By	Date Time	Received By
Relinquished by Laboratory: 1	Date Time:	Received By: 1	Relinquished By: 2	Date Time:	Received By: 2
Relinquished by: 3 [signature]	Date Time: 3/13/14 11:10	Received By: 3 [signature]	Relinquished By: 4	Date Time:	Received By: 4
Relinquished by: 5	Date Time:	Received By: 5	Custody Seal #		3 Boxes

JP

JB61746: Chain of Custody

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5.1

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Job# JB61746
(REQUIRED)

Unused Summa Return Form

Client Environ Office Princeton NJ
Project Bulova

#Summas 2 #Flow Controllers 2

Summa#'s 9. A890 FC#s FC106
10. A999 FC605

Rec'd By [signature] Rec'd Date/Time 3/13/14 11:10

Rec'd via Drop-off
(Attach any client paperwork, documentation, or airbills if available)

Notes

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JB61746 **Client:** **Project:**

Date / Time Received: 3/13/2014 **Delivery Method:** **Airbill #'s:**

Cooler Temps (Initial/Adjusted):

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:			
3. Cooler media:			
4. No. Coolers:	0		

Quality Control Preservatio	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☐	☑
2. Trip Blank listed on COC:	☐		☐	☑
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☐		☐	☑

Comments

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Accutest Laboratories
V:732.329.0200

2235 US Highway 130
F: 732.329.3499

Dayton, New Jersey
www/accutest.com

JB61746: Chain of Custody
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Summa Canister and Flow Controller Log

Job Number: JB61746
Account: ENVIRON Environ Corporation
Project: Bulova, Valley Stream, NY
Received: 03/13/14

SUMMA CANISTERS

Shipping							Receiving					
Summa ID	L	Vac " Hg	Date Out	By	SCC Batch	SCC FileID	Sample Number	Date In	By	Vac " Hg	Pres psig	Final psig	Dil Fact
A1158	6	29.4	03/10/14	ML	CP6858	3W39407.D	JB61746-1	03/13/14	FZ	6			1
A869	6	29.4	03/10/14	ML	CP6858	3W39407.D	JB61746-2	03/13/14	FZ	6.5			1
A1099	6	29.4	03/10/14	ML	CP6858	3W39407.D	JB61746-3	03/13/14	FZ	6			1
A181	6	29.4	03/10/14	ML	CP6858	3W39407.D	JB61746-4	03/13/14	FZ	6.5			1
A341	6	29.4	03/10/14	ML	CP6858	3W39407.D	JB61746-5	03/13/14	FZ	6			1
A262	6	29.4	03/10/14	ML	CP6858	3W39407.D	JB61746-6	03/13/14	FZ	7			1
A875	6	29.4	03/10/14	ML	CP6858	3W39407.D	JB61746-7	03/13/14	FZ	6.5			1
A323	6	29.4	03/10/14	ML	CP6858	3W39407.D	JB61746-8	03/13/14	FZ	5			1

FLOW CONTROLLERS / OTHER

Shipping					Receiving			
Flow Crtl ID	Date Out	By	cc/ min	Time hrs.	Date In	By	cc/ min	Equipment Type
FC106	03/10/14	ML	3.1	24	03/13/14	FZ	3.3	Flow Controller
FC136	03/10/14	ML	9.4	8	03/13/14	FZ	9.4	Flow Controller
FC342	03/10/14	ML	9.4	8	03/13/14	FZ	9.6	Flow Controller
FC485	03/10/14	ML	9.4	8	03/13/14	FZ	9.7	Flow Controller
FC553	03/10/14	ML	9.4	8	03/13/14	FZ	9.4	Flow Controller
FC576	03/10/14	ML	9.4	8	03/13/14	FZ	9.4	Flow Controller
FC605	03/10/14	ML	9.4	8	03/13/14	FZ	9.6	Flow Controller
FC608	03/10/14	ML	9.4	8	03/13/14	FZ	9.6	Flow Controller
FC650	03/10/14	ML	9.4	8	03/13/14	FZ	9.5	Flow Controller
FC654	03/10/14	ML	9.4	8	03/13/14	FZ	9.4	Flow Controller

Accutest Bottle Order(s):
MV-3/7/2014

Prep Date	Room Temp(F)	Bar Pres "Hg
03/10/14	70	29.92

New Jersey
ACCUTEST
LABORATORIES

06/09/14

Technical Report for

Environ Corporation

Bulova, Valley Stream, NY

02-1961B

Accutest Job Number: JB61748

Sampling Date: 03/12/14

Report to:

Environ

NScala@environcorp.com

ATTN: Nick Scala

Total number of pages in report: **15**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Nancy Cole
Laboratory Director

Client Service contact: Marty Vitanza 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, OH VAP (CL0056), PA, RI, SC, TN, VA, WV, DoD ELAP (L-A-B L2248)

Sections: 1 2 3 4 5

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Sample Summary

Environ Corporation

Job No: JB61748

Bulova, Valley Stream, NY
Project No: 02-1961B

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
JB61748-1	03/12/14	13:00	LD	03/13/14	AQ	Ground Water	MWHD7-140312
JB61748-2	03/12/14	14:55	LD	03/13/14	AQ	Ground Water	MWHD6-140312
JB61748-2D	03/12/14	14:55	LD	03/13/14	AQ	Water Dup/MSD	MWHD6-140312MSD
JB61748-2S	03/12/14	14:55	LD	03/13/14	AQ	Water Matrix Spike	MWHD6-140312MS
JB61748-3	03/12/14	15:40	LD	03/13/14	AQ	Ground Water	MWHD4-140312
JB61748-4	03/12/14	15:40	LD	03/13/14	AQ	Field Blank Water	FB-140312
JB61748-5	03/12/14	15:40	LD	03/13/14	AQ	Trip Blank Water	TB-140312
JB61748-6	03/12/14	14:55	LD	03/13/14	AQ	Ground Water	MWHD6-140312D

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	Environ Corporation	**Job No**	JB61748
Site:	Bulova, Valley Stream, NY	**Report Date**	3/19/2014 5:20:29 PM

On 03/13/2014, 4 Sample(s), 1 Trip Blank(s) and 1 Field Blank(s) were received at Accutest Laboratories at a temperature of 0.9 C. Samples were intact and chemically preserved, unless noted below. An Accutest Job Number of JB61748 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ **Batch ID:** VU8388

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB61748-2MS, JB61748-2MSD were used as the QC samples indicated.
- JB61748-6: (pH=7)Sample is not acid preservation per method/client criteria. Sample analyzed within 7 days holding time.
- JB61748-5: (pH=7)Sample is not acid preservation per method/client criteria. Sample analyzed within 7 days holding time.
- JB61748-4: (pH=7)Sample is not acid preservation per method/client criteria. Sample analyzed within 7 days holding time.
- JB61748-3: (pH=7)Sample is not acid preservation per method/client criteria. Sample analyzed within 7 days holding time.
- JB61748-2MSD: (pH=7)Sample is not acid preservation per method/client criteria. Sample analyzed within 7 days holding time.
- JB61748-2MS: (pH=7)Sample is not acid preservation per method/client criteria. Sample analyzed within 7 days holding time.
- JB61748-2: (pH=7)Sample is not acid preservation per method/client criteria. Sample analyzed within 7 days holding time.
- JB61748-1: (pH=7)Sample is not acid preservation per method/client criteria. Sample analyzed within 7 days holding time.

Accutest certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting Accutest's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

Accutest Laboratories is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by Accutest Laboratories indicated via signature on the report cover

Summary of Hits

Job Number: JB61748
Account: Environ Corporation
Project: Bulova, Valley Stream, NY
Collected: 03/12/14

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JB61748-1	**MWHD7-140312**					
No hits reported in this sample.						
JB61748-2	**MWHD6-140312**					
No hits reported in this sample.						
JB61748-3	**MWHD4-140312**					
1,1-Dichloroethane [a]		14.7	1.0	0.26	ug/l	SW846 8260B
1,1-Dichloroethene [a]		77.5	1.0	0.34	ug/l	SW846 8260B
Freon 113 [a]		8.7	5.0	0.77	ug/l	SW846 8260B
Tetrachloroethene [a]		1.2	1.0	0.25	ug/l	SW846 8260B
1,1,1-Trichloroethane [a]		111	1.0	0.25	ug/l	SW846 8260B
Trichloroethene [a]		32.7	1.0	0.50	ug/l	SW846 8260B
JB61748-4	**FB-140312**					
No hits reported in this sample.						
JB61748-5	**TB-140312**					
No hits reported in this sample.						
JB61748-6	**MWHD6-140312D**					
No hits reported in this sample.						

(a) (pH= 7)Sample is not acid preservation per method/client criteria. Sample analyzed within 7 days holding time.

New Jersey ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MWHD7-140312		
Lab Sample ID:	JB61748-1	**Date Sampled:**	03/12/14
Matrix:	AQ - Ground Water	**Date Received:**	03/13/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Bulova, Valley Stream, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	U181654.D	1	03/15/14	NT	n/a	n/a	VU8388
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-34-3	1,1-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.34	ug/l	
76-13-1	Freon 113	ND	5.0	0.77	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.25	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		79-117%
17060-07-0	1,2-Dichloroethane-D4	108%		72-123%
2037-26-5	Toluene-D8	107%		82-118%
460-00-4	4-Bromofluorobenzene	108%		75-118%

(a) (pH= 7)Sample is not acid preservation per method/client criteria. Sample analyzed within 7 days holding time.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MWHD6-140312		
Lab Sample ID:	JB61748-2	**Date Sampled:**	03/12/14
Matrix:	AQ - Ground Water	**Date Received:**	03/13/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Bulova, Valley Stream, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	U181653.D	1	03/15/14	NT	n/a	n/a	VU8388
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-34-3	1,1-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.34	ug/l	
76-13-1	Freon 113	ND	5.0	0.77	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.25	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	109%		79-117%
17060-07-0	1,2-Dichloroethane-D4	108%		72-123%
2037-26-5	Toluene-D8	108%		82-118%
460-00-4	4-Bromofluorobenzene	107%		75-118%

(a) (pH= 7)Sample is not acid preservation per method/client criteria. Sample analyzed within 7 days holding time.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MWHD4-140312		
Lab Sample ID:	JB61748-3	**Date Sampled:**	03/12/14
Matrix:	AQ - Ground Water	**Date Received:**	03/13/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Bulova, Valley Stream, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	U181655.D	1	03/15/14	NT	n/a	n/a	VU8388
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-34-3	1,1-Dichloroethane	14.7	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	77.5	1.0	0.34	ug/l	
76-13-1	Freon 113	8.7	5.0	0.77	ug/l	
127-18-4	Tetrachloroethene	1.2	1.0	0.25	ug/l	
71-55-6	1,1,1-Trichloroethane	111	1.0	0.25	ug/l	
79-01-6	Trichloroethene	32.7	1.0	0.50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		79-117%
17060-07-0	1,2-Dichloroethane-D4	108%		72-123%
2037-26-5	Toluene-D8	109%		82-118%
460-00-4	4-Bromofluorobenzene	110%		75-118%

(a) (pH= 7)Sample is not acid preservation per method/client criteria. Sample analyzed within 7 days holding time.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FB-140312		
Lab Sample ID:	JB61748-4	**Date Sampled:**	03/12/14
Matrix:	AQ - Field Blank Water	**Date Received:**	03/13/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Bulova, Valley Stream, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	U181656.D	1	03/15/14	NT	n/a	n/a	VU8388
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-34-3	1,1-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.34	ug/l	
76-13-1	Freon 113	ND	5.0	0.77	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.25	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	110%		79-117%
17060-07-0	1,2-Dichloroethane-D4	109%		72-123%
2037-26-5	Toluene-D8	108%		82-118%
460-00-4	4-Bromofluorobenzene	109%		75-118%

(a) (pH= 7)Sample is not acid preservation per method/client criteria. Sample analyzed within 7 days holding time.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB-140312		
Lab Sample ID:	JB61748-5	**Date Sampled:**	03/12/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	03/13/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Bulova, Valley Stream, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	U181657.D	1	03/15/14	NT	n/a	n/a	VU8388
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-34-3	1,1-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.34	ug/l	
76-13-1	Freon 113	ND	5.0	0.77	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.25	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		79-117%
17060-07-0	1,2-Dichloroethane-D4	108%		72-123%
2037-26-5	Toluene-D8	108%		82-118%
460-00-4	4-Bromofluorobenzene	108%		75-118%

(a) (pH= 7)Sample is not acid preservation per method/client criteria. Sample analyzed within 7 days holding time.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MWHD6-140312D		
Lab Sample ID:	JB61748-6	**Date Sampled:**	03/12/14
Matrix:	AQ - Ground Water	**Date Received:**	03/13/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Bulova, Valley Stream, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	U181658.D	1	03/15/14	NT	n/a	n/a	VU8388
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-34-3	1,1-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.34	ug/l	
76-13-1	Freon 113	ND	5.0	0.77	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.25	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		79-117%
17060-07-0	1,2-Dichloroethane-D4	108%		72-123%
2037-26-5	Toluene-D8	109%		82-118%
460-00-4	4-Bromofluorobenzene	108%		75-118%

(a) (pH= 7)Sample is not acid preservation per method/client criteria. Sample analyzed within 7 days holding time.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

New Jersey ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

GW

ACCUTEST LABORATORIES

CHAIN OF CUSTODY

PAGE 1 OF 1

2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX: 732-329-3499/3480
www.accutest.com

FED-EX Tracking #: | Bottle Order Control #:
Accutest Quote #: | Accutest Job #: JB61748

Client / Reporting Information

- Company Name: ENVIRON
- Street Address: 214 Carnegie Ctr
- City / State / Zip: Princeton NJ 08540
- Project Contact / E-mail: ldiehl@environcorp.com
- Phone #: 6094529000
- Fax #:
- Sampler(s) Name(s): L. Diehl / J. Schwanker
- Phone #:

Project Information

- Project Name: Bulova
- Street:
- City / State:
- Project #: 0219961B
- Client Purchase Order #:
- Project Manager: M. Potts

Billing Information (if different from Report to)

- Company Name:
- Street Address:
- City / State / Zip:
- Attention:

Requested Analysis (see TEST CODE sheet): PCE, TCE | 1,1,1-TCA, 1,1-DCA | 1,1-DCE, Freon 113

Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Date	Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	PCE, TCE	1,1,1-TCA, 1,1-DCA	1,1-DCE, Freon 113	LAB USE ONLY
1	MWHD7-140312	-1	3/12/14	1300	env	GW	3					X				X	X	X	V661
2	MWHD6-140312	-2	↓	1455	↓	↓	3					↓				↓	↓	↓	
	MWHD6-140312D	-6		1455			3												
	MWHD6-140312MS	-2		1455			3												
	MWHD6-140312MSD	-2		1455			3												
3	MWHD4-140312	-3		1540			2												
4	FB-140312	-4		1540		FB	2												
5	TB-140312	-5	↓	1540	↓	TB	2					↓				↓	↓	↓	

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL - Sludge; SED - Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB - Field Blank; EB - Equipment Blank; RB - Rinse Blank; TB - Trip Blank

Turnaround Time (Business days)

- [x] Std. 10 Business Days
- [ ] 5 Day RUSH
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY
- [ ] other

Emergency & Rush T/A data available VIA Lablink

Approved By (Accutest PM): / Date:

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULLT1 (Level 3+4)
- [ ] NJ Reduced
- [ ] Commercial "C"
- [ ] NYASP Category A
- [x] NYASP Category B
- [ ] State Forms
- [ ] EDD Format
- [ ] Other

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
NJ Reduced = Results + QC Summary + Partial Raw data

Comments / Special Instructions: All samples unpreserved. Deliverables in NYSDEC ASP Category B

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 L. Diehl	3/13/14 11:10	1 [signature]	2		2
Relinquished by Sampler: 3	Date Time:	Received By: 3	Relinquished By: 4	Date Time:	Received By: 4
Relinquished by: 5	Date Time:	Received By: 5	Custody Seal # ☐ Intact ☐ Not intact	Preserved where applicable ☐	On Ice ☒ Cooler Temp. 0.9°C

IR

2B/al

JB61748: Chain of Custody
Page 1 of 2

5.1
5

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JB61748 **Client:** _____ **Project:** _____

Date / Time Received: 3/13/2014 **Delivery Method:** _____ **Airbill #'s:** _____

Cooler Temps (Initial/Adjusted): #1: (0.9/0.9); 0

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	IR Gun		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

Quality Control Preservatio	Y	or	N	N/A
1. Trip Blank present / cooler:	☑		☐	☐
2. Trip Blank listed on COC:	☑		☐	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☑		☐	☐

Comments

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑