Fourth Quarter 2013 Groundwater Monitoring and Sampling Report

Maryland Square PCE Site

3661 South Maryland Parkway
Las Vegas, Nevada
Facility ID: H-000086

Cardno ATC Project No. 085.42620.0001

Prepared for
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January 28, 2014

Cardno ATC
Shaping the Future

Executive Summary

January 28, 2014

Herman Kishner Trust
c/o Mr. Tom Vandenberg, Esq.
707 Wilshire Boulevard, 45th Floor
Los Angeles, California 90017

Re: Fourth Quarter 2013 Groundwater Monitoring and Sampling Report
Maryland Square PCE Site
3661 South Maryland Parkway
Las Vegas, Nevada
NDEP Facility ID No. H-000086

Dear Mr. Vandenberg:

Cardno ATC is submitting this report documenting the results of a recent quarterly groundwater monitoring event conducted at the Maryland Square PCE Site (site). The groundwater monitoring was conducted to evaluate dissolved chlorinated ethenes, specifically tetrachloroethene (PCE), detected in the soil and groundwater in the vicinity of the above referenced site in accordance with requests from the Nevada Division of Environmental Protection (NDEP).

Work Performed Fourth Quarter 2013

Cardno ATC is currently performing quarterly monitoring and sampled 49 of the 60 site groundwater monitoring wells.

Current Phase of Project:	Monitoring and Sampling
Frequency of Sampling:	Groundwater: Select Wells Quarterly (Semi-annual or Annual for 2013)
Frequency of Monitoring:	Groundwater: Select Wells Quarterly (Semi-annual or Annual for 2013)
Purge Water Removed This Quarter:	91.75 gallons
Approximate Depth to Groundwater:	20.39 ft btoc
Groundwater Gradient:	Site Monitoring Network: 0.013 feet/foot
Groundwater Flow Direction:	Site Monitoring Network: East
Groundwater Analytical Methods:	Select VOCs by EPA 8260B, metals by EPA 6020, and hexavalent chromium (Cr(VI)) by EPA 218.6
Monitoring Wells Sampled with PCE Concentrations Greater than 5.0 µg/L:	37 of 49 monitoring points
Maximum PCE Concentration (µg/L):	10,000 (MW-14I)
Monitoring Wells Sampled with PCE Concentrations Greater than 5.0 µg/L Previous Quarter:	29 of 36 monitoring points
Maximum PCE Concentration Previous Quarter (µg/L):	3,700 (MW-14I)

Historical groundwater elevation data and analytical results are summarized in Table A-1. Current groundwater elevation data and analytical results are summarized in Table A-2. Site figures and groundwater analytical isoconcentration maps, are included as Figures 1 and 2. Groundwater field sampling forms and laboratory analytical reports are included in Appendix A and B, respectively. Mann-Kendall Trend Tests for Plume Stability are included in Appendix C.

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1 Background

The Maryland Square PCE Site (site) is located at 3661 South Maryland Parkway in Las Vegas, Nevada. The site is located within a retail shopping center (parent parcel) located at the northwest corner of Maryland Parkway and Twain Avenue and within the Southeast ¼ of the Northeast ¼ of Section 15, Township 21 South, Range 61 East. The parent parcel is designated as assessor's parcel number (APN) 162-15-602-009 and is a 6.57-acre tract of land. The shopping center previously included a dry cleaning facility, Al Phillips the Cleaner. Al Phillips the Cleaner operated at the site from 1969 through 2000.

Surrounding properties consist primarily of commercial and residential developments. The Boulevard Mall lies directly to the east of the site across South Maryland Parkway. Beyond the mall is a residential neighbourhood and a golf course. South Maryland Parkway is located to the east of the site and East Twain Avenue is located south of the site.

Subsurface soil and groundwater conditions were investigated along the eastern boundary of the property as a result of a property transaction, in November of 2000, by advancing one soil boring and converting it into a monitoring well (MW-1). Analysis of water samples collected from MW-1 confirmed PCE concentrations in groundwater at the property exceeded the established U.S. Environmental protection Agency (EPA) primary maximum contamination level (MCL) for PCE in drinking water of 5.0 micrograms per liter (µg/L) or parts per billion (ppb).

Multiple soil and groundwater samples were taken from 2000 to 2004 after the initial discovery. Monitoring wells were installed both at the site and extending on to the Boulevard Mall property in a failed attempt to determine the eastern extent of the PCE plume.

Al Phillips the Cleaner (APTC) accepted responsibility for the release in February 2004 and assumed control of assessment activities from the Trust after which all site characterization and monitoring work was conducted by URS Corporation (URS). Converse was retained to review documents prepared by URS on behalf of the Trust.

Monitoring wells were installed in the residential neighbourhood starting in March 2005 east of the Boulevard Mall property. PCE concentrations in these wells were above the MCL levels of 5 µg/L, suggesting the eastern extent of the PCE plume was not defined. The discovery of the plume migration into the residential area raised concerns of possible vapor intrusion affecting residents in the neighbourhood. URS conducted an off-site soil vapor study in the Boulevard Mall parking lot in March 2007 at select locations in the residential area east of the mall. Soil vapor concentrations measured at total depth ranged from below method detection limits at Soil Vapor Boring (SVB)-2, and 11 to 170,000 micrograms per cubic meter (µg/m^3) at SVB-14.

APTC declared bankruptcy in July 2008 and URS discontinued work at the site. Converse, on behalf of the Trust, resumed quarterly monitoring, supported the litigation work and prepared a remediation scope of work. Converse continued with monitoring until July 2010, when field activities and responsibilities were transferred from Converse to Tetra Tech EM Inc. (Tetra Tech) during the second quarter of 2010. Groundwater monitoring protocol and procedures used by Converse and accepted by NDEP were continued to maintain data consistency.

A permanent injunction was issued on December 27, 2010 by the U.S District Court that dictated the schedule for remediation of the source area and groundwater at the site. It also decreed that groundwater monitoring should continue based on the previously defined NDEP schedule.

Groundwater monitoring and sampling responsibilities transferred from Tetra Tech to Cardno ATC for the fourth quarter of 2011.

Additional information, including the full administrative record detailing correspondence with NDEP can be found at http://ndep.nv.gov/pce/maryland_square.htm and clicking on The Administrative Record tab.

2 Groundwater Monitoring and Sampling

NDEP has directed monitoring of the site-related groundwater monitoring well network as outlined in its response letter to the Converse report titled "Groundwater Monitoring Report, 3rd Quarter 2009, Maryland Square Shopping Center," dated December 22, 2009.

The revised schedule for the Fourth Quarter 2013 sampling event prescribes sampling at 49 of the 60 site-related active monitoring wells. Each well was sampled to record groundwater characteristics and quantify volatile organic compound (VOC) concentrations. Depth to groundwater measurements were collected at monitoring well locations.

Select monitoring wells are sampled in 2013 on a quarterly, semi-annual, or annual basis as per agreement with NDEP. The sampling schedule is based on the relative PCE concentrations detected in individual monitoring wells in addition to the proximity of a monitoring well to the ascertained plume area. The 2013 sampling schedule has been modified and approved by NDEP.

The NDEP modified the sampling schedule in response to Cardno ATC's "Letter Request to Adjust Sampling Schedule for Fourth Quarter 2012 and First Quarter 2013," dated October 26, 2012. The letter proposed that the 2012 monitoring be revised to only include wells MW-34 through MW-40 and the sampling event for First Quarter 2013 be revised to include all site wells.

The NDEP approved 2013 annual sampling schedule for monitoring wells in the groundwater monitoring program is as follows:

- First Quarter – MW-1 through MW-3, MW-5 through MW-40, MW-14I, and MW-19I (plus newly installed wells MW-6D1, MW-6D2, MW-6D3, MW-19D1, MW-19D2, MW-19D3, MW-20D1, MW-20D2, and MW-20D3)

- Second Quarter – MW-1, MW-5, MW-6, MW-9, MW-14, MW-17, MW-27, MW-34 through MW-40, MW-14I, MW-19I, MW-6D1, MW-6D2, MW-6D3, MW-19D1, MW-19D2, MW-19D3, MW-20D1, MW-20D2, and MW-20D3 (plus any newly installed wells)

- Third Quarter – MW-1, MW-5, MW-6, MW-9, MW-14, MW-17, MW-34 through MW-40, MW-14I, MW-19I, MW-6D1, MW-6D2, MW-6D3, MW-19D1, MW-19D2, MW-19D3, MW-20D1, MW-20D2, and MW-20D3 (plus any newly installed wells)

- Fourth Quarter – MW-1, MW-2, MW-5 through MW-9, MW-12, MW-13, MW-14, MW-17 through MW-20, MW-23, MW-25, MW-26, MW-27, MW-30, MW-31 through MW-40, MW-41, MW-42, MW-43, MW-14I, MW-19I, MW-6D1, MW-6D2, MW-6D3, MW-19D1, MW-19D2, MW-19D3, MW-20D1, MW-20D2, and MW-20D3 (plus any newly installed wells)

The groundwater monitoring procedures are consistent with the protocol presented by URS in its August 2007 letter and accepted by NDEP in its September 10, 2007 letter. The prescribed groundwater monitoring protocol used at the site was revised to employ the ASTM D6771-02 method in the fourth quarter of 2007. This sampling method relies on low flow pumping that moderates the velocity of water entering the pump intake from the formation pore water surrounding the well. Minimized stress and turbulence within the water-bearing unit during pumping allows collection of groundwater samples generally considered more representative of water quality in the formation than the conventional method, which calls for excavation of three well volumes of groundwater using downhole pumps or bailers.

Groundwater parameters (i.e., pH, temperature, dissolved oxygen (DO), oxidation reduction potential (ORP), and electrical conductivity) were measured to evaluate the entrance of actual formation water into the well. Cardno ATC placed the inlet of the pump in the middle of the saturated zone for each well (between top of groundwater and bottom of well) for consistency with previous events. Groundwater was pumped at a flow rate of 0.25 L/min. The pump rate was lowered following the stabilization of groundwater parameters to minimize turbulence, and

groundwater was transferred to clean laboratory-supplied 40-milliliter glass volatile organic analysis vials (VOAs), sealed, labeled, and placed in a cool environment for transport to an NDEP-certified laboratory for analysis.

The groundwater monitoring procedure for MW-40 CMT wells had to be modified due to the well construction of MW-40 CMT. CMT is a product manufactured by Solinst that stands for continuous multichannel tubing, meaning that there are multiple tubings set at different depths in one borehole. The benefits of a CMT well is that each channel of tubing allows for discrete sampling at a particular depth which in turn gives a three dimensional view of contamination through the entire range of sampling depths, rather than an average of the entire well length. The method used for groundwater sampling all depths of MW-40 CMT was a 3/8 inch Model 408M Micro Double Valve Pump. The double-valve pump is a pneumatic pump which was set to the bottom of each well depth, and pumped at each depth until groundwater parameters stabilized, and then groundwater was transferred to clean laboratory-supplied 40-milliliter glass volatile organic analysis vials (VOAs), sealed, labeled, and placed in a cool environment for transport to an NDEP-certified laboratory for analysis.

Decontamination procedures were performed throughout sampling. The pump, water level meter, and field meter probe were decontaminated after sampling each well. Purge water generated during the sampling of the monitoring wells was containerized in properly labeled steel 55-gallon drums and stored onsite pending off-site disposal.

Cardno ATC submitted the collected groundwater samples to an NDEP-certified analytical laboratory for the analysis of volatile organic compounds (VOCs) using U.S. Environmental Protection Agency (EPA) Method 8260B. The analysis of metals (arsenic, chromium, and manganese) using EPA method 6020 for wells MW-19, MW-19I, MW-20, and all depths of MW-40 CMT, and the analysis of hexavalent chromium using EPA method 218.6 for wells MW-19, MW-20, and all depths of MW-40 CMT was also performed.

Groundwater data collected during this sampling event are summarized in Table 1 and Table A-1. Monitoring and sampling field sheets are included in Appendix A.

2.1 Deviations

Trip, field, and equipment blanks were sent to the lab along with the groundwater samples collected at each monitoring well in order to insure quality control. Cardno ATC also collected duplicate groundwater samples from monitoring wells MW-5, MW-6D1, MW-9, MW-19D2, MW-32, MW-38, and MW-40 CMT-60.

Laboratory analysis of each groundwater sample produced quantitative data within quality assurance standards, with the exception of the analysis for hexavalent chromium from MW-19I. The sample for MW-19I was purple, most likely due to saturation from the prior nearby potassium permanganate pilot test, and therefore the analysis could not be performed. Surrogate compound recoveries associated with each field sample consistently verified proper analytical technique. No laboratory quality control data were flagged outside of established tolerances. The analytical data on water quality for the fourth quarter were accepted as representative of actual site conditions.

Laboratory analysis also produced inconsistent results between MW-40 CMT-60 and the duplicate sample taken at MW-40 CMT-60 (190 µg/L and 410 µg/L). The difference in concentration between the MW-40 CMT-60 samples is assumed to be due to the lack of mixing in the composite sample. Sample water was deposited into a 1 liter amber jar that was then poured into the 40-milliliter VOAs. The lab analyzed each VOA (three total) from each sample and the results were similar indicating that the lab concentrations were accurate. During future events the mixing of the composite sample will be ensured.

2.2 Groundwater Conditions

Groundwater elevations for this sampling event are summarized in Table 1, while historical groundwater data are summarized in Table A-1. Depths to groundwater in the wells sampled during this quarterly event ranged from 14.97 feet bgs (MW-38) to 27.71 feet bgs (MW-19D2). The average groundwater elevation of monitored wells (excluding MW-40 CMT-35 through CMT-60) was 20.38 feet bgs. There was a 0.63 foot increase when comparing similar monitoring wells that had groundwater measurements for both the Third Quarter 2013 and Fourth Quarter 2013. Based on the fourth quarter results, the local hydraulic gradient across the site is generally toward the east.

DO readings for across the site ranged from 0.42 to 5.74 milligrams per liter (mg/L). ORP readings from across the site ranged from -78.4 to 579.4 millivolts (mV).

2.2.1 Vertical Gradient Assessment

Cardno ATC utilized measured groundwater elevations to determine vertical gradients within the five sets of clustered wells at the site (MW-1/MW-9, MW-6D, MW-19D, MW-20D, and MW-40 CMT). Vertical gradients are measured to determine the upward or downward flow of groundwater. Clustered wells measured will have a deep and shallow well that are screened at different lengths which shows the vertical movement of the water within the adjacent geologic units. The EPA On-Line Vertical Gradient Calculator (http://www.epa.gov/athens/learn2model/part-two/onsite/vgradient.html) was used to determine the vertical gradient at the various well clusters.

Clustered Well	Surface Elevation (feet asml)	Depth to Well Screen (feet bgs)	Screen Length (feet)	Depth to Water (feet bgs)	Magnitude (Screen mid-point value)	Flow Direction
MW-1 MW-9	MW-1: 1992.01 MW-9: 1992.25	MW-1: 10 MW-9: 48.5	MW-1: 20 MW-9: 1.5	MW-1: 20.31 MW-9: 20.53	0.0008384	Up
MW-6D1 MW-6D2	MW-6D1: 1988.72 MW-6D2: 1988.72	MW-6D1: 50 MW-6D2: 80	MW-6D1: 10 MW-6D2: 10	MW-6D1: 19.24 MW-6D2: 18.94	0.01000	Up
MW-6D2 MW-6D3	MW-6D2: 1988.72 MW-6D3: 1988.72	MW-6D2: 80 MW-6D3: 100	MW-6D2: 10 MW-6D3: 10	MW-6D2: 18.94 MW-6D3: 22.16	0.1610	Down
MW-19D1 MW-19D2	MW-19D1: 1979.25 MW-19D2: 1979.28	MW-19D1: 31 MW-19D2: 60	MW-19D1: 20 MW-19D2: 10	MW-19D1: 26.70 MW-6D3: 27.71	0.04088	Down
MW-19D2 MW-19D3	MW-19D2: 1979.28 MW-19D3: 1979.32	MW-19D1: 60 MW-19D2: 92	MW-19D1: 10 MW-19D2: 10	MW-19D1: 27.71 MW-6D3: 25.42	0.07290	Up
MW-20D1 MW-20D2	MW-20D1: 1978.81 MW-20D2: 1978.66	MW-20D1: 25 MW-20D2: 55	MW-20D1: 20 MW-20D2: 10	MW-20D1: 26.60 MW-20D2: 26.92	0.1930	Down
MW-20D2 MW-20D3	MW-20D2: 1978.66 MW-20D3: 1978.69	MW-20D2: 55 MW-20D3: 90	MW-20D2: 10 MW-20D3: 10	MW-20D2: 26.92 MW-20D3: 26.57	0.01087	Up
MW-40 CMT-30 MW-40 CMT-45	MW-40 CMT-30: 1978.48 MW-40 CMT-45: 1978.48	MW-40 CMT-30: 30 MW-40 CMT-45: 45	MW-40 CMT-30: 0.6 MW-40 CMT-45: 0.6	MW-40 CMT-30: 26.35 MW-40 CMT-45: 26.16	0.05067	Up
MW-40 CMT-45 MW-40 CMT-55	MW-40 CMT-45: 1978.48 MW-40 CMT-55: 1978.48	MW-40 CMT-45: 45 MW-40 CMT-55: 55	MW-40 CMT-45: 0.6 MW-40 CMT-55: 0.6	MW-40 CMT-45: 26.16 MW-40 CMT-55: 26.15	0.001000	Up

2.3 Groundwater Analytical Results

Cardno ATC collected groundwater samples on November 4th, 5th, 6th, 7th, 8th, 11th, and 12th, 2013 from the existing groundwater monitoring wells (MW-1, MW-2, MW-5, MW-6, MW-7, MW-8, MW-9, MW-12, MW-13, MW-14, MW-17, MW-18, MW-19, MW-20, MW-23, MW-25, MW-26, MW-27, MW-31 through MW-43, MW-14I, MW-19I, MW-6D1, MW-6D2, MW-6D3, MW-19D1, MW-19D2, MW-19D3, MW-20D1, MW-20D2, and MW-20D3) over the vicinity of the site (Figure 2).

Groundwater samples were submitted to Advanced Technologies Laboratory (ATL) of Las Vegas, Nevada, an NDEP-certified laboratory, for the analysis of VOCs using EPA method 8260B for samples collected, the analysis of metals (arsenic, chromium, and manganese) using EPA method 6020 for wells MW-19, MW-19I, MW-20, and all depths of MW-40 CMT, and the analysis of hexavalent chromium using EPA method 218.6 for wells MW-19, MW-20, and the depths of MW-40 CMT.

The laboratory analytical results compared with qualitative changes in groundwater elevation and concentrations are summarized in Table 1. Laboratory analytical reports are provided in Appendix B.

Table 2: Groundwater Elevations, Current PCE/TCE Concentrations, and PCE Plume Stability Test

Well ID	Depth to GW Level (feet)	Groundwater Elevation (feet amsl)	PCE (µg/L)	TCE (µg/L)	Mann-Kendall Trend (Since Well Installation)
MW-1	20.31	1971.70	270	<0.50	Decreasing
MW-2	19.27	1964.26	720	2.3	Decreasing
MW-3	NM	NM	NS	NS	No Trend
MW-5	19.62	1969.17	690	2.8	Increasing
MW-6	20.14	1967.98	3,100	12	Increasing
MW-6D1	19.24	1969.48	3.2	<0.50	No Trend
MW-6D2	18.94	1969.78	3.3	<0.50	No Trend
MW-6D3	22.16	1966.56	3.0	<0.50	No Trend
MW-7	18.40	1972.38	8.4	<0.50	Increasing
MW-8	20.60	1971.11	2.2	<0.50	Decreasing
MW-9	20.53	1971.72	11	<0.50	Decreasing
MW-10	NM	NM	NS	NS	No Trend
MW-11	NM	NM	NS	NS	N/A[2]
MW-12	16.66	1979.29	0.86	<0.50	No Trend
MW-13	18.50	1964.81	1,800	3.5	Decreasing
MW-14	18.96	1968.37	1,500	2.7	Decreasing
MW-14I	19.53	1968.01	10,000	38	Stable
MW-15	NM	NM	NS	NS	Stable
MW-16	NM	NM	NS	NS	N/A[2]
MW-17	19.90	1971.14	120	<0.50	Decreasing
MW-18	13.62	1949.28	780	<0.50	Decreasing
MW-19	27.48	1952.65	440	3.2	**Decreasing** (Probably Decreasing 3rd Quarter 2013)

Well ID	Depth to GW Level (feet)	Groundwater Elevation (feet amsl)	PCE (µg/L)	TCE (µg/L)	Mann-Kendall Trend (Since Well Installation)
MW-19I	26.47	1951.90	<0.50	<0.50	No Trend
MW-19D1	26.70	1952.55	620	3.5	No Trend
MW-19D2	27.71	1951.57	<0.50	<0.50	No Trend
MW-19D3	26.05	1953.27	160	0.75	No Trend
MW-20	27.28	1952.54	530	1.4	Decreasing
MW-20D1	26.60	1952.21	260	0.86	No Trend
MW-20D2	26.92	1951.74	160	1.0	No Trend
MW-20D3	26.57	1952.12	62	<0.50	No Trend
MW-21	NM	NM	NS	NS	Decreasing
MW-22	NM	NM	NS	NS	N/A[2]
MW-23	17.57	1944.88	900	1.8	Decreasing
MW-24	NM	NM	NS	NS	Probably Decreasing
MW-25	20.87	1938.42	700	0.88	Decreasing
MW-26	19.02	1934.43	770	0.62	Decreasing
MW-27	17.49	1926.66	420	0.94	No Trend
MW-28	NM	NM	NS	NS	Decreasing
MW-29	NM	NM	NS	NS	Decreasing
MW-30	19.89	1920.70	96	0.58	**Probably Decreasing** (Decreasing 3rd Quarter 2013)
MW-31	18.55	1919.11	54	<0.50	No Trend
MW-32	20.68	1932.22	610	2.0	Decreasing
MW-33	19.40	1931.58	<0.50	<0.50	Decreasing
MW-34	19.14	1974.74	500	0.86	Decreasing
MW-35	19.93	1971.44	310	<0.50	Decreasing
MW-36	21.22	1934.08	130	<0.50	Stable
MW-37	19.79	1910.19	33	<0.50	No Trend
MW-38	14.97	1893.41	7.0	<0.50	Probably Increasing
MW-39	26.01	1941.54	260	0.81	**No Trend** (Stable 3rd Quarter 2013)
MW-40 CMT-30	26.35	1952.14	1.3	<0.50	**Decreasing** (No Trend 3rd Quarter 2013)
MW-40 CMT-35	26.20	1952.29	12	2.4	No Trend
MW-40 CMT-40	26.19	1952.30	51	0.64	Decreasing
MW-40 CMT-45	26.16	1952.33	77	1.1	Stable
MW-40 CMT-50	26.15	1952.34	120	1.8	**Stable** (Decreasing 3rd Quarter 2013)
MW-40 CMT-55	26.15	1952.34	110	0.86	Decreasing
MW-40 CMT-60	26.16	1952.33	190	3.6	Decreasing

Well ID	Depth to GW Level (feet)	Groundwater Elevation (feet amsl)	PCE (µg/L)	TCE (µg/L)	Mann-Kendall Trend (Since Well Installation)
MW-41	15.05	1893.84	2.6	<0.50	N/A[1]
MW-42	16.32	1893.99	0.60	<0.50	N/A[1]
MW-43	16.96	1941.37	<0.50	<0.50	N/A[1]

Notes: [1]Unable to evaluate trend without at least four sampling events of data
Notes: [2]Mann-Kendall Trend Test was not utilized on MW-11, MW-16, and MW-22 because they had historically been reported under laboratory detection limits
NM = Not sampled and dtw measurements not taken
Amsl: Above Mean Sea Level
Bold: Trend change from previous quarter

The groundwater locations selected for quarterly monitoring represent the most recently installed wells and wells that cover the groundwater conditions at the Maryland Square site. The range of groundwater elevations spanned from 1893.41 feet above mean sea level (amsl) (MW-38) to 1979.29 feet amsl (MW-12). Groundwater elevations are summarized in Tables 1, 1-A, and 2-A.

Groundwater elevations increased across groundwater monitoring wells located on the Maryland Square property by 0.21 feet compared with the same wells from the Third Quarter 2013 data. Groundwater elevations across the Boulevard Mall property increased by an average of 0.86 feet. Groundwater elevations increased across groundwater monitoring wells located on the surrounding streets and golf course area by 0.26 feet when compared with the Third Quarter 2013 data. Application of a large volume of irrigation water at the golf course, especially during summer months, may influence water elevation in shallow groundwater measured in the monitoring wells. This influence is historically observed in MW-27, MW-28, MW-30, MW-31, MW-32, and MW-33.

PCE was detected in the groundwater samples collected from monitoring wells except MW-19D2, MW-19I, MW-33, and MW-43. PCE was detected at concentrations ranging from 0.60 µg/L (MW-42) to 10,000 µg/L (MW-14I). PCE concentrations identified by the laboratory in the groundwater samples collected from wells MW-1, MW-2, MW-5, MW-6, MW-7, MW-9, MW-13, MW-14, MW-14I, MW-17, MW-18, MW-19, MW-19D1, MW-19D3, MW-20, MW-20D1, MW-20D2, MW-20D3, MW-23, MW-25, MW-26, MW-27, MW-30, MW-31, MW-32, MW-34 through MW-39, and MW-40 CMT-35 through MW-40 CMT-60 exceeded the maximum contaminant levels (MCL) for PCE in groundwater of 5 µg/L.

The groundwater sample collected from monitoring well MW-19D3 had a reported PCE concentration of 160 µg/L, which was a decrease from Third Quarter 2013 where a concentration of 710 µg/L was detected. However, First and Second Quarter 2013 showed PCE concentrations of 0.50 µg/L and 0.68 µg/L, respectively. An additional sample was taken during the Fourth Quarter 2013 sampling event while utilizing a high volume pump. The high volume pump was used to purge 36 gallons of water from the well which resulted in a drawdown of greater than 60 feet within the well casing. The sample obtained after purging was also 160 µg/L, which shows that the sample obtained through low-flow sampling was valid.

Duplicate samples were collected from MW-5, MW-6D1, MW-9, MW-19D2, MW-32, MW-38, and MW-40 CMT-60. MW-5 PCE concentrations were measured at 690 µg/L and 690 µg/L, a relative percent difference (RPD) of 0.0%. MW-6D1 PCE concentrations were measured at 3.2 µg/L and 3.5 µg/L, a RPD of 9.0%. MW-9 PCE concentrations were measured at 11 µg/L and 11 µg/L, a RPD of 0.0%. MW-19D2 PCE concentrations were measured at <0.50 µg/L and <0.50 µg/L, a RPD of 0.0%. MW-32 PCE concentrations were measured at 610 µg/L and 660 µg/L, a RPD of 7.9%. MW-38 PCE concentrations were measured at 7.0 µg/L and 6.8 µg/L, a RPD of 2.9%. MW-42 PCE concentrations were measured at 130 µg/L and 110 µg/L, a RPD of 16.7%. MW-40 CMT-60 PCE concentrations were measured at 190 µg/L and 410 µg/L, a RPD of 73.3%.The duplicate sample results do not show significant statistical variation based on the levels of the concentrations, except for MW-40 CMT-60. The difference in concentration between the MW-40 CMT-60 samples is assumed to be due to the lack of mixing

in the composite sample. Sample water was deposited into a 1 liter amber jar that was then poured into the 40-milliliter VOAs. The lab analyzed each VOA (three total) from each sample and the results were similar indicating that the lab concentrations were accurate. During future events the mixing of the composite sample will be ensured.

The Mann-Kendall Trend Test for Plume Stability was used to determine whether the plume is increasing, probably increasing, decreasing, probably increasing, stable, or showing no trend at each particular well. At least four quarters of sampling data is needed for the test to determine whether the plume is increasing or decreasing at a well, so the wells installed this year were not included in the anaylsis. A confidence factor greater than 95% was needed to state whether PCE concentrations at a given well are increasing or decreasing. A confidence factor between 90% and 95% was needed to state PCE concentrations at a given well are increasing or decreasing. Past sample data was gathered for each well. Results of the Mann-Kendall Test indicated that the PCE plume was decreasing at twenty four wells and increasing at three wells. The Mann-Kendall Test also showed that the plume was probably decreasing at two wells, probably increasing at one well, stable at five wells, and showed no trend at eighteen wells (twenty-one including MW-11, MW-16, and MW-22 which weren't analysed due to historically low readings).

There are currently three approximate vertical zones that monitoring wells are grouped in at the site. PCE concentrations and plume size varied significantly based on its location among the three zones. The upper zone contains the majority of monitoring wells, and covers the wells sampled from 25 feet bgs to 40 feet bgs The intermediate zone is considered to be wells with screen intervals and pump inlet levels from 40 feet bgs to 55 feet bgs, and the lower zone is considered to be wells with screen intervals and pump inlet levels greater than 55 feet bgs.

Trichloroethene (TCE) was detected at concentrations ranging from 0.58 µg/L to 38 µg/L in the groundwater samples collected from wells MW-2, MW-5, MW-6, MW-13, MW-14, MW-14I, MW-19, MW-19D1, MW-19D3, MW-20, MW-20D1, MW-20D2, MW-23, MW-25, MW-26, MW-27, MW-30, MW-32, MW-34, MW-39, and MW-40 CMT-35 through MW-40 CMT-60. The detected concentrations were below the MCL for TCE in groundwater of 5 µg/L, with the exception of MW-6 (12 µg/L) and MW-14I (38 µg/L).

Cis-1,2-dichloroethene (DCE) was detected in monitoring wells MW-5 (1.2 µg/L), MW-6 (3.5 µg/L), and MW-14I (17 µg/L), MW-20D2 (0.81 µg/L), and MW-40 CMT-60 (2.5 µg/L). The detected concentrations were below the MCL for DCE in groundwater of 70 µg/L.

Vinyl chloride (VC) was not detected at concentrations in excess of laboratory detection levels (0.50 µg/L). The presence of small amounts of TCE and cis-1,2 DCE suggests that reductive dechlorination is not significant at the site.

Metals and Hexavalent Chromium were also analyzed this quarter, to compare with concentrations obtained by Tetra Tech after recent pilot tests were conducted using potassium permanganate ($KMnO_4$) and PulseOx. The following table shows Tetra Tech data along with concentrations detected during Cardno ATC's successive sampling events.

Table 3: Summary of Metals Concentrations in Select Wells, 4th Quarter 2013

Well ID	Date	PCE (µg/L)	Arsenic (µg/L)	Manganese (µg/L)	Chromium (µg/L)	Hexavalent Chromium (µg/L)
MW-19 ($KMnO_4$ Pilot Test, upgradient)	03/08/13	520	7.4	170	17	NA
	03/12/13	390	2	120,000	25	NA
	03/27/13	14	0.33	43,000	130	NA
	04/04/13	110	2	7,100	79	NA
	04/11/13	220	1.8	5,400	44	NA
	05/02/13	810	2.7	460	9.7	NA
	06/14/13	530	2.3	68	4.6	2.5
	09/09/13	840	4.0	<0.50	1.8	1.9
	11/07/13	440	3.3	<0.50	1.3	1.7
MW-19I	03/08/13	710	2.0	ND	1.6	NA

Well ID	Date	PCE (µg/L)	Arsenic (µg/L)	Manganese (µg/L)	Chromium (µg/L)	Hexavalent Chromium (µg/L)
($KMnO_4$ Pilot Test, downgradient)	03/12/13	280	1.7	2,700	14	NA
	03/26/13	9.4	0.93	27,000	44	NA
	04/04/13	3.5	3	4,700	170	NA
	04/11/13	1.7	0.19	9,400	52	NA
	05/02/13	0.61	1.2	20,000	43	NA
	06/12/13	<0.50	0.34	62,000	87	NA*
	09/09/13	<0.50	0.24	26,000	12	NA*
	11/08/13	<0.50	1.1	48,000	290	NA*
MW-20 (PulseOx Pilot Test, upgradient)	03/26/13	290	4.7	NA	4.3	NA
	04/10/13	480	5.6	NA	9.7	NA
	04/23/13	850	6.1	NA	8.8	NA
	05/02/13	470	4	NA	2.7	NA
	06/12/13	660	2.4	<0.50	1.6	1.1
	09/09/13	570	3.2	<0.50	1.1	1.2
	11/07/13	530	2.6	<0.50	<1.0	1.3
MW-40 CMT-30 (PulseOx Pilot Test, downgradient)	03/25/13	4.7	4	NA	ND	NA
	04/10/13	0.86	7.2	NA	65	NA
	04/23/13	8.8	4.6	NA	180	NA
	05/01/13	1.2	5.9	NA	210	NA
	06/14/13	10	3.9	<0.50	140	140
	09/04/13	2.1	2.3	43	55	120
	11/06/13	1.3	3.6	77	110	110
MW-40 CMT-35 (PulseOx Pilot Test, downgradient)	03/25/13	14	14	NA	ND	NA
	04/10/13	6.9	6.9	NA	ND	NA
	04/23/13	2.6	2.6	NA	5.7	NA
	05/01/13	3.5	3.5	NA	25	NA
	06/14/13	3.6	4	250	2.9	1.1
	09/04/13	9.6	9.6	450	<1.0	0.23
	11/06/13	12	7.8	430	<1.0	<0.20
MW-40 CMT-40 (PulseOx Pilot Test, downgradient)	03/25/13	270	2.5	NA	3.2	NA
	04/10/13	94	2.5	NA	6.6	NA
	04/23/13	150	2.4	NA	20	NA
	05/01/13	96	3.3	NA	38	NA
	06/14/13	53	3.0	26	9.8	22
	09/04/13	37	2.7	100	22	25
	11/06/13	51	1.9	61	14	15
MW-40 CMT-45 (PulseOx Pilot Test, downgradient)	03/25/13	310	2.4	NA	ND	NA
	04/10/13	120	2.0	NA	15	NA
	04/23/13	100	1.8	NA	41	NA
	05/01/13	78	2.7	NA	47	NA
	06/17/13	47	1.6	<0.50	39	43
	09/04/13	110	2.4	100	7.6	8.3
	11/06/13	77	1.5	110	6.0	6.1
MW-40 CMT-50 (PulseOx Pilot Test, downgradient)	03/25/13	280	4.1	NA	ND	NA
	04/10/13	110	2.2	NA	14	NA
	04/23/13	120	2	NA	38	NA
	05/01/13	79	3.1	NA	41	NA
	06/17/13	64	2.2	<0.50	8.2	8.9
	09/11/13	24	4.3	43	<1.0	0.39
	11/06/13	120	1.9	250	<1.0	0.35
MW-40 CMT-55 (PulseOx Pilot Test, downgradient)	03/25/13	390	1.5	NA	ND	NA
	04/10/13	570	1.6	NA	3.9	NA
	04/23/13	510	1.5	NA	10	NA
	05/01/13	430	2.7	NA	12	NA

Well ID	Date	PCE (µg/L)	Arsenic (µg/L)	Manganese (µg/L)	Chromium (µg/L)	Hexavalent Chromium (µg/L)
	06/17/13	200	1.6	<0.50	26	27
	09/11/13	38	3.4	38	<1.0	0.49
	11/06/13	110	2.4	69	20	11
MW-40 CMT-60 (PulseOx Pilot Test, downgradient)	03/25/13	1,200	1.8	NA	ND	NA
	04/10/13	1,200	1.7	NA	ND	NA
	04/23/13	1,400	1.5	NA	1.1	NA
	05/01/13	1,200	2.7	NA	2	NA
	06/17/13	1,000	1.4	<0.50	5.7	6.6
	09/11/13	20	2.5	18	<1.0	0.92
	11/06/13	190	0.96	43	3.2	3.7

Notes: NA=Not Analyzed
ND=Non Detect
Shaded row represents baseline test
*=Sample could not be analysed for Cr(VI) because sample was saturated with potassium permanganate

The primary metal of concern was the effects of the oxidant on trivalent and hexavalent chromium concentrations in groundwater. Cardno ATC performed groundwater testing after the completion of the pilot testing and found elevated levels of chromium in the tested wells, except for MW-19 and MW-20, compared to before pilot testing. Both MW-19 and MW-20 are located upgradient from the pilot testing. Cardno ATC also performed analysis of hexavalent chromium (Cr(VI)), because the oxidizing effect of the two treatments has the potential to change the non-toxic, non- mobile Cr(III) into the acutely toxic, mobile Cr(VI). Total chromium and hexavalent chromium levels have decreased in three of wells analysed compared to the previous quarter, but increased in three wells also. Hexavalent chromium levels ranged from 0.35 µg/L to 110 µg/L. Monitoring wells MW-19I (290 µg/L) and MW-40 CMT-30 (110 µg/L) exceeded the MCL of 100 µg/L for total chromium in groundwater. No MCL has been established for CR(VI), but NDEP has set a basic comparison level (BCL) of 110 µg/L in groundwater, which was equivalent to the CR(VI) concentration at MW-40 CMT-30. Literature suggests that the increase of chromium levels may be a temporary condition. This will continue to be monitored until pre-pilot test conditions are identified.

3 Summary

Cardno ATC provides the following summary based on the results of the Fourth Quarter 2013 groundwater sampling event:

- Tetrachloroethene (PCE) was detected at concentrations ranging from 0.60 µg/L to 10,000 µg/L. The MCL for PCE in groundwater is 5 µg/L. PCE concentrations are summarized in the following table:

Table 4: Summary of PCE Concentrations in Monitoring Wells across the Site, 4th Quarter 2013

Non Detect (<0.50 µg/L)	>0.50 µg/L to <5.0 µg/L	5.0 µg/L to 10,000 µg/L	
MW-19I	MW-6D1	MW-1	MW-25
MW-19D2	MW-6D2	MW-2	MW-26
MW-33	MW-6D3	MW-5	MW-27
MW-43	MW-8	MW-6	MW-30
	MW-12	MW-7	MW-31
	MW-40 CMT-30	MW-9	MW-32
	MW-41	MW-13	MW-34
	MW-42	MW-14	MW-35
		MW-14I	MW-36
		MW-17	MW-37
		MW-18	MW-38
		MW-19	MW-39
		MW-19D1	MW-40 CMT-35
		MW-19D3	MW-40 CMT-40
		MW-20	MW-40 CMT-45
		MW-20D1	MW-40 CMT-50
		MW-20D2	MW-40 CMT-55
		MW-20D3	MW-40 CMT-60
		MW-23	

- Trichloroethene (TCE) was detected at concentrations ranging from 0.58 µg/L to 38 µg/L. The MCL for TCE in groundwater is 5 µg/L. TCE concentrations are summarized in the following table:

Table 5: Summary of TCE Concentrations in Monitoring Wells across the Site, 4th Quarter 2013

Non Detect (<0.50 µg/L)	>0.5 µg/L to <5.0 µg/L	5.0 µg/L to 38 µg/L
MW-1	MW-2	MW-6
MW-6D1	MW-5	MW-14I
MW-6D2	MW-13	
MW-6D3	MW-14	
MW-7	MW-19	
MW-8	MW-19D1	
MW-9	MW-19D3	
MW-12	MW-20	
MW-17	MW-20D1	
MW-18	MW-20D2	
MW-19I	MW-23	
MW-19D2	MW-25	
MW-20D3	MW-26	

Non Detect (<0.50 µg/L)	>0.5 µg/L to <5.0 µg/L	5.0 µg/L to 38 µg/L
MW-31	MW-27	
MW-33	MW-30	
MW-35	MW-32	
MW-36	MW-34	
MW-37	MW-39	
MW-38	MW-40 CMT-35	
MW-40 CMT-30	MW-40 CMT-40	
MW-41	MW-40 CMT-45	
MW-42	MW-40 CMT-50	
MW-43	MW-40 CMT-55	
	MW-40 CMT-60	

- Cis-1,2-dichloroethene (DCE) was detected in monitoring wells MW-5 (1.2 µg/L), MW-6 (3.5 µg/L), MW-14I (17 µg/L), MW-20D2 (0.81 µg/L), and MW-40 CMT-60 (2.5 µg/L). The detected concentrations were below the MCL for DCE in groundwater of 70 µg/L.

- Hexavalent Chromium (Cr(VI)) was detected in monitoring wells MW-19 (1.7 µg/L), MW-20 (1.3 µg/L), MW-40 CMT-30 (110 µg/L), MW-40 CMT-40 (15 µg/L), MW-40 CMT-45 (6.1 µg/L), MW-40-CMT-50 (0.35 µg/L), MW-40 CMT-55 (11 µg/L), and MW-40 CMT-60 (3.7 µg/L). NDEP has set a basic comparison level (BCL) of 110 µg/L in groundwater, which was equivalent to the CR(VI) concentration at MW-40 CMT-30.

3.1 Recommendations

Cardno ATC would like to recommend a 2014 monitoring and sampling schedule for site monitoring wells. The original NDEP issued groundwater sampling schedule from December 22, 2009, called for quarterly testing of all wells that did not have at least eight samples of data. Many of the site wells have greater than eight samples of quarterly data collected, and also have shown a decreasing trend of concentrations when ran through the Mann-Kendall Trend Test for Plume Stability. Therefore, Cardno ATC would request that a reduction in quarterly monitoring wells be limited to those wells with less than eight quarters of sampling data, wells showing an increasing or probably increasing trend from the Mann-Kendall Trend Test, and select monitoring wells located across the plume. To limit the number of wells sampled, not all depths of nested wells will be sampled. The proposed 2014 sample schedule would be as follows:

- First Quarter – MW-1 through MW-3, MW-5 through MW-43, MW-14I, MW-19I, MW-6D1, MW-6D2, MW-6D3, MW-19D1, MW-19D2, MW-19D3, MW-20D1, MW-20D2, and MW-20D3.

- Second Quarter – MW-1, MW-5, MW-6, MW-7, MW-9, MW-18, MW-27, MW-38, MW-40 CMT-30, MW-40 CMT-45, MW-40 CMT-60, MW-41, MW-42, MW-43, MW-6D1, MW-14I, MW-19I, MW-19D1, MW-19D2, MW-19D3, and MW-20D2 (plus any newly installed wells).

- Third Quarter – MW-1, MW-5, MW-6, MW-7, MW-9, MW-18, MW-27, MW-38, MW-40 CMT-30, MW-40 CMT-45, MW-40 CMT-60, MW-41, MW-42, MW-43, MW-6D1, MW-14I, MW-19I, MW-19D1, MW-19D2, MW-19D3, and MW-20D2 (plus any newly installed wells).

- Fourth Quarter – MW-1, MW-5, MW-6, MW-7, MW-9, MW-18, MW-27, MW-38, MW-40 CMT-30, MW-40 CMT-45, MW-40 CMT-60, MW-41, MW-42, MW-43, MW-6D1, MW-14I, MW-19I, MW-19D1, MW-19D2, MW-19D3, and MW-20D2 (plus any newly installed wells).

In addition, to limit the number of samples Cardno ATC also requests that the three daily blank samples (trip, field, and equipment) be eliminated because the sampling techniques employed have proven to be effective at preventing

cross-contamination during sampling activities. Cardno ATC recommends discontinuing the daily duplicate sample as well, because the laboratory analysis has also proven to be consistent.

Cardno ATC would also like to note that the proposed monitoring schedule will be altered in the event that active remediation efforts are undertaken at the site during 2014. The consultant responsible for performing the remediation activities and monitoring activities will also be responsible for creating an appropriate monitoring schedule with NDEP.

Cardno ATC is currently assessing possible options and strategies for performing a tracer test at the three nested wells of MW-19D.

A copy of this report has been forwarded to the NDEP case officer for review.

3.2 Limitations

This report has been prepared for the exclusive use of Herman Kishner Trust, as it pertains to Maryland Square PCE Site located at 3661 South Maryland Parkway, in Las Vegas, Nevada. Our professional services have been performed, our findings obtained, and our recommendations prepared in accordance with customary principles and practices in the fields of environmental science and engineering. This warranty is in lieu of all other warranties either expressed or implied. This company is not responsible for the independent conclusions, opinions, or recommendations made by others based on the records review, site inspection, field exploration, and laboratory test data presented in this report.

It should be noted that all surficial environmental assessments are inherently limited in the sense that conclusions are drawn and recommendations developed from information obtained from limited research and site evaluation. For these types of evaluations, it is often necessary to use information prepared by others and Cardno ATC cannot be responsible for the accuracy of such information. In addition, the passage of time may result in a change in the environmental characteristics at this site and surrounding properties. This report does not warrant against future operations or conditions, nor does it warrant operations or conditions present of a type or at a location not investigated. This report is not a regulatory compliance audit and is not intended to satisfy the requirements of any state, federal, or local real estate transfer laws.

It must be noted that no investigation can absolutely rule out the existence of any hazardous materials at a given site. This assessment has been based upon prior site history, observable conditions, and the subsurface soil sampling described in this report. Existing hazardous materials and contaminants can escape detection using these methods

4 Environmental Certification Jurat

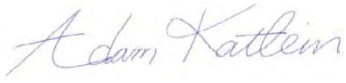
This Fourth Quarter 2013 Groundwater Monitoring Report for Maryland Square PCE Site located at 3661 South Maryland Parkway, Las Vegas, Nevada, has been prepared in accordance with Nevada Administrative Code (NAC), Chapter 459, Section 9717.

I hereby certify that I am responsible for the services described in this document and for the preparation of this document. The services described in this document have been provided in a manner consistent with the current standards of the profession and, to the best of my knowledge, comply with all applicable Federal, State and local statutes, regulations and ordinances.

If you have any questions or require additional information, please feel free to contact the undersigned at (702) 990-9300.

Sincerely,

Cardno ATC



Adam Katlein
Senior Staff Scientist

Andrew D. Stuart
Senior Project Manager
Nevada Certified Environmental Manager
No. EM-1905 (Expires 01/26/15)

cc: Dr. Mary Siders, Nevada Division of Environmental Protection-Carson City, Nevada

Maryland Square PCE Site

TABLES

Cardno ATC

Shaping the Future

Table A-1: Current Groundwater Gauging and Analytical Data
Maryland Square Shopping Center

Well ID	Date of Well Installation	Date of Sampling	Top of Casing Elevation (feet msl)	Depth to Groundwater Level (feet)	Groundwater Elevation (feet msl)	Screen Interval (feet bgs)	Dissolved Oxygen (mg/L)	TDS (g/L)	ORP (mV)	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)
Project Monitoring Wells Located on Maryland Square Property												
MW-1	Aug 00	Nov 13	1992.01	20.31	1971.70	10-30	0.31	2.2	165.9	**270**	<0.50	<0.50
MW-7	Sep 02	Nov 13	1990.78	18.40	1972.38	10-30	1.64	2.2	165.0	**8.4**	<0.50	<0.50
MW-8	Sep 02	Nov 13	1991.71	20.60	1971.11	10-30	2.34	2.1	193.5	2.2	<0.50	<0.50
MW-9	Sep 02	Nov 13	1992.25	20.53	1971.72	48.5-50	0.57	0.8	55.7	**11**	<0.50	<0.50
MW-12	Sep 02	Nov 13	1995.95	16.66	1979.29	13.5-33.5	1.10	2.2	188.8	0.86	<0.50	<0.50
MW-17	Nov 03	Nov 13	1991.04	19.90	1971.14	15-30	0.42	2.1	153.9	**120**	<0.50	<0.50
MW-34	Dec 11	Nov 13	1993.88	19.14	1974.74	--	0.85	2.3	184.2	**500**	0.86	<0.50
MW-35	Dec 11	Nov 13	1991.37	19.93	1971.44	--	1.75	2.2	184.3	**310**	<0.50	<0.50
Project Monitoring Wells Located on Boulevard Mall Property												
MW-2	Oct 00	Nov 13	1983.53	19.27	1964.26	10-32	1.97	2.4	83.2	**720**	2.3	0.9
MW-3	Oct 00	Nov 13	1983.81	NM	NM	10-31	NM	NM	NM	NS	NS	NS
MW-4	Oct 00	Mar 12	1989.86	NM	NM	10-32	NM	NM	NM	NS	NS	NS
MW-5	Oct 00	Nov 13	1988.69	19.52	1969.17	10-32	4.12	2.3	89.9	**690**	2.8	1.2
MW-6	Oct 00	Nov 13	1988.12	20.14	1967.98	10-32	3.13	2.3	97.4	**3,100**	**12**	3.5
MW-6D1	Jan 13	Nov 13	1988.72	19.24	1969.48	50-60	5.03	0.4	84.4	3.2	<0.50	<0.50
MW-6D2	Jan 13	Nov 13	1988.72	18.94	1969.78	80-90	NM	0.4	23.8	3.3	<0.50	<0.50

Table A-1: Current Groundwater Gauging and Analytical Data
Maryland Square Shopping Center

Well ID	Date of Well Installation	Date of Sampling	Top of Casing Elevation (feet msl)	Depth to Groundwater Level (feet)	Groundwater Elevation (feet msl)	Screen Interval (feet bgs)	Dissolved Oxygen (mg/L)	TDS (g/L)	ORP (mV)	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)
Project Monitoring Wells Located on Boulevard Mall Property												
MW-6D3	Jan 13	Nov 13	1988.72	22.16	1966.56	100-110	5.74	0.3	78.3	3.0	<0.50	<0.50
MW-10	Sep 02	Nov 13	1983.28	NM	NM	10-30	NM	NM	NM	NS	NS	NS
MW-11	Sep 02	Nov 13	1979.87	NM	NM	13.5-33.5	NM	NM	NM	NS	NS	NS
MW-13	May 03	Nov 13	1983.31	18.50	1964.81	9-29	0.90	2.5	103.7	**1,800**	3.5	<0.50
MW-14	Nov 03	Nov 13	1987.33	18.96	1968.37	15-40	2.63	3.5	96.4	**1,500**	2.7	<0.50
MW-14I	Jul 12	Nov 13	1987.54	19.53	1968.01	40-55	3.98	0.9	101.9	**10,000**	**38**	17
MW-15	Nov 03	Nov 13	1982.74	NM	NM	15-32	NM	NM	NM	NS	NS	NS
MW-16	Nov 03	Nov 13	1980.53	NM	NM	19-32	NM	NM	NM	NS	NS	NS
MW-19	Nov 03	Nov 13	1980.13	27.48	1952.65	19-35	3.15	2.0	227.5	**440**	3.2	<0.50
MW-19D1	Jan 13	Nov 13	1979.25	26.70	1952.55	31-51	4.65	1.7	384.6	**620**	3.5	<0.50
MW-19D2	Jan 13	Nov 13	1979.28	27.71	1951.57	60-70	3.30	1.7	485.2	<0.50	<0.50	<0.50
MW-19D3	Jan 13	Nov 13	1979.32	25.42	1953.90	92-102	4.13	0.7	423.8	**160**	0.75	<0.50
MW-19I	Jul 12	Nov 13	1978.37	26.47	1951.90	34-54	4.28	2.7	579.4	<0.50	<0.50	<0.50
MW-20	Nov 03	Nov 13	1979.82	27.28	1952.54	19-35	2.48	2.2	245.3	**530**	1.4	<0.50
MW-20D1	Jan 13	Nov 13	1978.81	26.60	1952.21	25-45	4.51	2.2	57.4	**260**	0.86	<0.50

Table A-1: Current Groundwater Gauging and Analytical Data
Maryland Square Shopping Center

Well ID	Date of Well Installation	Date of Sampling	Top of Casing Elevation (feet msl)	Depth to Groundwater Level (feet)	Groundwater Elevation (feet msl)	Screen Interval (feet bgs)	Dissolved Oxygen (mg/L)	TDS (g/L)	ORP (mV)	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)
Project Monitoring Wells Located on Boulevard Mall Property												
MW-20D2	Jan 13	Nov 13	1978.66	26.92	1951.74	55-65	4.29	1.6	75.3	**160**	1.0	0.81
MW-20D3	Jan 13	Nov 13	1978.69	26.57	1952.12	90-100	4.02	0.9	80.5	**62**	<0.50	<0.50
MW-21	Nov 03	Nov 13	1979.25	NM	NM	19-36	NM	NM	NM	NS	NS	NS
MW-40 CMT-30	Jul 12	Nov 13	1978.49	26.35	1952.14	30-30.6	2.97	1.9	90.9	1.3	<0.50	<0.50
MW-40 CMT-35	Jul 12	Nov 13	1978.49	26.20	1952.29	35-35.6	1.67	1.6	88.3	**12**	2.4	<0.50
MW-40 CMT-40	Jul 12	Nov 13	1978.49	26.19	1952.30	40-40.6	3.54	1.5	38.4	**51**	0.64	<0.50
MW-40 CMT-45	Jul 12	Nov 13	1978.49	26.16	1952.33	45-45.6	3.02	1.6	82.1	**77**	1.1	<0.50
MW-40 CMT-50	Jul 12	Nov 13	1978.49	26.15	1952.34	50-50.6	1.53	1.6	28.6	**120**	1.8	<0.50
MW-40 CMT-55	Jul 12	Nov 13	1978.49	26.15	1952.34	55-55.6	3.11	1.4	37.8	**110**	0.86	<0.50
MW-40 CMT-60	Jul 12	Nov 13	1978.49	26.16	1952.33	60-60.6	1.65	0.7	-78.4	**190**	3.6	2.5
Project Monitoring Wells Located on Surrounding Streets and Golf Course												
MW-18	Nov 03	Nov 13	1962.90	13.62	1949.28	5-26	3.60	2.4	152.1	**780**	<0.50	<0.50
MW-22	Mar 05	Nov 13	1975.19	NM	NM	15-36	NM	NM	NM	NS	NS	NS
MW-23	Mar 05	Nov 13	1962.45	17.57	1944.88	5-26	2.13	2.4	152.4	**900**	1.8	<0.50
MW-24	Mar 05	Nov 13	1960.82	NM	NM	5-26	NM	NM	NM	NS	NS	NS
MW-25	Mar 05	Nov 13	1959.29	20.87	1938.42	5-26	1.37	2.5	113.9	**700**	0.88	<0.50

Table A-1: Current Groundwater Gauging and Analytical Data
Maryland Square Shopping Center

Well ID	Date of Well Installation	Date of Sampling	Top of Casing Elevation (feet msl)	Depth to Groundwater Level (feet)	Groundwater Elevation (feet msl)	Screen Interval (feet bgs)	Dissolved Oxygen (mg/L)	TDS (g/L)	ORP (mV)	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)
Project Monitoring Wells Located on Surrounding Streets and Golf Course												
MW-26	Mar 06	Nov 13	1953.45	19.02	1934.43	10-36	2.40	2.6	137.5	**770**	0.62	<0.50
MW-27	Mar 06	Nov 13	1944.15	17.49	1926.66	10-36	1.74	2.6	119.7	**420**	0.94	<0.50
MW-28	Oct 07	Nov 13	1943.07	NM	NM	15-36	NM	NM	NM	NS	NS	NS
MW-29	Oct 07	Nov 13	1932.35	NM	NM	15-36	NM	NM	NM	NS	NS	NS
MW-30	Oct 07	Nov 13	1940.59	19.89	1920.70	20-41	3.29	2.1	141.0	**96**	0.58	<0.50
MW-31	Mar 08	Nov 13	1937.66	18.55	1919.11	13.5-33.6	2.41	2.7	191.5	**54**	<0.50	<0.50
MW-32	Mar 08	Nov 13	1952.90	20.68	1932.22	13.5-33.7	2.46	2.4	123.5	**610**	2.0	<0.50
MW-33	Mar 08	Nov 13	1950.98	19.40	1931.58	13.5-33.8	1.36	2.6	146.3	<0.50	<0.50	<0.50
MW-36	Jan 12	Nov 13	1955.30	21.22	1934.08	17-38	1.91	2.5	125.6	**130**	<0.50	<0.50
MW-37	Jan 12	Nov 13	1929.98	19.79	1910.19	17-38	4.23	2.6	334.8	**33**	<0.50	<0.50
MW-38	Apr 12	Nov 13	1908.38	14.97	1893.41	15-36	3.34	2.7	356.2	**7.0**	<0.50	<0.50
MW-39	Apr 12	Nov 13	1967.55	26.01	1941.54	15-36	1.39	2.5	156.8	**260**	0.81	<0.50
MW-41	Aug 13	Nov 13	1908.89	15.05	1893.84	10-35	1.12	2.2	360.0	2.6	<0.50	<0.50
MW-42	Sep 13	Nov 13	1910.31	16.32	1893.99	10-35	2.13	2.8	326.4	0.60	<0.50	<0.50
MW-43	Sep 13	Nov 13	1958.33	16.96	1941.37	10-35	2.16	2.3	138.2	<0.50	<0.50	<0.50

Notes:

NM = Not Measured
msl = mean sea level
ND = Non Detect
NS = Not Sampled

°C = degrees Celsius
g/L = gallons per liter
mg/L = milligrams per liter
mS/cm = milli Siemens per centimeter

µg/L = micrograms per liter
mV = milllivolts
NTU = Nephelometric Turbudity Units

Bold value indicates concentration that exceeds regulatory standard.

Table A-2: Historical Groundwater Gauging and Analytical Data
Maryland Square Shopping Center

Well ID	Date	Top of Casing Elevation (feet msl)	Depth to Groundwater Level (feet)	Groundwater Elevation (feet msl)	pH	Specific Conductance (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp (ºC)	TDS (g/L)	ORP (mV)	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	Vinyl Chloride (µg/L)
MW-1	Aug 00	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	2,300	ND	ND	ND
	Oct 00	1991.81	17.54	1974.27	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Sep 02	1992.04	17.90	1974.14	NM	NM	NM	NM	NM	NM	NM	2,000	ND	ND	ND
	May 03	1992.04	18.70	1973.34	NM	NM	NM	NM	NM	NM	NM	870	ND	ND	ND
	Sep 03	1992.04	18.97	1973.07	NM	NM	NM	NM	NM	NM	NM	2,300	ND	ND	ND
	Jan 04	1992.04	19.30	1972.74	7.0	3.5	NM	0.9	22.50	NM	NM	1,700	ND	ND	ND
	May 05	1992.04	15.24	1976.8	7.0	4.0	441.0	5.4	26.00	NM	110	3,500	ND	ND	ND
	Sep 05	1992.04	16.74	1975.3	7.1	4.2	64.0	7.0	27.50	2.7	129	1,700	ND	ND	ND
	Dec 05	1992.04	17.61	1974.43	7.0	5.1	290.0	2.0	26.90	3.2	404	820	ND	ND	ND
	Mar 06	1992.04	18.42	1973.62	NM	5.6	>999	NM	23.10	3.7	545	420	ND	ND	ND
	Jun 06	1992.04	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Oct 06	1992.04	18.30	1973.74	6.3	3.7	81.0	4.6	26.70	2.4	129	1,100	ND	ND	ND
	Dec 06	1992.04	18.88	1973.16	6.7	4.4	>999	5.1	26.90	2.8	111	1,300	ND	ND	ND
	Mar 07	1992.04	20.08	1971.96	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 07	1992.04	19.81	1972.23	7.0	2.3	611.0	6.2	25.70	1.4	468	450	ND	ND	ND
	Sep 07	1992.04	18.39	1973.65	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Dec 07	1992.04	19.01	1973.03	6.4	3.9	15.0	5.5	22.20	2.5	223	710	ND	ND	ND
	Mar 08	1992.04	20.03	1972.01	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 08	1992.04	NM	NM	NM	NM	NM	NM	NM	NM	NM	260	ND	ND	ND
	Oct 08	1992.01	19.82	1972.19	6.6	3.7	62.4	1.1	27.10	2.4	130	460	ND	ND	ND
	Feb 09	1992.01	19.65	1972.36	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 09	1992.01	19.88	1972.13	7.1	3.7	39.6	1.6	26.20	2.4	101	NS	NS	NS	NS
	Jul 09	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	590	ND	ND	ND
	Sep 09	1992.01	19.90	1970.11	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 09	1992.01	20.33	1971.68	6.3	3.4	-10.0	1.5	26.90	2.2	126	390	ND	ND	ND
	Feb 10	1992.01	20.04	1971.97	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 10	1992.01	19.98	1972.03	7.0	3.3	0.0	3.2	26.13	NM	NM	400	ND	ND	ND
	Oct 10	1992.01	19.44	1972.57	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 10	1992.01	19.54	1972.47	6.7	3.5	1.2	1.4	27.56	NM	212	430	ND	ND	ND
	Mar 11	1992.01	20.10	1971.91	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 11	1992.01	20.18	1971.83	7.2	3.6	0.0	1.7	25.58	NM	259	460	ND	ND	ND
	Sep 11	1992.01	19.85	1972.16	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 11	1992.01	19.65	1972.36	7.0	3.4	NM	1.3	25.97	2.2	266	410	ND	ND	ND
	Mar 12	1992.01	20.41	1971.60	7.2	3.5	5.4	1.3	25.48	2.3	-70	370	NS	NS	NS
*	Jun 12	1992.01	19.18	1972.83	7.3	3.5	15.9	3.0	25.97	2.3	90	410	ND	ND	ND
	Sep 12	1992.01	19.97	1972.04	7.6	3.6	NM	1.2	27.28	2.3	98	390	ND	ND	ND
	Nov 12	1992.01	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Mar 13	1992.01	20.35	1971.66	6.97	3.9	NM	0.90	24.80	2.5	59	260	<0.50	<0.50	<0.50
	Jun 13	1992.01	20.69	1971.32	7.16	3.9	NM	1.72	25.43	2.5	78	240	<0.50	<0.50	<0.50
	Sep 13	1992.01	20.52	1971.49	7.06	3.8	NM	0.76	26.95	2.4	-14	240	<0.50	<0.50	<0.50
	Nov 13	1992.01	20.31	1971.70	5.97	3.5	2.9	0.31	25.51	2.2	166	270	<0.50	<0.50	<0.50

Table A-2: Historical Groundwater Gauging and Analytical Data
Maryland Square Shopping Center

Well ID	Date	Top of Casing Elevation (feet msl)	Depth to Groundwater Level (feet)	Groundwater Elevation (feet msl)	pH	Specific Conductance (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp (ºC)	TDS (g/L)	ORP (mV)	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	Vinyl Chloride (µg/L)
MW-2	Oct 00	1983.79	15.52	1968.27	NM	NM	NM	NM	NM	NM	NM	3,000	18.0	18.0	ND
	Sep 02	1983.99	16.62	1967.37	NM	NM	NM	NM	NM	NM	NM	3,000	13.0	13.0	ND
	May 03	1983.99	17.15	1966.84	NM	NM	NM	NM	NM	NM	NM	1,400	ND	ND	ND
	Sep 03	1983.97	17.70	1966.27	NM	NM	NM	NM	NM	NM	NM	1,700	ND	ND	ND
	Jan 04	1983.97	18.25	1965.72	7.1	3.1	NM	1.1	23.20	NM	NM	1,700	ND	ND	ND
	May 05	1983.97	14.65	1969.32	6.9	3.5	698.0	4.8	23.40	NM	193	2,050	17.0	9.7	ND
	Dec 05	1983.97	16.00	1967.97	6.6	4.8	360.0	2.7	25.40	3.1	264	2,900	ND	ND	ND
	Mar 06	1983.97	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 06	1983.97	17.55	1966.42	NM	3.7	728.0	7.0	24.90	2.4	116	1,600	ND	ND	ND
	Oct 06	1983.97	17.25	1966.72	6.1	3.5	20.0	5.1	24.40	2.2	161	1,900	ND	ND	ND
	Dec 06	1983.97	17.60	1966.37	6.8	4.2	28.0	4.9	24.50	2.7	241	1,300	ND	ND	ND
	Mar 07	1983.97	18.84	1965.13	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 07	1983.97	19.01	1964.96	7.0	3.5	539.0	5.7	24.40	2.3	305	1,400	ND	ND	ND
	Sep 07	1983.97	17.94	1966.03	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Dec 07	1983.97	18.04	1965.93	6.3	3.6	144.0	6.9	21.80	2.3	314	1,000	ND	ND	ND
	Mar 08	1983.97	18.82	1965.15	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 08	1983.97	NM	NM	NM	NM	NM	NM	NM	NM	NM	900	ND	ND	ND
	Oct 08	1983.97	18.54	1965.43	6.9	3.5	44.7	3.4	24.80	2.3	103	960	3.4	1.2	ND
	Feb 09	1983.97	18.68	1965.29	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 09	1983.97	18.95	1965.02	7.0	3.7	15.4	1.9	24.50	2.4	116	880	3.2	1.1	ND
	Sep 09	1983.97	18.95	1965.02	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 09	1983.97	19.32	1964.65	5.6	3.3	280.0	1.9	24.40	2.1	155	530	2.4	ND	ND
	Feb 10	1983.97	19.68	1964.29	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 10	1983.97	19.08	1964.89	7.0	3.1	14.8	3.5	24.19	NM	NM	570	2.1	0.8	ND
	Oct 10	1983.97	18.76	1965.21	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 10	1983.97	18.78	1965.19	6.9	3.4	32.8	3.0	24.11	NM	92	560	2.4	0.7	ND
	Mar 11	1983.97	19.19	1964.78	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 11	1983.97	19.50	1964.47	7.2	3.4	25.9	2.6	24.47	NM	273	680	2.2	0.6	ND
	Sep 11	1983.97	19.11	1964.86	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 11	1983.97	19.08	1964.89	7.0	3.3	NM	2.7	23.55	2.1	168	610	2.1	0.66	NS
	Mar 12	1983.97	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
*	Jun 12	1983.53	19.11	1964.42	7.2	3.3	57.1	2.6	23.57	2.2	87	490	2	0.6	ND
	Sep 12	1983.53	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 12	1983.53	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Mar 13	1983.53	19.29	1964.24	7.1	3.5	NM	2.7	23.24	2.3	205	580	2.5	1.0	<0.50
	Jun 13	1983.53	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Sep 13	1983.53	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 13	1983.53	19.27	1964.26	7.3	3.7	36.9	2.0	24.28	2.4	83	720	2.3	0.9	<0.50

Table A-2: Historical Groundwater Gauging and Analytical Data
Maryland Square Shopping Center

Well ID	Date	Top of Casing Elevation (feet msl)	Depth to Groundwater Level (feet)	Groundwater Elevation (feet msl)	pH	Specific Conductance (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp (ºC)	TDS (g/L)	ORP (mV)	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	Vinyl Chloride (µg/L)
MW-3	Oct 00	1984.19	15.95	1968.24	NM	NM	NM	NM	NM	NM	NM	98	ND	ND	ND
	Sep 02	1984.46	17.20	1967.26	NM	NM	NM	NM	NM	NM	NM	ND	ND	ND	ND
	May 03	1984.46	17.70	1966.76	NM	NM	NM	NM	NM	NM	NM	6.9	ND	ND	ND
	Sep 03	1984.46	18.35	1966.08	NM	NM	NM	NM	NM	NM	NM	12	ND	ND	ND
	Jan 04	1984.46	19.25	1965.18	6.9	2.9	NM	1.0	22.40	NM	NM	6.7	ND	ND	ND
	May 05	1984.46	15.22	1969.21	7.0	2.9	NM	2.5	26.00	NM	149	ND	ND	ND	ND
	Dec 05	1984.46	16.45	1967.98	6.6	4.7	100.0	0.9	27.30	3.0	33	ND	ND	ND	ND
	Mar 06	1984.46	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 06	1984.46	18.38	1966.05	NM	3.8	285.0	5.6	26.40	2.4	-32	ND	ND	ND	ND
	Oct 06	1984.46	17.88	1966.55	5.9	3.9	26.0	2.0	26.70	2.5	279	ND	ND	ND	ND
	Dec 06	1984.46	18.26	1966.17	6.7	4.8	272.0	2.9	26.70	3.1	9	1.2	ND	ND	ND
	Mar 07	1984.46	19.86	1964.57	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 07	1984.46	20.23	1964.2	7.1	3.7	605.0	3.6	25.90	2.4	43	ND	ND	ND	ND
	Sep 07	1984.46	18.99	1965.44	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Dec 07	1984.46	18.99	1965.44	6.1	3.9	55.1	2.2	21.90	2.5	135	1.4	ND	ND	ND
	Mar 08	1984.46	19.94	1964.49	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 08	1984.46	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Oct 08	1984.41	19.46	1964.95	6.7	3.8	44.2	0.4	27.50	2.4	99	6.5	ND	ND	ND
	Feb 09	1984.41	19.80	1964.61	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 09	1984.41	20.20	1964.21	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Sep 09	1984.41	20.16	1964.25	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 09	1984.41	20.48	1963.93	6.0	3.8	180.0	1.3	26.60	2.4	143	5.1	ND	ND	ND
	Feb 10	1984.41	21.07	1963.34	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 10	1984.41	13.91	1970.50	6.8	3.5	2.2	2.0	27.36	NM	NM	NS	NS	NS	NS
	Oct 10	1984.41	19.95	1964.46	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 10	1984.41	19.91	1964.50	6.7	3.9	12.5	0.6	27.29	NM	106	5.8	ND	ND	ND
	Mar 11	1984.41	20.47	1963.94	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 11	1984.41	20.86	1963.55	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Sep 11	1984.41	20.45	1963.96	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 11	1984.41	20.35	1964.06	6.7	4.5	NM	3.3	26.17	NM	-38	16	ND	ND	NS
	Mar 12	1984.41	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
*	Jun 12	1983.81	20.43	1963.38	7.0	4.0	102.0	2.6	25.50	2.6	122	25	ND	ND	ND
	Sep 12	1983.81	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 12	1983.81	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Mar 13	1983.81	20.37	1963.44	6.9	4.5	NM	1.7	25.15	2.9	153	12	<0.50	<0.50	<0.50
	Jun 13	1983.81	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Sep 13	1983.81	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 13	1983.81	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS

Table A-2: Historical Groundwater Gauging and Analytical Data
Maryland Square Shopping Center

Well ID	Date	Top of Casing Elevation (feet msl)	Depth to Groundwater Level (feet)	Groundwater Elevation (feet msl)	pH	Specific Conductance (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp (ºC)	TDS (g/L)	ORP (mV)	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	Vinyl Chloride (µg/L)
MW-4	Oct 00	1989.68	16.95	1972.73	NM	NM	NM	NM	NM	NM	NM	14	ND	ND	ND
	Sep 02	1989.87	NM	NM	NM	NM	NM	NM	NM	NM	NM	25	ND	ND	ND
	May 03	1989.87	18.71	1971.16	NM	NM	NM	NM	NM	NM	NM	24	ND	ND	ND
	Sep 03	1989.85	19.05	1970.8	NM	NM	NM	NM	NM	NM	NM	100	ND	ND	ND
	Jan 04	1989.85	19.86	1969.99	7.0	2.7	NM	1.2	22.00	NM	NM	220	ND	ND	ND
	May 05	1989.85	15.83	1974.02	6.8	3.7	664.0	3.7	24.20	NM	160	25	ND	ND	ND
	Dec 05	1989.85	17.62	1972.23	6.7	4.9	670.0	3.2	25.90	3.1	219	15	ND	ND	ND
	Mar 06	1989.85	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 06	1989.85	18.36	1971.49	NM	NM	NM	NM	NM	NM	NM	27	ND	ND	ND
	Oct 06	1989.85	18.34	1971.51	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Dec 06	1989.85	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Mar 07	1989.85	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 07	1989.85	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Sep 07	1989.85	18.96	1970.89	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Dec 07	1989.85	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Mar 08	1989.85	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 08	1989.85	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Oct 08	1989.86	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Feb 09	1989.86	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 09	1989.86	Dry	Dry	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Sep 09	1989.86	Dry	Dry	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 09	1989.86	Dry	Dry	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Feb 10	1989.86	Dry	Dry	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 10	1989.86	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Oct 10	1989.86	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 10	1989.86	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Mar 11	1989.86	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 11	1989.86	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Sep 11	1989.86	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 11	1989.86	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Mar 12	1989.86	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Abandoned June 4, 2012														

Table A-2: Historical Groundwater Gauging and Analytical Data
Maryland Square Shopping Center

Well ID	Date	Top of Casing Elevation (feet msl)	Depth to Groundwater Level (feet)	Groundwater Elevation (feet msl)	pH	Specific Conductance (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp (ºC)	TDS (g/L)	ORP (mV)	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	Vinyl Chloride (µg/L)
MW-5	Oct 00	1988.93	16.20	1972.73	NM	NM	NM	NM	NM	NM	NM	100	ND	ND	ND
	Sep 02	1989.18	17.00	1972.18	NM	NM	NM	NM	NM	NM	NM	110	ND	ND	ND
	May 03	1989.18	17.80	1971.38	NM	NM	NM	NM	NM	NM	NM	240	ND	ND	ND
	Sep 03	1989.18	18.07	1971.11	NM	NM	NM	NM	NM	NM	NM	220	ND	ND	ND
	Jan 04	1989.18	18.65	1970.53	6.7	2.6	NM	1.2	22.30	NM	NM	370	ND	ND	ND
	May 05	1989.18	14.87	1974.31	7.1	2.6	NM	4.6	25.40	NM	184	146	ND	ND	ND
	Dec 05	1989.18	16.80	1972.38	6.8	5.3	>999	1.5	26.80	3.3	377	93	ND	ND	ND
	Mar 06	1989.18	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 06	1989.18	17.40	1971.78	NM	3.8	>999	6.9	26.60	2.4	126	220	ND	ND	ND
	Oct 06	1989.18	17.46	1971.72	6.2	3.5	21.0	4.8	26.70	2.2	99	67	ND	ND	ND
	Dec 06	1989.18	18.01	1971.17	6.8	4.5	134.0	5.4	26.50	2.9	93	130	ND	ND	ND
	Mar 07	1989.18	19.30	1969.88	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 07	1989.18	19.12	1970.06	7.0	3.4	375.0	6.5	25.20	2.2	460	550	ND	ND	ND
	Sep 07	1989.18	17.85	1971.33	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Dec 07	1989.18	18.33	1970.85	6.3	3.8	28.3	5.7	24.40	2.4	159	170	ND	ND	ND
	Mar 08	1989.18	19.31	1969.87	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 08	1989.18	NM	NM	NM	NM	NM	NM	NM	NM	NM	400	ND	ND	ND
	Oct 08	1989.15	18.99	1970.16	6.8	3.5	21.4	4.8	27.40	2.3	119	340	2.7	1.2	ND
	Feb 09	1989.15	18.99	1970.16	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 09	1989.15	19.17	1969.98	7.0	3.6	0.0	5.6	26.20	2.3	125	700	4.6	1.3	ND
	Sep 09	1989.15	19.14	1970.01	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 09	1989.15	19.55	1969.6	5.8	3.2	-6.0	3.8	27.10	2.1	132	520	3.9	1.4	ND
	Feb 10	1989.15	19.57	1969.58	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 10	1989.15	19.21	1969.94	7.1	3.1	7.0	6.7	25.60	NM	273	550	2.9	1.3	ND
	Oct 10	1989.15	18.67	1970.48	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 10	1989.15	18.85	1970.30	7.0	5.4	2.0	4.7	25.64	NM	104	360	2.4	1.0	ND
	Mar 11	1989.15	19.41	1969.74	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 11	1989.15	19.50	1969.65	6.9	3.5	14.0	4.9	26.58	NM	412	670	2.7	1.1	ND
	Sep 11	1989.15	19.19	1969.96	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 11	1989.15	19.22	1969.93	6.9	4.0	NM	3.8	25.54	NM	-30	540	2.5	1.1	ND
	Mar 12	1989.15	19.74	1969.41	7.2	3.3	123.0	5.6	23.51	2.4	-38	800	NS	NS	NS
*	Jun 12	1988.69	19.25	1969.44	7.3	3.3	50.1	6.0	25.30	2.1	106	520	2.5	1.2	ND
	Sep 12	1988.69	18.25	1970.44	7.3	3.3	NM	5.3	26.25	2.2	129	340	2.2	0.95	ND
	Nov 12	1988.69	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Mar 13	1988.69	19.69	1969.00	7.1	3.6	NM	4.4	25.23	2.3	134	530	2.3	0.67	<0.50
	Jun 13	1988.69	20.00	1968.69	7.2	3.5	NM	4.7	27.60	2.3	126	600	2.9	0.95	<0.50
	Sep 13	1988.69	19.60	1969.09	7.0	3.4	NM	4.3	26.63	2.2	167	830	3.7	1.3	<0.50
	Nov 13	1988.69	19.52	1969.17	7.8	3.6	9.7	4.1	25.37	2.3	90	690	2.8	1.2	<0.50

Table A-2: Historical Groundwater Gauging and Analytical Data
Maryland Square Shopping Center

Well ID	Date	Top of Casing Elevation (feet msl)	Depth to Groundwater Level (feet)	Groundwater Elevation (feet msl)	pH	Specific Conductance (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp (ºC)	TDS (g/L)	ORP (mV)	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	Vinyl Chloride (µg/L)
MW-6	Oct 00	1988.72	17.41	1971.31	NM	NM	NM	NM	NM	NM	NM	2,200	13.0	8.1	ND
	Sep 02	1989.01	18.26	1970.75	NM	NM	NM	NM	NM	nM	NM	1,000	41.0	14.0	ND
	May 03	1989.01	18.87	1970.14	NM	NM	NM	NM	NM	NM	NM	710	22.0	ND	ND
	Sep 03	1989.01	19.25	1969.76	NM	NM	NM	NM	NM	NM	NM	1,300	ND	ND	ND
	Jan 04	1989.01	19.74	1969.27	7.0	2.3	NM	1.2	22.40	NM	NM	2,400	ND	ND	ND
	May 05	1989.01	16.21	1972.8	6.9	2.4	NM	2.8	25.90	NM	123	2,090	13.0	11.0	ND
	Sep 05	1989.01	17.26	1971.75	7.0	4.0	34.0	6.2	26.90	2.3	-119	890	13.0	23.0	ND
	Dec 05	1989.01	17.88	1971.13	6.8	4.9	220.0	1.1	26.50	3.2	163	530	41.0	21.0	ND
	Mar 06	1989.01	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 06	1989.01	18.80	1970.21	NM	4.0	707.0	6.3	26.70	2.4	172	1,100	ND	ND	ND
	Oct 06	1989.01	18.73	1970.28	6.3	3.6	7.0	4.1	26.50	2.3	61	1,300	ND	ND	ND
	Dec 06	1989.01	19.18	1969.83	6.7	4.2	96.0	4.4	26.20	2.7	239	810	9.9	8.9	ND
	Mar 07	1989.01	20.40	1968.61	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 07	1989.01	20.28	1968.73	7.1	3.5	352.0	5.6	24.90	2.2	241	1,300	ND	ND	ND
	Sep 07	1989.01	19.00	1970.01	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Dec 07	1989.01	19.29	1969.72	6.2	3.8	4.3	5.4	24.80	2.4	277	1,500	ND	ND	ND
	Mar 08	1989.01	20.26	1968.75	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 08	1989.01	NM	NM	NM	NM	NM	NM	NM	NM	NM	1,900	ND	ND	ND
	Oct 08	1989.03	20.00	1969.03	6.8	3.5	46.3	3.3	26.30	2.3	117	2,000	13.0	3.9	ND
	Feb 09	1989.03	20.03	1969	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 09	1989.03	20.20	1968.83	7.0	3.5	76.3	2.8	26.70	2.2	121	2,800	14.0	4.1	ND
	Sep 09	1989.03	20.27	1968.76	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 09	1989.03	20.66	1968.37	5.9	3.1	87.0	2.5	26.30	1.9	132	2,100	14.0	6.4	ND
	Feb 10	1989.03	20.77	1968.26	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 10	1989.03	20.38	1968.65	7.0	3.0	23.2	4.1	26.32	NM	NM	2,500	13.0	6.2	NS
	Oct 10	1989.03	19.94	1969.09	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 10	1989.03	20.02	1969.01	6.9	3.3	7.0	3.5	25.26	NM	86	2,300	13.0	8.2	ND
	Mar 11	1989.03	20.49	1968.54	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 11	1989.03	20.66	1968.37	7.0	3.3	8.2	3.7	26.52	NM	365	2,400	10.0	3.7	ND
	Sep 11	1989.03	20.30	1968.73	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 11	1989.03	20.30	1968.73	7.0	3.2	NM	3.4	25.16	2.1	113	2,900	12	5.6	ND
	Mar 12	1989.03	20.84	1968.19	7.3	3.2	107.0	4.4	24.30	2.1	-44	3,500	NS	NS	NS
*	Jun 12	1988.12	19.71	1968.41	7.6	3.1	57.1	7.5	27.25	2.0	114	1,700	8.5	5.4	ND
	Sep 12	1988.12	19.23	1968.89	7.3	3.1	NM	3.7	26.27	2.0	122	3,000	17	8.1	ND
	Nov 12	1988.12	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Mar 13	1988.12	20.23	1967.89	7.1	3.4	NM	3.3	24.83	2.2	100	2,600	10	2.2	<0.50
	Jun 13	1988.12	20.58	1967.54	7.3	3.4	NM	3.6	30.62	2.2	130	2,400	7.7	1.3	<0.50
	Sep 13	1988.12	20.25	1967.87	7.0	3.3	NM	3.0	29.86	2.2	90	2,500	11	11	<0.50
	Nov 13	1988.12	20.14	1967.98	7.8	3.5	16.2	3.1	25.27	2.3	97	3,100	12	3.5	<0.50

Table A-2: Historical Groundwater Gauging and Analytical Data
Maryland Square Shopping Center

Well ID	Date	Top of Casing Elevation (feet msl)	Depth to Groundwater Level (feet)	Groundwater Elevation (feet msl)	pH	Specific Conductance (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp (ºC)	TDS (g/L)	ORP (mV)	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	Vinyl Chloride (µg/L)
MW-6D1	Mar 13	1988.72	16.29	1972.43	7.6	0.6	NM	5.7	23.48	0.4	86	<0.50	<0.50	<0.50	<0.50
	Jun 13	1988.72	20.20	1968.52	7.5	0.7	NM	5.2	25.82	0.4	280	<0.50	<0.50	<0.50	<0.50
	Sep 13	1988.72	21.40	1967.32	7.4	0.9	NM	4.4	27.20	0.6	61	58	<0.50	<0.50	<0.50
	Nov 13	1988.72	19.24	1969.48	6.9	0.6	49.3	5.0	23.81	0.4	84	3.2	<0.50	<0.50	<0.50
MW-6D2	Mar 13	1988.72	14.94	1973.78	7.6	0.6	NM	4.3	22.93	0.4	55	<0.50	<0.50	<0.50	<0.50
	Jun 13	1988.72	20.40	1968.32	7.5	0.7	NM	5.9	25.49	0.4	142	<0.50	<0.50	<0.50	<0.50
	Sep 13	1988.72	21.61	1967.11	7.4	0.7	NM	5.0	26.61	0.5	58	33	<0.50	<0.50	<0.50
	Nov 13	1988.72	18.94	1969.78	7.5	0.6	18.0	NM	23.22	0.4	24	3.3	<0.50	<0.50	<0.50
MW-6D3	Mar 13	1988.72	14.04	1974.68	7.6	0.5	NM	0.7	22.18	0.3	29	<0.50	<0.50	<0.50	<0.50
	Jun 13	1988.72	24.40	1964.32	7.7	0.5	NM	2.8	31.09	0.4	155	<0.50	<0.50	<0.50	<0.50
	Sep 13	1988.72	24.89	1963.83	7.2	0.6	NM	2.2	28.92	0.4	112	2.0	<0.50	<0.50	<0.50
	Nov 13	1988.72	22.16	1966.56	6.9	0.5	43.6	5.7	23.58	0.3	78	3.0	<0.50	<0.50	<0.50

Table A-2: Historical Groundwater Gauging and Analytical Data
Maryland Square Shopping Center

Well ID	Date	Top of Casing Elevation (feet msl)	Depth to Groundwater Level (feet)	Groundwater Elevation (feet msl)	pH	Specific Conductance (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp (ºC)	TDS (g/L)	ORP (mV)	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	Vinyl Chloride (µg/L)
MW-7	Sep 02	1990.28	18.27	1972.01	NM	NM	NM	NM	NM	NM	NM	ND	ND	ND	ND
	May 03	1990.28	16.60	1973.68	NM	NM	NM	NM	NM	NM	NM	1.7	ND	ND	ND
	Sep 03	1990.25	16.79	1973.46	NM	NM	NM	NM	NM	NM	NM	2.0	ND	ND	ND
	Jan 04	1990.25	17.32	1972.93	7.0	2.2	NM	0.9	22.40	NM	NM	11	ND	ND	ND
	May 05	1990.25	13.86	1976.39	7.1	1.8	NM	4.0	24.80	NM	129	ND	ND	ND	ND
	Sep 05	1990.25	14.97	1975.28	7.0	4.6	140.0	6.2	26.60	3.0	144	3.3	ND	ND	ND
	Dec 05	1990.25	15.45	1974.80	6.7	5.3	5.0	1.8	23.80	3.4	472	1.2	ND	ND	ND
	Mar 06	1990.25	16.41	1973.84	4.7	6.7	428.0	NM	22.40	4.2	634	1.5	ND	ND	ND
	Jun 06	1990.25	16.50	1973.75	NM	4.1	>999	6.6	26.20	2.6	-14	2.2	ND	ND	ND
	Oct 06	1990.25	16.50	1973.75	6.2	3.7	>999	4.4	25.00	2.3	92	2.9	ND	ND	ND
	Dec 06	1990.25	16.87	1973.38	6.9	4.8	>999	5.7	25.10	3.0	65	2.1	ND	ND	ND
	Mar 07	1990.25	18.19	1972.06	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 07	1990.25	18.08	1972.17	7.1	3.6	450.0	6.3	25.10	2.2	129	1.1	ND	ND	ND
	Sep 07	1990.25	16.31	1973.94	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Dec 07	1990.25	16.60	1973.65	6.2	4.0	0.0	2.3	22.50	2.6	161	1.3	ND	ND	ND
	Mar 08	1990.25	17.93	1972.32	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 08	1990.25	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Oct 08	1990.22	17.57	1972.65	6.6	3.8	204.0	3.5	26.70	2.4	134	2.5	ND	ND	ND
	Feb 09	1990.22	17.52	1972.70	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 09	1990.22	17.92	1972.30	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Sep 09	1990.22	18.13	1972.09	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 09	1990.22	18.50	1971.72	5.8	3.4	46.0	3.2	26.70	2.2	160	7.9	ND	ND	ND
	Feb 10	1990.22	18.36	1971.86	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 10	1990.22	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Oct 10	1990.22	17.54	1972.68	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 10	1990.22	17.65	1972.57	6.9	3.7	230.8	4.9	26.17	NM	98	2.0	ND	ND	ND
	Mar 11	1990.22	18.19	1972.03	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 11	1990.22	18.40	1971.82	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Sep 11	1990.22	18.02	1972.20	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 11	1990.22	17.86	1972.36	7.0	3.5	NM	3.7	25.20	2.2	302	8.9	ND	ND	ND
	Mar 12	1990.22	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
*	Jun 12	1989.78	17.78	1972.00	7.3	3.5	8.0	4.8	27.56	2.3	-42	10	ND	ND	ND
	Sep 12	1989.78	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 12	1989.78	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Mar 13	1989.78	18.47	1971.31	7.0	3.8	NM	3.4	25.22	2.5	70	10	<0.50	<0.50	<0.50
	Jun 13	1989.78	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Sep 13	1989.78	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 13	1990.78	18.40	1972.38	6.06	3.4	53.0	1.64	26.34	2.17	165	8.4	<0.50	<0.50	<0.50

Table A-2: Historical Groundwater Gauging and Analytical Data
Maryland Square Shopping Center

Well ID	Date	Top of Casing Elevation (feet msl)	Depth to Groundwater Level (feet)	Groundwater Elevation (feet msl)	pH	Specific Conductance (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp (ºC)	TDS (g/L)	ORP (mV)	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	Vinyl Chloride (µg/L)
MW-8	Sep 02	1994.25	18.55	1975.70	NM	NM	NM	NM	NM	NM	NM	5.4	ND	ND	ND
	May 03	1994.25	19.50	1974.75	NM	NM	NM	NM	NM	NM	NM	3.2	ND	ND	ND
	Sep 03	1994.23	19.55	1974.68	NM	NM	NM	NM	NM	NM	NM	3.7	ND	ND	ND
	Jan 04	1994.23	19.91	1974.32	7.0	2.2	NM	1.0	22.00	NM	NM	4.7	ND	ND	ND
	May 05	1994.23	15.51	1978.72	7.0	1.8	NM	3.6	27.70	NM	107	5.6	5.6	ND	ND
	Dec 05	1994.23	18.48	1975.75	6.7	4.2	>999	2.1	24.10	2.7	483	3.6	ND	ND	ND
	Mar 06	1994.23	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 06	1994.23	18.89	1975.34	NM	3.7	>999	6.9	27.40	2.3	185	2.6	ND	ND	ND
	Oct 06	1994.23	19.12	1975.11	6.2	3.4	>999	5.9	26.70	2.2	108	3.4	ND	ND	ND
	Dec 06	1994.23	19.60	1974.63	6.2	3.4	>999	5.9	26.70	2.2	108	4.3	ND	ND	ND
	Mar 07	1994.23	20.56	1973.67	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 07	1994.23	20.31	1973.92	7.1	3.5	259.0	7.3	27.30	2.3	287	2.8	ND	ND	ND
	Sep 07	1994.23	19.14	1975.09	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Dec 07	1994.23	19.81	1974.42	6.5	3.7	0.0	3.5	25.50	2.4	158	2.8	ND	ND	ND
	Mar 08	1994.23	20.61	1973.62	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 08	1994.23	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Oct 08	1994.22	20.79	1973.43	6.8	3.5	421.0	5.2	26.90	2.2	154	3.7	ND	ND	ND
	Feb 09	1994.22	20.29	1973.93	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 09	1994.22	20.44	1973.78	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Sep 09	1994.22	20.41	1973.81	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 09	1994.22	20.71	1973.51	6.7	3.2	450.0	5.0	26.80	2.0	133	2.8	ND	ND	ND
	Feb 10	1994.22	20.86	1973.36	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 10	1994.22	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Oct 10	1994.22	19.68	1974.54	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 10	1994.22	19.94	1974.28	7.0	3.5	39.5	5.3	26.65	NM	98	4	ND	ND	ND
	Mar 11	1994.22	20.41	1973.81	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 11	1994.22	20.50	1973.72	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Sep 11	1994.22	20.27	1973.95	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Mar 12	1994.22	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
*	Jun 12	1991.71	19.32	1972.39	7.4	3.2	93.1	6.6	27.55	2.1	17	3.5	ND	ND	ND
	Sep 12	1991.71	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 12	1991.71	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Mar 13	1991.71	20.65	1971.06	7.0	3.5	NM	5.0	25.97	2.3	78	1.5	<0.50	<0.50	<0.50
	Jun 13	1991.71	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Sep 13	1991.71	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 13	1991.71	20.60	1971.11	6.12	3.2	95.0	2.3	26.12	2.1	194	2.2	<0.50	<0.50	<0.50

Table A-2: Historical Groundwater Gauging and Analytical Data
Maryland Square Shopping Center

Well ID	Date	Top of Casing Elevation (feet msl)	Depth to Groundwater Level (feet)	Groundwater Elevation (feet msl)	pH	Specific Conductance (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp (ºC)	TDS (g/L)	ORP (mV)	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	Vinyl Chloride (µg/L)
MW-9	Sep 02	1992.26	18.46	1973.80	NM	NM	NM	NM	NM	NM	NM	670	ND	ND	ND
	May 03	1992.26	19.15	1973.11	NM	NM	NM	NM	NM	NM	NM	59	ND	ND	ND
	Sep 03	1992.26	19.02	1973.24	NM	NM	NM	NM	NM	NM	NM	9.2	ND	ND	ND
	Jan 04	1992.26	19.05	1973.21	7.0	2.5	NM	1.2	22.60	NM	NM	10	ND	ND	ND
	May 05	1992.26	15.36	1976.90	7.1	2.7	296.0	7.6	26.10	NM	130	353	ND	ND	ND
	Sep 05	1992.26	17.85	1974.41	7.2	1.8	4.0	6.6	27.10	1.2	111	64	ND	ND	ND
	Dec 05	1992.26	17.68	1974.58	6.9	2.5	33.0	2.5	26.60	1.6	123	190	ND	ND	ND
	Mar 06	1992.26	18.55	1973.71	5.1	2.1	>999	NM	25.90	1.3	496	ND	ND	ND	ND
	Jun 06	1992.26	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Oct 06	1992.26	18.40	1973.86	6.3	2.4	0.0	4.1	25.70	1.5	86	160	ND	ND	ND
	Dec 06	1992.26	19.00	1973.26	6.8	3.0	0.0	5.1	25.50	1.9	233	45	ND	ND	ND
	Mar 07	1992.26	20.19	1972.07	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 07	1992.26	19.95	1972.31	7.1	2.5	0.0	5.6	26.10	1.6	428	170	ND	ND	ND
	Sep 07	1992.26	18.51	1973.75	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Dec 07	1992.26	19.20	1973.06	NM	NM	NM	NM	NM	NM	NM	110	ND	ND	ND
	Mar 08	1992.26	20.16	1972.10	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 08	1992.26	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Oct 08	1992.25	19.87	1972.38	7.0	1.4	162.0	4.7	26.60	0.9	58	12	ND	ND	ND
	Feb 09	1992.25	19.76	1972.49	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 09	1992.25	20.00	1972.25	7.5	1.4	>-5.0	4.0	26.50	0.8	-9	13	ND	ND	ND
	Sep 09	1992.25	20.20	1972.05	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 09	1992.25	20.45	1971.80	7.0	1.1	-10.0	4.0	26.40	0.7	-157	5.5	ND	ND	ND
	Feb 10	1992.25	20.21	1972.04	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 10	1992.25	20.10	1972.15	7.3	1.2	12.0	5.1	27.67	NM	NM	6.6	ND	ND	ND
	Oct 10	1992.25	19.44	1972.81	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 10	1992.25	19.63	1972.62	7.1	1.2	7.0	3.5	27.31	NM	50	3.7	ND	ND	ND
	Mar 11	1992.25	20.13	1972.12	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 11	1992.25	20.40	1971.85	7.1	1.2	0.4	0.5	31.96	NM	286	2.3	ND	ND	ND
	Sep 11	1992.25	19.99	1972.26	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 11	1992.25	19.91	1972.34	7.3	1.2	NM	2.2	24.70	0.8	265	5.6	ND	ND	ND
	Mar 12	1992.25	20.50	1971.75	7.5	1.2	17.8	1.7	26.86	0.8	-79	5.2	NS	NS	NS
*	Jun 12	1992.25	19.45	1972.80	7.6	1.0	13.4	4.7	30.27	0.8	-8	5.7	ND	ND	ND
	Sep 12	1992.25	19.07	1973.18	7.7	1.2	NM	2.2	27.57	0.8	118	3.7	ND	ND	ND
	Nov 12	1992.25	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Mar 13	1992.25	20.56	1971.69	7.2	1.4	NM	0.6	25.53	0.9	-0.1	6.6	<0.50	<0.50	<0.50
	Jun 13	1992.25	20.91	1971.34	7.2	1.4	NM	2.3	25.44	0.9	110	9.8	<0.50	<0.50	<0.50
	Sep 13	1992.25	20.69	1971.56	7.3	1.4	NM	2.4	27.88	0.9	-81	6.6	<0.50	<0.50	<0.50
	Nov 13	1992.25	20.53	1971.72	6.4	1.3	35.3	0.6	25.32	0.8	56	11	<0.50	<0.50	<0.50

Table A-2: Historical Groundwater Gauging and Analytical Data
Maryland Square Shopping Center

Well ID	Date	Top of Casing Elevation (feet msl)	Depth to Groundwater Level (feet)	Groundwater Elevation (feet msl)	pH	Specific Conductance (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp (ºC)	TDS (g/L)	ORP (mV)	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	Vinyl Chloride (µg/L)
MW-10	Sep 02	1983.81	18.51	1965.30	NM	NM	NM	NM	NM	NM	NM	ND	ND	ND	ND
	May 03	1983.81	18.65	1965.16	NM	NM	NM	NM	NM	NM	NM	ND	ND	ND	ND
	Sep 03	1983.81	19.45	1964.36	NM	NM	NM	NM	NM	NM	NM	15	ND	ND	ND
	Jan 04	1983.81	20.32	1963.49	7.0	3.1	NM	1.0	24.40	NM	NM	ND	ND	ND	ND
	May 05	1983.81	16.76	1967.05	6.8	3.2	25.0	1.5	28.10	NM	-253	ND	ND	ND	ND
	Sep 05	1983.81	16.95	1966.86	7.0	2.9	28.0	3.9	27.90	1.9	-239	ND	ND	ND	ND
	Dec 05	1983.81	17.64	1966.17	6.7	3.7	57.0	1.5	23.90	2.3	-140	ND	ND	ND	ND
	Mar 06	1983.81	19.25	1964.56	5.7	1.8	153.0	NM	21.30	1.2	-154	ND	ND	ND	ND
	Jun 06	1983.81	17.90	1965.91	NM	2.1	>999	3.5	28.10	1.5	-303	ND	ND	ND	ND
	Oct 06	1983.81	19.00	1964.81	6.2	1.4	86.0	1.6	27.10	0.9	-272	ND	ND	ND	ND
	Dec 06	1983.81	19.21	1964.60	6.8	3.9	144.0	3.9	26.60	2.5	-321	1	ND	ND	ND
	Mar 07	1983.81	20.84	1962.97	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 07	1983.81	21.39	1962.42	7.0	3.5	>999	2.7	27.30	2.1	-179	ND	ND	ND	ND
	Sep 07	1983.81	20.38	1963.43	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Dec 07	1983.81	20.26	1963.55	6.9	3.6	0.0	0.6	24.50	2.3	-170	1	ND	ND	ND
	Mar 08	1983.81	21.06	1962.75	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 08	1983.81	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Oct 08	1983.78	20.45	1963.33	6.8	2.9	100.0	0.0	27.70	1.9	-226	ND	ND	ND	ND
	Feb 09	1983.78	20.90	1962.88	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 09	1983.78	21.42	1962.36	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Sep 09	1983.78	21.46	1962.32	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 09	1983.78	21.67	1962.11	6.3	2.6	-10.0	0.2	27.40	1.6	-330	ND	ND	ND	ND
	Feb 10	1983.78	22.47	1961.31	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 10	1983.78	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Oct 10	1983.78	21.23	1962.55	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 10	1983.78	21.10	1962.68	7.1	1.0	1.0	0.1	28.00	NM	-274	ND	ND	ND	ND
	Mar 11	1983.78	21.76	1962.02	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 11	1983.78	22.18	1961.60	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Sep 11	1983.78	21.75	1962.03	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 11	1983.78	21.62	1962.16	6.9	1.3	NM	0.2	26.91	NM	-335	ND	ND	ND	ND
	Mar 12	1983.78	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
*	Jun 12	1983.28	21.76	1961.52	7.4	3.0	11.0	1.0	27.50	2.0	-283	0.9	ND	ND	ND
	Sep 12	1983.28	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 12	1983.28	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Mar 13	1983.28	21.36	1961.92	7.1	2.7	NM	0.7	26.34	1.7	-238	<0.50	<0.50	<0.50	<0.50
	Jun 13	1983.28	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Sep 13	1983.28	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 13	1983.28	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS

Table A-2: Historical Groundwater Gauging and Analytical Data
Maryland Square Shopping Center

Well ID	Date	Top of Casing Elevation (feet msl)	Depth to Groundwater Level (feet)	Groundwater Elevation (feet msl)	pH	Specific Conductance (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp (ºC)	TDS (g/L)	ORP (mV)	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	Vinyl Chloride (µg/L)
MW-11	Sep 02	1980.24	24.22	1956.02	NM	NM	NM	NM	NM	NM	NM	ND	ND	ND	ND
	May 03	1980.24	24.25	1955.99	NM	NM	NM	NM	NM	NM	NM	ND	ND	ND	ND
	Sep 03	1980.24	25.62	1954.62	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jan 04	1980.24	26.22	1954.02	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	May 05	1980.24	22.55	1957.69	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Mar 06	1980.24	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 06	1980.24	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Oct 06	1980.24	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Dec 06	1980.24	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Mar 07	1980.24	25.51	1954.73	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 07	1980.24	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Sep 07	1980.24	26.13	1954.11	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Dec 07	1980.24	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Mar 08	1980.24	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 08	1980.24	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Oct 08	1980.21	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Feb 09	1980.21	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 09	1980.21	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Sep 09	1980.21	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 09	1980.21	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Feb 10	1980.21	27.54	1952.67	6.7	3.3	3.0	5.0	24.30	2.1	-134	ND	ND	ND	ND
	Jun 10	1980.21	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Oct 10	1980.21	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 10	1980.21	26.69	1953.52	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Mar 11	1980.21	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 11	1980.21	27.36	1952.85	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Sep 11	1980.21	27.45	1952.76	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 11	1980.21	27.28	1952.93	6.9	3.3	NM	0.2	24.72	21.3	-94	1.4	ND	ND	ND
	Mar 12	1980.21	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
*	Jun 12	1979.87	27.37	1952.50	7.3	3.4	3.9	0.9	26.07	2.2	-194	1.4	ND	ND	ND
	Sep 12	1979.87	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 12	1979.87	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Mar 13	1979.87	25.81	1954.06	7.0	3.7	NM	1.2	24.43	2.4	-104	<0.50	<0.50	<0.50	<0.50
	Jun 13	1979.87	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Sep 13	1979.87	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 13	1979.87	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS

Table A-2: Historical Groundwater Gauging and Analytical Data
Maryland Square Shopping Center

Well ID	Date	Top of Casing Elevation (feet msl)	Depth to Groundwater Level (feet)	Groundwater Elevation (feet msl)	pH	Specific Conductance (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp (ºC)	TDS (g/L)	ORP (mV)	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	Vinyl Chloride (µg/L)
MW-12	Sep 02	1996.59	14.90	1981.69	NM	NM	NM	NM	NM	NM	NM	ND	ND	ND	ND
	May 03	1996.59	15.07	1981.52	NM	NM	NM	NM	NM	NM	NM	1.3	ND	ND	ND
	Sep 03	1996.59	15.30	1981.29	NM	NM	NM	NM	NM	NM	NM	14	ND	ND	ND
	Jan 04	1996.59	15.40	1981.19	7.0	2.2	NM	NM	22.40	NM	NM	6.1	ND	ND	ND
	May 05	1996.59	12.34	1984.25	6.8	2.6	NM	3.2	24.90	NM	219	ND	ND	ND	ND
	Sep 05	1996.59	13.45	1983.14	7.0	4.2	160.0	5.0	25.60	2.7	95	1.1	ND	ND	ND
	Dec 05	1996.59	14.20	1982.39	6.7	5.0	210.0	2.0	22.50	3.2	523	1.2	ND	ND	ND
	Mar 06	1996.59	15.00	1981.59	NM	6.7	91.0	NM	23.50	4.2	503	1.1	ND	ND	ND
	Jun 06	1996.59	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Oct 06	1996.59	14.71	1981.88	6.3	3.9	>999	3.9	26.10	2.5	112	ND	ND	ND	ND
	Dec 06	1996.59	15.05	1981.54	6.6	4.4	>999	6.2	25.30	2.8	206	1.4	ND	ND	ND
	Mar 07	1996.59	16.55	1980.04	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 07	1996.59	16.31	1980.28	7.1	3.8	>999	3.5	25.50	2.4	-39	ND	ND	ND	ND
	Sep 07	1996.59	14.27	1982.32	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Dec 07	1996.59	15.04	1981.55	6.3	3.9	286.0	2.6	24.70	2.5	207	ND	ND	ND	ND
	Mar 08	1996.59	16.51	1980.08	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 08	1996.59	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Oct 08	1996.48	15.73	1980.75	6.7	3.8	366.0	0.8	26.90	2.4	119	2	ND	ND	ND
	Feb 09	1996.48	15.61	1980.87	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 09	1996.48	16.26	1980.22	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Sep 09	1996.48	16.29	1980.19	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 09	1996.48	16.76	1979.72	6.0	3.5	370.0	1.5	27.60	2.2	54	1.2	ND	ND	ND
	Feb 10	1996.48	16.92	1979.56	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 10	1996.48	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Oct 10	1996.48	15.58	1980.90	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 10	1996.48	15.85	1980.63	6.8	3.6	20.4	1.6	26.18	NM	109	0.76	ND	ND	ND
	Mar 11	1996.48	16.49	1979.99	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 11	1996.48	16.66	1979.82	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Sep 11	1996.48	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 11	1996.48	15.93	1980.55	7.0	3.5	NM	2.0	24.82	2.3	315	0.95	ND	ND	ND
	Mar 12	1996.48	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
*	Jun 12	1995.95	15.37	1980.58	7.3	3.5	15.3	2.8	28.24	2.3	-18	1.2	ND	ND	ND
	Sep 12	1995.95	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 12	1995.95	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Mar 13	1995.95	16.76	1979.19	7.0	3.8	NM	2.4	25.55	2.5	46	0.65	<0.50	<0.50	<0.50
	Jun 13	1995.95	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Sep 13	1995.95	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 13	1995.95	16.66	1979.29	6.0	3.4	79.0	1.1	24.57	2.2	189	0.86	<0.50	<0.50	<0.50

Table A-2: Historical Groundwater Gauging and Analytical Data
Maryland Square Shopping Center

Well ID	Date	Top of Casing Elevation (feet msl)	Depth to Groundwater Level (feet)	Groundwater Elevation (feet msl)	pH	Specific Conductance (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp (ºC)	TDS (g/L)	ORP (mV)	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	Vinyl Chloride (µg/L)
MW-13	May 03	1984.23	17.25	1966.98	NM	NM	NM	NM	NM	NM	NM	2,100	ND	ND	ND
	Sep 03	1984.23	17.60	1966.63	NM	NM	NM	NM	NM	NM	NM	2,800	ND	ND	ND
	Jan 04	1984.23	18.00	1966.23	6.6	3.3	NM	1.1	22.20	NM	NM	2,700	ND	ND	ND
	May 05	1984.23	14.76	1969.47	7.0	2.1	>999	4.2	24.50	NM	118	5,310	ND	ND	ND
	Sep 05	1984.23	15.60	1968.63	7.1	4.0	270.0	6.9	25.40	2.5	144	2,600	ND	ND	ND
	Dec 05	1984.23	16.05	1968.18	6.7	5.0	330.0	2.2	24.90	3.2	250	3,400	ND	ND	ND
	Mar 06	1984.23	17.24	1966.99	5.5	3.6	44.0	NM	22.80	2.3	68	3,700	ND	ND	ND
	Jun 06	1984.23	17.40	1966.83	NM	3.7	425.0	7.1	24.20	2.4	120	2,900	NS	NS	NS
	Oct 06	1984.23	17.15	1967.08	6.2	3.6	50.0	3.8	24.60	2.3	169	2,800	ND	ND	ND
	Dec 06	1984.23	17.47	1966.76	6.8	4.3	94.0	4.2	24.50	2.7	330	3,200	ND	ND	ND
	Mar 07	1984.23	18.58	1965.65	6.9	3.5	308.0	9.5	24.00	2.3	514	2,500	ND	ND	ND
	Jun 07	1984.23	18.66	1965.57	7.0	3.5	0.0	6.1	23.60	2.2	411	3,700	ND	ND	ND
	Sep 07	1984.23	17.41	1966.82	6.7	3.3	3.0	4.7	27.70	2.1	228	2,000	ND	ND	ND
	Dec 07	1984.23	17.50	1966.73	6.4	3.7	19.7	6.5	21.30	2.4	282	2,500	ND	ND	ND
	Mar 08	1984.23	18.31	1965.92	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 08	1984.23	NM	NM	NM	NM	NM	NM	NM	NM	NM	2,300	ND	ND	ND
	Oct 08	1984.18	18.25	1965.93	6.8	3.5	50.3	3.1	24.80	2.2	87	2,600	5.3	ND	ND
	Feb 09	1984.18	18.28	1965.90	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 09	1984.18	18.41	1965.77	7.0	3.8	15.7	3.0	24.40	2.4	120	2,200	2.9	ND	ND
	Sep 09	1984.18	18.63	1965.55	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 09	1984.18	19.05	1965.13	6.0	3.4	0.0	2.0	25.20	2.1	135	1,700	3.7	ND	ND
	Feb 10	1984.18	19.22	1964.96	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 10	1984.18	18.72	1965.46	7.0	3.2	5.2	2.9	25.27	NM	NM	1,600	3.2	ND	ND
	Oct 10	1984.18	18.44	1965.74	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 10	1984.18	18.45	1965.73	6.9	3.5	2.0	2.3	23.79	NM	90	1,900	3.9	ND	ND
	Mar 11	1984.18	18.75	1965.43	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 11	1984.18	19.15	1965.03	7.1	3.5	4.0	2.7	24.74	NM	284	1,600	3.2	ND	ND
	Sep 11	1984.18	18.64	1965.54	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 11	1984.18	18.67	1965.51	6.9	3.7	NM	1.6	23.97	2.4	113	1,700	2.4	ND	ND
	Mar 12	1984.18	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
*	Jun 12	1983.31	18.45	1964.86	7.2	3.5	19.6	1.9	23.36	2.3	86	1,500	3.7	ND	ND
	Sep 12	1983.31	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 12	1983.31	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Mar 13	1983.31	18.53	1964.78	7.0	3.8	NM	1.6	22.69	2.5	159	1,300	2.8	<0.50	<0.50
	Jun 13	1983.31	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Sep 13	1983.31	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 13	1983.31	18.50	1964.81	7.5	3.9	19.7	0.9	23.77	2.5	104	1,800	3.5	<0.50	<0.50

Table A-2: Historical Groundwater Gauging and Analytical Data
Maryland Square Shopping Center

Well ID	Date	Top of Casing Elevation (feet msl)	Depth to Groundwater Level (feet)	Groundwater Elevation (feet msl)	pH	Specific Conductance (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp (ºC)	TDS (g/L)	ORP (mV)	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	Vinyl Chloride (µg/L)
MW-14	Nov 03	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	1,900	ND	ND	ND
	Jan 04	1987.89	18.35	1969.54	7.0	2.3	NM	1.3	22.30	NM	NM	2,100	ND	ND	ND
	May 05	1987.89	15.02	1972.87	7.0	3.2	NM	NM	24.70	NM	140	2,920	5.5	ND	ND
	Dec 05	1987.89	16.50	1971.39	6.8	5.3	>999	2.1	26.10	3.3	206	3,400	ND	ND	ND
	Mar 06	1987.89	17.54	1970.35	5.2	6.8	898.0	NM	24.20	4.3	234	2,500	ND	ND	ND
	Jun 06	1987.89	17.61	1970.28	NM	3.9	>999	6.8	25.40	2.5	119	1,800	NS	NS	NS
	Oct 06	1987.89	17.42	1970.47	6.1	3.6	>999	7.0	24.80	2.3	297	1,900	ND	ND	ND
	Dec 06	1987.89	17.78	1970.11	6.8	4.5	350.0	4.2	25.70	2.9	226	3,500	ND	ND	ND
	Mar 07	1987.89	18.93	1968.96	6.8	3.7	455.0	8.1	25.10	2.4	501	1,900	ND	ND	ND
	Jun 07	1987.89	18.80	1969.09	7.0	3.7	259.0	6.4	24.80	2.4	299	1,700	ND	ND	ND
	Sep 07	1987.89	17.40	1970.49	6.8	3.5	103.0	4.2	32.20	2.2	220	650	ND	ND	ND
	Dec 07	1987.89	17.66	1970.23	6.4	4.0	9.7	5.7	23.30	2.6	147	1,500	ND	ND	ND
	Mar 08	1987.89	18.63	1969.26	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 08	1987.89	NM	NM	NM	NM	NM	NM	NM	NM	NM	1,500	ND	ND	ND
	Oct 08	1987.86	18.60	1969.26	6.8	3.7	249.0	3.1	25.70	2.4	116	1,500	2.9	ND	ND
	Feb 09	1987.86	18.47	1969.39	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 09	1987.86	18.63	1969.23	7.0	4.0	>-5.0	2.9	25.60	2.5	118	1,900	4.4	ND	ND
	Sep 09	1987.86	18.88	1968.98	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 09	1987.86	19.20	1968.66	5.6	3.6	300.0	1.8	26.20	2.3	132	1,200	2.1	ND	ND
	Feb 10	1987.86	19.26	1968.60	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 10	1987.86	18.88	1968.98	7.0	3.3	84.2	3.6	25.49	NM	NM	1,500	2.4	ND	ND
	Oct 10	1987.86	18.50	1969.36	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 10	1987.86	18.56	1969.30	6.9	3.6	25.8	2.9	25.07	NM	101	1,500	2.6	ND	ND
	Mar 11	1987.86	18.97	1968.89	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 11	1987.86	19.15	1968.71	7.3	3.6	11.4	3.2	25.78	NM	259	1,700	2.0	ND	ND
	Sep 11	1987.86	18.74	1969.12	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 11	1987.86	18.72	1969.14	7.0	3.5	NM	2.6	25.40	2.3	111	1,700	2.5	ND	ND
	Mar 12	1987.86	19.33	1968.53	7.2	3.6	87.5	4.3	23.33	2.3	-51	1,600	NS	NS	NS
*	Jun 12	1987.33	18.71	1968.62	7.3	3.5	122.0	3.9	25.77	2.3	104	1,400	2.5	ND	ND
	Sep 12	1987.33	18.28	1969.05	7.3	3.5	NM	3.2	25.71	2.3	144	1,300	2.8	ND	ND
	Nov 12	1987.33	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Mar 13	1987.33	19.12	1968.21	7.0	3.9	NM	2.6	24.10	2.5	112	1,900	2.9	<0.50	<0.50
	Jun 13	1987.33	19.44	1967.89	7.2	3.1	NM	3.5	28.28	2.5	130	1,300	2.1	<0.50	<0.50
	Sep 13	1987.33	19.16	1968.17	7.0	3.7	NM	2.8	26.13	2.4	91	1,400	2.5	<0.50	<0.50
	Nov 13	1987.33	18.96	1968.37	7.8	3.9	28.9	2.6	25.17	3.5	96	1,500	2.7	<0.50	<0.50
MW-14I	Mar 13	NM	19.52	NM	7.4	1.3	NM	4.1	24.19	0.9	95	7,200	51	4.9	<0.50
	Jun 13	1987.54	19.95	1967.59	7.5	1.4	NM	4.2	30.76	0.9	101	5,500	27	3.8	<0.50
	Sep 13	1987.54	19.66	1967.88	7.4	1.4	NM	2.9	35.26	0.9	82	3,700	23	1.6	<0.50
	Nov 13	1987.54	19.53	1968.01	7.8	1.4	6.3	4.0	24.38	0.9	102	10,000	38	17	<0.50

Table A-2: Historical Groundwater Gauging and Analytical Data
Maryland Square Shopping Center

Well ID	Date	Top of Casing Elevation (feet msl)	Depth to Groundwater Level (feet)	Groundwater Elevation (feet msl)	pH	Specific Conductance (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp (ºC)	TDS (g/L)	ORP (mV)	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	Vinyl Chloride (µg/L)
MW-15	Nov 03	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	5.2	ND	ND	ND
	Jan 04	1983.28	15.60	1967.68	6.4	2.2	NM	1.0	22.40	NM	NM	2.7	ND	ND	ND
	May 05	1983.28	12.59	1970.69	7.0	2.3	NM	2.9	25.10	NM	164	ND	ND	ND	ND
	Sep 05	1983.28	13.45	1969.83	7.0	3.6	36.0	3.5	25.80	2.3	-24	3.6	ND	ND	ND
	Dec 05	1983.28	13.77	1969.51	6.6	4.5	140.0	1.0	25.90	2.8	-38	5	ND	ND	ND
	Mar 06	1983.28	15.00	1968.28	4.7	6.4	20.0	NM	23.90	4.0	613	4.5	ND	ND	ND
	Jun 06	1983.28	15.15	1968.13	NM	3.8	300.0	4.3	26.00	2.5	106	4.4	NS	NS	NS
	Oct 06	1983.28	14.91	1968.37	6.2	3.7	10.0	2.0	25.70	2.3	51	3.3	ND	ND	ND
	Dec 06	1983.28	15.17	1968.11	6.8	4.7	15.0	3.4	25.90	3.0	28	3.7	ND	ND	ND
	Mar 07	1983.28	16.31	1966.97	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 07	1983.28	16.16	1967.12	7.0	3.6	37.0	3.1	25.30	2.3	362	3	ND	ND	ND
	Sep 07	1983.28	14.80	1968.48	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Dec 07	1983.28	14.71	1968.57	6.4	3.7	0.0	1.9	23.30	2.3	170	3	ND	ND	ND
	Mar 08	1983.28	16.62	1966.66	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 08	1983.28	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Oct 08	1983.25	15.80	1967.45	6.8	3.6	132.0	2.1	27.00	2.3	112	7.8	ND	ND	ND
	Feb 09	1983.25	15.76	1967.49	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 09	1983.25	15.89	1967.36	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Sep 09	1983.25	16.34	1966.91	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 09	1983.25	16.68	1966.57	5.8	3.2	44.0	1.8	26.60	2.1	34	3	ND	ND	ND
	Feb 10	1983.25	16.81	1966.44	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 10	1983.25	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Oct 10	1983.25	16.10	1967.15	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 10	1983.25	16.08	1967.17	6.8	3.4	7.6	2.3	27.60	NM	154	2.5	ND	ND	ND
	Mar 11	1983.25	16.29	1966.96	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 11	1983.25	16.64	1966.61	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Sep 11	1983.25	16.18	1967.07	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 11	1983.25	16.17	1967.08	6.8	4.0	NM	2.1	26.75	NM	-42	3.5	ND	ND	ND
	Mar 12	1983.25	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 12	1982.74	16.70	1966.04	7.3	3.1	25.4	4.1	27.82	2.1	-64	4.2	ND	ND	ND
	Sep 12	1982.74	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 12	1982.74	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Mar 13	1982.74	16.41	1966.33	7.0	3.6	NM	2.9	26.24	2.3	48	2.7	<0.50	<0.50	<0.50
	Jun 13	1982.74	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Sep 13	1982.74	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 13	1982.74	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS

Table A-2: Historical Groundwater Gauging and Analytical Data
Maryland Square Shopping Center

Well ID	Date	Top of Casing Elevation (feet msl)	Depth to Groundwater Level (feet)	Groundwater Elevation (feet msl)	pH	Specific Conductance (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp (ºC)	TDS (g/L)	ORP (mV)	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	Vinyl Chloride (µg/L)
MW-16	Nov 03	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	ND	ND	ND	ND
	Jan 04	1980.63	26.22	1954.41	7.0	2.3	NM	0.7	22.40	NM	NM	ND	ND	ND	ND
	May 05	1980.63	23.41	1957.22	7.1	2.9	NM	1.1	25.20	NM	-4	ND	ND	ND	ND
	Sep 05	1980.63	24.12	1956.51	7.0	3.4	520.0	3.5	24.60	2.3	-31	ND	ND	ND	ND
	Dec 05	1980.63	24.21	1956.42	6.7	3.8	>999	1.3	25.30	2.4	48	ND	ND	ND	ND
	Mar 06	1980.63	25.06	1955.57	5.2	5.7	199.0	NM	23.80	3.6	162	ND	ND	ND	ND
	Jun 06	1980.63	26.05	1954.58	NM	3.4	>999	5.6	27.10	2.2	-64	ND	ND	ND	ND
	Oct 06	1980.63	25.67	1954.96	6.3	3.4	32.0	2.0	24.60	2.2	-145	ND	ND	ND	ND
	Dec 06	1980.63	25.56	1955.07	6.5	3.6	271.0	2.9	24.40	1.3	-52	ND	ND	ND	ND
	Mar 07	1980.63	26.33	1954.30	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 07	1980.63	27.28	1953.35	6.7	3.3	282.0	2.2	25.00	2.1	94	ND	ND	ND	ND
	Sep 07	1980.63	27.03	1953.60	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Dec 07	1980.63	26.46	1954.17	6.5	3.4	0.0	1.9	24.90	2.2	82	ND	ND	ND	ND
	Mar 08	1980.63	26.33	1954.30	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 08	1980.63	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Oct 08	1980.61	27.19	1953.42	6.9	3.2	68.0	0.0	24.90	2.1	38	ND	2.8	ND	ND
	Feb 09	1980.61	26.52	1954.09	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 09	1980.61	27.30	1953.31	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Sep 09	1980.61	27.86	1952.75	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 09	1980.61	27.99	1952.62	5.7	3.0	100.0	0.4	26.00	1.9	-96	1.9	ND	ND	ND
	Feb 09	1980.61	28.43	1952.18	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 10	1980.61	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Oct 10	1980.61	27.95	1952.66	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 10	1980.61	27.68	1952.93	6.6	3.1	2.5	0.2	26.52	NM	140	ND	ND	ND	ND
	Mar 11	1980.61	27.49	1953.12	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 11	1980.61	28.22	1952.39	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Sep 11	1980.61	28.36	1952.25	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 11	1980.61	28.17	1952.44	6.9	3.5	NM	0.2	24.40	NM	-74	ND	ND	ND	ND
	Mar 12	1980.61	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
*	Jun 12	1980.53	28.51	1952.02	7.2	2.9	NM	1.2	25.13	1.9	-23	ND	ND	ND	ND
	Sep 12	1980.53	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 12	1980.53	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Mar 13	1980.53	26.86	1953.67	7.0	3.3	NM	1.7	25.33	2.2	-111	<0.50	<0.50	<0.50	<0.50
	Jun 13	1980.53	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Sep 13	1980.53	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 13	1980.53	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS

Table A-2: Historical Groundwater Gauging and Analytical Data
Maryland Square Shopping Center

Well ID	Date	Top of Casing Elevation (feet msl)	Depth to Groundwater Level (feet)	Groundwater Elevation (feet msl)	pH	Specific Conductance (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp (ºC)	TDS (g/L)	ORP (mV)	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	Vinyl Chloride (µg/L)
MW-17	May 05	1990.92	15.07	1975.85	6.9	3.5	22.0	5.9	24.10	NM	181	520	ND	ND	ND
	Dec 05	1990.92	17.05	1973.87	6.9	4.7	6.0	2.3	26.80	3.0	240	470	ND	ND	ND
	Mar 06	1990.92	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 06	1990.92	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Oct 06	1990.92	17.91	1973.01	6.2	3.5	2.0	7.4	24.90	2.2	174	1,300	ND	ND	ND
	Dec 06	1990.92	18.41	1972.51	6.9	4.1	25.0	6.8	24.10	2.7	386	710	ND	ND	ND
	Mar 07	1990.92	19.63	1971.29	7.0	3.6	87.0	8.1	24.30	2.3	350	440	ND	ND	ND
	Jun 07	1990.92	19.48	1971.44	7.0	3.7	37.0	7.3	25.00	2.3	471	300	ND	ND	ND
	Sep 07	1990.92	17.91	1973.01	6.7	3.4	0.0	5.0	26.70	2.2	197	380	ND	ND	ND
	Dec 07	1990.92	18.45	1972.47	6.3	3.9	0.0	4.8	19.70	2.5	176	480	ND	ND	ND
	Mar 08	1990.92	19.51	1971.41	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 08	1990.92	NM	NM	NM	NM	NM	NM	NM	NM	NM	360	ND	ND	ND
	Oct 08	1990.89	18.84	1972.05	6.8	3.7	-3.1	4.1	25.00	2.4	136	290	ND	ND	ND
	Feb 09	1990.89	19.12	1971.77	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 09	1990.89	19.44	1971.45	5.6	3.8	0.0	1.3	25.00	2.4	170	270	ND	ND	ND
	Sep 09	1990.89	19.58	1971.31	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 09	1990.89	19.95	1970.94	6.6	3.5	-10.0	3.0	25.20	2.2	131	310	ND	ND	ND
	Feb 10	1990.89	19.71	1971.18	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 10	1990.89	19.62	1971.27	7.0	2.9	-0.7	3.1	25.10	NM	NM	270	ND	ND	ND
	Oct 10	1990.89	19.10	1971.79	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 10	1990.89	19.14	1971.75	6.6	3.7	1.3	1.8	26.48	NM	207	240	ND	ND	ND
	Mar 11	1990.89	19.65	1971.24	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 11	1990.89	19.85	1971.04	6.7	3.7	0.5	1.7	25.89	NM	399	350	ND	ND	ND
	Sep 11	1990.89	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 11	1990.89	19.45	1971.44	7.0	3.5	NM	2.7	24.09	2.6	274	350	ND	ND	ND
	Mar 12	1990.89	20.03	1970.86	7.2	3.6	4.1	1.3	24.72	2.3	-92	320	NS	NS	NS
*	Jun 12	1991.04	19.09	1971.95	7.2	3.5	4.5	1.6	24.31	2.3	101	260	ND	ND	ND
	Sep 12	1991.04	18.83	1972.21	7.5	3.5	NM	2.0	25.50	2.8	72	250	ND	ND	ND
	Nov 12	1991.04	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Mar 13	1991.04	19.94	1971.10	7.0	3.7	NM	1.0	23.75	2.4	54	190	<0.50	<0.50	<0.50
	Jun 13	1991.04	20.30	1970.74	7.0	3.8	NM	1.1	23.43	2.4	91	150	<0.50	<0.50	<0.50
	Sep 13	1991.04	20.18	1970.86	7.1	3.7	NM	1.4	25.61	2.4	-86	130	<0.50	<0.50	<0.50
	Nov 13	1991.04	19.90	1971.14	6.0	3.2	1.7	0.4	24.10	2.1	154	120	<0.50	<0.50	<0.50

Table A-2: Historical Groundwater Gauging and Analytical Data
Maryland Square Shopping Center

Well ID	Date	Top of Casing Elevation (feet msl)	Depth to Groundwater Level (feet)	Groundwater Elevation (feet msl)	pH	Specific Conductance (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp (ºC)	TDS (g/L)	ORP (mV)	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	Vinyl Chloride (µg/L)
MW-18	May 05	1962.87	8.71	1954.16	7.1	3.9	>999	5.6	24.30	NM	139	1,600	ND	ND	ND
	Sep 05	1962.87	9.69	1953.18	7.1	4.1	3.0	6.2	26.30	2.6	88	1,700	ND	ND	ND
	Dec 05	1962.87	9.70	1953.17	6.8	4.7	NM	2.0	25.20	3.0	420	2,400	ND	ND	ND
	Mar 06	1962.87	10.21	1952.66	5.2	6.2	3.0	NM	23.30	3.9	237	1,700	NS	NS	NS
	Jun 06	1962.87	11.64	1951.23	NM	3.6	304.0	6.2	25.40	2.3	166	1,600	NS	NS	NS
	Oct 06	1962.87	11.21	1951.66	6.3	3.5	0.0	4.1	25.50	2.2	127	2,100	ND	ND	ND
	Dec 06	1962.87	10.98	1951.89	6.8	4.2	0.0	4.3	24.70	2.7	297	1,400	ND	ND	ND
	Mar 07	1962.87	11.36	1951.51	7.0	3.4	23.0	7.5	22.80	2.2	286	1,400	ND	ND	ND
	Jun 07	1962.87	12.53	1950.34	7.0	3.5	24.0	5.5	23.90	2.2	394	1,300	ND	ND	ND
	Sep 07	1962.87	12.45	1950.42	6.8	3.3	22.0	5.4	29.30	2.1	210	930	ND	ND	ND
	Dec 07	1962.87	11.54	1951.33	6.3	3.6	0.0	5.8	21.60	2.3	232	1,400	ND	ND	ND
	Mar 08	1962.87	11.15	1951.72	6.9	3.5	0.2	4.3	21.20	2.2	212	1,800	ND	ND	ND
	Jun 08	1962.87	NM	NM	NM	NM	NM	NM	NM	NM	NM	1,200	ND	ND	ND
	Oct 08	1962.86	11.96	1950.90	5.5	3.5	14.3	7.8	25.50	2.2	196	950	3.7	ND	ND
	Feb 09	1962.86	11.48	1951.38	6.7	3.3	0.0	3.8	22.70	2.1	90	1,500	5.2	ND	ND
	Jun 09	1962.86	12.36	1950.50	7.3	3.5	20.2	3.5	23.90	2.3	131	3,500	5.1	ND	ND
	Sep 09	1962.86	13.24	1949.62	6.6	3.9	18.9	4.3	28.00	2.5	136	1,200	ND	ND	ND
	Nov 09	1962.86	13.27	1949.59	5.9	3.3	40.0	3.6	25.80	2.1	132	1,400	4.1	ND	ND
	Feb 10	1962.86	13.37	1949.49	6.9	3.3	9.0	4.0	23.30	2.1	134	1,600	4.8	ND	ND
	Jun 10	1962.86	12.90	1949.96	7.1	3.1	-0.9	8.0	25.10	NM	NM	1,100	3.5	ND	ND
	Oct 10	1962.86	13.43	1949.43	6.7	3.3	-0.7	4.4	26.19	2.2	528	1,300	3.4	ND	ND
	Nov 10	1962.86	13.20	1949.66	6.8	3.3	0.2	4.0	25.79	NM	192	1,200	3.8	ND	ND
	Mar 11	1962.86	12.43	1950.43	7.5	3.4	25.7	7.8	22.14	NM	118	1,000	2.7	ND	ND
	Jun 11	1962.86	13.32	1949.54	7.4	3.4	0.7	4.4	24.99	NM	234	1,300	2.9	ND	ND
	Sep 11	1962.86	13.61	1949.25	7.0	3.4	39.0	6.2	26.60	2.2	276	1,300	3.2	ND	ND
	Nov 11	1962.86	13.39	1949.47	7.0	3.2	NM	4.0	24.97	2.1	178	1,100	3.3	ND	ND
	Mar 12	1962.86	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
*	Jun 12	1962.9	13.80	1949.10	7.3	3.2	6.1	4.8	25.23	2.1	115	1,300	3.4	ND	ND
	Sep 12	1962.9	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 12	1962.9	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Mar 13	1962.9	12.06	1950.84	7.1	3.6	NM	2.6	23.54	2.3	83	1,200	2.5	<0.50	<0.50
	Jun 13	1962.9	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Sep 13	1962.9	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 13	1962.9	13.62	1949.28	6.8	3.6	8.3	3.6	25.49	2.4	152	780	<0.50	<0.50	<0.50

Table A-2: Historical Groundwater Gauging and Analytical Data
Maryland Square Shopping Center

Well ID	Date	Top of Casing Elevation (feet msl)	Depth to Groundwater Level (feet)	Groundwater Elevation (feet msl)	pH	Specific Conductance (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp (ºC)	TDS (g/L)	ORP (mV)	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	Vinyl Chloride (µg/L)
MW-19	Nov 03	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	1,100	ND	ND	ND
	Jan 04	1980.26	25.65	1954.61	7.0	1.9	NM	1.0	22.40	NM	NM	1,200	ND	ND	ND
	May 05	1980.26	22.70	1957.56	7.1	1.9	NM	5.8	25.00	NM	130	873	ND	ND	ND
	Dec 05	1980.26	23.65	1956.61	6.6	4.7	NM	2.0	24.70	3.0	388	1,300	ND	ND	ND
	Mar 06	1980.26	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 06	1980.26	25.55	1954.71	NM	3.7	>999	7.9	27.10	2.4	86	910	ND	ND	ND
	Oct 06	1980.26	25.23	1955.03	6.1	3.7	>999	4.6	23.90	2.4	175	840	ND	ND	ND
	Dec 06	1980.26	25.01	1955.25	6.8	4.4	>999	5.7	23.90	2.8	595	1,200	ND	ND	ND
	Mar 07	1980.26	25.77	1954.49	6.9	3.7	>999	9.1	24.30	2.3	284	890	ND	ND	ND
	Jun 07	1980.26	26.84	1953.42	7.1	3.5	>999	6.7	24.50	2.3	551	870	ND	ND	ND
	Sep 07	1980.26	26.41	1953.85	6.8	3.4	352.0	5.1	27.40	2.2	201	510	ND	ND	ND
	Dec 07	1980.26	25.52	1954.74	6.4	3.8	440.0	5.6	24.30	2.4	150	990	ND	ND	ND
	Mar 08	1980.26	25.35	1954.91	7.0	3.7	7.6	5.2	24.80	2.3	190	1,200	NS	NS	NS
	Jun 08	1980.26	NM	NM	NM	NM	NM	NM	NM	NM	NM	930	ND	ND	ND
	Oct 08	1980.24	26.19	1954.05	6.9	3.5	18.0	4.1	24.40	2.2	135	1,300	5.7	ND	ND
	Feb 09	1980.24	25.76	1954.48	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 09	1980.24	26.59	1953.65	7.0	3.6	178.0	4.5	25.80	2.3	125	1,400	6.1	ND	ND
	Sep 09	1980.24	27.34	1952.90	6.4	3.9	999.0	4.7	26.60	2.5	157	880	ND	ND	ND
	Nov 09	1980.24	27.42	1952.82	5.9	3.4	>990	2.7	25.50	2.2	131	580	3.7	ND	ND
	Feb 10	1980.24	27.78	1952.46	6.9	3.2	120.0	4.8	23.70	2.1	135	990	5.5	ND	ND
	Jun 10	1980.24	27.08	1953.16	7.0	3.0	2.7	5.0	25.41	NM	NM	930	4.2	ND	ND
	Oct 10	1980.24	27.50	1952.74	7.1	3.2	15.3	5.2	25.28	2.1	394	420	3.2	ND	ND
	Nov 10	1980.24	27.24	1953.00	7.1	3.3	15.5	5.0	25.25	NM	241	840	4.1	ND	ND
	Mar 11	1980.24	26.73	1953.51	6.9	3.4	71.3	5.4	24.59	NM	258	880	3.7	ND	ND
	Jun 11	1980.24	27.55	1952.69	7.4	3.3	20.5	5.0	26.19	NM	190	1,000	3.5	ND	ND
	Sep 11	1980.24	27.68	1952.56	7.0	3.4	570.0	6.5	26.90	2.2	250	950	3.6	ND	ND
	Nov 11	1980.24	27.50	1952.74	7.1	3.1	NM	4.6	23.94	2.0	131	1,100	4.2	ND	ND
	Mar 12	1980.24	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
*	Jun 12	1980.13	27.88	1952.25	7.5	3.1	27.1	5.3	25.86	2.0	102	1,000	3.5	ND	ND
	Sep 12	1980.13	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 12	1980.13	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Mar 13	1980.13	NM	NM	NM	NM	NM	NM	NM	NM	NM	520	3.2	<0.50	<0.50
	Jun 13	1980.13	27.46	1952.67	7.2	3.4	NM	4.9	28.16	2.2	119	530	3.4	<0.50	<0.50
	Sep 13	1980.13	27.94	1952.19	7.2	3.2	NM	4.7	27.22	2.1	255	840	3.2	<0.50	<0.50
	Nov 13	1980.13	27.48	1952.65	6.3	3.1	65.8	3.2	26.49	2.0	228	440	3.2	<0.50	<0.50

Table A-2: Historical Groundwater Gauging and Analytical Data
Maryland Square Shopping Center

Well ID	Date	Top of Casing Elevation (feet msl)	Depth to Groundwater Level (feet)	Groundwater Elevation (feet msl)	pH	Specific Conductance (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp (ºC)	TDS (g/L)	ORP (mV)	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	Vinyl Chloride (µg/L)
MW-19I	Sep 12	1967.55	26.60	1940.95	7.7	3.0	NM	3.9	26.53	2.0	131	690	4.0	0.8	ND
	Nov 12	1967.55	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Mar 13	1967.55	NM	NM	NM	NM	NM	NM	NM	NM	NM	710	5.2	0.74	<0.50
	Jun 13	1967.55	26.42	1941.13	7.3	3.4	NM	4.4	26.1	2.1	589	<0.50	<0.50	<0.50	<0.50
	Sep 13	1978.37	26.92	1951.45	7.0	3.9	NM	5.2	28.5	2.5	650	<0.50	<0.50	<0.50	<0.50
	Nov 13	1978.37	26.47	1951.90	4.3	4.2	20.8	4.3	25.6	2.7	579	<0.50	<0.50	<0.50	<0.50
MW-19D1	Mar 13	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	300	2.9	<0.50	<0.50
	Jun 13	1979.25	27.73	1951.52	7.3	3.0	NM	4.7	27.42	1.9	3	690	4.2	<0.50	<0.50
	Sep 13	1979.25	27.17	1952.08	7.0	3.2	NM	4.3	26.23	2.1	485	990	4.2	<0.50	<0.50
	Nov 13	1979.25	26.70	1952.55	7.3	2.4	28.1	4.7	24.24	1.7	385	620	3.5	<0.50	<0.50
MW-19D2	Mar 13	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	170	1.5	<0.50	<0.50
	Jun 13	1979.28	27.85	1951.43	7.4	2.7	NM	2.0	26.09	1.8	607	<0.50	<0.50	<0.50	<0.50
	Sep 13	1979.28	28.50	1950.78	7.2	2.4	NM	2.6	25.10	1.6	565	<0.50	<0.50	<0.50	<0.50
	Nov 13	1979.28	27.71	1951.57	7.5	2.6	18.0	3.3	24.83	1.7	485	<0.50	<0.50	<0.50	<0.50
MW-19D3	Mar 13	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	0.50	<0.50	<0.50	<0.50
	Jun 13	1979.32	25.53	1953.79	7.7	0.5	NM	4.0	28.15	0.3	68	0.68	<0.50	<0.50	<0.50
	Sep 13	1979.32	28.80	1950.52	6.9	3.2	NM	4.9	24.91	2.1	133	710	4.8	<0.50	<0.50
	Nov 13	1979.32	25.42	1953.90	7.6	1.0	10.3	4.1	24.27	0.7	424	160	0.75	<0.50	<0.50

Table A-2: Historical Groundwater Gauging and Analytical Data
Maryland Square Shopping Center

Well ID	Date	Top of Casing Elevation (feet msl)	Depth to Groundwater Level (feet)	Groundwater Elevation (feet msl)	pH	Specific Conductance (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp (ºC)	TDS (g/L)	ORP (mV)	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	Vinyl Chloride (µg/L)
MW-20	Nov 03	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	1,800	ND	ND	ND
	Jan 04	1979.99	25.50	1954.49	6.9	2.1	NM	1.1	22.60	NM	NM	290	2.8	ND	ND
	May 05	1979.99	22.58	1957.41	7.2	1.3	NM	5.0	23.60	NM	131	1,460	ND	ND	ND
	Dec 05	1979.99	23.55	1956.44	6.8	4.4	NM	0.8	20.50	2.8	272	1,800	ND	ND	ND
	Mar 06	1979.99	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 06	1979.99	25.48	1954.51	NM	3.8	736.0	6.9	28.60	2.1	70	2,100	ND	ND	ND
	Oct 06	1979.99	25.04	1954.95	6.1	2.6	>999	4.1	23.70	1.8	234	2,000	ND	ND	ND
	Dec 06	1979.99	24.85	1955.14	6.8	4.1	284.0	4.3	23.90	2.6	245	2,500	ND	ND	ND
	Mar 07	1979.99	26.63	1953.36	6.9	3.3	999.0	9.8	23.80	2.2	530	1,500	ND	ND	ND
	Jun 07	1979.99	26.76	1953.23	7.0	3.5	>999	5.4	23.80	2.2	346	1,300	ND	ND	ND
	Sep 07	1979.99	26.30	1953.69	6.8	3.3	248.0	4.4	32.50	2.1	207	730	ND	ND	ND
	Dec 07	1979.99	25.38	1954.61	6.3	3.8	24.6	5.4	21.90	2.4	180	1,400	ND	ND	ND
	Mar 08	1979.99	25.12	1954.87	6.9	3.5	33.0	4.0	23.60	2.3	184	1,600	NS	NS	NS
	Jun 08	1979.99	NM	NM	NM	NM	NM	NM	NM	NM	NM	1,200	ND	ND	ND
	Oct 08	1979.95	26.05	1953.90	7.3	3.5	-5.0	2.3	25.20	NM	181	1,000	3.5	ND	ND
	Feb 09	1979.95	25.57	1954.38	6.6	3.5	247.0	2.5	23.40	2.2	99	830	ND	ND	ND
	Jun 09	1979.95	26.45	1953.50	6.9	3.7	>-5.0	2.2	23.90	2.3	140	1,100	3.3	ND	ND
	Sep 09	1979.95	27.21	1952.74	6.5	4.1	386.0	2.5	25.70	2.6	146	940	ND	ND	ND
	Nov 09	1979.95	27.30	1952.65	5.8	3.4	380.0	1.9	25.30	2.2	142	640	2.2	ND	ND
	Feb 10	1979.95	27.54	1952.41	6.9	3.3	38.0	2.5	24.30	2.0	130	990	3.3	ND	ND
	Jun 10	1979.95	27.86	1952.09	7.0	3.2	1.4	3.5	24.59	NM	NM	780	2.4	ND	ND
	Oct 10	1979.95	27.35	1952.60	6.4	3.3	39.3	2.9	26.58	2.2	519	340	1.8	ND	ND
	Nov 10	1979.95	27.12	1952.83	6.6	3.4	0.9	3.0	25.50	NM	194	890	2.6	ND	ND
	Mar 11	1979.95	26.59	1953.36	6.9	3.5	49.7	3.4	25.69	NM	237	800	2.3	ND	ND
	Jun 11	1979.95	27.40	1952.55	6.8	3.5	3.1	3.5	31.92	NM	452	740	1.9	ND	ND
	Sep 11	1979.95	27.56	1952.39	6.9	3.6	20.0	3.4	26.50	2.2	182	680	1.8	ND	ND
	Nov 11	1979.95	27.35	1952.60	7.0	3.3	NM	2.8	24.35	2.2	131	800	1.9	ND	ND
	Mar 12	1979.95	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
*	Jun 12	1979.82	27.62	1952.20	7.4	3.3	40.1	3.7	25.17	2.2	87	660	2.1	ND	ND
	Sep 12	1979.82	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 12	1979.82	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Mar 13	1979.82	NM	NM	NM	NM	NM	NM	NM	NM	NM	290	1.8	<0.50	<0.50
	Jun 13	1979.82	27.20	1952.62	7.2	3.7	NM	4.7	26.67	2.4	192	660	2.1	<0.50	<0.50
	Sep 13	1979.82	27.70	1952.12	7.0	3.5	NM	4.5	26.41	2.3	428	570	1.8	<0.50	<0.50
	Nov 13	1979.82	27.28	1952.54	6.1	3.4	21.8	2.5	25.53	2.2	245	530	1.4	<0.50	<0.50

Table A-2: Historical Groundwater Gauging and Analytical Data
Maryland Square Shopping Center

Well ID	Date	Top of Casing Elevation (feet msl)	Depth to Groundwater Level (feet)	Groundwater Elevation (feet msl)	pH	Specific Conductance (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp (ºC)	TDS (g/L)	ORP (mV)	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	Vinyl Chloride (µg/L)
MW-20D1	Mar 13	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	69	2.8	3.6	<0.50
	Jun 13	1978.81	26.17	1952.64	7.3	3.0	NM	5.2	27.38	2.0	115	110	<0.50	<0.50	<0.50
	Sep 13	1978.81	27.01	1951.80	7.1	3.4	NM	4.8	27.83	2.2	113	100	0.56	<0.50	<0.50
	Nov 13	1978.81	26.60	1952.21	7.1	3.3	83.3	4.5	25.16	2.2	57	260	0.86	<0.50	<0.50
MW-20D2	Mar 13	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	25	<0.50	<0.50	<0.50
	Jun 13	1978.66	26.23	1952.43	7.4	0.8	NM	4.6	25.83	0.5	107	64	<0.50	<0.50	<0.50
	Sep 13	1978.66	26.90	1951.76	7.0	3.5	NM	4.2	27.95	2.3	114	210	0.77	<0.50	<0.50
	Nov 13	1978.66	26.92	1951.74	6.7	2.5	9.0	4.3	24.88	1.6	75	160	1.0	0.81	<0.50
MW-20D3	Mar 13	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	0.66	<0.50	<0.50	<0.50
	Jun 13	1978.69	26.17	1952.52	7.1	0.5	NM	3.9	24.81	0.3	119	<0.50	<0.50	<0.50	<0.50
	Sep 13	1978.69	27.28	1951.41	7.1	3.0	NM	4.9	33.54	1.9	100	25	<0.50	0.80	<0.50
	Nov 13	1978.69	26.57	1952.12	6.9	1.4	31.9	4.0	24.89	0.9	81	62	<0.50	<0.50	<0.50

Table A-2: Historical Groundwater Gauging and Analytical Data
Maryland Square Shopping Center

Well ID	Date	Top of Casing Elevation (feet msl)	Depth to Groundwater Level (feet)	Groundwater Elevation (feet msl)	pH	Specific Conductance (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp (ºC)	TDS (g/L)	ORP (mV)	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	Vinyl Chloride (µg/L)
MW-21	Nov 03	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	51	ND	ND	ND
	Jan 04	1979.56	24.72	1954.84	6.9	2.0	NM	1.1	22.30	NM	NM	55	ND	ND	ND
	May 05	1979.56	21.76	1957.80	7.1	2.8	NM	2.9	24.60	NM	131	30	ND	ND	ND
	Sep 05	1979.56	22.70	1956.86	7.1	4.7	39.0	4.1	25.80	2.6	109	19	2.4	1.5	ND
	Dec 05	1979.56	22.85	1956.71	6.6	4.6	>999	0.5	24.30	2.9	264	16	1.8	1.3	ND
	Mar 06	1979.56	23.46	1956.10	5.5	3.6	140.0	NM	23.00	2.3	309	43	ND	ND	ND
	Jun 06	1979.56	24.68	1954.88	NM	3.5	>999	4.7	28.50	2.3	112	32	ND	ND	ND
	Oct 06	1979.56	24.35	1955.21	6.2	3.5	>999	2.0	24.10	2.2	79	23	ND	ND	ND
	Dec 06	1979.56	24.15	1955.41	6.7	4.5	617.0	2.7	24.00	2.9	89	39	ND	ND	ND
	Mar 07	1979.56	24.87	1954.69	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 07	1979.56	25.95	1953.61	7.0	3.4	>999	4.2	24.20	2.2	373	28	ND	ND	ND
	Sep 07	1979.56	25.44	1954.12	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Dec 07	1979.56	24.34	1955.22	6.2	3.7	>999	4.4	19.30	2.4	117	83	ND	ND	ND
	Mar 08	1979.56	24.19	1955.37	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 08	1979.56	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Oct 08	1979.54	24.80	1954.74	7.2	3.4	545.0	0.0	24.50	NM	173	20	ND	ND	ND
	Feb 09	1979.54	24.73	1954.81	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 09	1979.54	25.53	1954.01	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Sep 09	1979.54	26.39	1953.15	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 09	1979.54	26.40	1953.14	6.0	3.4	90.0	0.9	24.90	2.2	119	11	ND	ND	ND
	Feb 10	1979.54	26.14	1953.40	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 10	1979.54	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Oct 10	1979.54	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 10	1979.54	26.32	1953.22	6.6	3.5	2.6	0.3	25.18	NM	202	13	ND	ND	ND
	Mar 11	1979.54	25.68	1953.86	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 11	1979.54	26.57	1952.97	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Sep 11	1979.54	26.67	1952.87	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 11	1979.54	26.47	1953.07	6.8	4.0	NM	0.2	24.75	NM	-38	13	ND	ND	ND
	Mar 12	1979.54	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
*	Jun 12	1979.25	26.77	1952.48	7.3	3.4	8.6	1.0	26.21	2.2	-127	9.4	ND	ND	ND
	Sep 12	1979.25	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 12	1979.25	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Mar 13	1979.25	25.03	1954.22	6.9	3.7	NM	0.2	24.49	2.4	107	8.4	<0.50	<0.50	<0.50
	Jun 13	1979.25	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Sep 13	1979.25	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 13	1979.25	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS

Table A-2: Historical Groundwater Gauging and Analytical Data
Maryland Square Shopping Center

Well ID	Date	Top of Casing Elevation (feet msl)	Depth to Groundwater Level (feet)	Groundwater Elevation (feet msl)	pH	Specific Conductance (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp (ºC)	TDS (g/L)	ORP (mV)	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	Vinyl Chloride (µg/L)
MW-22	May 05	1974.76	23.04	1951.72	6.8	3.9	474.0	1.7	24.10	NM	46	ND	ND	ND	ND
	Sep 05	1974.76	24.18	1950.58	6.9	4.3	10.0	7.2	23.90	2.7	46	ND	ND	ND	ND
	Dec 05	1974.76	24.30	1950.46	6.4	4.2	NM	1.3	24.60	2.7	213	1	ND	ND	ND
	Mar 06	1974.76	24.68	1950.08	4.8	6.1	30.0	NM	24.00	3.8	269	ND	ND	ND	ND
	Jun 06	1974.76	25.91	1948.85	NM	3.4	287.0	6.0	26.40	2.2	376	ND	ND	ND	ND
	Oct 06	1974.76	25.79	1948.97	6.0	3.7	11.0	2.4	23.80	2.4	141	ND	ND	ND	ND
	Dec 06	1974.76	25.49	1949.27	6.5	4.5	0.0	3.5	23.50	2.9	477	ND	ND	ND	ND
	Mar 07	1974.76	24.73	1950.03	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 07	1974.76	26.91	1947.85	6.7	3.8	26.0	3.4	24.30	2.4	137	ND	ND	ND	ND
	Sep 07	1974.76	26.90	1947.86	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Dec 07	1974.76	25.88	1948.88	6.3	4.0	55.6	2.3	23.80	2.5	216	ND	ND	ND	ND
	Mar 08	1974.76	25.17	1949.59	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 08	1974.76	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Oct 08	1974.75	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Feb 09	1974.75	25.60	1949.15	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 09	1974.75	26.59	1948.16	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Sep 09	1974.75	27.58	1947.17	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 09	1974.75	27.38	1947.37	6.0	3.6	31.0	1.4	24.50	2.3	131	1.4	ND	ND	ND
	Feb 10	1974.75	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 10	1974.75	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Oct 10	1974.75	27.82	1946.93	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 10	1974.75	27.55	1947.20	6.7	3.7	0.1	1.6	24.30	NM	129	ND	ND	ND	ND
	Mar 11	1974.75	26.58	1948.17	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 11	1974.75	27.45	1947.30	7.2	3.4	50.2	5.2	24.89	NM	266	NS	NS	NS	NS
	Sep 11	1974.75	27.87	1946.88	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 11	1974.75	27.57	1947.18	6.9	3.6	NM	1.6	23.70	2.3	88	0.55	ND	ND	ND
	Mar 12	1974.75	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
*	Jun 12	1975.19	28.05	1947.14	6.8	4.1	250.0	4.0	26.20	2.6	102	0.58	ND	ND	ND
	Sep 12	1975.19	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 12	1975.19	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Mar 13	1975.19	26.27	1948.92	6.9	3.9	NM	1.7	23.49	2.5	140	<0.50	<0.50	<0.50	<0.50
	Jun 13	1975.19	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Sep 13	1975.19	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 13	1975.19	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS

Table A-2: Historical Groundwater Gauging and Analytical Data
Maryland Square Shopping Center

Well ID	Date	Top of Casing Elevation (feet msl)	Depth to Groundwater Level (feet)	Groundwater Elevation (feet msl)	pH	Specific Conductance (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp (ºC)	TDS (g/L)	ORP (mV)	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	Vinyl Chloride (µg/L)
MW-23	May 05	1962.32	13.06	1949.26	7.0	3.6	NM	2.6	24.50	NM	121	1,430	ND	ND	ND
	Dec 05	1962.32	14.05	1948.27	6.7	4.9	NM	2.1	24.90	3.1	320	1,900	ND	ND	ND
	Mar 06	1962.32	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 06	1962.32	15.60	1946.72	NM	3.7	318.0	5.8	23.80	2.3	238	1,500	ND	ND	ND
	Oct 06	1962.32	15.48	1946.84	6.3	3.5	0.0	2.5	24.00	2.2	107	2,000	ND	ND	ND
	Dec 06	1962.32	15.16	1947.16	6.8	4.2	0.0	3.2	24.20	2.7	2	2,100	ND	ND	ND
	Mar 07	1962.32	15.12	1947.20	NM	NM	NM	NM	NM	NM	NM	2.1	ND	ND	ND
	Jun 07	1962.32	16.40	1945.92	7.0	3.5	31.0	4.2	23.50	2.2	301	1,300	ND	ND	ND
	Sep 07	1962.32	16.61	1945.71	6.8	3.3	1.0	3.8	25.80	2.1	204	750	ND	ND	ND
	Dec 07	1962.32	15.80	1946.52	6.3	3.7	0.0	5.5	22.10	2.4	250	1,200	ND	ND	ND
	Mar 08	1962.32	15.18	1947.14	7.0	6.3	0.4	2.2	24.00	4.1	188	1,400	ND	ND	ND
	Jun 08	1962.32	NM	NM	NM	NM	NM	NM	NM	NM	NM	1,100	ND	ND	ND
	Oct 08	1962.29	16.34	1945.95	6.7	3.5	18.3	2.0	23.40	2.3	170	1,300	4.4	ND	ND
	Feb 09	1962.29	15.41	1946.88	6.7	3.4	0.0	1.1	23.00	2.2	82	1,100	ND	ND	ND
	Jun 09	1962.29	16.40	1945.89	7.2	3.6	7.1	0.6	23.80	2.3	124	1,400	4.6	ND	ND
	Sep 09	1962.29	17.30	1944.99	6.6	4.0	24.5	2.0	25.40	2.5	133	1,200	ND	ND	ND
	Nov 09	1962.29	17.31	1944.98	5.9	3.3	51.0	2.0	24.80	2.1	139	880	3.2	ND	ND
	Feb 10	1962.29	17.18	1945.11	6.8	3.4	9.0	1.8	23.70	2.2	135	1,000	3.8	ND	ND
	Jun 10	1962.29	16.93	1945.36	7.0	3.2	3.8	4.2	26.24	NM	NM	900	2.6	ND	ND
	Oct 10	1962.29	17.53	1944.76	5.7	3.4	-0.1	2.2	23.60	2.2	610	1,100	2.6	ND	ND
	Nov 10	1962.29	17.30	1944.99	7.0	3.4	0.1	2.5	22.72	NM	76	970	2.7	ND	ND
	Mar 11	1962.29	16.30	1945.99	6.9	3.6	2.9	1.9	23.42	NM	202	1,100	2.5	ND	ND
	Jun 11	1962.29	17.22	1945.07	NM	NM	NM	NM	NM	NM	NM	970	2.3	ND	ND
	Sep 11	1962.29	17.67	1944.62	6.9	3.5	8.0	3.0	24.50	2.2	229	1,000	2.4	ND	ND
	Nov 11	1962.29	17.41	1944.88	7.0	3.3	NM	2.3	23.58	2.1	170	1,100	2.4	ND	ND
	Mar 12	1962.29	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
*	Jun 12	1962.45	17.83	1944.62	7.3	3.2	5.1	5.8	24.66	2.1	114	950	2.3	ND	ND
	Sep 12	1962.45	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 12	1962.45	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Mar 13	1962.45	15.95	1946.50	7.0	3.6	NM	1.4	23.52	2.4	107	960	2.2	<0.50	<0.50
	Jun 13	1962.45	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Sep 13	1962.45	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 13	1962.45	17.57	1944.88	6.7	3.7	5.1	2.1	24.32	2.4	152	900	1.8	<0.50	<0.50

Table A-2: Historical Groundwater Gauging and Analytical Data
Maryland Square Shopping Center

Well ID	Date	Top of Casing Elevation (feet msl)	Depth to Groundwater Level (feet)	Groundwater Elevation (feet msl)	pH	Specific Conductance (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp (ºC)	TDS (g/L)	ORP (mV)	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	Vinyl Chloride (µg/L)
MW-24	May 05	1960.74	10.72	1950.02	7.0	3.6	>999	1.5	23.10	NM	76	ND	ND	ND	ND
	Sep 05	1960.74	11.75	1948.99	7.0	3.8	25.0	3.6	25.80	2.4	5	4.3	ND	ND	ND
	Dec 05	1960.74	11.65	1949.09	6.6	4.5	29.0	1.0	25.60	2.7	183	6.7	ND	ND	ND
	Mar 06	1960.74	12.10	1948.64	4.7	6.0	1.0	NM	22.60	3.8	503	6.5	ND	ND	ND
	Jun 06	1960.74	13.16	1947.58	NM	3.4	201.0	5.1	25.10	2.2	132	5.6	ND	ND	ND
	Oct 06	1960.74	13.06	1947.68	6.2	3.2	0.0	1.2	25.50	2.0	-23	2.6	ND	ND	ND
	Dec 06	1960.74	12.80	1947.94	6.9	4.1	0.0	2.6	25.10	2.6	62	2.6	ND	ND	ND
	Mar 07	1960.74	12.88	1947.86	NM	NM	NM	NM	NM	NM	NM	1	ND	ND	ND
	Jun 07	1960.74	13.94	1946.80	7.1	3.3	23.0	2.5	23.20	2.1	409	ND	ND	ND	ND
	Sep 07	1960.74	14.24	1946.50	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Dec 07	1960.74	13.58	1947.16	6.2	3.5	0.0	1.7	24.40	2.2	118	NS	NS	NS	NS
	Mar 08	1960.74	12.98	1947.76	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 08	1960.74	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Oct 08	1960.73	14.03	1946.70	6.8	3.4	-2.3	1.1	25.20	2.1	152	6.1	ND	ND	ND
	Feb 09	1960.73	13.20	1947.53	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 09	1960.73	14.10	1946.63	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Sep 09	1960.73	14.93	1945.80	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 09	1960.73	14.99	1945.74	5.9	3.1	45.0	1.4	26.50	1.9	130	2.9	ND	ND	ND
	Feb 10	1960.73	14.23	1946.50	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 10	1960.73	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Oct 10	1960.73	15.16	1945.57	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 10	1960.73	14.90	1945.83	7.0	3.2	-0.8	1.4	25.24	NM	68	0.81	ND	ND	ND
	Mar 11	1960.73	14.06	1946.67	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 11	1960.73	14.89	1945.84	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Sep 11	1960.73	15.31	1945.42	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 11	1960.73	15.12	1945.61	7.0	3.1	NM	1.3	24.98	2.0	149	0.95	ND	ND	ND
	Mar 12	1960.73	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
*	Jun 12	1960.82	15.49	1945.33	6.9	3.4	110.0	1.8	25.00	2.2	94	1.3	ND	ND	ND
	Sep 12	1960.82	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 12	1960.82	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Mar 13	1960.82	13.62	1947.20	7.1	3.6	NM	1.8	22.77	2.3	62	1.3	<0.50	<0.50	<0.50
	Jun 13	1960.82	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Sep 13	1960.82	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 13	1960.82	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS

Table A-2: Historical Groundwater Gauging and Analytical Data
Maryland Square Shopping Center

Well ID	Date	Top of Casing Elevation (feet msl)	Depth to Groundwater Level (feet)	Groundwater Elevation (feet msl)	pH	Specific Conductance (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp (ºC)	TDS (g/L)	ORP (mV)	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	Vinyl Chloride (µg/L)
MW-25	May 05	1960.74	16.01	1944.73	7.0	4.0	>999	4.3	23.60	NM	141	993	ND	ND	ND
	Sep 05	1960.74	17.45	1943.29	7.0	4.2	30.0	5.1	26.20	2.7	57	920	ND	ND	ND
	Dec 05	1960.74	16.85	1943.89	6.6	5.3	0.0	1.4	24.70	3.3	417	1,000	ND	ND	ND
	Mar 06	1960.74	17.30	1943.44	5.2	6.7	94.0	NM	23.60	4.2	255	970	ND	ND	ND
	Jun 06	1960.74	18.64	1942.10	NM	3.9	228.0	5.7	23.50	2.5	376	960	ND	ND	ND
	Oct 06	1960.74	18.75	1941.99	6.2	3.7	0.0	3.1	23.60	2.4	106	1,300	ND	ND	ND
	Dec 06	1960.74	18.61	1942.13	6.7	4.5	0.0	3.8	23.90	2.8	429	1,200	ND	ND	ND
	Mar 07	1960.74	17.72	1943.02	7.0	3.7	>999	7.5	23.30	2.4	258	670	ND	ND	ND
	Jun 07	1960.74	19.31	1941.43	7.0	3.7	50.0	4.5	23.00	2.4	485	960	ND	ND	ND
	Sep 07	1960.74	19.96	1940.78	6.7	3.5	15.0	3.6	27.00	2.3	195	560	ND	ND	ND
	Dec 07	1960.74	18.92	1941.82	6.3	3.9	0.0	4.8	19.40	2.5	168	780	ND	ND	ND
	Mar 08	1960.74	17.87	1942.87	6.9	3.7	11.9	2.5	24.40	2.3	170	890	ND	ND	ND
	Jun 08	1960.74	NM	NM	NM	NM	NM	NM	NM	NM	NM	630	ND	ND	ND
	Oct 08	1960.73	19.84	1940.89	6.8	3.7	30.2	2.3	23.50	2.4	-94	730	1.5	ND	ND
	Feb 09	1960.73	18.07	1942.66	6.7	3.5	0.0	2.1	23.70	2.3	66	770	ND	ND	ND
	Jun 09	1960.73	19.35	1941.38	7.2	3.7	6.9	1.2	24.10	2.4	127	880	2.0	ND	ND
	Sep 09	1960.73	18.60	1942.13	6.5	4.2	14.2	2.5	25.90	2.7	136	770	ND	ND	ND
	Nov 09	1960.73	20.65	1940.08	5.8	3.5	66.0	2.2	24.70	2.2	140	570	1.3	ND	ND
	Feb 10	1960.73	19.81	1940.92	6.8	3.5	9.0	2.2	22.50	2.2	122	460	2.3	ND	ND
	Jun 10	1960.73	19.85	1940.88	7.0	3.3	-0.1	5.5	26.26	NM	NM	550	0.9	ND	ND
	Oct 10	1960.73	20.85	1939.88	5.9	3.5	-0.7	2.4	24.21	2.3	603	760	0.9	ND	ND
	Nov 10	1960.73	20.62	1940.11	6.7	3.5	0.5	2.8	25.16	NM	182	550	0.9	ND	ND
	Mar 11	1960.73	18.97	1941.76	7.0	3.4	0.0	4.1	20.24	NM	115	420	0.6	ND	ND
	Jun 11	1960.73	19.83	1940.90	7.3	3.6	-1.2	2.4	24.31	NM	216	700	0.8	ND	ND
	Sep 11	1960.73	20.83	1939.90	6.9	3.7	4.0	2.9	24.00	2.3	257	680	0.8	ND	ND
	Nov 11	1960.73	20.62	1940.11	7.0	3.4	NM	2.3	23.26	2.2	166	740	0.82	ND	ND
	Mar 12	1960.73	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
*	Jun 12	1959.29	21.06	1938.23	6.8	3.9	56.0	2.9	25.20	2.5	89	640	0.88	ND	ND
	Sep 12	1959.29	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 12	1959.29	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Mar 13	1959.29	18.75	1940.54	7.0	3.8	NM	2.3	23.84	2.5	127	660	0.75	<0.50	<0.50
	Jun 13	1959.29	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Sep 13	1959.29	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 13	1959.29	20.87	1938.42	6.2	3.9	6.5	1.4	24.38	2.5	114	700	0.88	<0.50	<0.50

Table A-2: Historical Groundwater Gauging and Analytical Data
Maryland Square Shopping Center

Well ID	Date	Top of Casing Elevation (feet msl)	Depth to Groundwater Level (feet)	Groundwater Elevation (feet msl)	pH	Specific Conductance (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp (ºC)	TDS (g/L)	ORP (mV)	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	Vinyl Chloride (µg/L)
MW-26	Mar 06	1953.48	15.60	1937.88	6.8	3.8	0.0	2.6	23.80	2.4	158	730	ND	ND	ND
	Jun 06	1953.48	17.00	1936.48	NM	2.3	229.0	4.8	24.10	1.5	305	770	ND	ND	ND
	Oct 06	1953.48	17.17	1936.31	6.2	69.4	0.0	2.9	23.70	2.4	180	1,100	ND	ND	ND
	Dec 06	1953.48	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Mar 07	1953.48	15.66	1937.82	7.0	3.8	>999	7.1	23.50	2.4	422	790	ND	ND	ND
	Jun 07	1953.48	17.50	1935.98	7.0	3.5	41.0	4.8	23.60	2.5	517	960	ND	ND	ND
	Sep 07	1953.48	18.12	1935.36	6.7	3.6	5.0	3.5	27.10	2.3	176	620	ND	ND	ND
	Dec 07	1953.48	17.01	1936.47	6.4	4.0	0.0	5.1	21.70	2.5	212	910	ND	ND	ND
	Mar 08	1953.48	15.91	1937.57	7.0	3.8	0.7	7.9	24.30	2.4	176	1,100	ND	ND	ND
	Jun 08	1953.48	NM	NM	NM	NM	NM	NM	NM	NM	NM	930	ND	ND	ND
	Oct 08	1953.48	18.34	1935.14	6.8	3.9	-7.2	2.7	24.00	2.5	86	900	1.4	ND	ND
	Feb 09	1953.48	16.04	1937.44	6.7	3.7	0.0	3.3	23.90	2.3	82	960	ND	ND	ND
	Jun 09	1953.48	17.57	1935.91	7.2	3.8	49.3	2.2	25.40	2.5	133	970	1.5	ND	ND
	Sep 09	1953.48	18.79	1934.69	6.6	4.3	10.5	2.8	26.40	2.8	137	910	ND	ND	ND
	Nov 09	1953.48	18.85	1934.63	5.8	3.6	210.0	2.8	24.30	2.3	139	690	ND	ND	ND
	Feb 10	1953.48	17.61	1935.87	6.9	3.6	7.0	2.5	22.60	2.3	143	790	1.8	ND	ND
	Jun 10	1953.48	17.95	1935.53	7.0	2.4	0.2	6.6	26.14	NM	NM	680	0.7	ND	ND
	Oct 10	1953.48	19.09	1934.39	6.8	3.7	-0.8	2.0	24.60	2.4	504	450	0.6	ND	ND
	Nov 10	1953.48	18.75	1934.73	6.9	3.7	0.6	2.6	24.91	NM	92	750	0.7	ND	ND
	Mar 11	1953.48	18.83	1934.65	6.9	3.8	0.0	2.7	23.78	NM	141	760	0.6	ND	ND
	Jun 11	1953.48	17.82	1935.66	6.7	3.7	-1.2	2.0	25.86	NM	475	860	0.67	ND	ND
	Sep 11	1953.48	19.04	1934.44	6.9	3.8	7.0	2.9	24.40	2.4	260	780	0.6	ND	ND
	Nov 11	1953.48	18.72	1934.76	7.0	3.6	NM	2.1	23.33	2.3	161	690	0.61	ND	ND
	Mar 12	1953.48	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
*	Jun 12	1953.45	19.24	1934.21	6.8	4.1	72.0	2.8	26.00	2.6	85	740	0.54	ND	ND
	Sep 12	1953.45	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 12	1953.45	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Mar 13	1953.45	16.81	1936.64	7.0	3.8	NM	2.7	24.35	2.6	118	740	0.51	<0.50	<0.50
	Jun 13	1953.45	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Sep 13	1953.45	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 13	1953.45	19.02	1934.43	6.4	4.0	7.0	2.4	24.59	2.6	138	770	0.62	<0.50	<0.50

Table A-2: Historical Groundwater Gauging and Analytical Data
Maryland Square Shopping Center

Well ID	Date	Top of Casing Elevation (feet msl)	Depth to Groundwater Level (feet)	Groundwater Elevation (feet msl)	pH	Specific Conductance (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp (ºC)	TDS (g/L)	ORP (mV)	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	Vinyl Chloride (µg/L)
MW-27	Mar 06	1944.23	13.48	1930.75	6.8	3.3	0.0	2.4	21.90	2.1	142	220	ND	ND	ND
	Jun 06	1944.23	18.50	1925.73	NM	3.7	626.0	4.6	26.10	2.3	69	350	ND	ND	ND
	Oct 06	1944.23	16.16	1928.07	6.2	3.3	0.0	2.8	22.20	2.1	155	380	ND	ND	ND
	Dec 06	1944.23	13.85	1930.38	6.8	4.0	507.0	4.5	22.20	2.6	444	380	ND	ND	ND
	Mar 07	1944.23	12.58	1931.65	7.0	3.3	83.0	7.0	21.90	2.1	181	160	ND	ND	ND
	Jun 07	1944.23	18.43	1925.80	7.0	3.3	238.0	4.1	22.20	2.1	392	340	ND	ND	ND
	Sep 07	1944.23	17.85	1926.38	6.8	3.4	22.0	3.4	24.20	2.2	198	320	ND	ND	ND
	Dec 07	1944.23	14.41	1929.82	6.4	3.8	0.0	3.5	20.60	2.5	153	430	ND	ND	ND
	Mar 08	1944.23	13.65	1930.58	7.0	3.4	1.4	2.5	22.60	2.2	174	580	ND	ND	ND
	Jun 08	1944.23	NM	NM	NM	NM	NM	NM	NM	NM	NM	320	ND	ND	ND
	Oct 08	1944.23	18.33	1925.90	6.5	3.8	25.2	1.1	22.59	2.4	105	510	2.6	ND	ND
	Feb 09	1944.23	13.22	1931.01	6.6	3.6	0.0	0.7	21.90	2.3	108	510	ND	ND	ND
	Jun 09	1944.23	18.39	1925.84	7.1	3.9	0.0	0.5	24.10	2.5	128	570	3.3	ND	ND
	Sep 09	1944.23	19.73	1924.50	6.6	4.3	-6.7	0.9	24.20	2.7	131	640	ND	ND	ND
	Nov 09	1944.23	18.92	1925.31	NM	NM	NM	NM	NM	NM	NM	400	2.0	ND	ND
	Feb 10	1944.23	13.00	1931.23	NM	NM	NM	NM	NM	NM	NM	770	3.5	ND	ND
	Jun 10	1944.23	17.77	1926.46	7.1	3.4	10.2	6.8	24.66	NM	NM	330	1.4	ND	ND
	Oct 10	1944.23	18.87	1925.36	6.9	3.6	0.4	1.4	22.95	2.4	434	420	1.4	ND	ND
	Nov 10	1944.23	17.19	1927.04	6.8	3.7	2.9	1.5	23.57	NM	115	480	1.8	ND	ND
	Mar 11	1944.23	12.99	1931.24	7.0	3.7	259.3	6.7	21.37	NM	108	370	1.2	ND	ND
	Jun 11	1944.23	16.68	1927.55	7.3	3.7	-1.4	1.6	23.61	NM	180	440	1.3	ND	ND
	Sep 11	1944.23	20.23	1924.00	6.8	3.8	10.0	2.2	23.60	2.4	237	470	1.3	ND	ND
	Nov 11	1944.23	17.32	1926.91	7.0	3.5	NM	2.1	22.62	2.3	164	380	1.3	ND	ND
	Mar 12	1944.23	16.22	1928.01	7.2	3.6	5.9	2.5	23.10	2.4	-58	470	NS	NS	NS
*	Jun 12	1944.15	14.46	1929.69	6.8	3.9	230.0	2.9	23.80	2.4	108	440	0.97	ND	ND
	Sep 12	1944.15	18.54	1925.61	7.3	3.6	NM	2.1	23.06	2.3	152	430	1.2	ND	ND
	Nov 12	1944.15	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Mar 13	1944.15	15.33	1928.82	7.0	4.0	NM	1.8	23.16	2.6	100	450	1.0	<0.50	<0.50
	Jun 13	1944.15	20.37	1923.78	7.0	4.0	NM	2.1	25.31	2.6	95	300	1.1	<0.50	<0.50
	Sep 13	1944.15	19.67	1924.48	7.2	2.0	NM	2.4	27.75	1.3	88	350	0.79	<0.50	<0.50
	Nov 13	1944.15	17.49	1926.66	7.2	4.0	7.2	1.7	24.27	2.6	120	420	0.94	<0.50	<0.50

Table A-2: Historical Groundwater Gauging and Analytical Data
Maryland Square Shopping Center

Well ID	Date	Top of Casing Elevation (feet msl)	Depth to Groundwater Level (feet)	Groundwater Elevation (feet msl)	pH	Specific Conductance (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp (ºC)	TDS (g/L)	ORP (mV)	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	Vinyl Chloride (µg/L)
MW-28	Nov 07	1942.97	14.02	1928.95	6.8	4.2	196.0	9.6	26.80	2.7	125	3	ND	ND	ND
	Dec 07	1942.97	12.80	1930.17	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Mar 08	1942.97	11.61	1931.36	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 08	1942.97	NM	NM	NM	NM	NM	NM	NM	NM	NM	1	ND	ND	ND
	Oct 08	1942.96	14.60	1928.36	6.8	4.2	165.0	0.6	22.80	2.7	82	2.2	ND	ND	ND
	Feb 09	1942.96	11.66	1931.30	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 09	1942.96	13.91	1929.05	7.2	4.2	63.8	0.0	23.50	2.7	119	3.3	ND	ND	ND
	Sep 09	1942.96	14.96	1928.00	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 09	1942.96	14.83	1928.13	6.0	3.8	180.0	1.1	23.20	2.5	136	1.3	ND	ND	ND
	Feb 10	1942.96	12.78	1930.18	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 10	1942.96	13.91	1929.05	7.0	3.7	3.7	3.3	23.89	NM	NM	0.94	ND	ND	ND
	Oct 10	1942.96	14.93	1928.03	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 10	1942.96	14.31	1928.65	6.7	3.9	0.6	0.9	24.25	NM	162	0.66	ND	ND	ND
	Mar 11	1942.96	12.10	1930.86	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 11	1942.96	13.50	1929.46	7.0	4.0	2.4	0.7	23.71	NM	185	ND	ND	ND	ND
	Sep 11	1942.96	14.93	1928.03	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 11	1942.96	14.42	1928.54	7.0	3.7	NM	1.0	22.10	2.4	157	0.62	ND	ND	ND
	Mar 12	1942.96	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
*	Jun 12	1943.07	15.30	1927.77	6.8	4.1	32.0	1.1	22.70	2.6	133	0.73	ND	ND	ND
	Sep 12	1943.07	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 12	1943.07	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Mar 13	1943.07	12.50	1930.57	7.0	4.1	NM	1.9	24.06	2.7	70	0.50	<0.50	<0.50	<0.50
	Jun 13	1943.07	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Sep 13	1943.07	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 13	1943.07	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS

Table A-2: Historical Groundwater Gauging and Analytical Data
Maryland Square Shopping Center

Well ID	Date	Top of Casing Elevation (feet msl)	Depth to Groundwater Level (feet)	Groundwater Elevation (feet msl)	pH	Specific Conductance (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp (ºC)	TDS (g/L)	ORP (mV)	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	Vinyl Chloride (µg/L)
MW-29	Nov 07	1932.27	14.20	1918.07	6.9	4.3	15.1	6.0	21.80	2.7	108	2.5	ND	ND	ND
	Dec 07	1932.27	14.01	1918.26	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Mar 08	1932.27	13.77	1918.50	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 08	1932.27	NM	NM	NM	NM	NM	NM	NM	NM	NM	1	ND	ND	ND
	Oct 08	1932.25	14.44	1917.81	6.8	4.0	500.0	3.9	20.00	2.6	122	2.2	ND	ND	ND
	Feb 09	1932.25	13.81	1918.44	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 09	1932.25	13.98	1918.27	7.2	4.0	212.0	3.3	20.50	2.6	133	1.3	ND	ND	ND
	Sep 09	1932.25	14.38	1917.87	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 09	1932.25	14.37	1917.88	6.1	3.8	200.0	3.9	20.80	2.4	139	ND	ND	ND	ND
	Feb 10	1932.25	14.19	1918.06	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 10	1932.25	13.92	1918.33	6.9	3.5	3.8	4.8	23.43	NM	NM	0.58	ND	ND	ND
	Oct 10	1932.25	14.19	1918.06	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 10	1932.25	13.90	1918.35	6.8	3.9	1.5	4.0	21.09	NM	138	ND	ND	ND	ND
	Mar 11	1932.25	13.52	1918.73	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Jun 11	1932.25	13.65	1918.60	6.9	3.9	-1.4	4.1	20.62	NM	232	ND	ND	ND	ND
	Sep 11	1932.25	13.84	1918.41	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 11	1932.25	13.85	1918.40	7.0	3.7	NM	4.0	19.77	2.4	183	ND	ND	ND	ND
	Mar 12	1932.25	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
*	Jun 12	1932.35	13.99	1918.36	6.9	3.8	79.0	5.2	20.30	2.4	133	ND	ND	ND	ND
	Sep 12	1932.35	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 12	1932.35	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Mar 13	1932.35	13.30	1919.05	7.0	4.1	NM	4.4	19.43	2.7	85	<0.50	<0.50	<0.50	<0.50
	Jun 13	1932.35	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Sep 13	1932.35	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 13	1932.35	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS

Table A-2: Historical Groundwater Gauging and Analytical Data
Maryland Square Shopping Center

Well ID	Date	Top of Casing Elevation (feet msl)	Depth to Groundwater Level (feet)	Groundwater Elevation (feet msl)	pH	Specific Conductance (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp (ºC)	TDS (g/L)	ORP (mV)	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	Vinyl Chloride (µg/L)
MW-30	Nov 07	1940.56	20.11	1920.45	6.8	3.7	144.0	3.1	24.20	2.4	135	74	ND	ND	ND
	Dec 07	1940.56	17.12	1923.44	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Mar 08	1940.56	16.32	1924.24	6.9	3.3	7.2	3.7	18.80	2.1	204	86	ND	ND	ND
	Jun 08	1940.56	NM	NM	NM	NM	NM	NM	NM	NM	NM	49	ND	ND	ND
	Oct 08	1940.56	20.91	1919.65	6.7	3.7	221.0	0.9	20.10	2.4	124	100	1.8	ND	ND
	Feb 09	1940.56	16.05	1924.51	6.6	3.3	7.2	3.2	19.60	2.1	97	71	ND	ND	ND
	Jun 09	1940.56	19.88	1920.68	7.1	3.7	34.3	1.2	21.40	2.3	141	110	2.0	ND	ND
	Sep 09	1940.56	21.57	1918.99	6.6	4.2	0.8	2.0	23.40	2.7	127	70	1.1	ND	ND
	Nov 09	1940.56	20.55	1920.01	5.9	3.3	-10.0	2.3	20.40	2.1	167	85	1.4	ND	ND
	Feb 10	1940.56	16.49	1924.07	6.7	3.2	12.0	3.9	19.60	2.1	162	60	ND	ND	ND
	Jun 10	1940.56	18.98	1921.58	6.9	2.9	1.0	5.3	25.04	NM	NM	41	ND	ND	ND
	Oct 10	1940.56	20.63	1919.93	6.0	3.1	0.1	4.2	21.95	2.0	595	62	ND	ND	ND
	Nov 10	1940.56	19.32	1921.24	6.6	3.1	0.7	4.4	22.09	NM	212	54	ND	ND	ND
	Mar 11	1940.56	15.85	1924.71	6.5	3.3	0.0	4.7	19.41	NM	142	50	ND	ND	ND
	Jun 11	1940.56	18.17	1922.39	6.3	3.1	-1.1	4.2	22.48	NM	446	50	ND	ND	ND
	Sep 11	1940.56	21.28	1919.28	7.1	2.9	16.0	7.9	22.20	1.9	237	25	ND	ND	ND
	Nov 11	1940.56	19.47	1921.09	7.0	2.8	NM	4.7	20.48	1.8	182	38	ND	ND	ND
	Mar 12	1940.56	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
*	Jun 12	1940.59	21.42	1919.17	6.9	3.2	210.0	3.7	21.00	2.0	125	84	0.73	ND	ND
	Sep 12	1940.59	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 12	1940.59	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Mar 13	1940.59	17.38	1923.21	6.9	3.3	NM	4.2	19.45	2.1	144	62	<0.50	<0.50	<0.50
	Jun 13	1940.59	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Sep 13	1940.59	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 13	1940.59	19.89	1920.70	6.6	3.3	7.6	3.3	22.07	2.1	141	96	0.58	<0.50	<0.50

Table A-2: Historical Groundwater Gauging and Analytical Data
Maryland Square Shopping Center

Well ID	Date	Top of Casing Elevation (feet msl)	Depth to Groundwater Level (feet)	Groundwater Elevation (feet msl)	pH	Specific Conductance (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp (ºC)	TDS (g/L)	ORP (mV)	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	Vinyl Chloride (µg/L)
MW-31	Mar 08	1937.93	15.23	1922.70	7.0	4.7	125.0	6.0	22.50	2.9	152	49	ND	ND	ND
	Jun 08	1937.93	NM	NM	NM	NM	NM	NM	NM	NM	NM	31	ND	ND	ND
	Oct 08	1937.93	18.94	1918.99	6.7	4.2	265.0	3.6	22.40	2.7	123	39	ND	ND	ND
	Feb 09	1937.93	15.59	1922.34	6.5	4.0	11.0	3.4	21.90	2.6	99	44	ND	ND	ND
	Jun 09	1937.93	17.30	1920.63	7.0	4.3	77.9	4.6	21.10	2.8	137	45	ND	ND	ND
	Sep 09	1937.93	19.08	1918.85	6.6	4.8	45.2	4.9	23.60	3.0	124	38	ND	ND	ND
	Nov 09	1937.93	18.40	1919.53	6.0	4.0	230.0	4.0	22.90	2.5	141	24	ND	ND	ND
	Feb 10	1937.93	16.41	1921.52	6.7	4.0	18.0	3.9	21.10	2.5	148	34	1.2	ND	ND
	Jun 10	1937.93	16.94	1920.99	6.9	3.7	14.8	5.2	23.60	NM	NM	34	ND	ND	ND
	Oct 10	1937.93	18.80	1919.13	5.9	4.0	3.5	3.9	22.86	2.6	582	30	ND	ND	ND
	Nov 10	1937.93	18.33	1919.60	6.5	4.0	10.1	3.9	24.41	NM	225	27	ND	ND	ND
	Mar 11	1937.93	15.70	1922.23	6.9	4.1	22.7	5.0	22.63	NM	145	26	ND	ND	ND
	Jun 11	1937.93	16.76	1921.17	6.2	4.0	9.8	4.2	25.43	NM	480	64	ND	ND	ND
	Sep 11	1937.93	18.73	1919.20	6.8	4.1	9.5	4.8	24.90	2.6	256	57	ND	ND	ND
	Nov 11	1937.93	17.93	1920.00	6.9	3.8	NM	3.9	21.23	2.5	178	58	ND	ND	ND
	Mar 12	1937.93	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
*	Jun 12	1937.66	18.37	1919.29	6.8	4.1	440.0	3.9	23.20	2.6	121	44	0.52	ND	ND
	Sep 12	1937.66	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 12	1937.66	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Mar 13	1937.66	16.27	1921.39	6.9	4.2	NM	2.9	21.34	2.7	139	61	<0.50	<0.50	<0.50
	Jun 13	1937.66	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Sep 13	1937.66	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 13	1937.66	18.55	1919.11	6.4	4.2	12.7	2.4	24.30	2.7	192	54	<0.50	<0.50	<0.50

Table A-2: Historical Groundwater Gauging and Analytical Data
Maryland Square Shopping Center

Well ID	Date	Top of Casing Elevation (feet msl)	Depth to Groundwater Level (feet)	Groundwater Elevation (feet msl)	pH	Specific Conductance (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp (ºC)	TDS (g/L)	ORP (mV)	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	Vinyl Chloride (µg/L)
MW-32	Mar 08	1952.82	17.25	1935.57	7.4	3.6	5.4	2.4	23.30	2.3	136	720	ND	ND	ND
	Jun 08	1952.82	NM	NM	NM	NM	NM	NM	NM	NM	NM	750	ND	ND	ND
	Oct 08	1952.82	19.95	1932.87	6.9	3.8	23.7	1.0	23.80	2.4	-101	990	6.1	ND	ND
	Feb 09	1952.82	17.22	1935.60	6.7	3.6	22.5	1.0	23.40	2.3	75	1,000	7.2	ND	ND
	Jun 09	1952.82	19.14	1933.68	7.1	3.7	32.7	2.7	23.40	2.4	120	1,000	5.3	ND	ND
	Sep 09	1952.82	20.47	1932.35	6.5	4.2	4.1	1.2	25.30	2.7	157	1,000	ND	ND	ND
	Nov 09	1952.82	20.44	1932.38	5.8	3.4	180.0	2.8	24.10	2.2	145	660	3.7	ND	ND
	Feb 10	1952.82	18.81	1934.01	6.8	3.5	16.0	1.6	22.70	2.2	158	830	5.4	ND	ND
	Jun 10	1952.82	19.46	1933.36	7.0	3.2	1.2	6.3	26.41	NM	NM	480	2.6	ND	ND
	Oct 10	1952.82	20.77	1932.05	6.5	3.5	8.2	2.7	24.89	2.3	585	660	2.7	ND	ND
	Nov 10	1952.82	20.40	1932.42	6.6	3.5	1.9	2.4	24.50	NM	244	740	3.3	ND	ND
	Mar 11	1952.82	18.21	1934.61	7.1	3.5	4.3	6.7	23.41	NM	111	610	2.3	ND	ND
	Jun 11	1952.82	19.40	1933.42	6.8	3.5	-1.3	3.4	24.82	NM	424	790	2.3	ND	ND
	Sep 11	1952.82	20.91	1931.91	6.9	3.6	10.0	5.1	24.40	2.3	274	610	1.9	ND	ND
	Nov 11	1952.82	20.24	1932.58	7.0	3.3	NM	3.3	23.32	2.2	161	700	2.7	ND	ND
	Mar 12	1952.82	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
*	Jun 12	1952.90	20.94	1931.96	6.9	3.6	240.0	4.7	25.10	2.3	101	640	2.0	ND	ND
	Sep 12	1952.90	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 12	1952.90	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Mar 13	1952.90	18.43	1934.47	7.0	3.7	NM	3.4	23.98	2.4	114	720	1.8	<0.50	<0.50
	Jun 13	1952.90	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Sep 13	1952.90	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 13	1952.90	20.68	1932.22	6.6	3.7	8.3	2.5	24.57	2.4	124	610	2.0	<0.50	<0.50

Table A-2: Historical Groundwater Gauging and Analytical Data
Maryland Square Shopping Center

Well ID	Date	Top of Casing Elevation (feet msl)	Depth to Groundwater Level (feet)	Groundwater Elevation (feet msl)	pH	Specific Conductance (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp (ºC)	TDS (g/L)	ORP (mV)	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	Vinyl Chloride (µg/L)
MW-33	Mar 08	1950.92	16.02	1934.90	7.0	3.5	82.4	7.6	20.30	2.2	161	2.4	ND	ND	ND
	Jun 08	1950.92	NM	NM	NM	NM	NM	NM	NM	NM	NM	1	ND	ND	ND
	Oct 08	1950.92	18.00	1932.92	6.7	3.8	6.7	1.0	22.20	2.4	85	3.4	ND	ND	ND
	Feb 09	1950.92	16.11	1934.81	6.4	3.7	0.0	0.0	21.30	2.4	120	ND	ND	ND	ND
	Jun 09	1950.92	17.28	1933.64	7.0	4.0	0.0	0.0	21.40	2.5	138	ND	ND	ND	ND
	Sep 09	1950.92	18.93	1931.99	6.6	4.2	2.2	1.2	23.50	2.7	166	3.3	ND	ND	ND
	Nov 09	1950.92	18.78	1932.14	6.0	3.5	200.0	1.7	22.60	2.2	136	1.4	ND	ND	ND
	Feb 10	1950.92	17.28	1933.64	6.7	3.5	0.0	0.7	21.50	2.2	146	ND	ND	ND	ND
	Jun 10	1950.92	17.71	1933.21	6.9	3.4	1.1	2.1	28.96	NM	NM	ND	ND	ND	ND
	Oct 10	1950.92	19.42	1931.50	6.1	3.6	3.7	1.4	23.04	2.3	558	ND	ND	ND	ND
	Nov 10	1950.92	19.25	1931.67	6.6	3.6	1.7	1.6	23.34	NM	217	ND	ND	ND	ND
	Mar 11	1950.92	17.36	1933.56	6.5	3.8	2.8	1.7	21.27	NM	107	ND	ND	ND	ND
	Jun 11	1950.92	18.00	1932.92	7.3	3.8	-1.2	0.8	22.54	NM	74	ND	ND	ND	ND
	Sep 11	1950.92	19.31	1931.61	6.9	3.8	10.0	4.2	23.10	2.4	191	ND	ND	ND	ND
	Nov 11	1950.92	18.72	1932.20	7.0	3.6	NM	2.2	21.62	2.3	181	ND	ND	ND	ND
	Mar 12	1950.92	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
*	Jun 12	1950.98	19.03	1931.95	6.8	4.0	130.0	1.3	22.90	2.5	136	ND	ND	ND	ND
	Sep 12	1950.98	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 12	1950.98	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Mar 13	1950.98	17.25	1933.73	6.9	4.2	NM	1.9	21.50	2.7	134	<0.50	<0.50	<0.50	<0.50
	Jun 13	1950.98	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Sep 13	1950.98	NM	NM	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS
	Nov 13	1950.98	19.40	1931.58	6.9	4.0	7.6	1.4	21.58	2.6	146	<0.50	<0.50	<0.50	<0.50

Table A-2: Historical Groundwater Gauging and Analytical Data
Maryland Square Shopping Center

Well ID	Date	Top of Casing Elevation (feet msl)	Depth to Groundwater Level (feet)	Groundwater Elevation (feet msl)	pH	Specific Conductance (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp (ºC)	TDS (g/L)	ORP (mV)	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	Vinyl Chloride (µg/L)
MW-34	Dec 11	--		--								910	NS	NS	NS
	Jan 12	--		--								1000	NS	NS	NS
	Mar 12	--		--	7.2	3.7	27.4	2.0	22.63	2.4	-47	1000	NS	NS	NS
*	Jun 12	1993.88	17.74	1976.14	7.3	3.4	16.4	2.4	24.19	2.4	89	860	0.97	ND	ND
	Sep 12	1993.88	18.07	1975.81	7.3	3.6	NM	2.1	24.43	2.4	141	730	1.2	ND	ND
	Nov 12	1993.88	17.75	1976.13	8.0	3.7	NM	2.0	24.86	2.4	45	550	1.1	<0.50	<0.50
	Mar 13	1993.88	19.06	1974.82	7.1	4.0	NM	1.6	22.65	2.6	125	550	0.86	<0.50	<0.50
	Jun 13	1993.88	19.32	1974.56	7.3	4.0	NM	1.9	24.03	2.6	63	380	0.90	<0.50	<0.50
	Sep 13	1993.88	19.36	1974.52	7.0	3.8	NM	1.6	25.41	2.5	71	440	0.78	<0.50	<0.50
	Nov 13	1993.88	19.14	1974.74	6.1	3.4	20.0	0.9	23.56	2.3	184	500	0.86	<0.50	<0.50
MW-35	Dec 11	--		--								410	NS	NS	NS
	Jan 12	--		--								630	NS	NS	NS
	Mar 12	--	20.03	--	7.3	3.4	181.0	3.6	23.81	2.2	-21	580	NS	NS	NS
*	Jun 12	1991.37	18.90	1972.47	7.3	3.4	87.1	4.0	24.30	2.2	100	530	ND	ND	ND
	Sep 12	1991.37	18.77	1972.60	7.2	3.4	NM	3.5	23.19	2.2	150	520	ND	ND	ND
	Nov 12	1991.37	18.55	1972.82	8.0	3.4	NM	3.9	24.06	2.2	70	480	<0.50	<0.50	<0.50
	Mar 13	1991.37	19.99	1971.38	7.1	3.7	NM	3.2	23.20	2.4	129	340	<0.50	<0.50	<0.50
	Jun 13	1991.37	20.30	1971.07	7.2	3.8	NM	3.9	24.12	2.5	84	250	<0.50	<0.50	<0.50
	Sep 13	1991.37	20.21	1971.16	7.2	3.6	NM	3.3	25.54	2.3	50	250	<0.50	<0.50	<0.50
	Nov 13	1991.37	19.93	1971.44	6.1	3.8	45.8	1.8	23.47	2.2	184	310	<0.50	<0.50	<0.50

Table A-2: Historical Groundwater Gauging and Analytical Data
Maryland Square Shopping Center

Well ID	Date	Top of Casing Elevation (feet msl)	Depth to Groundwater Level (feet)	Groundwater Elevation (feet msl)	pH	Specific Conductance (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp (ºC)	TDS (g/L)	ORP (mV)	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	Vinyl Chloride (µg/L)
MW-36	Mar 12	1955.30	19.51	1935.79	7.1	3.5	15.8	2.3	23.44	2.3	-62	160	NS	NS	NS
*	Jun 12	1955.30	21.26	1934.04	6.8	3.8	110.0	2.2	25.30	2.5	74	130	ND	ND	ND
	Sep 12	1955.30	21.55	1933.75	7.5	3.4	NM	1.9	25.53	2.2	128	130	ND	ND	ND
	Nov 12	1955.30	20.62	1934.68	7.8	3.5	NM	2.1	22.87	2.7	71	150	<0.50	<0.50	<0.50
	Mar 13	1955.30	19.03	1936.27	6.9	3.8	NM	1.7	23.48	2.5	121	160	0.52	<0.50	<0.50
	Jun 13	1955.30	20.75	1934.55	7.0	3.8	NM	1.8	25.96	2.5	104	110	0.52	<0.50	<0.50
	Sep 13	1955.30	21.48	1933.82	7.0	3.6	NM	1.7	24.72	2.4	131	140	<0.50	<0.50	<0.50
	Nov 13	1955.30	21.22	1934.08	7.4	3.9	9.4	1.9	23.32	2.5	126	130	<0.50	<0.50	<0.50
MW-37	Mar 12	1930.06	18.89	1911.17	7.2	3.7	9.5	5.6	20.42	2.4	-27	36	NS	NS	NS
*	Jun 12	1929.98	19.10	1910.88	6.9	3.8	200.0	6.3	20.80	2.4	128	34	ND	ND	ND
	Sep 12	1929.98	20.05	1909.93	7.4	3.7	NM	5.5	21.79	2.4	144	32	ND	ND	ND
	Nov 12	1929.98	19.66	1910.32	7.9	3.8	NM	5.0	20.46	2.5	97	31	<0.50	<0.50	<0.50
	Mar 13	1929.98	18.83	1911.15	7.0	4.1	NM	4.3	19.76	2.7	139	34	<0.50	<0.50	<0.50
	Jun 13	1929.98	19.33	1910.65	7.0	4.1	NM	4.2	21.58	2.6	114	37	<0.50	<0.50	<0.50
	Sep 13	1929.98	19.80	1910.18	7.0	3.8	NM	4.6	21.66	2.5	215	40	<0.50	<0.50	<0.50
	Nov 13	1929.98	19.79	1910.19	6.5	4.0	7.2	4.2	21.71	2.6	335	33	<0.50	<0.50	<0.50
MW-38	Jun 12	1908.38	15.05	1893.33	6.8	3.9	550.0	5.0	22.00	2.5	124	5.8	ND	ND	ND
	Sep 12	1908.38	14.95	1893.43	7.6	3.8	NM	4.2	24.26	2.5	140	5.7	ND	ND	ND
	Nov 12	1908.38	14.69	1893.69	7.9	3.8	NM	3.6	22.20	2.5	89	5.9	<0.50	<0.50	<0.50
	Mar 13	1908.38	14.48	1893.90	7.0	4.2	NM	3.9	20.46	2.7	138	7.3	<0.50	<0.50	<0.50
	Jun 13	1908.38	15.05	1893.33	7.0	4.1	NM	3.9	23.24	2.7	117	7.8	<0.50	<0.50	<0.50
	Sep 13	1908.38	14.75	1893.63	6.8	3.9	NM	3.8	23.26	2.5	380	6.6	<0.50	<0.50	<0.50
	Nov 13	1908.38	14.97	1893.41	6.5	4.2	19.1	3.3	22.33	2.7	356	7.0	<0.50	<0.50	<0.50
MW-39	Jun 12	1967.55	26.15	1941.40	7.3	3.4	252.0	3.3	25.73	2.2	50	250	0.63	ND	ND
	Sep 12	1967.55	26.10	1941.45	7.4	3.5	NM	1.6	25.75	2.2	132	240	0.83	ND	ND
	Nov 12	1967.55	25.51	1942.04	7.7	3.5	NM	2.2	22.11	2.3	61	270	0.91	<0.50	<0.50
	Mar 13	1967.55	24.20	1943.35	7.0	3.8	NM	1.4	22.63	2.4	137	280	0.83	<0.50	<0.50
	Jun 13	1967.55	25.63	1941.92	7.0	3.8	NM	1.7	26.48	2.5	94	210	0.83	<0.50	<0.50
	Sep 13	1967.55	26.34	1941.21	6.9	3.7	NM	2.0	26.67	2.4	122	250	0.76	<0.50	<0.50
	Nov 13	1967.55	26.01	1941.54	6.7	3.9	133.0	1.4	26.36	2.5	157	260	0.81	<0.50	<0.50

Table A-2: Historical Groundwater Gauging and Analytical Data
Maryland Square Shopping Center

Well ID	Date	Top of Casing Elevation (feet msl)	Depth to Groundwater Level (feet)	Groundwater Elevation (feet msl)	pH	Specific Conductance (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp (ºC)	TDS (g/L)	ORP (mV)	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	Vinyl Chloride (µg/L)
MW-40 CMT-30	Nov 12	NM	25.28	NM	7.9	3.6	NM	2.6	17.93	2.3	-68	340	1.1	<0.50	<0.50
	Mar 13	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	4.7	<0.50	<0.50	<0.50
	Jun 13	1978.49	26.15	1952.34	7.6	3.3	NM	4.7	35.97	2.1	160	10	<0.50	<0.50	<0.50
	Sep 13	1978.49	26.71	1951.78	7.9	2.2	NM	3.0	34.38	1.5	35	2.1	<0.50	<0.50	<0.50
	Nov 13	1978.49	26.35	1952.14	7.6	3.0	9.6	3.0	20.28	1.9	91	1.3	<0.50	<0.50	<0.50
MW-40 CMT-35	Nov 12	NM	25.30	NM	8.1	4.1	NM	1.9	17.84	2.7	-163	260	6.6	<0.50	<0.50
	Mar 13	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	48	3.1	<0.50	<0.50
	Jun 13	NM	26.15	NM	7.3	3.3	NM	5.0	36.39	2.2	127	3.6	<0.50	<0.50	<0.50
	Sep 13	1978.49	26.71	1951.78	7.1	2.4	NM	3.0	33.82	1.3	55	7.9	0.93	<0.50	<0.50
	Nov 13	1978.49	26.20	1952.29	6.5	2.4	4.3	1.7	23.26	1.6	88	12	2.4	<0.50	<0.50
MW-40 CMT-40	Nov 12	NM	25.34	NM	8.1	3.1	NM	2.0	20.43	2.0	-132	320	1.7	<0.50	<0.50
	Mar 13	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	270	1.6	<0.50	<0.50
	Jun 13	NM	26.18	NM	7.5	3.2	NM	3.5	37.72	2.1	135	53	0.73	<0.50	<0.50
	Sep 13	1978.49	26.69	1951.80	7.7	2.0	NM	4.0	37.45	1.3	-39	37	0.73	<0.50	<0.50
	Nov 13	1978.49	26.19	1952.30	6.4	2.3	238.0	3.5	26.72	1.5	38	51	0.64	<0.50	<0.50

Table A-2: Historical Groundwater Gauging and Analytical Data
Maryland Square Shopping Center

Well ID	Date	Top of Casing Elevation (feet msl)	Depth to Groundwater Level (feet)	Groundwater Elevation (feet msl)	pH	Specific Conductance (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp (ºC)	TDS (g/L)	ORP (mV)	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	Vinyl Chloride (µg/L)
MW-40 CMT-45	Nov 12	NM	25.28	NM	8.0	3.3	NM	2.1	20.47	2.1	-159	280	1.9	<0.50	<0.50
	Mar 13	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	310	1.6	<0.50	<0.50
	Jun 13	NM	26.14	NM	7.7	3.1	NM	4.2	29.10	2.0	203	47	<0.50	<0.50	<0.50
	Sep 13	1978.49	26.66	1951.83	7.2	2.2	NM	2.9	38.22	1.2	-90	110	1.3	<0.50	<0.50
	Nov 13	1978.49	26.16	1952.33	6.3	2.6	5.0	3.0	26.60	1.6	82	77	1.1	<0.50	<0.50
MW-40 CMT-50	Nov 12	NM	25.28	NM	8.2	3.4	NM	2.0	19.27	2.2	-175	300	2.5	<0.50	<0.50
	Mar 13	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	280	2.4	<0.50	<0.50
	Jun 13	NM	26.14	NM	7.7	3.2	NM	5.7	29.51	2.1	165	64	<0.50	<0.50	<0.50
	Sep 13	1978.49	26.63	1951.86	7.2	3.4	NM	5.8	29.36	2.3	243	24	<0.50	<0.50	<0.50
	Nov 13	1978.49	26.15	1952.34	6.5	2.5	12.9	1.5	25.67	1.6	29	120	1.8	<0.50	<0.50
MW-40 CMT-55	Nov 12	NM	25.33	NM	8.0	2.9	NM	3.6	20.60	1.9	-55	930	4.0	1.7	<0.50
	Mar 13	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	390	4.1	1.7	<0.50
	Jun 13	NM	26.12	NM	7.5	3.1	NM	4.3	28.93	2.0	178	200	0.57	<0.50	<0.50
	Sep 13	1978.49	26.61	1951.88	7.7	3.2	NM	4.5	31.25	2.4	168	38	1.0	<0.50	<0.50
	Nov 13	1978.49	26.15	1952.34	6.2	2.3	17.2	3.1	26.89	1.4	38	110	0.86	<0.50	<0.50
MW-40 CMT-60	Nov 12	NM	25.38	NM	8.0	3.2	NM	2.6	18.85	2.1	-128	1,400	11	6.3	<0.50
	Mar 13	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	1,200	9.5	6.0	<0.50
	Jun 13	NM	26.16	NM	7.5	3.3	NM	4.9	29.49	2.1	220	1,000	5.9	3.6	<0.50
	Sep 13	1978.49	26.62	1951.87	7.6	3.4	NM	5.0	29.80	2.2	236	20	0.56	<0.50	<0.50
	Nov 13	1978.49	26.16	1952.33	5.9	1.0	619.0	1.7	22.22	0.7	-78	190	3.6	2.5	<0.50

Table A-2: Historical Groundwater Gauging and Analytical Data
Maryland Square Shopping Center

Well ID	Date	Top of Casing Elevation (feet msl)	Depth to Groundwater Level (feet)	Groundwater Elevation (feet msl)	pH	Specific Conductance (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp (ºC)	TDS (g/L)	ORP (mV)	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	Vinyl Chloride (µg/L)
MW-41	Sep 13	1908.89	14.81	1894.08	6.9	3.7	NM	2.7	26.56	2.8	135	1.7	<0.50	<0.50	<0.50
	Nov 13	1908.89	15.05	1893.84	6.7	3.9	239.0	1.1	21.40	2.2	360	2.6	<0.50	<0.50	<0.50
MW-42	Sep 13	1910.31	16.16	1894.15	7.1	4.1	NM	3.0	24.55	2.7	66	0.53	<0.50	<0.50	<0.50
	Nov 13	1910.31	16.32	1893.99	7.0	4.3	29.4	2.1	21.41	2.8	326	0.60	<0.50	<0.50	<0.50
MW-43	Sep 13	1958.33	17.14	1941.19	7.1	3.5	NM	3.1	26.33	2.2	45	<0.50	<0.50	<0.50	<0.50
	Nov 13	1958.33	16.96	1941.37	7.0	3.6	163.0	2.2	22.87	2.3	138	<0.50	<0.50	<0.50	<0.50

Notes:

NM = Not Measured
msl = mean sea level
ND = Non Detect
NS = Not Sampled
µg/L = micrograms per liter
°C = degrees Celsius
g/L = gallons per liter
mg/L = milligrams per liter
mS/cm = milli Siemens per centimeter
mV = milllivolts
NTU = Nephelometric Turbudity Units

*: All wells were resurveyed to determine top of casing elevation

Maryland Square PCE Site

FIGURES

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Shaping the Future

SITE LOCATION

1 inch = 1,000 feet

Note: Scale and location are approximate

SOURCE: Google Earth

SITE VICINITIY MAP

MARYLAND SQUARE SHOPPING CENTER
3661 S. MARYLAND PARKWAY
LAS VEGAS, NEVADA

PROJECT NUMBER: 085.42620.0001	**DATE:** 12/12	**Figure 1**
APPROVED BY: ADS	**DRAWN BY:** ABK	

Cardno ATC Shaping the Future
2925 East Patrick Lane, Suite M
Las Vegas, Nevada 89120-2457
Ph: (702) 798-5750 *** Fax: (702) 798-5742

LEGEND

- MW-1 GROUNDWATER MONITOR WELL
- PW–1 PUMPING WELL
- 1962.16 GROUNDWATER ELEVATION (FEET ABOVE MEAN SEA LEVEL)
- 1950 GROUNDWATER ELEVATION CONTOUR (5 FT. INTERVALS)
- GROUNDWATER FLOW DIRECTION
- NM NOT MEASURED OR NO SURVEY DATA

NOTE: SCALE AND LOCATIONS ARE APPROXIMATE

0 500 1000
SCALE, FT

GROUNDWATER POTENTIOMETRIC MAP
NOVEMBER 04 - NOVEMBER 12, 2013
MARYLAND SQUARE SHOPPING CENTER
3661 S. MARYLAND PARKWAY
LAS VEGAS, NV

PROJECT NUMBER: 85.42620.0001	DATE: 01/20/14	FIGURE
APPROVED BY: AS	DRAWN BY: DHK	2

Cardno ATC 7115 Amigo Street, Suite 100
Las Vegas, Nevada 89119
Ph: (702) 990-9300 *** Fax: (702) 990-9305

115.135° 115.13° 115.125° 115.12° 115.115°

36.125° 36.12°

S. MARYLAND PARKWAY
BOULEVARD MALL
RUBY S. THOMAS ELEMENTARY SCHOOL
COMMANCHE DRIVE
ALGONQUIN DR.
GOLF COURSE
PUEBLO WAY
SOUTH EASTERN AVENUE
EMERSON AVENUE
PACIFIC STREET
SPENCER STREET
MAR COPA WAY
CHEROKEE LN.
SENECA LN.
OTTAWA DRIVE
GERONIMO WAY
TIOGA WAY
E. TWAIN AVENUE
E. KATIE AVENUE
ORR PARK
WILLIAM E. ORR MIDDLE SCHOOL
FLAMINGO WASH

MW-35 310
MW-14 1,500
MW-17 120
MW-7 8.4
MW-15 2.7
MW-6 3,100
MW-13 1,800
MW-12 0.86
MW-34 500
MW-1 270
MW-14I 10,000
MW-20 530
MW-9 11
MW-8 2.2
MW-5 690
MW-3 12
MW-2 720
MW-16 <0.50
MW-11 <0.50
MW-10 <0.50
MW-19 440
MW-19I <0.50
MW-24 1.3
MW-21 8.4
MW-22 <0.50
MW-43 <0.50
MW-33 <0.50
MW-39 260
MW-18 780
MW-23 900
MW-25 700
MW-36 130
MW-32 610
MW-26 770
MW-27 420
PW-1
MW-30 96
MW-31 54
MW-37 33
PW-2
MW-41 2.6
MW-38 7.0
MW-42 0.60
MW-28 0.61
MW-29 <0.50

MW-40 CMT

DEPTH	PCE
30	1.3
35	12
40	51
45	77
50	120
55	110
60	190

WELL	PCE
MW-20D1	100
MW-20D2	210
MW-20D3	25

WELL	PCE
MW-19D1	620
MW-19D2	<0.50
MW-19D3	160

WELL	PCE
MW-6D1	3.2
MW-6D2	3.3
MW-6D3	3.0

LEGEND

MW-1 GROUNDWATER MONITOR WELL
PW-1 PUMPING WELL
2500 ISOCONTOUR, µg/L
2000 ISOCONTOUR, µg/L
1500 ISOCONTOUR, µg/L
1000 ISOCONTOUR, µg/L
500 ISOCONTOUR, µg/L
100 ISOCONTOUR, µg/L (DASHED WHERE INFERRED
5 ISOCONTOUR, µg/L (DASHED WHERE INFERRED)
540 PCE, µg/L
NS NOT SAMPLED
1,000 March 2013 Data
2,000 June 2013 Data
1,500 November 2013 Data

NOTE: SCALE AND LOCATIONS ARE APPROXIMATE

0 500 1000
SCALE, FT

PCE ISOCONCENTRATION MAP
NOVEMBER 04 - NOVEMBER 12, 2013
MARYLAND SQUARE SHOPPING CENTER
3661 S. MARYLAND PARKWAY
LAS VEGAS, NV

PROJECT NUMBER: 85.42620.0001		DATE: 01/07/14	FIGURE
APPROVED BY: AS		DRAWN BY: ABK	3

Cardno ATC
7115 Amigo Street, Suite 100
Las Vegas, Nevada 89119
Ph: (702) 990-9300 *** Fax: (702) 990-9305

Maryland Square PCE Site

APPENDIX A
FIELD SHEETS

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GROUNDWATER COLLECTION LOG

CARDNO ATC
7115 AMIGO STREET, SUITE 100
LAS VEGAS, NEVADA 89119
(702) 990-9300 (702) 990-9305 fax

1337

Project Name: Maryland Square
Project Number: 085.42620.0001
Sampler's Name: DK

Well ID: MW-1
Sample ID: MW-1
Date: 11/4

Purging Equipment: Low Flow Bladder Pump
Sampling Equipment: Low Flow Bladder Pump

Casing Type: PVC
Casing Diameter: 2 inch
Depth to Well Bottom: 25.91 feet 3Q13: 25.96
Depth to Water: 20.31 feet 3Q13: 20.52
Constructed Screen Interval 10 feet to 30 feet
Approximate Pump Depth 23.5 Feet bgs 23 Feet btoc

2" = 0.16 gal/lin ft.
3" = 0.37 gal/lin ft.
4" = 0.67 gal/lin ft.

Comments:

Purged (gal.)	Time	Temp. (°C)	Conductance (mS/cm)	TDS (g/L)	DO (mg/L)	pH (SU)	ORP (mV)	Water Description: Color, Turbidity, Sheen, Etc.
0.25	1346	25.34	3.461	2.235	0.31	5.98	172.3	Clear, No odor
0.50	1351	25.54	3.485	2.242	0.22	5.97	166.8	clear, no odor T:12
0.75	1356	25.54	3.484	2.242	0.28	5.96	166.4	Clear, No odor
1.0	1401	25.52	3.486	2.241	0.30	5.97	166.1	Clear, no odor T: 5.43
1.25	1406	25.51	3.484	2.240	0.31	5.97	165.9	Clear, No odor T: 2.88

Total Water Volume Purged: 1.25 Gallons = N/A Well Volumes
Purged Dry (Y/N): N
Comments:

Well Security:
Locking cap? X yes ___ no Replaced? ___ yes X no 2.6 PID
Bolts secured? X yes ___ no Replaced? ___ yes X no N/A Vacuum
Surface Seal? X yes ___ no Replaced? ___ yes X no 1408 Sample Collection Time

Cardno ATC

GROUNDWATER COLLECTION LOG

CARDNO ATC
7115 AMIGO STREET, SUITE 100
LAS VEGAS, NEVADA 89119
(702) 990-9300 (702) 990-9305 fax

Project Name: Maryland Square
Project Number: 085.42620.0001
Sampler's Name: [illegible]

Well ID: MW-2
Sample ID: MW-2
Date: 11/5/13

Purging Equipment: Low Flow Bladder Pump
Sampling Equipment: Low Flow Bladder Pump

Casing Type: PVC
Casing Diameter: 2 inch
Depth to Well Bottom: 29.42 feet 1Q13: 29.49
Depth to Water: 19.27 feet 1Q13: 19.29
Constructed Screen Interval 10 feet to 32 feet
Approximate Pump Depth 24.5 Feet bgs 24.0 Feet btoc

2" = 0.16 gal/lin ft.
3" = 0.37 gal/lin ft.
4" = 0.67 gal/lin ft.

Comments: Water in well vault

Purged (gal.)	Time	Temp. (°C)	Conductance (mS/cm)	TDS (g/L)	DO (mg/L)	pH (SU)	ORP (mV)	Water Description: Color, Turbidity, Sheen, Etc.
.25	830	24.19	3.671	2.386	2.18	7.32	75.1	[illegible] Color, T 77.7
.5	835	24.32	3.663	2.380	1.95	7.29	55.2	[illegible], No odor, T 47.7
.75	840	24.30	3.664	2.380	1.97	7.29	82.7	" " , T 38.5
1.0	845	24.28	3.663	2.380	1.97	7.28	83.2	" " , T 36.9

Total Water Volume Purged: 1.0 Gallons = N/A Well Volumes
Purged Dry (Y/N):
Comments: ~~N/A~~ Verified & Tighten when closing well vault

Well Security:
Locking cap? x yes ___ no Replaced? ___ yes – no
Bolts secured? x yes ___ no Replaced? ___ yes x no
Surface Seal? x yes ___ no Replaced? ___ yes x no

0.0 PID
— Vacuum
847 Sample Collection Time

GROUNDWATER COLLECTION LOG

CARDNO ATC
7115 AMIGO STREET, SUITE 100
LAS VEGAS, NEVADA 89119
(702) 990-9300 (702) 990-9305 fax

924

Project Name: Maryland Square
Project Number: 085.42620.0001
Sampler's Name: NDP

Well ID: MW-5
Sample ID: MW-5
Date: 11/5

Purging Equipment: Low Flow Bladder Pump
Sampling Equipment: Low Flow Bladder Pump

Casing Type: PVC
Casing Diameter: 2 inch
Depth to Well Bottom: 219.04 feet — 2Q13: 29.15
Depth to Water: 198.2 feet — 3Q13: 19.60
Constructed Screen Interval: 10 feet to 32 feet
Approximate Pump Depth: 24.5 Feet bgs — 24 Feet btoc

2" = 0.16 gal/lin ft.
3" = 0.37 gal/lin ft.
4" = 0.67 gal/lin ft.

Comments: N/A

Purged (gal.)	Time	Temp. (°C)	Conductance (mS/cm)	TDS (g/L)	DO (mg/L)	pH (SU)	ORP (mV)	Water Description: Color, Turbidity, Sheen, Etc.
.25	935	25.05	3.588	2.333	4.17	7.89	113.7	Clear, No Odor, T 26.8 NTU
.5	940	25.47	3.584	2.330	4.10	7.85	91.5	" , " , T 16.3 NTU
.75	945	25.52	3.585	2.331	4.10	7.85	90.7	" , " , T 10.67 NTU
1.0	950	25.37	3.585	2.330	4.12	7.84	89.9	" , " , T 9.72

Total Water Volume Purged: 1.0 Gallons = N/A Well Volumes
Purged Dry (Y/N): N
Comments: N/A

Well Security:
Locking cap? Y yes ___ no — Replaced? ___ yes X no
Bolts secured? Y yes ___ no — Replaced? ___ yes X no
Surface Seal? Y yes ___ no — Replaced? ___ yes X no

0.0 PID
___ Vacuum
953 Sample Collection Time

Cardno ATC
Shaping the Future

GROUNDWATER COLLECTION LOG

1107

CARDNO ATC
7115 AMIGO STREET, SUITE 100
LAS VEGAS, NEVADA 89119
(702) 990-9300 (702) 990-9305 fax

Project Name: Maryland Square
Project Number: 085.42620.0001
Sampler's Name: MM

Well ID: MW-6
Sample ID: MW-6
Date: 11/5/13

Purging Equipment: Low Flow Bladder Pump
Sampling Equipment: Low Flow Bladder Pump

Casing Type: PVC
Casing Diameter: 2 inch
Depth to Well Bottom: 29.10 feet 2Q13: 29.07
Depth to Water: 20.14 feet 3Q13: 20.25
Constructed Screen Interval 10 feet to 32 feet
Approximate Pump Depth 25.0 Feet bgs 24.5 Feet btoc

2" = 0.16 gal/lin ft.
3" = 0.37 gal/lin ft.
4" = 0.67 gal/lin ft.

Comments: Bottom soft when taking TD, silt at bottom

Purged (gal.)	Time	Temp. (°C)	Conductance (mS/cm)	TDS (g/L)	DO (mg/L)	pH (SU)	ORP (mV)	Water Description: Color, Turbidity, Sheen, Etc.
.25	1113	24.34	3.439	2.237	3.20	7.96	118.1	Cloudy, No Odor, T18.4 cm
.5	1118	25.26	3.453	2.349	3.19	7.93	97.8	" , " , T16.5 cm
.75	1123	25.23	3.451	2.347	3.15	7.82	94.1	" , " , T16.5 cm
1.0	1128	25.27	3.451	2.348	3.13	7.82	87.4	" , " , T16.1 cm

Total Water Volume Purged: 1.0 Gallons = N/A Well Volumes
Purged Dry (Y/N): No
Comments: MM

Well Security:
Locking cap? X yes ___ no Replaced? ___ yes X no
Bolts secured? X yes ___ no Replaced? ___ yes X no
Surface Seal? X yes ___ no Replaced? ___ yes X no

4.1 PID
— Vacuum
1031 Sample Collection Time

8391

GROUNDWATER COLLECTION LOG

CARDNO ATC
7115 AMIGO STREET, SUITE 100
LAS VEGAS, NEVADA 89119
(702) 990-9300 (702) 990-9305 fax

Project Name: Maryland Square
Project Number: 085.42620.0001
Sampler's Name: NBA

Well ID: MW-6D1
Sample ID: MW-6D1
Date: 11/7/13

Purging Equipment: Low Flow Bladder Pump
Sampling Equipment: Low Flow Bladder Pump

Casing Type: PVC
Casing Diameter: 2 inch
Depth to Well Bottom: 59.73 feet 2Q13: 59.74
Depth to Water: 19.24 feet 3Q13: 21.40
Constructed Screen Interval 50 feet to 60 feet
Approximate Pump Depth 55.5 Feet bgs 55 Feet btoc

2" = 0.16 gal/lin ft.
3" = 0.37 gal/lin ft.
4" = 0.67 gal/lin ft.

Comments: N/A

Purged (gal.)	Time	Temp. (°C)	Conductance (mS/cm)	TDS (g/L)	DO (mg/L)	pH (SU)	ORP (mV)	Water Description: Color, Turbidity, Sheen, Etc.
.25	953	22.78	0.651	0.423	5.19	6.85	132.3	sl/turbid, Nodor, T 190 NTU
.5	958	23.76	0.647	0.420	5.03	6.92	85.3	" , " , 67.4 NTU
.75	1003	23.79	0.647	0.420	5.05	6.91	87.4	" , " , 51.7 NTU
1.0	1008	23.81	0.647	0.421	5.03	6.92	84.4	" , " , 49.3 NTU

Total Water Volume Purged: 1.0 Gallons = N/A Well Volumes
Purged Dry (Y/N): N
Comments: N/A

Well Security:
Locking cap? Y yes ____ no — Replaced? ____ yes X no
Bolts secured? Y yes ____ no — Replaced? ____ yes Y no
Surface Seal? X yes ____ no — Replaced? ____ yes Y no

0.0 PID
— Vacuum
1012 Sample Collection Time

GROUNDWATER COLLECTION LOG

CARDNO ATC
7115 AMIGO STREET, SUITE 100
LAS VEGAS, NEVADA 89119
(702) 990-9300 (702) 990-9305 fax

Project Name: Maryland Square
Project Number: 085.42620.0001
Sampler's Name: DHK

Well ID: MW-6D2
Sample ID: MW-6D2
Date: 11/7/13

Purging Equipment: Low Flow Bladder Pump
Sampling Equipment: Low Flow Bladder Pump

Casing Type: PVC
Casing Diameter: 2 inch
Depth to Well Bottom: 89.02 feet (1Q13: 89.00)
Depth to Water: 16.94 feet (3Q13: 21.61)
Constructed Screen Interval: 80 feet to 90 feet
Approximate Pump Depth: 85.5 Feet bgs 85 Feet btoc

2" = 0.16 gal/lin ft.
3" = 0.37 gal/lin ft.
4" = 0.67 gal/lin ft.

Comments:

Purged (gal.)	Time	Temp. (°C)	Conductance (mS/cm)	TDS (g/L)	DO (mg/L)	pH (SU)	ORP (mV)	Water Description: Color, Turbidity, Sheen, Etc.
0.25	905	23.36	0.392					
0.25	907	23.31	0.554	0.372	—	7.53	21.3	Sl. turbid, no odor T:38.5
.50	912	23.30	0.552	0.370	—	7.52	24.0	Sl. turbid, No odor
.75	917	23.35	0.552	0.370	—	7.51	23.6	Sl. turbid, no odor T: 22.1
1.0	922	23.22	0.550	0.370	—	7.49	23.8	Sl. turbid, no odor T:18.02

Total Water Volume Purged: 1.0 Gallons = N/A Well Volumes
Purged Dry (Y/N): N
Comments:

Well Security:
Locking cap? Y yes ___ no — Replaced? ___ yes X no — 0.0 PID
Bolts secured? X yes ___ no — Replaced? ___ yes X no — — Vacuum
Surface Seal? X yes ___ no — Replaced? ___ yes X no — 930 Sample Collection Time

Cardno ATC
Shaping the Future

GROUNDWATER COLLECTION LOG

CARDNO ATC
7115 AMIGO STREET, SUITE 100
LAS VEGAS, NEVADA 89119
(702) 990-9300 (702) 990-9305 fax

830

Project Name:	Maryland Square	Well ID:	MW-6D3
Project Number:	085.42620.0001	Sample ID:	MW-6D3
Sampler's Name:	NBA	Date:	11/7/13

Purging Equipment: Low Flow Bladder Pump
Sampling Equipment: Low Flow Bladder Pump

Casing Type: PVC

Casing Diameter:	2	inch			2" = 0.16 gal/lin ft.
Depth to Well Bottom:	110	feet	1Q13:110		3" = 0.37 gal/lin ft.
Depth to Water:	22.16	feet	3Q13:24.89		4" = 0.67 gal/lin ft.
Constructed Screen Interval	100	feet to	110	feet	
Approximate Pump Depth	105.5	Feet bgs	105	Feet btoc	

Comments: N/A

Purged (gal.)	Time	Temp. (°C)	Conductance (mS/cm)	TDS (g/L)	DO (mg/L)	pH (SU)	ORP (mV)	Water Description: Color, Turbidity, Sheen, Etc.
.25	920	23.74	0.528	0.343	5.74	6.92	93.9	Clear, None, None, T 50.4 NTU
.5	925	23.73	0.527	0.343	5.73	6.91	78.1	" ", T 47.6 NTU
.75	930	23.47	0.528	0.343	5.70	6.91	76.8	" ", T 45.7 NTU
1.0	935	23.58	0.527	0.343	5.74	6.90	78.3	" ", T 43.6 NTU

Total Water Volume Purged: 1.0 Gallons = N/A Well Volumes
Purged Dry (Y/N): N
Comments: N/A

Well Security:						
Locking cap?	✓ yes	___ no	Replaced?	___ yes	X no	0.0 PID
Bolts secured?	X yes	___ no	Replaced?	___ yes	X no	— Vacuum
Surface Seal?	X yes	___ no	Replaced?	___ yes	X no	935 Sample Collection Time

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GROUNDWATER COLLECTION LOG

1154

CARDNO ATC
7115 AMIGO STREET, SUITE 100
LAS VEGAS, NEVADA 89119
(702) 990-9300 (702) 990-9305 fax

Project Name: Maryland Square
Project Number: 085.42620.0001
Sampler's Name: DR

Well ID: MW-7
Sample ID: MW-7
Date: 11/4

Purging Equipment: Low Flow Bladder Pump
Sampling Equipment: Low Flow Bladder Pump

Casing Type: PVC
Casing Diameter: 2 inch
Depth to Well Bottom: 29.40 feet
Depth to Water: 18.40 feet 1Q13:18.47
Constructed Screen Interval 10 feet to 30 feet
Approximate Pump Depth 24.5 Feet bgs 24 Feet btoc

2" = 0.16 gal/lin ft.
3" = 0.37 gal/lin ft.
4" = 0.67 gal/lin ft.

Comments:

Purged (gal.)	Time	Temp. (°C)	Conductance (mS/cm)	TDS (g/L)	DO (mg/L)	pH (SU)	ORP (mV)	Water Description: Color, Turbidity, Sheen, Etc.
0.25	1159	25.14	3.299	2.135	2.84	6.14	172.8	Sl. turbid, no odor
0.50	1204	26.22	3.416	2.192	1.84	6.10	164.1	Sl. turbid, no odor
0.75	1209	26.23	3.394	2.153	1.77	6.08	163.7	T:109
1.0	1214	26.35	3.442	2.181	1.63	6.06	164.1	" " T:63
1.25	12:19	26.34	3.425	2.173	1.64	6.06	165.0	" " T:53

Total Water Volume Purged: _____ Gallons = N/A Well Volumes
Purged Dry (Y/N): _____
Comments:

Well Security:
Locking cap? ___ yes X no slipcap Replaced? ___ yes X no 1.3 PID
Bolts secured? X yes ___ no Replaced? ___ yes X no N/A Vacuum
Surface Seal? ___ yes ___ no Replaced? ___ yes X no 1223 Sample Collection Time

GROUNDWATER COLLECTION LOG

CARDNO ATC
7115 AMIGO STREET, SUITE 100
LAS VEGAS, NEVADA 89119
(702) 990-9300 (702) 990-9305 fax

1003

Project Name: Maryland Square
Project Number: 085.42620.0001
Sampler's Name: DK

Well ID: MW-8
Sample ID: MW-8
Date: 11/4

Purging Equipment: Low Flow Bladder Pump
Sampling Equipment: Low Flow Bladder Pump

Casing Type: PVC
Casing Diameter: 2 inch
Depth to Well Bottom: 30.22 feet
Depth to Water: 20.60 feet 1Q13:20.65
Constructed Screen Interval 10 feet to 30 feet
Approximate Pump Depth Feet bgs 25.5 Feet btoc

2" = 0.16 gal/lin ft.
3" = 0.37 gal/lin ft.
4" = 0.67 gal/lin ft.

Comments:

Purged (gal.)	Time	Temp. (°C)	Conductance (mS/cm)	TDS (g/L)	DO (mg/L)	pH (SU)	ORP (mV)	Water Description: Color, Turbidity, Sheen, Etc.
0.25	1014	25.33	3.289	2.060	2.34	6.14	191.0	Sl. Silty, No odor
0.50	1019	26.14	3.240	2.060	2.35	6.13	193.0	Sl. Silty, No odor
0.75	1024	26.12	3.234	2.060	2.33	6.11	193.2	Clear, No odor
1.0	1029	26.10	3.237	2.060	2.30	6.11	193.0	Clear, No odor
1.25	1034	26.10	3.237	2.061	2.33	6.11	193.1	Clear, No odor
1.5	1039	26.10	3.240	2.059	2.35	6.12	193.3	Clear, No odor
1.75	1044	26.12	3.242	2.059	2.34	6.12	193.5	Clear, No odor

Total Water Volume Purged: 1.25 Gallons = N/A Well Volumes
Purged Dry (Y/N): N
Comments:

Well Security: Locking cap? X yes ___ no Replaced? ___ yes X no 0.0 PID
Bolts secured? X yes ___ no Replaced? ___ yes X no N/A Vacuum
Surface Seal? X yes ___ no Replaced? ___ yes X no 1040 Sample Collection Time

TU. 95 NTU

GROUNDWATER COLLECTION LOG

CARDNO ATC
7115 AMIGO STREET, SUITE 100
LAS VEGAS, NEVADA 89119
(702) 990-9300 (702) 990-9305 fax

1102

Project Name: Maryland Square
Project Number: 085.42620.0001
Sampler's Name: DK

Well ID: MW-9
Sample ID: MW-9
Date: 11/4

Purging Equipment: Low Flow Bladder Pump
Sampling Equipment: Low Flow Bladder Pump

Casing Type: PVC
Casing Diameter: 2 inch
Depth to Well Bottom: 50 feet
Depth to Water: 20.53 feet 3Q13:20.69
Constructed Screen Interval 48.5 feet to 50 feet
Approximate Pump Depth 49.5 Feet bgs 69 Feet btoc

2" = 0.16 gal/lin ft.
3" = 0.37 gal/lin ft.
4" = 0.67 gal/lin ft.

Comments:

Purged (gal.)	Time	Temp. (°C)	Conductance (mS/cm)	TDS (g/L)	DO (mg/L)	pH (SU)	ORP (mV)	Water Description: Color, Turbidity, Sheen, Etc.
0.25	1110	25.06	1.265	0.822	0.78	6.66	-21.5	Clear, No odor
0.5	1115	25.29	1.279	0.827	0.49	6.50	55.4	Clear, No odor
.75	1120	25.31	1.282	0.826	0.50	6.40	55.1	Clear, No odor
1.0	1125	25.34	1.283	0.843	0.54	6.41	55.2	Clear, No odor
1.25	1130	25.35	1.285	0.846	0.57	6.41	55.5	Clear, No odor
1.5	1135	25.32	1.284	0.846	0.57	6.42	55.7	Clear, No odor

Total Water Volume Purged: 1.5 Gallons = N/A Well Volumes
Purged Dry (Y/N):
Comments:

Well Security: Locking cap? X yes ____ no Replaced? ____ yes X no
Bolts secured? X yes ____ no Replaced? ____ yes X no
Surface Seal? X yes ____ no Replaced? ____ yes X no

0.0 PID
N/A Vacuum
1137 Sample Collection Time

35.3 NTU

GROUNDWATER COLLECTION LOG

CARDNO ATC
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LAS VEGAS, NEVADA 89119
(702) 990-9300 (702) 990-9305 fax

Project Name: Maryland Square
Project Number: 085.42620.0001
Sampler's Name: DK

Well ID: MW-12
Sample ID: MW-12
Date: 11/4

Purging Equipment: Low Flow Bladder Pump
Sampling Equipment: Low Flow Bladder Pump

Casing Type: PVC
Casing Diameter: 2 inch
Depth to Well Bottom: 33.25 feet
Depth to Water: 16.66 feet 1Q13:16.76
Constructed Screen Interval 13.5 feet to 33.5 feet
Approximate Pump Depth 25.5 Feet bgs 25 Feet btoc

2" = 0.16 gal/lin ft.
3" = 0.37 gal/lin ft.
4" = 0.67 gal/lin ft.

Comments:

Purged (gal.)	Time	Temp. (°C)	Conductance (mS/cm)	TDS (g/L)	DO (mg/L)	pH (SU)	ORP (mV)	Water Description: Color, Turbidity, Sheen, Etc.
0.25	918	23.83	3422	2.268	2.84	6.88	89.5	Clear, No odor
.50	928	24.05	3.353	2.221	1.70	6.17	190.4	Clear, No odor
.75	933	24.58	3.394	2.225	1.13	6.10	188.3	Clear, No odor
1.0	938	24.59	3.395	2.225	1.10	6.10	188.1	Clear, No odor
1.25	943	24.58	3.401	2.225	1.10	6.04	188.8	Clear, No odor
1.5	948	24.57	3.400	2.225	1.10	6.04	188.9	Clear, No odor

Total Water Volume Purged: 1.5 gal Gallons = N/A Well Volumes
Purged Dry (Y/N):
Comments:

Well Security:
Locking cap? X yes ___ no Replaced? ___ yes X no
Bolts secured? X yes ___ no Replaced? ___ yes X no
Surface Seal? X yes ___ no Replaced? ___ yes X no

0.3 PID
N/A Vacuum
950 Sample Collection Time

79 NTU

GROUNDWATER COLLECTION LOG

CARDNO ATC
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LAS VEGAS, NEVADA 89119
(702) 990-9300 (702) 990-9305 fax

453

Project Name: Maryland Square
Project Number: 085.42620.0001
Sampler's Name: NBA

Well ID: MW-13
Sample ID: MW-13
Date: 11/5/13

Purging Equipment: Low Flow Bladder Pump
Sampling Equipment: Low Flow Bladder Pump

Casing Type: PVC
Casing Diameter: 2 inch
Depth to Well Bottom: 25.12 feet
Depth to Water: 18.50 feet 1Q13:18.53
Constructed Screen Interval 9 feet to 29 feet
Approximate Pump Depth 22.5 Feet bgs 22.5 Feet btoc

2" = 0.16 gal/lin ft.
3" = 0.37 gal/lin ft.
4" = 0.67 gal/lin ft.

Comments: S. Horn Soft when taking TD

Purged (gal.)	Time	Temp. (°C)	Conductance (mS/cm)	TDS (g/L)	DO (mg/L)	pH (SU)	ORP (mV)	Water Description: Color, Turbidity, Sheen, Etc.
.25	903	23.15	3.917	2.547	1.24	7.56	122.7	clear, tinge, T 42.3
.5	908	23.79	3.919	2.547	0.98	7.52	111.1	" " , T 38.7
.75	913	23.83	3.919	2.546	0.89	7.51	105.3	" " , T 25.9
1.0	918	23.77	3.920	2.546	0.90	7.51	103.7	" " , T 19.7

Total Water Volume Purged: 1.0 Gallons = N/A Well Volumes
Purged Dry (Y/N): N
Comments:

Well Security: Locking cap? X yes ___ no Replaced? ___ yes X no 15.9 PID
Bolts secured? X yes ___ no Replaced? ___ yes X no ~ Vacuum
Surface Seal? X yes ___ no Replaced? ___ yes X no 921 Sample Collection Time

GROUNDWATER COLLECTION LOG

CARDNO ATC
7115 AMIGO STREET, SUITE 100
LAS VEGAS, NEVADA 89119
(702) 990-9300 (702) 990-9305 fax

1026

Project Name: Maryland Square
Project Number: 085.42620.0001
Sampler's Name: WJD

Well ID: MW-14
Sample ID: MW-14
Date: 11/5/13

Purging Equipment: Low Flow Bladder Pump
Sampling Equipment: Low Flow Bladder Pump

Casing Type: PVC
Casing Diameter: 2 inch
Depth to Well Bottom: 29.85 feet 35'
Depth to Water: 18.96 feet 3Q13:19.16
Constructed Screen Interval 15 feet to 40 feet
Approximate Pump Depth 27.3 28.0 Feet bgs 24.6 Feet btoc 27

2" = 0.16 gal/lin ft.
3" = 0.37 gal/lin ft.
4" = 0.67 gal/lin ft.

Comments: Bottom soft when taking TD; sediment @ bottom of well, approx. 5'

Purged (gal.)	Time	Temp. (°C)	Conductance (mS/cm)	TDS (g/L)	DO (mg/L)	pH (SU)	ORP (mV)	Water Description: Color, Turbidity, Sheen, Etc.
.25	1013	25.00	3.898	2.534	2.96	7.89	108.2	S, Turbid, No Odor, T 12.7 NTU
.5	1018	25.01	3.894	2.531	2.67	7.84	99.7	" , No Odor, T 67.4 NTU
.75	1023	25.30	3.895	3.532	2.65	7.83	98.1	Clear, " , T 96.4 NTU
1.0	1028	25.32	3.894	3.532	2.61	7.83	96.0	" , " , T 39.2 NTU
1.25	1033	25.17	3.894	3.532	2.63	7.82	96.4	" , " , T 28.0 NTU

Total Water Volume Purged: 1.25 Gallons = N/A Well Volumes
Purged Dry (Y/N): N
Comments: Re-verified TD at 29.89

Well Security:
Locking cap? Y yes ___ no — Replaced? ___ yes Y no — 10.7 PID
Bolts secured? Y yes ___ no — Replaced? ___ yes Y no — — Vacuum
Surface Seal? Y yes ___ no — Replaced? ___ yes Y no — 1036 Sample Collection Time

GROUNDWATER COLLECTION LOG

CARDNO ATC
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LAS VEGAS, NEVADA 89119
(702) 990-9300 (702) 990-9305 fax

1208

Project Name: Maryland Square
Project Number: 085.42620.0001
Sampler's Name: NBA

Well ID: MW-14I
Sample ID: MW-14I
Date: 11/5/13

Purging Equipment: Low Flow Bladder Pump
Sampling Equipment: Low Flow Bladder Pump

Casing Type: PVC
Casing Diameter: 4 inch
Depth to Well Bottom: 54.64 feet
Depth to Water: 19.53 feet 3Q13:19.66
Constructed Screen Interval 40 feet to 55 feet
Approximate Pump Depth 47.5 Feet bgs 47.0 Feet btoc

2" = 0.16 gal/lin ft.
3" = 0.37 gal/lin ft.
4" = 0.67 gal/lin ft.

Comments: N/A

Purged (gal.)	Time	Temp. (°C)	Conductance (mS/cm)	TDS (g/L)	DO (mg/L)	pH (SU)	ORP (mV)	Water Description: Color, Turbidity, Sheen, Etc.	
.25	1208	24.18	1.381	0.899	4.09	7.54	104.6	Clear, No Odor, T 7.06	NTU
.5	1213	24.34	1.382	0.899	3.96	7.84	126.4	" , " , T 6.51	NTU
.75	1218	24.39	1.380	0.897	3.96	7.83	107.8	" , " , T 6.64	NTU
1.0	1223	24.37	1.381	0.898	3.98	7.83	106.9	" , " , T 6.41	NTU
1.25	1228	24.39	1.381	0.898	3.96	7.83	105.2	" , " , T 6.27	NTU
1.5	1233	24.38	1.380	0.898	3.98	7.82	101.9	" , " , T 6.31	NTU

Total Water Volume Purged: 1.5 Gallons = N/A Well Volumes
Purged Dry (Y/N): N
Comments: N/A

Well Security:
Locking cap? X yes ___ no Replaced? ___ yes X no 40.4 PID
Bolts secured? Y yes ___ no Replaced? ___ yes Y no — Vacuum
Surface Seal? Y yes ___ no Replaced? ___ yes X no 1237 Sample Collection Time

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Shaping the Future

GROUNDWATER COLLECTION LOG

CARDNO ATC
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LAS VEGAS, NEVADA 89119
(702) 990-9300 (702) 990-9305 fax

1255

Project Name: Maryland Square
Project Number: 085.42620.0001
Sampler's Name: DK

Well ID: MW-17
Sample ID: MW-17
Date: 11/4

Purging Equipment: Low Flow Bladder Pump
Sampling Equipment: Low Flow Bladder Pump

Casing Type: PVC
Casing Diameter: 4 inch
Depth to Well Bottom: 30.17 feet
Depth to Water: 19.90 feet 3Q13:20.18
Constructed Screen Interval 15 feet to 30 feet
Approximate Pump Depth 25.5 Feet bgs 25 Feet btoc

2" = 0.16 gal/lin ft.
3" = 0.37 gal/lin ft.
4" = 0.67 gal/lin ft.

Comments:

Purged (gal.)	Time	Temp. (°C)	Conductance (mS/cm)	TDS (g/L)	DO (mg/L)	pH (SU)	ORP (mV)	Water Description: Color, Turbidity, Sheen, Etc.
0.25	1305	23.83	3.216	2.137	1.62	6.03	169.6	Clear, No odor
0.50	1310	24.11	3.246	2.146	0.46	5.99	160.0	Clear, No odor T: 6.61
0.75	1315	24.15	3.249	2.146	0.41	5.97	154.2	Clear, No odor T: 1.67
1.0	1320	24.11	3.248	2.147	0.40	5.97	153.8	Clear, No odor
1.25	1325	24.10	3.247	2.149	0.42	5.97	153.9	Clear, No odor T: 1.67

Total Water Volume Purged: 1.25 Gallons = N/A Well Volumes
Purged Dry (Y/N): N
Comments:

Well Security:
Locking cap? X yes ___ no — Replaced? ___ yes X no — 1.3 PID
Bolts secured? X yes ___ no — Replaced? ___ yes X no — N/A Vacuum
Surface Seal? X yes ___ no — Replaced? ___ yes X no — 1327 Sample Collection Time

GROUNDWATER COLLECTION LOG

1402

CARDNO ATC
7115 AMIGO STREET, SUITE 100
LAS VEGAS, NEVADA 89119
(702) 990-9300 (702) 990-9305 fax

Project Name: Maryland Square
Project Number: 085.42620.0001
Sampler's Name: NBP

Well ID: MW-18
Sample ID: MW-18
Date: 11/12/13

Purging Equipment: Low Flow Bladder Pump
Sampling Equipment: Low Flow Bladder Pump

Casing Type: PVC
Casing Diameter: 4 inch
Depth to Well Bottom: 20.36 feet
Depth to Water: 13.62 feet 1Q13:12.06 ~20.36
Constructed Screen Interval 5 feet to 26 feet
Approximate Pump Depth 17.5 Feet bgs 17.0 Feet btoc

2" = 0.16 gal/lin ft.
3" = 0.37 gal/lin ft.
4" = 0.67 gal/lin ft.

Comments: * Drilled 0.ft verify TD

Purged (gal.)	Time	Temp. (°C)	Conductance (mS/cm)	TDS (g/L)	DO (mg/L)	pH (SU)	ORP (mV)	Water Description: Color, Turbidity, Sheen, Etc.
.25	1410	25.44	3.629	2.356	3.99	7.02	161.1	clear, No Bbls, T 13.87 NTU
.5	1415	25.47	3.630	2.357	3.61	6.81	150.7	" " , T 14.92 NTU
.75	1420	25.46	3.626	2.357	3.67	6.78	151.2	" " , T 14.93 NTU
1.0	1425	25.47	3.626	2.357	3.64	6.77	150.3	" " , T 13.40 NTU
1.25	1430	25.45	3.626	2.357	3.62	6.77	150.0	" " , T 10.11 NTU
1.5	1435	25.49	3.625	2.356	3.60	6.77	152.1	" " , T 8.28 NTU

Total Water Volume Purged: 1.5 Gallons = N/A Well Volumes
Purged Dry (Y/N): N
Comments: Discharge hose placed 30' of hose

Well Security:
Locking cap? X yes ___ no Replaced? ___ yes X no
Bolts secured? X yes ___ no Replaced? ___ yes X no
Surface Seal? X yes ___ no Replaced? ___ yes X no

5.7 PID
___ Vacuum
1438 Sample Collection Time

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1345

GROUNDWATER COLLECTION LOG

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7115 AMIGO STREET, SUITE 100
LAS VEGAS, NEVADA 89119
(702) 990-9300 (702) 990-9305 fax

Project Name: Maryland Square
Project Number: 085.42620.0001
Sampler's Name: NDP

Well ID: MW-19
Sample ID: MW-19
Date: 11/7/13

Purging Equipment: Low Flow Bladder Pump
Sampling Equipment: Low Flow Bladder Pump

Casing Type: PVC
Casing Diameter: 2 inch
Depth to Well Bottom: 30.02 feet
Depth to Water: 27.48 feet 3Q13:27.94
Constructed Screen Interval 19 feet to 35 feet
Approximate Pump Depth 29.5 Feet bgs 29 Feet btoc

2" = 0.16 gal/lin ft.
3" = 0.37 gal/lin ft.
4" = 0.67 gal/lin ft.

Comments: Bottom of casing soft when taking TD

Purged (gal.)	Time	Temp. (°C)	Conductance (mS/cm)	TDS (g/L)	DO (mg/L)	pH (SU)	ORP (mV)	Water Description: Color, Turbidity, Sheen, Etc.
.25	1354	26.95	3.135	1.966	3.30	6.35	223.4	Slt turbid, No Odor, T 119 NON
.5	1359	26.84	3.150	1.983	3.26	6.31	224.6	" " T 64.7 NON
.75	1404	26.58	3.148	1.982	3.20	6.30	224.8	" " T 67.2 NON
1.0	1409	26.63	3.149	1.982	3.17	6.30	227.1	" " T 66.4 NON
1.25	1414	26.49	3.149	1.982	3.15	6.30	227.5	" " T 65.8 NON

Total Water Volume Purged: 1.25 Gallons = N/A Well Volumes
Purged Dry (Y/N): N
Comments: N/A

Well Security:
Locking cap? Y yes ___ no Replaced? ___ yes X no
Bolts secured? Y yes ___ no Replaced? ___ yes X no
Surface Seal? Y yes ___ no Replaced? ___ yes X no

17.9 PID
— Vacuum
1416 Sample Collection Time

Permanganate 0.0

GROUNDWATER COLLECTION LOG

CARDNO ATC
7115 AMIGO STREET, SUITE 100
LAS VEGAS, NEVADA 89119
(702) 990-9300 (702) 990-9305 fax

Project Name: Maryland Square
Project Number: 085.42620.0001
Sampler's Name: NBA

Well ID: MW-19I
Sample ID: MW-19I
Date: 11/8/13

Purging Equipment: Low Flow Bladder Pump
Sampling Equipment: Low Flow Bladder Pump

Casing Type: PVC
Casing Diameter: 4 inch
Depth to Well Bottom: 54.23 feet
Depth to Water: 26.47 feet 3Q13:26.92
Constructed Screen Interval 34 feet to 54 feet
Approximate Pump Depth 44.5 Feet bgs 44 Feet btoc

2" = 0.16 gal/lin ft.
3" = 0.37 gal/lin ft.
4" = 0.67 gal/lin ft.

Comments: N/A

Purged (gal.)	Time	Temp. (°C)	Conductance (mS/cm)	TDS (g/L)	DO (mg/L)	pH (SU)	ORP (mV)	Water Description: Color, Turbidity, Sheen, Etc.	
.25	1134	25.63	4.175	2.713	4.44	7.10	577.8	Purple, Bubbly, T 35.2	mm
.5	1139	25.62	4.172	2.712	4.40	7.03	578.7	" , " , T 33.7	mm
.75	1144	25.56	4.168	2.709	4.34	7.00	580.0	" , " , T 27.6	mm
1.0	1149	25.44	4.168	2.710	4.27	6.99	583.2	" , " , T 24.3	mm
1.25	1154	25.66	4.167	2.709	4.30	6.99	581.5	" , " , T 22.6	mm
1.5	1159	25.62	4.167	2.709	4.28	6.99	579.4	" , " , T 20.8	mm

Total Water Volume Purged: 1.5 Gallons = N/A Well Volumes
Purged Dry (Y/N): N
Comments: N/A

Well Security:
Locking cap? X yes ___no
Bolts secured? Y yes ___no
Surface Seal? Y yes ___no

Replaced? ___yes X no
Replaced? ___yes X no
Replaced? ___yes X no

1.0 PID
~~0~~ Vacuum
1203 Sample Collection Time

Permanganate 3.0

GROUNDWATER COLLECTION LOG

CARDNO ATC
7115 AMIGO STREET, SUITE 100
LAS VEGAS, NEVADA 89119
(702) 990-9300 (702) 990-9305 fax

Project Name: Maryland Square
Project Number: 085.42620.0001
Sampler's Name: VDA

Well ID: MW-19D1
Sample ID: MW-19D1
Date: 11/8/13

Purging Equipment: Low Flow Bladder Pump
Sampling Equipment: Low Flow Bladder Pump

Casing Type: PVC
Casing Diameter: 2 inch
Depth to Well Bottom: 50.74 feet
Depth to Water: 26.70 feet 3Q13:27.17
Constructed Screen Interval 31 feet to 51 feet
Approximate Pump Depth 41.5 Feet bgs 41 Feet btoc

2" = 0.16 gal/lin ft.
3" = 0.37 gal/lin ft.
4" = 0.67 gal/lin ft.

Comments: N/S

Purged (gal.)	Time	Temp. (°C)	Conductance (mS/cm)	TDS (g/L)	DO (mg/L)	pH (SU)	ORP (mV)	Water Description: Color, Turbidity, Sheen, Etc.	
26.21 .25	1339	24.57	2.429	1.693	4.85	7.38	381.5	clear, No Odor, T49.1	none
26.43 .5	1344	24.36	2.935	1.698	4.73	7.29	392.1	" , " , T52.4	NSH
26.51 .75	1349	24.22	2.424	1.698	4.67	7.29	387.5	" , " , T29.7	none
26.72 1.0	1354	24.24	2.434	1.697	4.65	7.29	384.6	" , " , T28.1	NSH

Total Water Volume Purged: 1.0 Gallons = N/A Well Volumes
Purged Dry (Y/N): N
Comments:

Well Security:
Locking cap? X yes ___ no — Replaced? ___ yes X no — 0.6 PID
Bolts secured? X yes ___ no — Replaced? ___ yes X no — ~ Vacuum
Surface Seal? X yes ___ no — Replaced? ___ yes X no — 1400 Sample Collection Time

Remarks:

GROUNDWATER COLLECTION LOG

CARDNO ATC
7115 AMIGO STREET, SUITE 100
LAS VEGAS, NEVADA 89119
(702) 990-9300 (702) 990-9305 fax

Project Name: Maryland Square
Project Number: 085.42620.0001
Sampler's Name: NBA

Well ID: MW-19D2
Sample ID: MW-19D2
Date: 11/8/13

Purging Equipment: Low Flow Bladder Pump
Sampling Equipment: Low Flow Bladder Pump

Casing Type: PVC
Casing Diameter: 2 inch
Depth to Well Bottom: 70.02 feet
Depth to Water: 27.71 feet 3Q13:28.50
Constructed Screen Interval 60 feet to 70 feet
Approximate Pump Depth 65.5 Feet bgs 65 Feet btoc

2" = 0.16 gal/lin ft.
3" = 0.37 gal/lin ft.
4" = 0.67 gal/lin ft.

Comments: N/A

Purged (gal.)	Time	Temp. (°C)	Conductance (mS/cm)	TDS (g/L)	DO (mg/L)	pH (SU)	ORP (mV)	Water Description: Color, Turbidity, Sheen, Etc.	
.25	1037	25.19	2.607	1,694	3.70	7.58	454.4	Purple, No Odor, T 22.9	NTU
.5	1042	24.97	2.587	1,681	3.51	7.50	481.8	" , " , T 21.9	NTU
.75	1047	24.85	2.586	1.680	3.27	7.51	483.7	" , " , T 18.56	NTU
1.0	1052	24.83	2.586	1.680	3.30	7.51	485.2	" , " , T 17.96	NTU

Total Water Volume Purged: 1.0 Gallons = N/A Well Volumes
Purged Dry (Y/N): N
Comments: No Odor, Color - Purple

Well Security:
Locking cap? Y yes ___ no — Replaced? ___ yes N no — 12.0 PID
Bolts secured? Y yes ___ no — Replaced? ___ yes N no — ___ Vacuum
Surface Seal? Y yes ___ no — Replaced? ___ yes N no — 1055 Sample Collection Time

Permanganate 3.0

GROUNDWATER COLLECTION LOG

CARDNO ATC
7115 AMIGO STREET, SUITE 100
LAS VEGAS, NEVADA 89119
(702) 990-9300 (702) 990-9305 fax

1222

Project Name: Maryland Square
Project Number: 085.42620.0001
Sampler's Name: MSA

Well ID: MW-19D3
Sample ID: MW-19D3
Date: 11/8/13

Purging Equipment: Low Flow Bladder Pump
Sampling Equipment: Low Flow Bladder Pump

Casing Type: PVC
Casing Diameter: 2 inch
Depth to Well Bottom: 102 feet
Depth to Water: 26.48 feet (3Q13: 28.80; 2nd 26.40; 3rd 25.90; 4th 25.42)
Constructed Screen Interval: 92 feet to 102 feet
Approximate Pump Depth: 97.5 Feet bgs 97 Feet btoc

2" = 0.16 gal/lin ft.
3" = 0.37 gal/lin ft.
4" = 0.67 gal/lin ft.

Comments: * final DTW

Low Flow (LF)

DTW	Purged (gal.)	Time	Temp. (°C)	Conductance (mS/cm)	TDS (g/L)	DO (mg/L)	pH (SU)	ORP (mV)	Water Description: Color, Turbidity, Sheen, Etc.	
25.97	.75	1308	24.38	1.031	0.670	4.37	7.72	470.6	clear, No Odor, T 12.20	NTU
27.83	.5	1310	24.39	1.033	0.671	4.21	7.64	452.6	" , No Odor, T 05.1	NTU
28.02	.75	1315	24.30	1.033	0.671	4.16	7.64	435.5	" , " , T 10.29	NTU
28.47	1.0	1320	24.27	1.033	0.671	4.13	7.63	423.8	" , " , T 10.27	NTU
					High Volume (HV)					
30.55	2.0	1512	23.68	1.043	0.677	4.73	7.74	490.3	" , No Odor , T 36.6	NTU
43.00	5	1520	23.81	1.045	0.673	4.56	7.65	465.8	" , " , T 29.7	NTU
51.24	8	1531	23.94	1.034	0.673	4.35	7.65	456.7	" , " , T 27.5	NTU
60.17	12	1537	23.87	1.035	0.673	4.39	7.65	447.8	" , " , T 25.8	NTU
46.86	20	1552	24.14	1.037	0.674	4.52	7.66	439.7	" , " , T 28.3	NTU
60.90	26	1657	24.28	1.036	0.674	4.47	7.65	441.8	" , " , T 36.7	NTU
77.86	30	1702	24.51	1.037	0.675	4.38	7.65	438.1	" , " , T 23.1	NTU
86.54	33	1707	24.63	1.038	0.675	4.34	7.65	429.7	" , " , T 24.8	NTU
92.44	36	1712	24.32	1.037	0.675	4.35	7.65	424.5	" , " , T 22.0	NTU

Total Water Volume Purged: 1.0 Gallons = NA % Well Volumes
Purged Dry (Y/N): N
Comments: (HV) ~~DTW~~ 26.36 TD 102.0

Well Security:
Locking cap? X yes X no
Bolts secured? X yes X no
Surface Seal? X yes X no

Replaced? ____ yes X no
Replaced? ____ yes X no
Replaced? ____ yes X no

0.3 PID
— Vacuum
LF 1323 Sample Collection Time

HV 715 collection time

Permanganate 00

GROUNDWATER COLLECTION LOG

CARDNO ATC
7115 AMIGO STREET, SUITE 100
LAS VEGAS, NEVADA 89119
(702) 990-9300 (702) 990-9305 fax

Project Name: Maryland Square
Project Number: 085.42620.0001
Sampler's Name: DK

Well ID: MW-20
Sample ID: MW-20
Date: 11/7

Purging Equipment: Low Flow Bladder Pump
Sampling Equipment: Low Flow Bladder Pump

Casing Type: PVC
Casing Diameter: 2 inch
Depth to Well Bottom: 32.30 feet
Depth to Water: 27.28 feet 3Q13:27.70
Constructed Screen Interval 19 feet to 35 feet
Approximate Pump Depth 30.5 Feet bgs 30 Feet btoc

2" = 0.16 gal/lin ft.
3" = 0.37 gal/lin ft.
4" = 0.67 gal/lin ft.

Comments: Replaced Hose 40'

Purged (gal.)	Time	Temp. (°C)	Conductance (mS/cm)	TDS (g/L)	DO (mg/L)	pH (SU)	ORP (mV)	Water Description: Color, Turbidity, Sheen, Etc.
0.25	1306	26.92	3.405	2.135	2.90	6.48	257.0	Sl. turbid, no odor, T 25.4
0.5	1311	26.08	3.383	2.149	2.46	6.14	252.2	" " T 18.4
.75	1316	25.75	3.369	2.152	2.43	6.13	250.0	" " T 35.3
1.0	1321	25.57	3.368	2.152	2.47	6.13	247.5	" " T 21.2
1.25	1326	25.53	3.368	2.152	2.48	6.13	245.3	" " T 21.8

Total Water Volume Purged: 1.25 Gallons = N/A Well Volumes
Purged Dry (Y/N): N
Comments:

Well Security:
Locking cap? X yes ___ no — Replaced? ___ yes X no — 0.0 PID
Bolts secured? X yes ___ no — Replaced? ___ yes X no — ___ Vacuum
Surface Seal? X yes ___ no — Replaced? ___ yes X no — 1330 Sample Collection Time

Permanganate 0.0

Cardno ATC

GROUNDWATER COLLECTION LOG

CARDNO ATC
7115 AMIGO STREET, SUITE 100
LAS VEGAS, NEVADA 89119
(702) 990-9300 (702) 990-9305 fax

Project Name: Maryland Square
Project Number: 085.42620.0001
Sampler's Name: DK

Well ID: MW-20D1
Sample ID: MW-20D1
Date: 11/7/13

Purging Equipment: Low Flow Bladder Pump
Sampling Equipment: Low Flow Bladder Pump

Casing Type: PVC
Casing Diameter: 2 inch
Depth to Well Bottom: 45.27 feet
Depth to Water: 26.60 feet
Constructed Screen Interval: 25 feet to 45 feet
Approximate Pump Depth: 36.5 Feet bgs 36 Feet btoc

3Q13:27.01

2" = 0.16 gal/lin ft.
3" = 0.37 gal/lin ft.
4" = 0.67 gal/lin ft.

Comments:

Purged (gal.)	Time	Temp. (°C)	Conductance (mS/cm)	TDS (g/L)	DO (mg/L)	pH (SU)	ORP (mV)	Water Description: Color, Turbidity, Sheen, Etc.
0.25	1123	24.87	3.313	2.158	4.89	7.24	52.8	Sl. Turbid, NO odor T:73.7
0.5	1128	25.12	3.344	2.168	4.56	7.12	57.2	Sl. Turbid, No odor T:84.8
.75	1133	25.15	3.348	2.166	4.54	7.10	57.6	Sl. turbid, NO odor T:83.6
1.0	1138	25.16	3.345	2.165	4.52	7.09	57.6	Sl. turbid, No odor T:83.5
1.25	1142	25.16	3.343	2.163	4.51	7.09	57.4	Sl. turbid, NO odor T:83.3

Total Water Volume Purged: 1.25 Gallons = N/A Well Volumes
Purged Dry (Y/N):
Comments:

Well Security:
Locking cap? X yes ___ no — Replaced? ___ yes X no — 0.0 PID
Bolts secured? X yes ___ no — Replaced? ___ yes X no — ___ Vacuum
Surface Seal? X yes ___ no — Replaced? ___ yes X no — 1147 Sample Collection Time

Purging: 0.0

GROUNDWATER COLLECTION LOG

CARDNO ATC
7115 AMIGO STREET, SUITE 100
LAS VEGAS, NEVADA 89119
(702) 990-9300 (702) 990-9305 fax

Project Name: Maryland Square
Project Number: 085.42620.0001
Sampler's Name: NBH

Well ID: MW-20D2
Sample ID: MW-20D2
Date: 11/7/13

Purging Equipment: Low Flow Bladder Pump
Sampling Equipment: Low Flow Bladder Pump

Casing Type: PVC
Casing Diameter: 2 inch
Depth to Well Bottom: 65.64 feet
Depth to Water: 26.92 feet 3Q13:26.90
Constructed Screen Interval 55 feet to 65 feet
Approximate Pump Depth 60.5 Feet bgs 60 Feet btoc

2" = 0.16 gal/lin ft.
3" = 0.37 gal/lin ft.
4" = 0.67 gal/lin ft.

Comments:

Purged (gal.)	Time	Temp. (°C)	Conductance (mS/cm)	TDS (g/L)	DO (mg/L)	pH (SU)	ORP (mV)	Water Description: Color, Turbidity, Sheen, Etc.
.25	1140	24.99	2.449	1.592	4.76	6.83	78.1	clear, No Odor, T 9.33 NM
.5	1145	24.81	2.454	1.595	4.28	6.74	73.7	" , " T 9.08 NM
.75	1150	24.97	2.455	1.596	4.31	6.75	78.5	" , " T 9.12 NM
1.0	1155	24.88	2.454	1.596	4.29	6.74	75.3	" , " T 9.02 NM

Total Water Volume Purged: 1.0 Gallons = N/A Well Volumes
Purged Dry (Y/N): N
Comments:

Well Security: Locking cap? Y yes ___ no Replaced? ___ yes X no 8.0 PID
Bolts secured? Y yes ___ no Replaced? ___ yes X no ~~ Vacuum
Surface Seal? Y yes ___ no Replaced? ___ yes X no 1458 Sample Collection Time

Permanganate 0.0

GROUNDWATER COLLECTION LOG

CARDNO ATC
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LAS VEGAS, NEVADA 89119
(702) 990-9300 (702) 990-9305 fax

Project Name: Maryland Square
Project Number: 085.42620.0001
Sampler's Name: NBA

Well ID: MW-20D3
Sample ID: MW-20D3
Date: 11/7/13

Purging Equipment: Low Flow Bladder Pump
Sampling Equipment: Low Flow Bladder Pump

Casing Type: PVC
Casing Diameter: 2 inch
Depth to Well Bottom: 100 feet
Depth to Water: 26.57 feet 3Q13:27.28
Constructed Screen Interval 90 feet to 100 feet
Approximate Pump Depth 95-5 Feet bgs 95 Feet btoc

2" = 0.16 gal/lin ft.
3" = 0.37 gal/lin ft.
4" = 0.67 gal/lin ft.

Comments:

Purged (gal.)	Time	Temp. (°C)	Conductance (mS/cm)	TDS (g/L)	DO (mg/L)	pH (SU)	ORP (mV)	Water Description: Color, Turbidity, Sheen, Etc.
.25	1100	25.25	1.337	0.869	4.56	6.99	92.4	Sl. Turbid/No color, T 61.3 NTU
.5	1105	24.98	1.364	0.887	4.18	6.88	87.7	clear, No color, T 48.7 NTU
.75	1110	24.70	1.365	0.888	4.07	6.87	82.7	" , " , T 39.7 NTU
1.0	1115	24.39	1.363	0.887	4.02	6.87	80.5	" , " , T 31.9 NTU

Total Water Volume Purged: 1.0 Gallons = N/A Well Volumes
Purged Dry (Y/N): N
Comments:

Well Security: Locking cap? X yes ___ no Replaced? ___ yes X no 0.0 PID
Bolts secured? X yes ___ no Replaced? ___ yes X no — Vacuum
Surface Seal? X yes ___ no Replaced? ___ yes X no 1115 Sample Collection Time

Permanganate 0.0

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Shaping the Future

GROUNDWATER COLLECTION LOG

1312

CARDNO ATC
7115 AMIGO STREET, SUITE 100
LAS VEGAS, NEVADA 89119
(702) 990-9300 (702) 990-9305 fax

Project Name: Maryland Square
Project Number: 085.42620.0001
Sampler's Name: NBA

Well ID: MW-23
Sample ID: MW-23
Date: 11/12/13

Purging Equipment: Low Flow Bladder Pump
Sampling Equipment: Low Flow Bladder Pump

Casing Type: PVC
Casing Diameter: 4 inch
Depth to Well Bottom: 25.29 feet
Depth to Water: 17.57 feet 1Q13:15.95
Constructed Screen Interval 5 feet to 26 feet
Approximate Pump Depth 22.0 Feet bgs 21.5 Feet btoc

2" = 0.16 gal/lin ft.
3" = 0.37 gal/lin ft.
4" = 0.67 gal/lin ft.

Comments: N/A

Purged (gal.)	Time	Temp. (°C)	Conductance (mS/cm)	TDS (g/L)	DO (mg/L)	pH (SU)	ORP (mV)	Water Description: Color, Turbidity, Sheen, Etc.
.25	1319	24.50	3.660	2.378	2.40	6.88	157.8	Clear, No Odor, T 8.17 NTU
.5	1324	24.33	3.658	3.378	2.00	6.73	153.5	" , " , T 5.66 NTU
.75	1329	24.26	3.659	2.378	2.17	6.70	153.7	" , " , T 5.28 NTU
1.0	1334	24.24	3.659	2.379	2.10	6.70	149.5	" , " T 4.82 NTU
1.25	1339	24.30	3.659	2.379	2.09	6.70	150.3	" , " , T 5.27 NTU
1.5	1344	24.32	3.658	2.379	2.13	6.69	153.4	" , " , T 5.13 NTU

Total Water Volume Purged: 1.5 Gallons = N/A Well Volumes
Purged Dry (Y/N): N
Comments: change with 20' of Hose

Well Security:
Locking cap? X yes ___ no — Replaced? ___ yes X no — 2.4 PID
Bolts secured? X yes ___ no — Replaced? ___ yes X no — — Vacuum
Surface Seal? X yes ___ no — Replaced? ___ yes X no — 1349 Sample Collection Time

GROUNDWATER COLLECTION LOG

CARDNO ATC
7115 AMIGO STREET, SUITE 100
LAS VEGAS, NEVADA 89119
(702) 990-9300 (702) 990-9305 fax

Project Name: Maryland Square
Project Number: 085.42620.0001
Sampler's Name: N/BA

Well ID: MW-25
Sample ID: MW-25
Date: 11/12/13

Purging Equipment: Low Flow Bladder Pump
Sampling Equipment: Low Flow Bladder Pump

Casing Type: PVC
Casing Diameter: 4 inch
Depth to Well Bottom: 25.97 feet
Depth to Water: 20.87 feet 1Q13:18.75
Constructed Screen Interval 5 feet to 26 feet
Approximate Pump Depth 24 Feet bgs 23.5 Feet btoc

2" = 0.16 gal/lin ft.
3" = 0.37 gal/lin ft.
4" = 0.67 gal/lin ft.

Comments: N/A

Purged (gal.)	Time	Temp. (°C)	Conductance (mS/cm)	TDS (g/L)	DO (mg/L)	pH (SU)	ORP (mV)	Water Description: Color, Turbidity, Sheen, Etc.	
.25	1058	24.56	3.893	2.531	1.78	6.70	113.4	Clear, Moderate, T 12.1	NTU
.5	1103	24.29	3.897	2.533	1.54	6.23	121.0	" , " , T 8.57	NTU
.75	1108	24.25	3.897	2.534	1.46	6.23	119.4	" , " , T 7.12	NTU
1.0	1113	24.40	3.896	2.533	1.43	6.22	114.0	" , " , T 5.99	NTU
1.25	1118	24.33	3.896	2.533	1.41	6.22	113.4	" , " , T 6.10	NTU
1.5	1123	24.38	3.896	2.533	1.37	6.23	113.9	" , " , T 6.47	NTU

Total Water Volume Purged: 1.5 Gallons = N/A Well Volumes
Purged Dry (Y/N): N
Comments:

Well Security:
Locking cap? X yes ___ no Replaced? ___ yes X no 1.5 PID
Bolts secured? X yes ___ no Replaced? ___ yes X no ___ Vacuum
Surface Seal? X yes ___ no Replaced? ___ yes X no 1126 Sample Collection Time

GROUNDWATER COLLECTION LOG

CARDNO ATC
7115 AMIGO STREET, SUITE 100
LAS VEGAS, NEVADA 89119
(702) 990-9300 (702) 990-9305 fax

Project Name: Maryland Square
Project Number: 085.42620.0001
Sampler's Name: NBH

Well ID: MW-26
Sample ID: MW-26
Date: 11/12/13

Purging Equipment: Low Flow Bladder Pump
Sampling Equipment: Low Flow Bladder Pump

Casing Type: PVC
Casing Diameter: 4 inch
Depth to Well Bottom: 35.31 feet
Depth to Water: 19.02 feet 1Q13:16.81
Constructed Screen Interval 10 feet to 36 feet
Approximate Pump Depth 27.5 Feet bgs 27.0 Feet btoc

2" = 0.16 gal/lin ft.
3" = 0.37 gal/lin ft.
4" = 0.67 gal/lin ft.

Comments: N/A

Purged (gal.)	Time	Temp. (°C)	Conductance (mS/cm)	TDS (g/L)	DO (mg/L)	pH (SU)	ORP (mV)	Water Description: Color, Turbidity, Sheen, Etc.	
.25	1236	24.16	4.003	2.602	3.14	6.34	136.7	Clear, No Odor, T 5.78	NSH
.5	1241	24.55	4.006	2.605	2.68	6.43	134.8	" , " , T 8.31	NSH
.75	1246	24.70	4.010	2.605	2.47	6.45	139.7	" , " , T 7.41	NSH
1.0	1251	24.66	4.010	2.605	2.48	6.37	134.2	" , " , T 8.17	NSH
1.25	1256	24.53	4.009	2.604	2.46	6.37	134.6	" , " , T 7.59	NSH
1.5	1301	24.59	4.010	2.604	2.40	6.36	137.5	" , " , T 7.01	NSH

Total Water Volume Purged: 1.5 Gallons = N/A Well Volumes
Purged Dry (Y/N): N
Comments: damaged Hose w/ 40' of Hose

Well Security:
Locking cap? Y yes ___ no — Replaced? ___ yes X no — 14.5 PID
Bolts secured? Y yes ___ no — Replaced? ___ yes Y no — < Vacuum
Surface Seal? Y yes ___ no — Replaced? ___ yes Y no — 1304 Sample Collection Time

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GROUNDWATER COLLECTION LOG

CARDNO ATC
7115 AMIGO STREET, SUITE 100
LAS VEGAS, NEVADA 89119
(702) 990-9300 (702) 990-9305 fax

Project Name: Maryland Square
Project Number: 085.42620.0001
Sampler's Name: JDA

Well ID: MW-27
Sample ID: MW-27
Date: 11/12/13

Purging Equipment: Low Flow Bladder Pump
Sampling Equipment: Low Flow Bladder Pump

Casing Type: PVC
Casing Diameter: 4 inch
Depth to Well Bottom: 35.24 feet
Depth to Water: 17.69 feet 3Q13:19.67
Constructed Screen Interval 10 feet to 36 feet
Approximate Pump Depth 26.5 Feet bgs 26 Feet btoc

2" = 0.16 gal/lin ft.
3" = 0.37 gal/lin ft.
4" = 0.67 gal/lin ft.

Comments: N/A

Purged (gal.)	Time	Temp. (°C)	Conductance (mS/cm)	TDS (g/L)	DO (mg/L)	pH (SU)	ORP (mV)	Water Description: Color, Turbidity, Sheen, Etc.
.25	1010	24.01	4.069	2.607	2.63	7.71	124.5	Clear, No Odor, T 9.63 NTU
.5	1015	24.35	4.021	2.614	1.84	7.32	120.0	" , " , T 12.76 NTU
.75	1020	24.12	4.029	2.617	1.85	7.19	117.9	" , " , T 9.77 NTU
1.0	1025	24.28	4.024	2.617	1.76	7.19	123.0	" , " , T 8.51 NTU
1.25	1030	24.29	4.023	2.617	1.78	7.18	120.0	" , " , T 7.13 NTU
1.5	1035	24.27	4.023	2.616	1.74	7.18	119.7	" , " , T 7.19 NTU

Total Water Volume Purged: 1.5 Gallons = N/A Well Volumes
Purged Dry (Y/N): N
Comments: change with 45' of Hose

Well Security:
Locking cap? X yes ___ no Replaced? ___ yes X no 11.6 PID
Bolts secured? X yes ___ no Replaced? ___ yes X no — Vacuum
Surface Seal? X yes ___ no Replaced? ___ yes X no 1038 Sample Collection Time

GROUNDWATER COLLECTION LOG

CARDNO ATC
7115 AMIGO STREET, SUITE 100
LAS VEGAS, NEVADA 89119
(702) 990-9300 (702) 990-9305 fax

1219

Project Name: Maryland Square
Project Number: 085.42620.0001
Sampler's Name: MBA

Well ID: MW-30
Sample ID: MW-30
Date: 4/11/13

Purging Equipment: Low Flow Bladder Pump
Sampling Equipment: Low Flow Bladder Pump

Casing Type: PVC
Casing Diameter: 4 inch
Depth to Well Bottom: 39.68 feet
Depth to Water: 19.87 feet 1Q13:17.38
Constructed Screen Interval 20 feet to 41 feet
Approximate Pump Depth 35.05 Feet bgs 30 Feet btoc

2" = 0.16 gal/lin ft.
3" = 0.37 gal/lin ft.
4" = 0.67 gal/lin ft.

Comments: N/A

Purged (gal.)	Time	Temp. (°C)	Conductance (mS/cm)	TDS (g/L)	DO (mg/L)	pH (SU)	ORP (mV)	Water Description: Color, Turbidity, Sheen, Etc.	
.25	1240	22.46	3.304	2.149	3.72	6.67	147.3	clear, No Odor, T 8.13	MBA
.5	1245	22.06	2.302	2.146	3.11	6.59	142.6	" " T 8.79	MBA
.75	1250	21.99	2.301	2.146	3.09	6.58	146.0	" " T 8.66	MBA
1.0	1255	21.99	2.299	2.145	3.29	6.58	144.5	" " T 8.40	MBA
1.25	1300	22.05	2.298	2.145	3.28	6.58	142.3	" " T 7.90	MBA
1.5	1305	22.07	3.299	2.145	3.29	6.58	141.0	" " T 7.57	MBA

Total Water Volume Purged: 1.5 Gallons = N/A Well Volumes
Purged Dry (Y/N): N
Comments: N/A

Well Security: Locking cap? X yes ___ no Replaced? ___ yes X no 0.0 PID
Bolts secured? X yes ___ no Replaced? ___ yes X no — Vacuum
Surface Seal? X yes ___ no Replaced? ___ yes X no 1305 Sample Collection Time

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GROUNDWATER COLLECTION LOG

1129

CARDNO ATC
7115 AMIGO STREET, SUITE 100
LAS VEGAS, NEVADA 89119
(702) 990-9300 (702) 990-9305 fax

Project Name: Maryland Square
Project Number: 085.42620.0001
Sampler's Name: NGA

Well ID: MW-31
Sample ID: MW-31
Date: 11/11/13

Purging Equipment: Low Flow Bladder Pump
Sampling Equipment: Low Flow Bladder Pump

Casing Type: PVC
Casing Diameter: 4 inch
Depth to Well Bottom: 33.55 feet
Depth to Water: 18.55 feet 1Q13:16.27
Constructed Screen Interval 13.5 feet to 33.6 feet
Approximate Pump Depth 26.3 Feet bgs 26.0 Feet btoc

2" = 0.16 gal/lin ft.
3" = 0.37 gal/lin ft.
4" = 0.67 gal/lin ft.

Comments: Bottom 20FT when taking TD

Purged (gal.)	Time	Temp. (°C)	Conductance (mS/cm)	TDS (g/L)	DO (mg/L)	pH (SU)	ORP (mV)	Water Description: Color, Turbidity, Sheen, Etc.
.25	1140	25.21	4.223	2.745	3.13	6.24	226.3	Sl turbid, No Odor, T 21.7 NTU
.5	1145	25.14	4.225	2.748	2.53	6.39	203.5	" " T 8.6 NTU
.75	1150	24.59	4.231	2.751	2.51	6.38	211.3	" " T 34.3 NTU
1.0	1155	24.36	4.229	2.749	2.48	6.38	208.4	" " T 17.78 NTU
1.25	1200	24.34	4.229	2.749	2.43	6.38	194.6	" " T 13.92 NTU
1.5	1205	24.30	4.228	2.749	2.41	6.38	191.5	" " T 12.72 NTU

Total Water Volume Purged: 1.5 Gallons = N/A Well Volumes
Purged Dry (Y/N): N
Comments: N/A

Well Security: Locking cap? yes no Replaced? yes no 0.3 PID
Bolts secured? yes no Replaced? yes no — Vacuum
Surface Seal? yes no Replaced? yes no 1208 Sample Collection Time

Cardno ATC

GROUNDWATER COLLECTION LOG

CARDNO ATC
7115 AMIGO STREET, SUITE 100
LAS VEGAS, NEVADA 89119
(702) 990-9300 (702) 990-9305 fax

Project Name: Maryland Square
Project Number: 085.42620.0001
Sampler's Name: DBA

Well ID: MW-32
Sample ID: MW-32
Date: 11/13/13

Purging Equipment: Low Flow Bladder Pump
Sampling Equipment: Low Flow Bladder Pump

Casing Type: PVC
Casing Diameter: 4 inch
Depth to Well Bottom: 33.73 feet
Depth to Water: 20.68 feet 1Q13:18.43
Constructed Screen Interval 13.5 feet to 33.7 feet
Approximate Pump Depth 27.5 Feet bgs 27 Feet btoc

2" = 0.16 gal/lin ft.
3" = 0.37 gal/lin ft.
4" = 0.67 gal/lin ft.

Comments: N/A

Purged (gal.)	Time	Temp. (°C)	Conductance (mS/cm)	TDS (g/L)	DO (mg/L)	pH (SU)	ORP (mV)	Water Description: Color, Turbidity, Sheen, Etc.	
.25	1145	24.69	3.796	2.467	2.15	6.65	178.2	Clear, No Odor, T 28.3	WPM
.5	1150	24.95	3.791	2.937	2.56	6.61	124.1	" , " , T 11.93	WPM
.75	1155	24.48	3.719	2.419	2.43	6.57	123.8	" , " , T 12.10	WPM
1.0	1200	24.44	3.718	2.419	2.52	6.57	124.8	" , " , T 10.16	WPM
1.25	1205	24.49	3.716	2.418	2.50	6.56	126.3	" , " , T 8.31	WPM
1.5	1210	24.57	3.717	2.418	2.46	6.57	123.5	" , " , T	

Total Water Volume Purged: 1.5 Gallons = N/A Well Volumes
Purged Dry (Y/N): N
Comments: changed hose w/ 40' of hose

Well Security:
Locking cap? Y yes ___ no Replaced? ___ yes N no
Bolts secured? Y yes ___ no Replaced? ___ yes N no
Surface Seal? Y yes ___ no Replaced? ___ yes N no

3.8 PID
— Vacuum
1213 Sample Collection Time

GROUNDWATER COLLECTION LOG

CARDNO ATC
7115 AMIGO STREET, SUITE 100
LAS VEGAS, NEVADA 89119
(702) 990-9300 (702) 990-9305 fax

Project Name: Maryland Square
Project Number: 085.42620.0001
Sampler's Name: NBA

Well ID: MW-33
Sample ID: MW-33
Date: 1/18/13

Purging Equipment: Low Flow Bladder Pump
Sampling Equipment: Low Flow Bladder Pump

Casing Type: PVC
Casing Diameter: 4 inch
Depth to Well Bottom: 33.52 feet
Depth to Water: 19.40 feet 1Q13:17.25
Constructed Screen Interval 13.5 feet to 33.8 feet
Approximate Pump Depth 27 Feet bgs 26.5 Feet btoc

2" = 0.16 gal/lin ft.
3" = 0.37 gal/lin ft.
4" = 0.67 gal/lin ft.

Comments: N/A

Purged (gal.)	Time	Temp. (°C)	Conductance (mS/cm)	TDS (g/L)	DO (mg/L)	pH (SU)	ORP (mV)	Water Description: Color, Turbidity, Sheen, Etc.
.25	820	21.23	3.998	2.599	3.47	7.12	131.6	Clear, No Odor, T 8.49 NTU
.5	825	21.55	4.008	2.605	1.45	7.02	142.8	" " " T 6.35 NTU
.75	830	21.50	4.010	2.607	1.33	6.95	139.6	" " " T 7.29 NTU
1.0	835	21.54	4.010	2.607	1.34	6.94	140.8	" " " T 7.26 NTU
1.25	840	21.73	4.011	2.608	1.37	6.94	146.3	" " " T 7.63 NTU
1.5	845	21.58	4.010	2.608	1.36	6.94	146.3	" " " T 7.59 NTU

Total Water Volume Purged: 1.5 Gallons = N/A Well Volumes
Purged Dry (Y/N): N
Comments: N/A

Well Security:
Locking cap? X yes ___ no Replaced? ___ yes X no 0.0 PID
Bolts secured? X yes ___ no Replaced? ___ yes X no — Vacuum
Surface Seal? X yes ___ no Replaced? ___ yes X no 845 Sample Collection Time

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Shaping the Future

GROUNDWATER COLLECTION LOG

CARDNO ATC
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LAS VEGAS, NEVADA 89119
(702) 990-9300 (702) 990-9305 fax

1500

Project Name: Maryland Square
Project Number: 085.42620.0001
Sampler's Name: DK

Well ID: MW-34
Sample ID: MW-34
Date: 11/4

Purging Equipment: Low Flow Bladder Pump
Sampling Equipment: Low Flow Bladder Pump

Casing Type: PVC
Casing Diameter: 2 inch
Depth to Well Bottom: 29.07 feet
Depth to Water: 19.14 feet 3Q13:19.36
Constructed Screen Interval: 10 feet to 30 feet
Approximate Pump Depth: 24.5 Feet bgs 24 Feet btoc

2" = 0.16 gal/lin ft.
3" = 0.37 gal/lin ft.
4" = 0.67 gal/lin ft.

Comments:

Purged (gal.)	Time	Temp. (°C)	Conductance (mS/cm)	TDS (g/L)	DO (mg/L)	pH (SU)	ORP (mV)	Water Description: Color, Turbidity, Sheen, Etc.
0.25	1507	23.42	3.347	2.289	0.78	6.17	187.5	clear, NO odor T:57.3
0.50	1512	23.54	3.434	2.295	0.83	6.14	184.3	clear, NO odor T:59
0.75	1517	23.55	3.435	2.296	0.84	6.13	184.5	clear NO odor
1.0	1522	23.56	3.435	2.296	0.85	6.13	184.2	T:20

Total Water Volume Purged: 1.0 Gallons = N/A Well Volumes
Purged Dry (Y/N):
Comments:

Well Security:
Locking cap? X yes ___ no Replaced? ___ yes X no
Bolts secured? X yes ___ no Replaced? ___ yes X no
Surface Seal? X yes ___ no Replaced? ___ yes X no

13.5 PID
N/A Vacuum
1527 Sample Collection Time

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GROUNDWATER COLLECTION LOG

CARDNO ATC
7115 AMIGO STREET, SUITE 100
LAS VEGAS, NEVADA 89119
(702) 990-9300 (702) 990-9305 fax

1418

Project Name: Maryland Square
Project Number: 085.42620.0001
Sampler's Name: DK

Well ID: MW-35
Sample ID: MW-35
Date: 11/4

Purging Equipment: Low Flow Bladder Pump
Sampling Equipment: Low Flow Bladder Pump

Casing Type: PVC
Casing Diameter: 2 inch
Depth to Well Bottom: 27.87 feet
Depth to Water: 9.43 feet 3Q13:20.21
Constructed Screen Interval 10 feet to 30 feet
Approximate Pump Depth 24.5 Feet bgs 24 Feet btoc

2" = 0.16 gal/lin ft.
3" = 0.37 gal/lin ft.
4" = 0.67 gal/lin ft.

Comments:

Purged (gal.)	Time	Temp. (°C)	Conductance (mS/cm)	TDS (g/L)	DO (mg/L)	pH (SU)	ORP (mV)	Water Description: Color, Turbidity, Sheen, Etc.
0.25	1425	22.46	3.109	2.127	2.00	6.27	187.0	Sl. turbid, no odor
0.50	1430	23.47	3.253	2.177	1.79	6.19	185.8	Sl. turbid, no odor
0.75	1435	23.46	3.258	2.187	1.76	6.18	185.6	Sl. turbid, no odor T: 87.3
1.00	1440	23.46	3.256	2.184	1.74	6.14	185.7	Clear, no odor T: 68.8
1.25	1445	23.47	3.253	2.178	1.75	6.14	184.3	Clear, no odor T: 45.8

Total Water Volume Purged: 1.25 Gallons = N/A Well Volumes
Purged Dry (Y/N): N
Comments:

Well Security:
Locking cap? X yes ___ no Replaced? ___ yes X no
Bolts secured? X yes ___ no Replaced? ___ yes X no
Surface Seal? X yes ___ no Replaced? ___ yes X no

5.3 PID
N/A Vacuum
1448 Sample Collection Time

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GROUNDWATER COLLECTION LOG

910

CARDNO ATC
7115 AMIGO STREET, SUITE 100
LAS VEGAS, NEVADA 89119
(702) 990-9300 (702) 990-9305 fax

Project Name: Maryland Square
Project Number: 085.42620.0001
Sampler's Name: DBA

Well ID: MW-36
Sample ID: MW-36
Date: 11/12/13

Purging Equipment: Low Flow Bladder Pump
Sampling Equipment: Low Flow Bladder Pump

Casing Type: PVC
Casing Diameter: 4 inch
Depth to Well Bottom: 37.86 feet
Depth to Water: 21.22 feet 3Q13:21.48
Constructed Screen Interval 17 feet to 38 feet
Approximate Pump Depth 30 Feet bgs 29.5 Feet btoc

2" = 0.16 gal/lin ft.
3" = 0.37 gal/lin ft.
4" = 0.67 gal/lin ft.

Comments: N/A

Purged (gal.)	Time	Temp. (°C)	Conductance (mS/cm)	TDS (g/L)	DO (mg/L)	pH (SU)	ORP (mV)	Water Description: Color, Turbidity, Sheen, Etc.
.25	925	22.41	3.863	2.511	3.25	7.49	143.7	Clear, No Odor, T13.95 NTU
.5	930	23.34	3.853	2.506	2.06	7.49	137.3	" , " , T12.48 NTU
.75	935	23.89	3.850	2.504	2.00	7.43	135.9	" , " , T12.82 NTU
1.0	940	23.82	3.851	2.504	1.90	7.42	133.8	" , " , T 9.35 NTU
1.25	945	23.48	3.850	2.503	1.39	7.42	128.8	" , " , T 9.56 NTU
1.5	950	23.32	3.850	2.503	1.91	7.42	125.6	" , " , T 9.35 NTU

Total Water Volume Purged: 1.5 Gallons = N/A Well Volumes
Purged Dry (Y/N): N
Comments: Changed Hose 45'

Well Security:
Locking cap? X yes ___ no Replaced? ___ yes X no
Bolts secured? X yes ___ no Replaced? ___ yes X no
Surface Seal? X yes ___ no Replaced? ___ yes X no

0.2 PID
— Vacuum
953 Sample Collection Time

GROUNDWATER COLLECTION LOG

CARDNO ATC
7115 AMIGO STREET, SUITE 100
LAS VEGAS, NEVADA 89119
(702) 990-9300 (702) 990-9305 fax

MW-53

Project Name: Maryland Square
Project Number: 085.42620.0001
Sampler's Name: NBA

Well ID: MW-37
Sample ID: MW-37
Date: 11/11/13

Purging Equipment: Low Flow Bladder Pump
Sampling Equipment: Low Flow Bladder Pump

Casing Type: PVC
Casing Diameter: 4 inch
Depth to Well Bottom: 37.03 feet
Depth to Water: 19.79 feet 3Q13:19.80
Constructed Screen Interval 17 feet to 38 feet
Approximate Pump Depth 29.0 Feet bgs 28.5 Feet btoc

2" = 0.16 gal/lin ft.
3" = 0.37 gal/lin ft.
4" = 0.67 gal/lin ft.

Comments:

Purged (gal.)	Time	Temp. (°C)	Conductance (mS/cm)	TDS (g/L)	DO (mg/L)	pH (SU)	ORP (mV)	Water Description: Color, Turbidity, Sheen, Etc.
.25	1046	21.51	4.024	2.617	4.59	6.64	354.6	clear, No Odor, T 7.43 NBA
.5	1051	21.54	4.029	2.619	4.29	6.47	349.5	" , " , T 9.10 NBA
.75	1056	21.50	4.027	2.618	4.23	6.46	340.6	" , " , T 7.04 NBA
1.0	1101	21.62	4.025	2.616	4.21	6.47	338.7	" , " , T 7.10 NBA
1.25	1106	21.74	4.029	2.617	4.20	6.47	336.4	" , " , T 7.20 NBA
1.5	1111	21.71	4.024	2.617	4.23	6.46	334.8	" , " , T 7.20 NBA

Total Water Volume Purged: 1.5 Gallons = N/A Well Volumes
Purged Dry (Y/N): N
Comments: N/A

Well Security:
Locking cap? X yes ___ no Replaced? ___ yes X no 0.0 PID
Bolts secured? X yes ___ no Replaced? ___ yes X no — Vacuum
Surface Seal? X yes ___ no Replaced? ___ yes X no 1114 Sample Collection Time

GROUNDWATER COLLECTION LOG

151

CARDNO ATC
7115 AMIGO STREET, SUITE 100
LAS VEGAS, NEVADA 89119
(702) 990-9300 (702) 990-9305 fax

Project Name: Maryland Square
Project Number: 085.42620.0001
Sampler's Name: VC/K

Well ID: MW-38
Sample ID: MW-38
Date: 11/11/13

Purging Equipment: Low Flow Bladder Pump
Sampling Equipment: Low Flow Bladder Pump

Casing Type: PVC
Casing Diameter: 2 inch
Depth to Well Bottom: 34.93 feet
Depth to Water: 14.97 feet 3Q13:14.75
Constructed Screen Interval 15 feet to 36 feet
Approximate Pump Depth 25.5 Feet bgs 25 Feet btoc

2" = 0.16 gal/lin ft.
3" = 0.37 gal/lin ft.
4" = 0.67 gal/lin ft.

Comments: Bottom soft when tinking TD

Purged (gal.)	Time	Temp. (°C)	Conductance (mS/cm)	TDS (g/L)	DO (mg/L)	pH (SU)	ORP (mV)	Water Description: Color, Turbidity, Sheen, Etc.	
.25	1000	21.83	4.226	2.747	3.86	6.69	378.0	clear, No Odor, T21.7	NTU
.5	1005	22.15	4.223	2.745	3.33	6.46	361.4	" , " , T35.1	NTU
.75	1010	22.21	4.225	2.746	3.38	6.48	358.0	" , " , T26.4	NTU
1.0	1015	22.17	4.224	2.745	3.33	6.48	357.5	" , " , T21.6	NTU
1.25	1020	22.33	4.224	2.746	3.34	6.48	356.2	" , " , T19.14	NTU

Total Water Volume Purged: 1.25 Gallons = N/A Well Volumes
Purged Dry (Y/N): N
Comments: N/A

Well Security:
Locking cap? X yes ___ no — Replaced? ___ yes X no — 0.0 PID
Bolts secured? X yes ___ no — Replaced? ___ yes X no — — Vacuum
Surface Seal? X yes ___ no — Replaced? ___ yes X no — 1023 Sample Collection Time

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Shaping the Future

GROUNDWATER COLLECTION LOG

CARDNO ATC
7115 AMIGO STREET, SUITE 100
LAS VEGAS, NEVADA 89119
(702) 990-9300 (702) 990-9305 fax

1259

Project Name: Maryland Square
Project Number: 085.42620.0001
Sampler's Name: WBA

Well ID: MW-39
Sample ID: MW-39
Date: 11/14/13

Purging Equipment: Low Flow Bladder Pump
Sampling Equipment: Low Flow Bladder Pump

Casing Type: PVC
Casing Diameter: 2 inch
Depth to Well Bottom: 37.95 feet
Depth to Water: 26.01 feet 3Q13:26.34
Constructed Screen Interval 15 feet to 36 feet
Approximate Pump Depth 32.5 Feet bgs 32 Feet btoc

2" = 0.16 gal/lin ft.
3" = 0.37 gal/lin ft.
4" = 0.67 gal/lin ft.

Comments: N/A

Purged (gal.)	Time	Temp. (°C)	Conductance (mS/cm)	TDS (g/L)	DO (mg/L)	pH (SU)	ORP (mV)	Water Description: Color, Turbidity, Sheen, Etc.
.25	1341	26.94	3.886	2.526	2.47	6.81	154.3	Sl. Turbid, Moderate, T131 NTH
.5	1346	26.94	3.880	2.523	1.55	6.73	155.3	Sl. Turbid, " , T 196 NTH
.75	1351	26.47	3.880	2.522	1.50	6.72	157.6	" , " , T 140 NTH
1.0	1356	26.52	3.879	2.522	1.49	6.72	157.1	" , " , T 139 NTH
1.25	1401	26.36	3.879	2.521	1.39	6.72	156.8	" , " , T 133 NTH

Total Water Volume Purged: 1.25 Gallons = N/A Well Volumes
Purged Dry (Y/N): N
Comments: N/A

Well Security: Locking cap? X yes ___ no Replaced? ___ yes X no 0.5 PID
Bolts secured? X yes ___ no Replaced? ___ yes X no — Vacuum
Surface Seal? X yes ___ no Replaced? ___ yes X no 1404 Sample Collection Time

GROUNDWATER COLLECTION LOG

CARDNO ATC
7115 AMIGO STREET, SUITE 100
LAS VEGAS, NEVADA 89119
(702) 990-9300 (702) 990-9305 fax

Project Name: Maryland Square
Project Number: 085.42620.0001
Sampler's Name: DK / PDD

Well ID: MW-40 CMT 30
Sample ID: MW-40 CMT 30
Date: 11-6-13 9:30A

Purging Equipment: Low Flow Bladder Pump
Sampling Equipment: Low Flow Bladder Pump

Casing Type: PVC
Casing Diameter: ____ inch
Depth to Well Bottom: 29.73 feet
Depth to Water: 26.35 feet 3Q13:26.71
Constructed Screen Interval 30 feet to 30.6 feet
Approximate Pump Depth ____ Feet bgs 30.25 Feet btoc

2" = 0.16 gal/lin ft.
3" = 0.37 gal/lin ft.
4" = 0.67 gal/lin ft.

Comments:

Purged (gal.)	Time	Temp. (°C)	Conductance (mS/cm)	TDS (g/L)	DO (mg/L)	pH (SU)	ORP (mV)	Water Description: Color, Turbidity, Sheen, Etc.
—	940	20.26	2.989	1.944	3.00	7.60	91.3	Sl. turbid, No odor
—	950	20.25	2.990	1.947	2.95	7.61	91.2	Sl. turbid No odor T:9.76
—	1000	20.27	2.990	1.946	2.97	7.61	91.0	Clear, No odor
—	1010	20.27	2.988	1.945	2.96	7.60	91.1	Clear, No odor T:9.63
—	1020	20.28	2.985	1.946	2.97	7.61	90.9	Clear, No odor T:9.60

Total Water Volume Purged: 1 Liter Air Gallons = N/A Well Volumes
Purged Dry (Y/N): N
Comments:

Well Security:
Locking cap? X yes ____ no Replaced? ____ yes X no 0.1 PID
Bolts secured? X yes ____ no Replaced? ____ yes X no N/A Vacuum
Surface Seal? X yes ____ no Replaced? ____ yes X no 1032 Sample Collection Time

Permang. 0.0

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GROUNDWATER COLLECTION LOG

CARDNO ATC
7115 AMIGO STREET, SUITE 100
LAS VEGAS, NEVADA 89119
(702) 990-9300 (702) 990-9305 fax

Project Name: Maryland Square
Project Number: 085.42620.0001
Sampler's Name: DK, PJD

Well ID: MW-40 CMT 35
Sample ID: MW-40 CMT 35
Date: 11-6-13

Purging Equipment: Low Flow Bladder Pump
Sampling Equipment: Low Flow Bladder Pump

Casing Type: PVC
Casing Diameter: _____ inch
Depth to Well Bottom: 34.97 feet
Depth to Water: 26.20 feet 3Q13:26.71
Constructed Screen Interval 35 feet to 35.6 feet
Approximate Pump Depth _____ Feet bgs _____ Feet btoc

2" = 0.16 gal/lin ft.
3" = 0.37 gal/lin ft.
4" = 0.67 gal/lin ft.

Comments:

Purged (gal.)	Time	Temp. (°C)	Conductance (mS/cm)	TDS (g/L)	DO (mg/L)	pH (SU)	ORP (mV)	Water Description: Color, Turbidity, Sheen, Etc.
—	1047	23.23	2.368	1.542	2.11	6.51	98.7	Clear, No odor T.1044
—	1052	23.24	2.367	1.605	1.70	6.49	98.5	Clear, No odor
—	1057	23.24	2.366	1.607	1.68	6.47	98.4	Clear, NO odor/T.1053
—	1102	23.26	2.366	1.609	1.69	6.48	98.2	Clear, NO odor
—	1107	23.26	2.367	1.611	1.67	6.50	98.3	Clear, NO odor/T.1132

Total Water Volume Purged: 1 ~~Gallons~~ 2 liter MK
Purged Dry (Y/N): N
N/A Well Volumes
Comments:

Well Security:
Locking cap? X yes ____ no Replaced? ____ yes X no
Bolts secured? X yes ____ no Replaced? ____ yes X no
Surface Seal? X yes ____ no Replaced? ____ yes X no

1.1 PID
N/A Vacuum
1105 Sample Collection Time

Duplicate: D.D

GROUNDWATER COLLECTION LOG

CARDNO ATC
7115 AMIGO STREET, SUITE 100
LAS VEGAS, NEVADA 89119
(702) 990-9300 (702) 990-9305 fax

Project Name: Maryland Square
Project Number: 085.42620.0001
Sampler's Name: DK - POD

Well ID: MW-40 CMT 40
Sample ID: MW-40 CMT 40
Date: 11-6-13

Purging Equipment: Low Flow Bladder Pump
Sampling Equipment: Low Flow Bladder Pump

Casing Type: PVC
Casing Diameter: ____ inch
Depth to Well Bottom: 39.95 feet
Depth to Water: 26.19 feet 3Q13:26.69
Constructed Screen Interval 40 feet to 40.6 feet
Approximate Pump Depth ____ Feet bgs 40.25 Feet btoc

2" = 0.16 gal/lin ft.
3" = 0.37 gal/lin ft.
4" = 0.67 gal/lin ft.

Comments:

Purged (gal.)	Time	Temp. (°C)	Conductance (mS/cm)	TDS (g/L)	DO (mg/L)	pH (SU)	ORP (mV)	Water Description: Color, Turbidity, Sheen, Etc.
	1250	25.59	2.330	1.497	3.62	6.44	37.5	Sl. turbid, No odor T: 247
	1255	26.07	2.354	1.499	3.51	6.39	37.6	Sl. turbid, no odor
	1300	26.87	2.347	1.503	3.53	6.36	38.1	Sl. turbid, No odor T: 244
	1305	26.74	2.344	1.505	3.56	6.39	38.3	Sl. turbid, no odor T: 236
	1310	26.72	2.348	1.506	3.54	6.39	38.4	Sl. turbid, No odor T: 238

Total Water Volume Purged: ____ Liter Gallons = N/A Well Volumes
Purged Dry (Y/N): N
Comments: Turbidity stabilized within 10% over 3 readings.

Well Security:
Locking cap? X yes ____ no Replaced? ____ yes X no
Bolts secured? X yes ____ no Replaced? ____ yes X no
Surface Seal? X yes ____ no Replaced? ____ yes X no

.9 PID
N/A Vacuum
1320 Sample Collection Time

Permeant: 0.0

GROUNDWATER COLLECTION LOG

CARDNO ATC
7115 AMIGO STREET, SUITE 100
LAS VEGAS, NEVADA 89119
(702) 990-9300 (702) 990-9305 fax

Project Name: Maryland Square
Project Number: 085.42620.0001
Sampler's Name: DK/PJD

Well ID: MW-40 CMT 45
Sample ID: MW-40 CMT 45
Date: 11.6.13

Purging Equipment: Low Flow Bladder Pump
Sampling Equipment: Low Flow Bladder Pump

Casing Type: PVC
Casing Diameter: ____ inch
Depth to Well Bottom: 44.91 feet
Depth to Water: 26.16 feet 3Q13:26.66
Constructed Screen Interval 45 feet to 45.6 feet
Approximate Pump Depth ____ Feet bgs 45.25 Feet btoc

2" = 0.16 gal/lin ft.
3" = 0.37 gal/lin ft.
4" = 0.67 gal/lin ft.

Comments:

Purged (gal.)	Time	Temp. (°C)	Conductance (mS/cm)	TDS (g/L)	DO (mg/L)	pH (SU)	ORP (mV)	Water Description: Color, Turbidity, Sheen, Etc.
	1424	26.38	2.588	1.638	3.15	6.39	77.6	Sl. turbidity, no odor T: 18.50
	1429	26.53	2.581	1.630	3.05	6.24	82.0	clear, no odor
	1434	26.54	2.582	1.630	3.04	6.25	82.2	clear, no odor T: 17.31
	1439	26.58	2.583	1.630	3.02	6.23	82.3	clear, no odor
	1444	26.60	2.581	1.633	3.	6.26	82.1	clear, no odor T: 15.02

Total Water Volume Purged: 1 ~~Gallons~~ liter A.K = N/A Well Volumes
Purged Dry (Y/N): N
Comments:

Well Security:
Locking cap? X yes ____ no Replaced? ____ yes X no
Bolts secured? X yes ____ no Replaced? ____ yes X no
Surface Seal? X yes ____ no Replaced? ____ yes X no

1.0 PID
N/A Vacuum
1450 Sample Collection Time

GROUNDWATER COLLECTION LOG

CARDNO ATC
7115 AMIGO STREET, SUITE 100
LAS VEGAS, NEVADA 89119
(702) 990-9300 (702) 990-9305 fax

Project Name: Maryland Square
Project Number: 085.42620.0001
Sampler's Name: DK - PDD

Well ID: MW-40 CMT 50
Sample ID: MW-40 CMT 50
Date: 11.6.13

Purging Equipment: Low Flow Bladder Pump
Sampling Equipment: Low Flow Bladder Pump

Casing Type: PVC
Casing Diameter: ____ inch
Depth to Well Bottom: 49.85 feet
Depth to Water: 26.15 feet 3Q13:26.63
Constructed Screen Interval 50 feet to 50.6 feet
Approximate Pump Depth ____ Feet bgs 50.25 Feet btoc

2" = 0.16 gal/lin ft.
3" = 0.37 gal/lin ft.
4" = 0.67 gal/lin ft.

Comments:

Purged (gal.)	Time	Temp. (°C)	Conductance (mS/cm)	TDS (g/L)	DO (mg/L)	pH (SU)	ORP (mV)	Water Description: Color, Turbidity, Sheen, Etc.
—	1205	27.18	2.335	1.457	1.62	6.57	3.6	Clear, No odor T: 23.6
—	1210	25.73	2.443	1.566	1.55	6.56	23.5	Clear, No odor
—	1215	25.77	2.472	1.569	1.53	6.53	26.9	Clear, No odor T: 12.86
—	1220	25.73	2.476	1.571	1.54	6.52	28.3	Clear, No odor
—	1225	25.67	2.474	1.572	1.53	6.53	28.6	Clear, No odor

Total Water Volume Purged: 1 liter Air ~~Gallons~~ = N/A Well Volumes
Purged Dry (Y/N): ____
Comments:

Well Security:
Locking cap? X yes ____ no — Replaced? ____ yes X no — 1.3 PID
Bolts secured? X yes ____ no — Replaced? ____ yes X no — N/A Vacuum
Surface Seal? X yes ____ no — Replaced? ____ yes X no — 1230 Sample Collection Time

Remarks: 0-0

Cardno ATC
Shaping the Future

GROUNDWATER COLLECTION LOG

CARDNO ATC
7115 AMIGO STREET, SUITE 100
LAS VEGAS, NEVADA 89119
(702) 990-9300 (702) 990-9305 fax

Project Name: Maryland Square
Project Number: 085.42620.0001
Sampler's Name: DK - DOD

Well ID: MW-40 CMT 55
Sample ID: MW-40 CMT 55
Date: 11.6.13

Purging Equipment: Low Flow Bladder Pump
Sampling Equipment: Low Flow Bladder Pump

Casing Type: PVC
Casing Diameter: ____ inch
Depth to Well Bottom: 54.79 feet
Depth to Water: 26.15 feet 3Q13:26.61
Constructed Screen Interval 55 feet to 55.6 feet
Approximate Pump Depth ____ Feet bgs 55.25 Feet btoc

2" = 0.16 gal/lin ft.
3" = 0.37 gal/lin ft.
4" = 0.67 gal/lin ft.

Comments:

Purged (gal.)	Time	Temp. (°C)	Conductance (mS/cm)	TDS (g/L)	DO (mg/L)	pH (SU)	ORP (mV)	Water Description: Color, Turbidity, Sheen, Etc.
—	1331	27.12	2.240	1.399	3.14	6.36	35.8	slsilty, NO odor T: 28.9
—	1336	26.94	2.337	1.402	3.12	6.22	37.3	sl.silty, NO odor
—	1341	26.93	2.334	1.400	3.10	6.19	37.6	Clear, NO odor T: 24.3
—	1346	26.87	2.333	1.404	3.08	6.22	37.6	Clear, NO odor
—	1351	26.89	2.335	1.406	3.11	6.23	37.8	Clear, NO oder T: 17.23

Total Water Volume Purged: 1 Gallons = 1 liter A.K
Purged Dry (Y/N): ____
N/A Well Volumes
Comments:

Well Security:
Locking cap? X yes ____ no Replaced? ____ yes X no
Bolts secured? X yes ____ no Replaced? ____ yes X no
Surface Seal? X yes ____ no Replaced? ____ yes X no

1.4 PID
____ Vacuum
1400 Sample Collection Time

Permeng: 0.0

GROUNDWATER COLLECTION LOG

CARDNO ATC
7115 AMIGO STREET, SUITE 100
LAS VEGAS, NEVADA 89119
(702) 990-9300 (702) 990-9305 fax

Project Name: Maryland Square
Project Number: 085.42620.0001
Sampler's Name: DK PD

Well ID: MW-40 CMT 60
Sample ID: MW-40 CMT 60
Date: 11.6.13

Purging Equipment: Low Flow Bladder Pump
Sampling Equipment: Low Flow Bladder Pump

Casing Type: PVC
Casing Diameter: _____ inch
Depth to Well Bottom: 59.82 feet
Depth to Water: 26.16 feet 3Q13:26.62
Constructed Screen Interval 60 feet to 60.6 feet
Approximate Pump Depth _____ Feet bgs _____ Feet btoc

2" = 0.16 gal/lin ft.
3" = 0.37 gal/lin ft.
4" = 0.67 gal/lin ft.

Comments: _____

Purged (gal.)	Time	Temp. (°C)	Conductance (mS/cm)	TDS (g/L)	DO (mg/L)	pH (SU)	ORP (mV)	Water Description: Color, Turbidity, Sheen, Etc.
—	1105	21.96	0.980	0.676	2.10	6.01	-92.4	Turbid, no odor T-701
—	1110	22.14	0.997	0.663	1.69	5.87	-78.1	Turbid, no odor
—	1115	22.17	0.999	0.659	1.67	5.86	-78.4	Turbid, no odor T.638
—	1120	22.20	1.007	0.655	1.64	5.87	-78.3	Turbid, no odor
—	1125	22.19	1.003	0.654	1.66	5.80	-78.5	Turbid, no odor T.626
—	1130	22.22	1.005	0.653	1.65	5.89	-78.4	Turbid, no odor T.619

Total Water Volume Purged: 1 liter Gallons = N/A Well Volumes
Purged Dry (Y/N): _____
Comments: Very Turbidity was stable w/ 10% var in 20 min

Well Security:
Locking cap? Y yes ____ no Replaced? ____ yes ____ no 1.6 PID
Bolts secured? Y yes ____ no Replaced? ____ yes ____ no ____ Vacuum
Surface Seal? Y yes ____ no Replaced? ____ yes ____ no ____ Sample Collection Time

Cardno ATC
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GROUNDWATER COLLECTION LOG

908

CARDNO ATC
7115 AMIGO STREET, SUITE 100
LAS VEGAS, NEVADA 89119
(702) 990-9300 (702) 990-9305 fax

Project Name: Maryland Square
Project Number: 085.42620.0001
Sampler's Name: NBA

Well ID: MW-41
Sample ID: MW-41
Date: 11/11/13

Purging Equipment: Low Flow Bladder Pump
Sampling Equipment: Low Flow Bladder Pump

Casing Type: PVC
Casing Diameter: 2 inch
Depth to Well Bottom: 35.27 feet
Depth to Water: 15.05 feet 3Q13:14.81
Constructed Screen Interval 10 feet to 35 feet
Approximate Pump Depth 25.5 Feet bgs 25 Feet btoc

2" = 0.16 gal/lin ft.
3" = 0.37 gal/lin ft.
4" = 0.67 gal/lin ft.

Comments: N/A

Purged (gal.)	Time	Temp. (°C)	Conductance (mS/cm)	TDS (g/L)	DO (mg/L)	pH (SU)	ORP (mV)	Water Description: Color, Turbidity, Sheen, Etc.	
.25	~~21.55~~ 910	~~3.869~~ 21.55	~~21.55~~ 3.869	2.158	2.30	6.65	357.6	sl. Turbid, No Odor, T 213	NTU
.5	915	21.71	3.868	2.157	1.23	6.66	355.5	" , " , T 207	NTU
.75	920	21.53	3.867	2.157	1.13	6.66	356.5	" , " , T 220	NTU
1.0	925	21.27	3.867	2.157	1.13	6.65	358.3	" , " , T 223	NTU
1.25	930	21.52	3.867	2.156	1.12	6.65	360.3	" , " , T 242	NTU
1.5	935	21.40	3.867	2.156	1.12	6.65	360.0	" , " , T 239	NTU

Total Water Volume Purged: 1.50 Gallons = N/A Well Volumes
Purged Dry (Y/N): N
Comments: N/A

Well Security: Locking cap? X yes ___ no Replaced? ___ yes X no
Bolts secured? X yes ___ no Replaced? ___ yes X no
Surface Seal? X yes ___ no Replaced? ___ yes X no

0.0 PID
— Vacuum
938 Sample Collection Time

GROUNDWATER COLLECTION LOG

CARDNO ATC
7115 AMIGO STREET, SUITE 100
LAS VEGAS, NEVADA 89119
(702) 990-9300 (702) 990-9305 fax

4\12

Project Name: Maryland Square
Project Number: 085.42620.0001
Sampler's Name: NBA

Well ID: MW-42
Sample ID: MW-42
Date: 11/11/13

Purging Equipment: Low Flow Bladder Pump
Sampling Equipment: Low Flow Bladder Pump

Casing Type: PVC
Casing Diameter: 2 inch
Depth to Well Bottom: 35.23 feet
Depth to Water: 16.32 feet 3Q13:16.16
Constructed Screen Interval 10 feet to 35 feet
Approximate Pump Depth 26.5 Feet bgs 26.0 Feet btoc

2" = 0.16 gal/lin ft.
3" = 0.37 gal/lin ft.
4" = 0.67 gal/lin ft.

Comments: N/A

Purged (gal.)	Time	Temp. (°C)	Conductance (mS/cm)	TDS (g/L)	DO (mg/L)	pH (SU)	ORP (mV)	Water Description: Color, Turbidity, Sheen, Etc.
.25	823	20.36	4.272	2.776	2.77	6.95	352.0	slt. turbid, No Odor, T 2.9 NTU
.5	828	21.03	4.292	2.790	2.55	6.99	337.5	S. turbid, " , T 14.1 NTU
.75	833	21.35	4.293	2.791	2.28	6.98	331.0	clear, " , T 47.5 NTU
1.0	838	21.57	4.292	2.790	2.27	6.98	330.6	" , " T 31.3 NTU
1.25	843	21.81	4.292	2.790	2.13	6.98	326.4	" , " T 29.4 NTU

Total Water Volume Purged: 1.25 Gallons = N/A Well Volumes
Purged Dry (Y/N): N
Comments: N/A

Well Security:
Locking cap? X yes ___ no Replaced? ___ yes X no 0.0 PID
Bolts secured? X yes ___ no Replaced? ___ yes X no ~ Vacuum
Surface Seal? X yes ___ no Replaced? ___ yes X no 846 Sample Collection Time

GROUNDWATER COLLECTION LOG

CARDNO ATC
7115 AMIGO STREET, SUITE 100
LAS VEGAS, NEVADA 89119
(702) 990-9300 (702) 990-9305 fax

Project Name: Maryland Square
Project Number: 085.42620.0001
Sampler's Name: KBA

Well ID: MW-43
Sample ID: MW-43
Date: 11/8/13

Purging Equipment: Low Flow Bladder Pump
Sampling Equipment: Low Flow Bladder Pump

Casing Type: PVC
Casing Diameter: 2 inch
Depth to Well Bottom: 35.26 feet
Depth to Water: 16.96 feet 3Q13:17.14
Constructed Screen Interval 10 feet to 35 feet
Approximate Pump Depth 26.5 Feet bgs 26 Feet btoc

2" = 0.16 gal/lin ft.
3" = 0.37 gal/lin ft.
4" = 0.67 gal/lin ft.

Comments: N/A

Purged (gal.)	Time	Temp. (°C)	Conductance (mS/cm)	TDS (g/L)	DO (mg/L)	pH (SU)	ORP (mV)	Water Description: Color, Turbidity, Sheen, Etc.
.25	918	21.79	3.546	2.306	2.24	7.06	175.4	Turbid, No Odor 222 NTU
.5	923	21.42	3.555	2.310	2.18	7.03	158.5	" " 157 NTU
.75	928	22.67	3.554	2.310	2.19	7.03	145.6	" " 156 NTU
1.0	933	22.56	3.554	2.310	2.14	7.03	141.3	" " 171 NTU
1.25	938	22.74	3.554	2.311	2.17	7.04	135.5	" " 168 NTU
1.5	943	22.87	3.555	2.311	2.16	7.03	138.2	" " 163 NTU

Total Water Volume Purged: 1.5 Gallons = N/A Well Volumes
Purged Dry (Y/N): N
Comments: N/A

Well Security:
Locking cap? Y yes ___ no — Replaced? ___ yes N no — 0.0 PID
Bolts secured? Y yes ___ no — Replaced? ___ yes N no — — Vacuum
Surface Seal? Y yes ___ no — Replaced? ___ yes N no — 945 Sample Collection Time

Maryland Square PCE Site

APPENDIX B
LABORATORY ANALYTICAL REPORTS

Cardno ATC
Shaping the Future

November 21, 2013

Andrew Stuart
Cardno ATC
7115 Amigo Street Suite 100
Las Vegas, NV 89119
TEL: (702) 990-9300
FAX:

CA-ELAP No.: 2676
NV Cert. No.: NV-009222007A

Workorder No.: N011443

RE: Maryland Square, 085.42620.0001

Attention: Andrew Stuart

Enclosed are the results for sample(s) received on November 12, 2013 by Advanced Technology Laboratories, Inc. . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

I hereby certify that all laboratory analysis requested were performed by Nevada Division of Environmental Protection-certified laboratory for the parameters and matrices reported herein.

Thank you for the opportunity to service the needs of your company.Please feel free to call me at (702) 307-2659 if I can be of further assistance to your company.

Sincerely,

Jose Tenorio Jr.
Laboratory Director

CLIENT: Cardno ATC
Project: Maryland Square, 085.42620.0001
Lab Order: N011443

CASE NARRATIVE

SAMPLE RECEIVING/GENERAL COMMENTS:

Samples were received intact with proper chain of custody documentation.

Cooler temperature and sample preservation were verified upon receipt of samples if applicable.

Information on sample receipt conditions including discrepancies can be found in attached Sample Receipt Checklist Form.

Samples were analyzed within method holding time.

Sample N011443-021C (MW-19I) was not analyzed for hexavalend chromium due to color of sample that might interfere with the analysis.

Advanced Technology Laboratories, Inc. *3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691*

Advanced Technology Laboratories, Inc.

Date: *21-Nov-13*

CLIENT: Cardno ATC
Project: Maryland Square, 085.42620.0001
Lab Order: N011443
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N011443-001A	MW-1	Groundwater	11/4/2013 2:48:00 PM	11/12/2013	11/21/2013
N011443-002A	MW-2	Groundwater	11/5/2013 8:47:00 AM	11/12/2013	11/21/2013
N011443-003A	MW-5	Groundwater	11/5/2013 9:53:00 AM	11/12/2013	11/21/2013
N011443-004A	MW-5 Dup	Groundwater	11/5/2013 9:53:00 AM	11/12/2013	11/21/2013
N011443-005A	MW-6	Groundwater	11/5/2013 11:31:00 AM	11/12/2013	11/21/2013
N011443-006A	MW-6D1	Groundwater	11/6/2013 10:12:00 AM	11/12/2013	11/21/2013
N011443-007A	MW-6D1 Dup	Groundwater	11/6/2013 10:12:00 AM	11/12/2013	11/21/2013
N011443-008A	MW-6D2	Groundwater	11/6/2013 9:30:00 AM	11/12/2013	11/21/2013
N011443-009A	MW-6D3	Groundwater	11/6/2013 9:38:00 AM	11/12/2013	11/21/2013
N011443-010A	MW-7	Groundwater	11/4/2013 12:23:00 PM	11/12/2013	11/21/2013
N011443-011A	MW-8	Groundwater	11/4/2013 10:48:00 AM	11/12/2013	11/21/2013
N011443-012A	MW-9	Groundwater	11/4/2013 11:37:00 AM	11/12/2013	11/21/2013
N011443-013A	MW-9 Dup	Groundwater	11/4/2013 11:37:00 AM	11/12/2013	11/21/2013
N011443-014A	MW-12	Groundwater	11/4/2013 9:50:00 AM	11/12/2013	11/21/2013
N011443-015A	MW-13	Groundwater	11/5/2013 9:21:00 AM	11/12/2013	11/21/2013
N011443-016A	MW-14	Groundwater	11/5/2013 10:36:00 AM	11/12/2013	11/21/2013
N011443-017A	MW-14I	Groundwater	11/5/2013 12:37:00 PM	11/12/2013	11/21/2013
N011443-018A	MW-17	Groundwater	11/4/2013 1:27:00 PM	11/12/2013	11/21/2013
N011443-019A	MW-18	Groundwater	11/12/2013 2:38:00 PM	11/12/2013	11/21/2013
N011443-020A	MW-19	Groundwater	11/7/2013 2:16:00 PM	11/12/2013	11/21/2013
N011443-020B	MW-19	Groundwater	11/7/2013 2:16:00 PM	11/12/2013	11/21/2013
N011443-020C	MW-19	Groundwater	11/7/2013 2:16:00 PM	11/12/2013	11/21/2013
N011443-021A	MW-19I	Groundwater	11/8/2013 12:03:00 PM	11/12/2013	11/21/2013
N011443-021B	MW-19I	Groundwater	11/8/2013 12:03:00 PM	11/12/2013	11/21/2013
N011443-021C	MW-19I	Groundwater	11/8/2013 12:03:00 PM	11/12/2013	11/21/2013
N011443-022A	MW-19D1	Groundwater	11/8/2013 2:00:00 PM	11/12/2013	11/21/2013
N011443-023A	MW-19D2	Groundwater	11/8/2013 10:55:00 AM	11/12/2013	11/21/2013
N011443-024A	MW-19D2 Dup	Groundwater	11/8/2013 10:55:00 AM	11/12/2013	11/21/2013
N011443-025A	MW-19D3	Groundwater	11/8/2013 1:23:00 PM	11/12/2013	11/21/2013

Advanced Technology Laboratories, Inc.
3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

CLIENT: Cardno ATC
Project: Maryland Square, 085.42620.0001
Lab Order: N011443
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N011443-026A	MW-20	Groundwater	11/7/2013 1:30:00 PM	11/12/2013	11/21/2013
N011443-026B	MW-20	Groundwater	11/7/2013 1:30:00 PM	11/12/2013	11/21/2013
N011443-026C	MW-20	Groundwater	11/7/2013 1:32:00 PM	11/12/2013	11/21/2013
N011443-027A	MW-20D1	Groundwater	11/7/2013 11:47:00 AM	11/12/2013	11/21/2013
N011443-028A	MW-20D2	Groundwater	11/7/2013 11:58:00 AM	11/12/2013	11/21/2013
N011443-029A	MW-20D3	Groundwater	11/7/2013 11:18:00 AM	11/12/2013	11/21/2013
N011443-030A	MW-23	Groundwater	11/12/2013 1:47:00 PM	11/12/2013	11/21/2013
N011443-031A	MW-25	Groundwater	11/12/2013 11:23:00 AM	11/12/2013	11/21/2013
N011443-032A	MW-32 Dup	Groundwater	11/12/2013 12:13:00 PM	11/12/2013	11/21/2013
N011443-033A	MW-26	Groundwater	11/12/2013 1:04:00 PM	11/12/2013	11/21/2013
N011443-034A	MW-27	Groundwater	11/12/2013 10:38:00 AM	11/12/2013	11/21/2013
N011443-035A	MW-30	Groundwater	11/11/2013 1:08:00 PM	11/12/2013	11/21/2013
N011443-036A	MW-31	Groundwater	11/11/2013 12:08:00 PM	11/12/2013	11/21/2013
N011443-037A	MW-32	Groundwater	11/12/2013 12:13:00 PM	11/12/2013	11/21/2013
N011443-038A	MW-33	Groundwater	11/8/2013 8:48:00 AM	11/12/2013	11/21/2013
N011443-039A	MW-34	Groundwater	11/4/2013 1:27:00 PM	11/12/2013	11/21/2013
N011443-040A	MW-35	Groundwater	11/4/2013 2:40:00 PM	11/12/2013	11/21/2013
N011443-041A	MW-36	Groundwater	11/12/2013 9:53:00 AM	11/12/2013	11/21/2013
N011443-042A	MW-37	Groundwater	11/11/2013 11:14:00 AM	11/12/2013	11/21/2013
N011443-043A	MW-38	Groundwater	11/11/2013 10:23:00 AM	11/12/2013	11/21/2013
N011443-044A	MW-38 Dup	Groundwater	11/11/2013 10:23:00 AM	11/12/2013	11/21/2013
N011443-045A	MW-39	Groundwater	11/11/2013 2:04:00 PM	11/12/2013	11/21/2013
N011443-046A	MW-40 CMT-30	Groundwater	11/6/2013 10:30:00 AM	11/12/2013	11/21/2013
N011443-046B	MW-40 CMT-30	Groundwater	11/6/2013 10:30:00 AM	11/12/2013	11/21/2013
N011443-046C	MW-40 CMT-30	Groundwater	11/6/2013 10:30:00 AM	11/12/2013	11/21/2013
N011443-047A	MW-40 CMT-35	Groundwater	11/6/2013 11:00:00 AM	11/12/2013	11/21/2013
N011443-047B	MW-40 CMT-35	Groundwater	11/6/2013 11:00:00 AM	11/12/2013	11/21/2013
N011443-047C	MW-40 CMT-35	Groundwater	11/6/2013 11:00:00 AM	11/12/2013	11/21/2013
N011443-048A	MW-40 CMT-40	Groundwater	11/6/2013 1:20:00 PM	11/12/2013	11/21/2013
N011443-048B	MW-40 CMT-40	Groundwater	11/6/2013 1:20:00 PM	11/12/2013	11/21/2013

CLIENT: Cardno ATC
Project: Maryland Square, 085.42620.0001
Lab Order: N011443
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N011443-048C	MW-40 CMT-40	Groundwater	11/6/2013 1:20:00 PM	11/12/2013	11/21/2013
N011443-049A	MW-40 CMT-45	Groundwater	11/6/2013 2:30:00 PM	11/12/2013	11/21/2013
N011443-049B	MW-40 CMT-45	Groundwater	11/6/2013 2:30:00 PM	11/12/2013	11/21/2013
N011443-049C	MW-40 CMT-45	Groundwater	11/6/2013 2:30:00 PM	11/12/2013	11/21/2013
N011443-050A	MW-40 CMT-50	Groundwater	11/6/2013 12:30:00 PM	11/12/2013	11/21/2013
N011443-050B	MW-40 CMT-50	Groundwater	11/6/2013 12:30:00 PM	11/12/2013	11/21/2013
N011443-050C	MW-40 CMT-50	Groundwater	11/6/2013 12:30:00 PM	11/12/2013	11/21/2013
N011443-051A	MW-40 CMT-55	Groundwater	11/6/2013 2:00:00 PM	11/12/2013	11/21/2013
N011443-051B	MW-40 CMT-55	Groundwater	11/6/2013 2:00:00 PM	11/12/2013	11/21/2013
N011443-051C	MW-40 CMT-55	Groundwater	11/6/2013 2:00:00 PM	11/12/2013	11/21/2013
N011443-052A	MW-40 CMT-60	Groundwater	11/6/2013 11:30:00 AM	11/12/2013	11/21/2013
N011443-052B	MW-40 CMT-60	Groundwater	11/6/2013 11:30:00 AM	11/12/2013	11/21/2013
N011443-052C	MW-40 CMT-60	Groundwater	11/6/2013 11:30:00 AM	11/12/2013	11/21/2013
N011443-053A	MW-40 CMT-60 Dup	Groundwater	11/6/2013 11:30:00 AM	11/12/2013	11/21/2013
N011443-054A	MW-41	Groundwater	11/11/2013 9:38:00 AM	11/12/2013	11/21/2013
N011443-055A	MW-42	Groundwater	11/11/2013 8:46:00 AM	11/12/2013	11/21/2013
N011443-056A	MW-43	Groundwater	11/8/2013 9:45:00 AM	11/12/2013	11/21/2013
N011443-057A	Trip Blank	Groundwater	11/4/2013 7:10:00 AM	11/12/2013	11/21/2013
N011443-058A	Field Blank	Groundwater	11/4/2013 12:25:00 PM	11/12/2013	11/21/2013
N011443-059A	Equip Rinse	Groundwater	11/4/2013 12:49:00 PM	11/12/2013	11/21/2013
N011443-060A	Trip Blank	Groundwater	11/5/2013 6:45:00 AM	11/12/2013	11/21/2013
N011443-061A	Field Blank	Groundwater	11/5/2013 10:30:00 AM	11/12/2013	11/21/2013
N011443-062A	Equip Rinse	Groundwater	11/5/2013 10:50:00 AM	11/12/2013	11/21/2013
N011443-063A	Trip Blank	Groundwater	11/6/2013 7:10:00 AM	11/12/2013	11/21/2013
N011443-064A	Field Blank	Groundwater	11/6/2013 12:35:00 PM	11/12/2013	11/21/2013
N011443-065A	Equip Rinse	Groundwater	11/6/2013 12:35:00 PM	11/12/2013	11/21/2013
N011443-066A	Trip Blank	Groundwater	11/7/2013 6:50:00 AM	11/12/2013	11/21/2013
N011443-067A	Field Blank	Groundwater	11/7/2013 11:00:00 AM	11/12/2013	11/21/2013
N011443-068A	Equip Rinse	Groundwater	11/7/2013 10:55:00 AM	11/12/2013	11/21/2013
N011443-069A	Trip Blank	Groundwater	11/8/2013 6:52:00 AM	11/12/2013	11/21/2013

CLIENT: Cardno ATC
Project: Maryland Square, 085.42620.0001
Lab Order: N011443
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N011443-070A	Field Blank	Groundwater	11/8/2013 11:30:00 AM	11/12/2013	11/21/2013
N011443-071A	Equip Rinse	Groundwater	11/8/2013 12:10:00 PM	11/12/2013	11/21/2013
N011443-072A	Trip Blank	Groundwater	11/11/2013 7:10:00 AM	11/12/2013	11/21/2013
N011443-073A	Field Blank	Groundwater	11/11/2013 10:45:00 AM	11/12/2013	11/21/2013
N011443-074A	Equip Rinse	Groundwater	11/11/2013 11:25:00 AM	11/12/2013	11/21/2013
N011443-075A	Trip Blank	Groundwater	11/12/2013 7:05:00 AM	11/12/2013	11/21/2013
N011443-076A	Field Blank	Groundwater	11/12/2013 12:05:00 PM	11/12/2013	11/21/2013
N011443-077A	Equip Rinse	Groundwater	11/12/2013 12:20:00 PM	11/12/2013	11/21/2013
N011443-078A	MW-19D3 HV	Groundwater	11/8/2013 5:15:00 PM	11/12/2013	11/21/2013

CLIENT: Cardno ATC
Lab Order: N011443
Project: Maryland Square, 085.42620.0001
Lab ID: N011443-001

Client Sample ID: MW-1
Collection Date: 11/4/2013 2:48:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS5_131114A**	QC Batch: **P13VW180**			PrepDate:			Analyst: **QBM**
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	11/14/2013 08:19 PM
cis-1,2-Dichloroethene	ND	0.057	0.50		µg/L	1	11/14/2013 08:19 PM
Tetrachloroethene	270	1.2	5.0		µg/L	10	11/15/2013 01:30 PM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	11/14/2013 08:19 PM
Trichloroethene	ND	0.075	0.50		µg/L	1	11/14/2013 08:19 PM
Vinyl chloride	ND	0.082	0.50		µg/L	1	11/14/2013 08:19 PM
Surr: 1,2-Dichloroethane-d4	108	0	70-127		%REC	10	11/15/2013 01:30 PM
Surr: 1,2-Dichloroethane-d4	105	0	70-127		%REC	1	11/14/2013 08:19 PM
Surr: 4-Bromofluorobenzene	99.6	0	80-120		%REC	10	11/15/2013 01:30 PM
Surr: 4-Bromofluorobenzene	101	0	80-120		%REC	1	11/14/2013 08:19 PM
Surr: Dibromofluoromethane	110	0	73-128		%REC	10	11/15/2013 01:30 PM
Surr: Dibromofluoromethane	110	0	73-128		%REC	1	11/14/2013 08:19 PM
Surr: Toluene-d8	102	0	80-120		%REC	10	11/15/2013 01:30 PM
Surr: Toluene-d8	102	0	80-120		%REC	1	11/14/2013 08:19 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified
DO	Surrogate Diluted Out

CLIENT: Cardno ATC
Lab Order: N011443
Project: Maryland Square, 085.42620.0001
Lab ID: N011443-002

Client Sample ID: MW-2
Collection Date: 11/5/2013 8:47:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS5_131116A**	QC Batch: **P13VW182**			PrepDate:			Analyst: **QBM**
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	11/16/2013 06:31 PM
cis-1,2-Dichloroethene	0.91	0.057	0.50		µg/L	1	11/16/2013 06:31 PM
Tetrachloroethene	720	2.3	10		µg/L	20	11/18/2013 08:05 PM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	11/16/2013 06:31 PM
Trichloroethene	2.3	0.075	0.50		µg/L	1	11/16/2013 06:31 PM
Vinyl chloride	ND	0.082	0.50		µg/L	1	11/16/2013 06:31 PM
Surr: 1,2-Dichloroethane-d4	100	0	70-127		%REC	20	11/18/2013 08:05 PM
Surr: 1,2-Dichloroethane-d4	107	0	70-127		%REC	1	11/16/2013 06:31 PM
Surr: 4-Bromofluorobenzene	101	0	80-120		%REC	20	11/18/2013 08:05 PM
Surr: 4-Bromofluorobenzene	101	0	80-120		%REC	1	11/16/2013 06:31 PM
Surr: Dibromofluoromethane	102	0	73-128		%REC	20	11/18/2013 08:05 PM
Surr: Dibromofluoromethane	111	0	73-128		%REC	1	11/16/2013 06:31 PM
Surr: Toluene-d8	102	0	80-120		%REC	20	11/18/2013 08:05 PM
Surr: Toluene-d8	102	0	80-120		%REC	1	11/16/2013 06:31 PM

CLIENT: Cardno ATC
Lab Order: N011443
Project: Maryland Square, 085.42620.0001
Lab ID: N011443-003

Client Sample ID: MW-5
Collection Date: 11/5/2013 9:53:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS5_131116A**	QC Batch: **P13VW182**			PrepDate:			Analyst: **QBM**
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	11/16/2013 06:58 PM
cis-1,2-Dichloroethene	1.2	0.057	0.50		µg/L	1	11/16/2013 06:58 PM
Tetrachloroethene	690	2.3	10		µg/L	20	11/17/2013 11:12 PM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	11/16/2013 06:58 PM
Trichloroethene	2.8	0.075	0.50		µg/L	1	11/16/2013 06:58 PM
Vinyl chloride	ND	0.082	0.50		µg/L	1	11/16/2013 06:58 PM
Surr: 1,2-Dichloroethane-d4	97.9	0	70-127		%REC	20	11/17/2013 11:12 PM
Surr: 1,2-Dichloroethane-d4	102	0	70-127		%REC	1	11/16/2013 06:58 PM
Surr: 4-Bromofluorobenzene	99.1	0	80-120		%REC	20	11/17/2013 11:12 PM
Surr: 4-Bromofluorobenzene	99.2	0	80-120		%REC	1	11/16/2013 06:58 PM
Surr: Dibromofluoromethane	103	0	73-128		%REC	20	11/17/2013 11:12 PM
Surr: Dibromofluoromethane	108	0	73-128		%REC	1	11/16/2013 06:58 PM
Surr: Toluene-d8	101	0	80-120		%REC	20	11/17/2013 11:12 PM
Surr: Toluene-d8	102	0	80-120		%REC	1	11/16/2013 06:58 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT: Cardno ATC
Lab Order: N011443
Project: Maryland Square, 085.42620.0001
Lab ID: N011443-004

Client Sample ID: MW-5 Dup
Collection Date: 11/5/2013 9:53:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS5_131116A**	QC Batch: **P13VW182**			PrepDate:			Analyst: **QBM**
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	11/16/2013 07:25 PM
cis-1,2-Dichloroethene	1.2	0.057	0.50		µg/L	1	11/16/2013 07:25 PM
Tetrachloroethene	690	2.3	10		µg/L	20	11/17/2013 11:39 PM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	11/16/2013 07:25 PM
Trichloroethene	3.0	0.075	0.50		µg/L	1	11/16/2013 07:25 PM
Vinyl chloride	ND	0.082	0.50		µg/L	1	11/16/2013 07:25 PM
Surr: 1,2-Dichloroethane-d4	102	0	70-127		%REC	20	11/17/2013 11:39 PM
Surr: 1,2-Dichloroethane-d4	105	0	70-127		%REC	1	11/16/2013 07:25 PM
Surr: 4-Bromofluorobenzene	99.0	0	80-120		%REC	20	11/17/2013 11:39 PM
Surr: 4-Bromofluorobenzene	99.8	0	80-120		%REC	1	11/16/2013 07:25 PM
Surr: Dibromofluoromethane	105	0	73-128		%REC	20	11/17/2013 11:39 PM
Surr: Dibromofluoromethane	107	0	73-128		%REC	1	11/16/2013 07:25 PM
Surr: Toluene-d8	102	0	80-120		%REC	20	11/17/2013 11:39 PM
Surr: Toluene-d8	102	0	80-120		%REC	1	11/16/2013 07:25 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT: Cardno ATC
Lab Order: N011443
Project: Maryland Square, 085.42620.0001
Lab ID: N011443-005

Client Sample ID: MW-6
Collection Date: 11/5/2013 11:31:00 AM
Matrix: GROUNDWATER

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: **MS5_131116B** QC Batch: **P13VW183** PrepDate: Analyst: **QBM**

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	11/17/2013 07:50 AM
cis-1,2-Dichloroethene	3.5	0.057	0.50		µg/L	1	11/17/2013 07:50 AM
Tetrachloroethene	3100	5.9	25		µg/L	50	11/18/2013 12:06 AM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	11/17/2013 07:50 AM
Trichloroethene	12	0.075	0.50		µg/L	1	11/17/2013 07:50 AM
Vinyl chloride	ND	0.082	0.50		µg/L	1	11/17/2013 07:50 AM
Surr: 1,2-Dichloroethane-d4	99.8	0	70-127		%REC	50	11/18/2013 12:06 AM
Surr: 1,2-Dichloroethane-d4	101	0	70-127		%REC	1	11/17/2013 07:50 AM
Surr: 4-Bromofluorobenzene	98.3	0	80-120		%REC	50	11/18/2013 12:06 AM
Surr: 4-Bromofluorobenzene	97.6	0	80-120		%REC	1	11/17/2013 07:50 AM
Surr: Dibromofluoromethane	104	0	73-128		%REC	50	11/18/2013 12:06 AM
Surr: Dibromofluoromethane	105	0	73-128		%REC	1	11/17/2013 07:50 AM
Surr: Toluene-d8	103	0	80-120		%REC	50	11/18/2013 12:06 AM
Surr: Toluene-d8	101	0	80-120		%REC	1	11/17/2013 07:50 AM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT: Cardno ATC
Lab Order: N011443
Project: Maryland Square, 085.42620.0001
Lab ID: N011443-006

Client Sample ID: MW-6D1
Collection Date: 11/6/2013 10:12:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS5_131116A**	QC Batch: **P13VW182**			PrepDate:			Analyst: **QBM**
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	11/16/2013 01:02 PM
cis-1,2-Dichloroethene	ND	0.057	0.50		µg/L	1	11/16/2013 01:02 PM
Tetrachloroethene	3.2	0.12	0.50		µg/L	1	11/16/2013 01:02 PM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	11/16/2013 01:02 PM
Trichloroethene	ND	0.075	0.50		µg/L	1	11/16/2013 01:02 PM
Vinyl chloride	ND	0.082	0.50		µg/L	1	11/16/2013 01:02 PM
Surr: 1,2-Dichloroethane-d4	110	0	70-127		%REC	1	11/16/2013 01:02 PM
Surr: 4-Bromofluorobenzene	100	0	80-120		%REC	1	11/16/2013 01:02 PM
Surr: Dibromofluoromethane	111	0	73-128		%REC	1	11/16/2013 01:02 PM
Surr: Toluene-d8	103	0	80-120		%REC	1	11/16/2013 01:02 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT: Cardno ATC
Lab Order: N011443
Project: Maryland Square, 085.42620.0001
Lab ID: N011443-007

Client Sample ID: MW-6D1 Dup
Collection Date: 11/6/2013 10:12:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS5_131116A**	QC Batch: **P13VW182**			PrepDate:			Analyst: **QBM**
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	11/16/2013 12:35 PM
cis-1,2-Dichloroethene	ND	0.057	0.50		µg/L	1	11/16/2013 12:35 PM
Tetrachloroethene	3.5	0.12	0.50		µg/L	1	11/16/2013 12:35 PM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	11/16/2013 12:35 PM
Trichloroethene	ND	0.075	0.50		µg/L	1	11/16/2013 12:35 PM
Vinyl chloride	ND	0.082	0.50		µg/L	1	11/16/2013 12:35 PM
Surr: 1,2-Dichloroethane-d4	104	0	70-127		%REC	1	11/16/2013 12:35 PM
Surr: 4-Bromofluorobenzene	97.9	0	80-120		%REC	1	11/16/2013 12:35 PM
Surr: Dibromofluoromethane	108	0	73-128		%REC	1	11/16/2013 12:35 PM
Surr: Toluene-d8	100	0	80-120		%REC	1	11/16/2013 12:35 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT: Cardno ATC
Lab Order: N011443
Project: Maryland Square, 085.42620.0001
Lab ID: N011443-008

Client Sample ID: MW-6D2
Collection Date: 11/6/2013 9:30:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS5_131116A**	QC Batch: **P13VW182**			PrepDate:			Analyst: **QBM**
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	11/16/2013 12:08 PM
cis-1,2-Dichloroethene	ND	0.057	0.50		µg/L	1	11/16/2013 12:08 PM
Tetrachloroethene	3.3	0.12	0.50		µg/L	1	11/16/2013 12:08 PM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	11/16/2013 12:08 PM
Trichloroethene	ND	0.075	0.50		µg/L	1	11/16/2013 12:08 PM
Vinyl chloride	ND	0.082	0.50		µg/L	1	11/16/2013 12:08 PM
Surr: 1,2-Dichloroethane-d4	105	0	70-127		%REC	1	11/16/2013 12:08 PM
Surr: 4-Bromofluorobenzene	99.2	0	80-120		%REC	1	11/16/2013 12:08 PM
Surr: Dibromofluoromethane	109	0	73-128		%REC	1	11/16/2013 12:08 PM
Surr: Toluene-d8	100	0	80-120		%REC	1	11/16/2013 12:08 PM

CLIENT: Cardno ATC
Lab Order: N011443
Project: Maryland Square, 085.42620.0001
Lab ID: N011443-009

Client Sample ID: MW-6D3
Collection Date: 11/6/2013 9:38:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS5_131116A**	QC Batch: **P13VW182**			PrepDate:			Analyst: **QBM**
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	11/16/2013 11:40 AM
cis-1,2-Dichloroethene	ND	0.057	0.50		µg/L	1	11/16/2013 11:40 AM
Tetrachloroethene	3.0	0.12	0.50		µg/L	1	11/16/2013 11:40 AM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	11/16/2013 11:40 AM
Trichloroethene	ND	0.075	0.50		µg/L	1	11/16/2013 11:40 AM
Vinyl chloride	ND	0.082	0.50		µg/L	1	11/16/2013 11:40 AM
Surr: 1,2-Dichloroethane-d4	109	0	70-127		%REC	1	11/16/2013 11:40 AM
Surr: 4-Bromofluorobenzene	101	0	80-120		%REC	1	11/16/2013 11:40 AM
Surr: Dibromofluoromethane	109	0	73-128		%REC	1	11/16/2013 11:40 AM
Surr: Toluene-d8	101	0	80-120		%REC	1	11/16/2013 11:40 AM

CLIENT: Cardno ATC
Lab Order: N011443
Project: Maryland Square, 085.42620.0001
Lab ID: N011443-010

Client Sample ID: MW-7
Collection Date: 11/4/2013 12:23:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS5_131114A**	QC Batch: **P13VW180**			PrepDate:			Analyst: **QBM**
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	11/14/2013 06:56 PM
cis-1,2-Dichloroethene	ND	0.057	0.50		µg/L	1	11/14/2013 06:56 PM
Tetrachloroethene	8.4	0.12	0.50		µg/L	1	11/14/2013 06:56 PM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	11/14/2013 06:56 PM
Trichloroethene	ND	0.075	0.50		µg/L	1	11/14/2013 06:56 PM
Vinyl chloride	ND	0.082	0.50		µg/L	1	11/14/2013 06:56 PM
Surr: 1,2-Dichloroethane-d4	106	0	70-127		%REC	1	11/14/2013 06:56 PM
Surr: 4-Bromofluorobenzene	100	0	80-120		%REC	1	11/14/2013 06:56 PM
Surr: Dibromofluoromethane	110	0	73-128		%REC	1	11/14/2013 06:56 PM
Surr: Toluene-d8	101	0	80-120		%REC	1	11/14/2013 06:56 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT: Cardno ATC
Lab Order: N011443
Project: Maryland Square, 085.42620.0001
Lab ID: N011443-011

Client Sample ID: MW-8
Collection Date: 11/4/2013 10:48:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS5_131114A**	QC Batch: **P13VW180**			PrepDate:			Analyst: **QBM**
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	11/14/2013 05:34 PM
cis-1,2-Dichloroethene	ND	0.057	0.50		µg/L	1	11/14/2013 05:34 PM
Tetrachloroethene	2.2	0.12	0.50		µg/L	1	11/14/2013 05:34 PM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	11/14/2013 05:34 PM
Trichloroethene	ND	0.075	0.50		µg/L	1	11/14/2013 05:34 PM
Vinyl chloride	ND	0.082	0.50		µg/L	1	11/14/2013 05:34 PM
Surr: 1,2-Dichloroethane-d4	105	0	70-127		%REC	1	11/14/2013 05:34 PM
Surr: 4-Bromofluorobenzene	101	0	80-120		%REC	1	11/14/2013 05:34 PM
Surr: Dibromofluoromethane	109	0	73-128		%REC	1	11/14/2013 05:34 PM
Surr: Toluene-d8	102	0	80-120		%REC	1	11/14/2013 05:34 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT: Cardno ATC
Lab Order: N011443
Project: Maryland Square, 085.42620.0001
Lab ID: N011443-012

Client Sample ID: MW-9
Collection Date: 11/4/2013 11:37:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS5_131114A**	QC Batch: **P13VW180**			PrepDate:			Analyst: **QBM**
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	11/14/2013 06:02 PM
cis-1,2-Dichloroethene	ND	0.057	0.50		µg/L	1	11/14/2013 06:02 PM
Tetrachloroethene	11	0.12	0.50		µg/L	1	11/14/2013 06:02 PM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	11/14/2013 06:02 PM
Trichloroethene	ND	0.075	0.50		µg/L	1	11/14/2013 06:02 PM
Vinyl chloride	ND	0.082	0.50		µg/L	1	11/14/2013 06:02 PM
Surr: 1,2-Dichloroethane-d4	110	0	70-127		%REC	1	11/14/2013 06:02 PM
Surr: 4-Bromofluorobenzene	101	0	80-120		%REC	1	11/14/2013 06:02 PM
Surr: Dibromofluoromethane	110	0	73-128		%REC	1	11/14/2013 06:02 PM
Surr: Toluene-d8	102	0	80-120		%REC	1	11/14/2013 06:02 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT: Cardno ATC
Lab Order: N011443
Project: Maryland Square, 085.42620.0001
Lab ID: N011443-013

Client Sample ID: MW-9 Dup
Collection Date: 11/4/2013 11:37:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS5_131114A**	QC Batch: **P13VW180**			PrepDate:			Analyst: **QBM**
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	11/14/2013 06:29 PM
cis-1,2-Dichloroethene	ND	0.057	0.50		µg/L	1	11/14/2013 06:29 PM
Tetrachloroethene	11	0.12	0.50		µg/L	1	11/14/2013 06:29 PM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	11/14/2013 06:29 PM
Trichloroethene	ND	0.075	0.50		µg/L	1	11/14/2013 06:29 PM
Vinyl chloride	ND	0.082	0.50		µg/L	1	11/14/2013 06:29 PM
Surr: 1,2-Dichloroethane-d4	103	0	70-127		%REC	1	11/14/2013 06:29 PM
Surr: 4-Bromofluorobenzene	98.7	0	80-120		%REC	1	11/14/2013 06:29 PM
Surr: Dibromofluoromethane	108	0	73-128		%REC	1	11/14/2013 06:29 PM
Surr: Toluene-d8	99.8	0	80-120		%REC	1	11/14/2013 06:29 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified
DO	Surrogate Diluted Out

CLIENT: Cardno ATC
Lab Order: N011443
Project: Maryland Square, 085.42620.0001
Lab ID: N011443-014

Client Sample ID: MW-12
Collection Date: 11/4/2013 9:50:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS5_131114A**	QC Batch: **P13VW180**			PrepDate:			Analyst: **QBM**
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	11/14/2013 12:16 PM
cis-1,2-Dichloroethene	ND	0.057	0.50		µg/L	1	11/14/2013 12:16 PM
Tetrachloroethene	0.86	0.12	0.50		µg/L	1	11/14/2013 12:16 PM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	11/14/2013 12:16 PM
Trichloroethene	ND	0.075	0.50		µg/L	1	11/14/2013 12:16 PM
Vinyl chloride	ND	0.082	0.50		µg/L	1	11/14/2013 12:16 PM
Surr: 1,2-Dichloroethane-d4	105	0	70-127		%REC	1	11/14/2013 12:16 PM
Surr: 4-Bromofluorobenzene	99.6	0	80-120		%REC	1	11/14/2013 12:16 PM
Surr: Dibromofluoromethane	110	0	73-128		%REC	1	11/14/2013 12:16 PM
Surr: Toluene-d8	101	0	80-120		%REC	1	11/14/2013 12:16 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT: Cardno ATC
Lab Order: N011443
Project: Maryland Square, 085.42620.0001
Lab ID: N011443-015

Client Sample ID: MW-13
Collection Date: 11/5/2013 9:21:00 AM
Matrix: GROUNDWATER

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: **MS5_131116B** QC Batch: **P13VW183** PrepDate: Analyst: **QBM**

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	11/17/2013 07:22 AM
cis-1,2-Dichloroethene	ND	0.057	0.50		µg/L	1	11/17/2013 07:22 AM
Tetrachloroethene	1800	5.9	25		µg/L	50	11/18/2013 12:34 AM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	11/17/2013 07:22 AM
Trichloroethene	3.5	0.075	0.50		µg/L	1	11/17/2013 07:22 AM
Vinyl chloride	ND	0.082	0.50		µg/L	1	11/17/2013 07:22 AM
Surr: 1,2-Dichloroethane-d4	103	0	70-127		%REC	50	11/18/2013 12:34 AM
Surr: 1,2-Dichloroethane-d4	105	0	70-127		%REC	1	11/17/2013 07:22 AM
Surr: 4-Bromofluorobenzene	100	0	80-120		%REC	50	11/18/2013 12:34 AM
Surr: 4-Bromofluorobenzene	99.3	0	80-120		%REC	1	11/17/2013 07:22 AM
Surr: Dibromofluoromethane	106	0	73-128		%REC	50	11/18/2013 12:34 AM
Surr: Dibromofluoromethane	109	0	73-128		%REC	1	11/17/2013 07:22 AM
Surr: Toluene-d8	101	0	80-120		%REC	50	11/18/2013 12:34 AM
Surr: Toluene-d8	104	0	80-120		%REC	1	11/17/2013 07:22 AM

CLIENT: Cardno ATC
Lab Order: N011443
Project: Maryland Square, 085.42620.0001
Lab ID: N011443-016

Client Sample ID: MW-14
Collection Date: 11/5/2013 10:36:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS5_131116B**	QC Batch: **P13VW183**			PrepDate:			Analyst: **QBM**
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	11/17/2013 06:55 AM
cis-1,2-Dichloroethene	ND	0.057	0.50		µg/L	1	11/17/2013 06:55 AM
Tetrachloroethene	1500	5.9	25		µg/L	50	11/18/2013 01:01 AM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	11/17/2013 06:55 AM
Trichloroethene	2.7	0.075	0.50		µg/L	1	11/17/2013 06:55 AM
Vinyl chloride	ND	0.082	0.50		µg/L	1	11/17/2013 06:55 AM
Surr: 1,2-Dichloroethane-d4	101	0	70-127		%REC	50	11/18/2013 01:01 AM
Surr: 1,2-Dichloroethane-d4	102	0	70-127		%REC	1	11/17/2013 06:55 AM
Surr: 4-Bromofluorobenzene	98.4	0	80-120		%REC	50	11/18/2013 01:01 AM
Surr: 4-Bromofluorobenzene	101	0	80-120		%REC	1	11/17/2013 06:55 AM
Surr: Dibromofluoromethane	105	0	73-128		%REC	50	11/18/2013 01:01 AM
Surr: Dibromofluoromethane	106	0	73-128		%REC	1	11/17/2013 06:55 AM
Surr: Toluene-d8	103	0	80-120		%REC	50	11/18/2013 01:01 AM
Surr: Toluene-d8	103	0	80-120		%REC	1	11/17/2013 06:55 AM

CLIENT: Cardno ATC
Lab Order: N011443
Project: Maryland Square, 085.42620.0001
Lab ID: N011443-017

Client Sample ID: MW-14I
Collection Date: 11/5/2013 12:37:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS5_131116B**	QC Batch: **P13VW183**			PrepDate:			Analyst: **QBM**
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	11/17/2013 08:17 AM
cis-1,2-Dichloroethene	17	0.057	0.50		µg/L	1	11/17/2013 08:17 AM
Tetrachloroethene	10000	23	100		µg/L	200	11/18/2013 10:49 PM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	11/17/2013 08:17 AM
Trichloroethene	38	0.075	0.50		µg/L	1	11/17/2013 08:17 AM
Vinyl chloride	ND	0.082	0.50		µg/L	1	11/17/2013 08:17 AM
Surr: 1,2-Dichloroethane-d4	102	0	70-127		%REC	200	11/18/2013 10:49 PM
Surr: 1,2-Dichloroethane-d4	98.2	0	70-127		%REC	1	11/17/2013 08:17 AM
Surr: 4-Bromofluorobenzene	101	0	80-120		%REC	200	11/18/2013 10:49 PM
Surr: 4-Bromofluorobenzene	98.3	0	80-120		%REC	1	11/17/2013 08:17 AM
Surr: Dibromofluoromethane	103	0	73-128		%REC	200	11/18/2013 10:49 PM
Surr: Dibromofluoromethane	103	0	73-128		%REC	1	11/17/2013 08:17 AM
Surr: Toluene-d8	101	0	80-120		%REC	200	11/18/2013 10:49 PM
Surr: Toluene-d8	104	0	80-120		%REC	1	11/17/2013 08:17 AM

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified
DO	Surrogate Diluted Out

CLIENT: Cardno ATC
Lab Order: N011443
Project: Maryland Square, 085.42620.0001
Lab ID: N011443-018

Client Sample ID: MW-17
Collection Date: 11/4/2013 1:27:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS5_131114A**	QC Batch: **P13VW180**			PrepDate:			Analyst: **QBM**
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	11/14/2013 07:51 PM
cis-1,2-Dichloroethene	ND	0.057	0.50		µg/L	1	11/14/2013 07:51 PM
Tetrachloroethene	120	0.59	2.5		µg/L	5	11/15/2013 01:57 PM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	11/14/2013 07:51 PM
Trichloroethene	ND	0.075	0.50		µg/L	1	11/14/2013 07:51 PM
Vinyl chloride	ND	0.082	0.50		µg/L	1	11/14/2013 07:51 PM
Surr: 1,2-Dichloroethane-d4	104	0	70-127		%REC	5	11/15/2013 01:57 PM
Surr: 1,2-Dichloroethane-d4	111	0	70-127		%REC	1	11/14/2013 07:51 PM
Surr: 4-Bromofluorobenzene	99.3	0	80-120		%REC	5	11/15/2013 01:57 PM
Surr: 4-Bromofluorobenzene	101	0	80-120		%REC	1	11/14/2013 07:51 PM
Surr: Dibromofluoromethane	108	0	73-128		%REC	5	11/15/2013 01:57 PM
Surr: Dibromofluoromethane	111	0	73-128		%REC	1	11/14/2013 07:51 PM
Surr: Toluene-d8	100	0	80-120		%REC	5	11/15/2013 01:57 PM
Surr: Toluene-d8	102	0	80-120		%REC	1	11/14/2013 07:51 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT: Cardno ATC
Lab Order: N011443
Project: Maryland Square, 085.42620.0001
Lab ID: N011443-019

Client Sample ID: MW-18
Collection Date: 11/12/2013 2:38:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS5_131120A**	QC Batch: **P13VW187**			PrepDate:			Analyst: **QBM**
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	11/20/2013 07:31 PM
cis-1,2-Dichloroethene	ND	0.057	0.50		µg/L	1	11/20/2013 07:31 PM
Tetrachloroethene	780	5.9	25		µg/L	50	11/20/2013 02:01 PM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	11/20/2013 07:31 PM
Trichloroethene	ND	0.075	0.50		µg/L	1	11/20/2013 07:31 PM
Vinyl chloride	ND	0.082	0.50		µg/L	1	11/20/2013 07:31 PM
Surr: 1,2-Dichloroethane-d4	106	0	70-127		%REC	1	11/20/2013 07:31 PM
Surr: 1,2-Dichloroethane-d4	106	0	70-127		%REC	50	11/20/2013 02:01 PM
Surr: 4-Bromofluorobenzene	98.6	0	80-120		%REC	1	11/20/2013 07:31 PM
Surr: 4-Bromofluorobenzene	97.1	0	80-120		%REC	50	11/20/2013 02:01 PM
Surr: Dibromofluoromethane	107	0	73-128		%REC	1	11/20/2013 07:31 PM
Surr: Dibromofluoromethane	104	0	73-128		%REC	50	11/20/2013 02:01 PM
Surr: Toluene-d8	102	0	80-120		%REC	1	11/20/2013 07:31 PM
Surr: Toluene-d8	99.6	0	80-120		%REC	50	11/20/2013 02:01 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT: Cardno ATC
Lab Order: N011443
Project: Maryland Square, 085.42620.0001
Lab ID: N011443-020

Client Sample ID: MW-19
Collection Date: 11/7/2013 2:16:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS5_131116B**	QC Batch: **P13VW183**			PrepDate:			Analyst: **QBM**
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	11/17/2013 06:01 AM
cis-1,2-Dichloroethene	ND	0.057	0.50		µg/L	1	11/17/2013 06:01 AM
Tetrachloroethene	440	1.2	5.0		µg/L	10	11/18/2013 01:55 AM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	11/17/2013 06:01 AM
Trichloroethene	3.2	0.075	0.50		µg/L	1	11/17/2013 06:01 AM
Vinyl chloride	ND	0.082	0.50		µg/L	1	11/17/2013 06:01 AM
Surr: 1,2-Dichloroethane-d4	103	0	70-127		%REC	1	11/17/2013 06:01 AM
Surr: 1,2-Dichloroethane-d4	98.4	0	70-127		%REC	10	11/18/2013 01:55 AM
Surr: 4-Bromofluorobenzene	99.2	0	80-120		%REC	10	11/18/2013 01:55 AM
Surr: 4-Bromofluorobenzene	97.9	0	80-120		%REC	1	11/17/2013 06:01 AM
Surr: Dibromofluoromethane	103	0	73-128		%REC	10	11/18/2013 01:55 AM
Surr: Dibromofluoromethane	106	0	73-128		%REC	1	11/17/2013 06:01 AM
Surr: Toluene-d8	101	0	80-120		%REC	10	11/18/2013 01:55 AM
Surr: Toluene-d8	102	0	80-120		%REC	1	11/17/2013 06:01 AM
HEXAVALENT CHROMIUM BY IC							
			EPA 218.6				
RunID: **IC6_131114A**	QC Batch: **R91206**			PrepDate:			Analyst: **PN**
Hexavalent Chromium	1.7	0.024	0.20		µg/L	1	11/14/2013 03:45 PM
DISSOLVED METALS BY ICP-MS							
	EPA 3010A		**EPA 6020**				
RunID: **ICP7_131115A**	QC Batch: **44365**			PrepDate:	**11/13/2013**		Analyst: **CEI**
Arsenic	3.3	0.027	0.10		µg/L	1	11/15/2013 01:59 PM
Chromium	1.3	0.030	1.0		µg/L	1	11/15/2013 01:59 PM
Manganese	ND	0.026	0.50		µg/L	1	11/19/2013 05:18 AM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT: Cardno ATC
Lab Order: N011443
Project: Maryland Square, 085.42620.0001
Lab ID: N011443-021

Client Sample ID: MW-19I
Collection Date: 11/8/2013 12:03:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS5_131116B**	QC Batch: **P13VW183**			PrepDate:			Analyst: **QBM**
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	11/17/2013 01:28 AM
cis-1,2-Dichloroethene	ND	0.057	0.50		µg/L	1	11/17/2013 01:28 AM
Tetrachloroethene	ND	0.12	0.50		µg/L	1	11/17/2013 01:28 AM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	11/17/2013 01:28 AM
Trichloroethene	ND	0.075	0.50		µg/L	1	11/17/2013 01:28 AM
Vinyl chloride	ND	0.082	0.50		µg/L	1	11/17/2013 01:28 AM
Surr: 1,2-Dichloroethane-d4	107	0	70-127		%REC	1	11/17/2013 01:28 AM
Surr: 4-Bromofluorobenzene	99.1	0	80-120		%REC	1	11/17/2013 01:28 AM
Surr: Dibromofluoromethane	108	0	73-128		%REC	1	11/17/2013 01:28 AM
Surr: Toluene-d8	68.3	0	80-120	S	%REC	1	11/17/2013 01:28 AM
DISSOLVED METALS BY ICP-MS							
	EPA 3010A		**EPA 6020**				
RunID: **ICP7_131115A**	QC Batch: **44365**			PrepDate:	**11/13/2013**		Analyst: **CEI**
Arsenic	1.1	0.027	0.10		µg/L	1	11/15/2013 03:05 PM
Chromium	290	0.15	5.0		µg/L	5	11/15/2013 03:33 PM
Manganese	48000	13	250		µg/L	500	11/19/2013 06:35 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT: Cardno ATC
Lab Order: N011443
Project: Maryland Square, 085.42620.0001
Lab ID: N011443-022

Client Sample ID: MW-19D1
Collection Date: 11/8/2013 2:00:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS5_131116B**	QC Batch: **P13VW183**			PrepDate:			Analyst: **QBM**
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	11/17/2013 06:28 AM
cis-1,2-Dichloroethene	ND	0.057	0.50		µg/L	1	11/17/2013 06:28 AM
Tetrachloroethene	620	1.2	5.0		µg/L	10	11/18/2013 02:23 AM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	11/17/2013 06:28 AM
Trichloroethene	3.5	0.075	0.50		µg/L	1	11/17/2013 06:28 AM
Vinyl chloride	ND	0.082	0.50		µg/L	1	11/17/2013 06:28 AM
Surr: 1,2-Dichloroethane-d4	97.4	0	70-127		%REC	10	11/18/2013 02:23 AM
Surr: 1,2-Dichloroethane-d4	100	0	70-127		%REC	1	11/17/2013 06:28 AM
Surr: 4-Bromofluorobenzene	98.5	0	80-120		%REC	10	11/18/2013 02:23 AM
Surr: 4-Bromofluorobenzene	98.6	0	80-120		%REC	1	11/17/2013 06:28 AM
Surr: Dibromofluoromethane	102	0	73-128		%REC	10	11/18/2013 02:23 AM
Surr: Dibromofluoromethane	107	0	73-128		%REC	1	11/17/2013 06:28 AM
Surr: Toluene-d8	101	0	80-120		%REC	10	11/18/2013 02:23 AM
Surr: Toluene-d8	101	0	80-120		%REC	1	11/17/2013 06:28 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT: Cardno ATC
Lab Order: N011443
Project: Maryland Square, 085.42620.0001
Lab ID: N011443-023

Client Sample ID: MW-19D2
Collection Date: 11/8/2013 10:55:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS5_131116B**	QC Batch: **P13VW183**			PrepDate:			Analyst: **QBM**
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	11/17/2013 01:01 AM
cis-1,2-Dichloroethene	ND	0.057	0.50		µg/L	1	11/17/2013 01:01 AM
Tetrachloroethene	ND	0.12	0.50		µg/L	1	11/17/2013 01:01 AM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	11/17/2013 01:01 AM
Trichloroethene	ND	0.075	0.50		µg/L	1	11/17/2013 01:01 AM
Vinyl chloride	ND	0.082	0.50		µg/L	1	11/17/2013 01:01 AM
Surr: 1,2-Dichloroethane-d4	103	0	70-127		%REC	1	11/17/2013 01:01 AM
Surr: 4-Bromofluorobenzene	100	0	80-120		%REC	1	11/17/2013 01:01 AM
Surr: Dibromofluoromethane	107	0	73-128		%REC	1	11/17/2013 01:01 AM
Surr: Toluene-d8	93.5	0	80-120		%REC	1	11/17/2013 01:01 AM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT: Cardno ATC
Lab Order: N011443
Project: Maryland Square, 085.42620.0001
Lab ID: N011443-024

Client Sample ID: MW-19D2 Dup
Collection Date: 11/8/2013 10:55:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS5_131116B**	QC Batch: **P13VW183**			PrepDate:			Analyst: **QBM**
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	11/17/2013 12:33 AM
cis-1,2-Dichloroethene	ND	0.057	0.50		µg/L	1	11/17/2013 12:33 AM
Tetrachloroethene	ND	0.12	0.50		µg/L	1	11/17/2013 12:33 AM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	11/17/2013 12:33 AM
Trichloroethene	ND	0.075	0.50		µg/L	1	11/17/2013 12:33 AM
Vinyl chloride	ND	0.082	0.50		µg/L	1	11/17/2013 12:33 AM
Surr: 1,2-Dichloroethane-d4	103	0	70-127		%REC	1	11/17/2013 12:33 AM
Surr: 4-Bromofluorobenzene	99.1	0	80-120		%REC	1	11/17/2013 12:33 AM
Surr: Dibromofluoromethane	106	0	73-128		%REC	1	11/17/2013 12:33 AM
Surr: Toluene-d8	96.3	0	80-120		%REC	1	11/17/2013 12:33 AM

CLIENT: Cardno ATC
Lab Order: N011443
Project: Maryland Square, 085.42620.0001
Lab ID: N011443-025

Client Sample ID: MW-19D3
Collection Date: 11/8/2013 1:23:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS5_131114A**	QC Batch: **P13VW180**			PrepDate:			Analyst: **QBM**
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	11/14/2013 07:24 PM
cis-1,2-Dichloroethene	ND	0.057	0.50		µg/L	1	11/14/2013 07:24 PM
Tetrachloroethene	160	0.59	2.5		µg/L	5	11/15/2013 02:24 PM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	11/14/2013 07:24 PM
Trichloroethene	0.75	0.075	0.50		µg/L	1	11/14/2013 07:24 PM
Vinyl chloride	ND	0.082	0.50		µg/L	1	11/14/2013 07:24 PM
Surr: 1,2-Dichloroethane-d4	107	0	70-127		%REC	5	11/15/2013 02:24 PM
Surr: 1,2-Dichloroethane-d4	106	0	70-127		%REC	1	11/14/2013 07:24 PM
Surr: 4-Bromofluorobenzene	100	0	80-120		%REC	5	11/15/2013 02:24 PM
Surr: 4-Bromofluorobenzene	100	0	80-120		%REC	1	11/14/2013 07:24 PM
Surr: Dibromofluoromethane	111	0	73-128		%REC	5	11/15/2013 02:24 PM
Surr: Dibromofluoromethane	108	0	73-128		%REC	1	11/14/2013 07:24 PM
Surr: Toluene-d8	103	0	80-120		%REC	5	11/15/2013 02:24 PM
Surr: Toluene-d8	102	0	80-120		%REC	1	11/14/2013 07:24 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT: Cardno ATC
Lab Order: N011443
Project: Maryland Square, 085.42620.0001
Lab ID: N011443-026

Client Sample ID: MW-20
Collection Date: 11/7/2013 1:30:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS5_131116B**	QC Batch: **P13VW183**			PrepDate:			Analyst: **QBM**
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	11/17/2013 05:33 AM
cis-1,2-Dichloroethene	ND	0.057	0.50		µg/L	1	11/17/2013 05:33 AM
Tetrachloroethene	530	1.2	5.0		µg/L	10	11/18/2013 02:50 AM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	11/17/2013 05:33 AM
Trichloroethene	1.4	0.075	0.50		µg/L	1	11/17/2013 05:33 AM
Vinyl chloride	ND	0.082	0.50		µg/L	1	11/17/2013 05:33 AM
Surr: 1,2-Dichloroethane-d4	103	0	70-127		%REC	1	11/17/2013 05:33 AM
Surr: 1,2-Dichloroethane-d4	99.0	0	70-127		%REC	10	11/18/2013 02:50 AM
Surr: 4-Bromofluorobenzene	98.0	0	80-120		%REC	10	11/18/2013 02:50 AM
Surr: 4-Bromofluorobenzene	98.5	0	80-120		%REC	1	11/17/2013 05:33 AM
Surr: Dibromofluoromethane	104	0	73-128		%REC	10	11/18/2013 02:50 AM
Surr: Dibromofluoromethane	106	0	73-128		%REC	1	11/17/2013 05:33 AM
Surr: Toluene-d8	100	0	80-120		%REC	10	11/18/2013 02:50 AM
Surr: Toluene-d8	102	0	80-120		%REC	1	11/17/2013 05:33 AM
HEXAVALENT CHROMIUM BY IC							
			EPA 218.6				
RunID: **IC6_131114A**	QC Batch: **R91206**			PrepDate:			Analyst: **PN**
Hexavalent Chromium	1.3	0.024	0.20		µg/L	1	11/14/2013 04:04 PM
DISSOLVED METALS BY ICP-MS							
	EPA 3010A		**EPA 6020**				
RunID: **ICP7_131115A**	QC Batch: **44365**			PrepDate:	**11/13/2013**		Analyst: **CEI**
Arsenic	2.6	0.027	0.10		µg/L	1	11/15/2013 02:04 PM
Chromium	ND	0.030	1.0		µg/L	1	11/15/2013 02:04 PM
Manganese	ND	0.026	0.50		µg/L	1	11/19/2013 05:23 AM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT: Cardno ATC
Lab Order: N011443
Project: Maryland Square, 085.42620.0001
Lab ID: N011443-027

Client Sample ID: MW-20D1
Collection Date: 11/7/2013 11:47:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS5_131116B**	QC Batch: **P13VW183**			PrepDate:			Analyst: **QBM**
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	11/17/2013 05:06 AM
cis-1,2-Dichloroethene	ND	0.057	0.50		µg/L	1	11/17/2013 05:06 AM
Tetrachloroethene	260	1.2	5.0		µg/L	10	11/18/2013 03:17 AM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	11/17/2013 05:06 AM
Trichloroethene	0.86	0.075	0.50		µg/L	1	11/17/2013 05:06 AM
Vinyl chloride	ND	0.082	0.50		µg/L	1	11/17/2013 05:06 AM
Surr: 1,2-Dichloroethane-d4	100	0	70-127		%REC	10	11/18/2013 03:17 AM
Surr: 1,2-Dichloroethane-d4	106	0	70-127		%REC	1	11/17/2013 05:06 AM
Surr: 4-Bromofluorobenzene	97.1	0	80-120		%REC	10	11/18/2013 03:17 AM
Surr: 4-Bromofluorobenzene	100	0	80-120		%REC	1	11/17/2013 05:06 AM
Surr: Dibromofluoromethane	104	0	73-128		%REC	10	11/18/2013 03:17 AM
Surr: Dibromofluoromethane	108	0	73-128		%REC	1	11/17/2013 05:06 AM
Surr: Toluene-d8	101	0	80-120		%REC	10	11/18/2013 03:17 AM
Surr: Toluene-d8	103	0	80-120		%REC	1	11/17/2013 05:06 AM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT: Cardno ATC
Lab Order: N011443
Project: Maryland Square, 085.42620.0001
Lab ID: N011443-028

Client Sample ID: MW-20D2
Collection Date: 11/7/2013 11:58:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS5_131116B**	QC Batch: **P13VW183**			PrepDate:			Analyst: **QBM**
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	11/17/2013 04:39 AM
cis-1,2-Dichloroethene	0.81	0.057	0.50		µg/L	1	11/17/2013 04:39 AM
Tetrachloroethene	160	0.59	2.5		µg/L	5	11/18/2013 03:44 AM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	11/17/2013 04:39 AM
Trichloroethene	1.0	0.075	0.50		µg/L	1	11/17/2013 04:39 AM
Vinyl chloride	ND	0.082	0.50		µg/L	1	11/17/2013 04:39 AM
Surr: 1,2-Dichloroethane-d4	98.1	0	70-127		%REC	5	11/18/2013 03:44 AM
Surr: 1,2-Dichloroethane-d4	105	0	70-127		%REC	1	11/17/2013 04:39 AM
Surr: 4-Bromofluorobenzene	97.7	0	80-120		%REC	5	11/18/2013 03:44 AM
Surr: 4-Bromofluorobenzene	101	0	80-120		%REC	1	11/17/2013 04:39 AM
Surr: Dibromofluoromethane	104	0	73-128		%REC	5	11/18/2013 03:44 AM
Surr: Dibromofluoromethane	108	0	73-128		%REC	1	11/17/2013 04:39 AM
Surr: Toluene-d8	101	0	80-120		%REC	5	11/18/2013 03:44 AM
Surr: Toluene-d8	102	0	80-120		%REC	1	11/17/2013 04:39 AM

CLIENT: Cardno ATC
Lab Order: N011443
Project: Maryland Square, 085.42620.0001
Lab ID: N011443-029

Client Sample ID: MW-20D3
Collection Date: 11/7/2013 11:18:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS5_131116B**	QC Batch: **P13VW183**			PrepDate:			Analyst: **QBM**
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	11/17/2013 01:55 AM
cis-1,2-Dichloroethene	ND	0.057	0.50		µg/L	1	11/17/2013 01:55 AM
Tetrachloroethene	62	0.12	0.50		µg/L	1	11/17/2013 01:55 AM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	11/17/2013 01:55 AM
Trichloroethene	ND	0.075	0.50		µg/L	1	11/17/2013 01:55 AM
Vinyl chloride	ND	0.082	0.50		µg/L	1	11/17/2013 01:55 AM
Surr: 1,2-Dichloroethane-d4	101	0	70-127		%REC	1	11/17/2013 01:55 AM
Surr: 4-Bromofluorobenzene	99.2	0	80-120		%REC	1	11/17/2013 01:55 AM
Surr: Dibromofluoromethane	105	0	73-128		%REC	1	11/17/2013 01:55 AM
Surr: Toluene-d8	101	0	80-120		%REC	1	11/17/2013 01:55 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT: Cardno ATC
Lab Order: N011443
Project: Maryland Square, 085.42620.0001
Lab ID: N011443-030

Client Sample ID: MW-23
Collection Date: 11/12/2013 1:47:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS5_131120A**	QC Batch: **P13VW187**			PrepDate:			Analyst: **QBM**
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	11/20/2013 07:59 PM
cis-1,2-Dichloroethene	ND	0.057	0.50		µg/L	1	11/20/2013 07:59 PM
Tetrachloroethene	900	2.3	10		µg/L	20	11/20/2013 02:28 PM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	11/20/2013 07:59 PM
Trichloroethene	1.8	0.075	0.50		µg/L	1	11/20/2013 07:59 PM
Vinyl chloride	ND	0.082	0.50		µg/L	1	11/20/2013 07:59 PM
Surr: 1,2-Dichloroethane-d4	102	0	70-127		%REC	1	11/20/2013 07:59 PM
Surr: 1,2-Dichloroethane-d4	101	0	70-127		%REC	20	11/20/2013 02:28 PM
Surr: 4-Bromofluorobenzene	98.3	0	80-120		%REC	1	11/20/2013 07:59 PM
Surr: 4-Bromofluorobenzene	98.3	0	80-120		%REC	20	11/20/2013 02:28 PM
Surr: Dibromofluoromethane	103	0	73-128		%REC	1	11/20/2013 07:59 PM
Surr: Dibromofluoromethane	102	0	73-128		%REC	20	11/20/2013 02:28 PM
Surr: Toluene-d8	100	0	80-120		%REC	1	11/20/2013 07:59 PM
Surr: Toluene-d8	102	0	80-120		%REC	20	11/20/2013 02:28 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT: Cardno ATC
Lab Order: N011443
Project: Maryland Square, 085.42620.0001
Lab ID: N011443-031

Client Sample ID: MW-25
Collection Date: 11/12/2013 11:23:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS5_131119A**	QC Batch: **P13VW186**			PrepDate:			Analyst: **QBM**
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	11/20/2013 05:11 AM
cis-1,2-Dichloroethene	ND	0.057	0.50		µg/L	1	11/20/2013 05:11 AM
Tetrachloroethene	700	2.3	10		µg/L	20	11/20/2013 12:11 PM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	11/20/2013 05:11 AM
Trichloroethene	0.88	0.075	0.50		µg/L	1	11/20/2013 05:11 AM
Vinyl chloride	ND	0.082	0.50		µg/L	1	11/20/2013 05:11 AM
Surr: 1,2-Dichloroethane-d4	101	0	70-127		%REC	1	11/20/2013 05:11 AM
Surr: 1,2-Dichloroethane-d4	106	0	70-127		%REC	20	11/20/2013 12:11 PM
Surr: 4-Bromofluorobenzene	97.2	0	80-120		%REC	1	11/20/2013 05:11 AM
Surr: 4-Bromofluorobenzene	99.0	0	80-120		%REC	20	11/20/2013 12:11 PM
Surr: Dibromofluoromethane	104	0	73-128		%REC	1	11/20/2013 05:11 AM
Surr: Dibromofluoromethane	105	0	73-128		%REC	20	11/20/2013 12:11 PM
Surr: Toluene-d8	101	0	80-120		%REC	1	11/20/2013 05:11 AM
Surr: Toluene-d8	102	0	80-120		%REC	20	11/20/2013 12:11 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT: Cardno ATC
Lab Order: N011443
Project: Maryland Square, 085.42620.0001
Lab ID: N011443-032

Client Sample ID: MW-32 Dup
Collection Date: 11/12/2013 12:13:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS5_131119A**	QC Batch: **P13VW186**			PrepDate:			Analyst: **QBM**
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	11/20/2013 05:38 AM
cis-1,2-Dichloroethene	ND	0.057	0.50		µg/L	1	11/20/2013 05:38 AM
Tetrachloroethene	660	1.2	5.0		µg/L	10	11/20/2013 11:16 AM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	11/20/2013 05:38 AM
Trichloroethene	1.9	0.075	0.50		µg/L	1	11/20/2013 05:38 AM
Vinyl chloride	ND	0.082	0.50		µg/L	1	11/20/2013 05:38 AM
Surr: 1,2-Dichloroethane-d4	102	0	70-127		%REC	1	11/20/2013 05:38 AM
Surr: 1,2-Dichloroethane-d4	100	0	70-127		%REC	10	11/20/2013 11:16 AM
Surr: 4-Bromofluorobenzene	99.0	0	80-120		%REC	1	11/20/2013 05:38 AM
Surr: 4-Bromofluorobenzene	101	0	80-120		%REC	10	11/20/2013 11:16 AM
Surr: Dibromofluoromethane	104	0	73-128		%REC	1	11/20/2013 05:38 AM
Surr: Dibromofluoromethane	102	0	73-128		%REC	10	11/20/2013 11:16 AM
Surr: Toluene-d8	101	0	80-120		%REC	1	11/20/2013 05:38 AM
Surr: Toluene-d8	102	0	80-120		%REC	10	11/20/2013 11:16 AM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT: Cardno ATC
Lab Order: N011443
Project: Maryland Square, 085.42620.0001
Lab ID: N011443-033

Client Sample ID: MW-26
Collection Date: 11/12/2013 1:04:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS5_131119A**	QC Batch: **P13VW186**			PrepDate:			Analyst: **QBM**
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	11/20/2013 06:05 AM
cis-1,2-Dichloroethene	ND	0.057	0.50		µg/L	1	11/20/2013 06:05 AM
Tetrachloroethene	770	2.3	10		µg/L	20	11/20/2013 12:39 PM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	11/20/2013 06:05 AM
Trichloroethene	0.62	0.075	0.50		µg/L	1	11/20/2013 06:05 AM
Vinyl chloride	ND	0.082	0.50		µg/L	1	11/20/2013 06:05 AM
Surr: 1,2-Dichloroethane-d4	102	0	70-127		%REC	1	11/20/2013 06:05 AM
Surr: 1,2-Dichloroethane-d4	104	0	70-127		%REC	20	11/20/2013 12:39 PM
Surr: 4-Bromofluorobenzene	98.3	0	80-120		%REC	1	11/20/2013 06:05 AM
Surr: 4-Bromofluorobenzene	98.5	0	80-120		%REC	20	11/20/2013 12:39 PM
Surr: Dibromofluoromethane	105	0	73-128		%REC	1	11/20/2013 06:05 AM
Surr: Dibromofluoromethane	105	0	73-128		%REC	20	11/20/2013 12:39 PM
Surr: Toluene-d8	102	0	80-120		%REC	1	11/20/2013 06:05 AM
Surr: Toluene-d8	101	0	80-120		%REC	20	11/20/2013 12:39 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT: Cardno ATC
Lab Order: N011443
Project: Maryland Square, 085.42620.0001
Lab ID: N011443-034

Client Sample ID: MW-27
Collection Date: 11/12/2013 10:38:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS5_131117A**	QC Batch: **P13VW184**			PrepDate:			Analyst: **QBM**
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	11/18/2013 07:22 AM
cis-1,2-Dichloroethene	ND	0.057	0.50		µg/L	1	11/18/2013 07:22 AM
Tetrachloroethene	420	1.2	5.0		µg/L	10	11/18/2013 11:16 PM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	11/18/2013 07:22 AM
Trichloroethene	0.94	0.075	0.50		µg/L	1	11/18/2013 07:22 AM
Vinyl chloride	ND	0.082	0.50		µg/L	1	11/18/2013 07:22 AM
Surr: 1,2-Dichloroethane-d4	98.7	0	70-127		%REC	10	11/18/2013 11:16 PM
Surr: 1,2-Dichloroethane-d4	98.8	0	70-127		%REC	1	11/18/2013 07:22 AM
Surr: 4-Bromofluorobenzene	100	0	80-120		%REC	10	11/18/2013 11:16 PM
Surr: 4-Bromofluorobenzene	98.2	0	80-120		%REC	1	11/18/2013 07:22 AM
Surr: Dibromofluoromethane	102	0	73-128		%REC	10	11/18/2013 11:16 PM
Surr: Dibromofluoromethane	103	0	73-128		%REC	1	11/18/2013 07:22 AM
Surr: Toluene-d8	100	0	80-120		%REC	10	11/18/2013 11:16 PM
Surr: Toluene-d8	102	0	80-120		%REC	1	11/18/2013 07:22 AM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT: Cardno ATC
Lab Order: N011443
Project: Maryland Square, 085.42620.0001
Lab ID: N011443-035

Client Sample ID: MW-30
Collection Date: 11/11/2013 1:08:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS5_131117A**	QC Batch: **P13VW184**			PrepDate:			Analyst: **QBM**
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	11/18/2013 06:55 AM
cis-1,2-Dichloroethene	ND	0.057	0.50		µg/L	1	11/18/2013 06:55 AM
Tetrachloroethene	96	0.12	0.50		µg/L	1	11/18/2013 06:55 AM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	11/18/2013 06:55 AM
Trichloroethene	0.58	0.075	0.50		µg/L	1	11/18/2013 06:55 AM
Vinyl chloride	ND	0.082	0.50		µg/L	1	11/18/2013 06:55 AM
Surr: 1,2-Dichloroethane-d4	99.4	0	70-127		%REC	1	11/18/2013 06:55 AM
Surr: 4-Bromofluorobenzene	98.9	0	80-120		%REC	1	11/18/2013 06:55 AM
Surr: Dibromofluoromethane	106	0	73-128		%REC	1	11/18/2013 06:55 AM
Surr: Toluene-d8	103	0	80-120		%REC	1	11/18/2013 06:55 AM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT: Cardno ATC
Lab Order: N011443
Project: Maryland Square, 085.42620.0001
Lab ID: N011443-036

Client Sample ID: MW-31
Collection Date: 11/11/2013 12:08:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS5_131117A**	QC Batch: **P13VW184**			PrepDate:			Analyst: **QBM**
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	11/18/2013 06:27 AM
cis-1,2-Dichloroethene	ND	0.057	0.50		µg/L	1	11/18/2013 06:27 AM
Tetrachloroethene	54	0.12	0.50		µg/L	1	11/18/2013 06:27 AM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	11/18/2013 06:27 AM
Trichloroethene	ND	0.075	0.50		µg/L	1	11/18/2013 06:27 AM
Vinyl chloride	ND	0.082	0.50		µg/L	1	11/18/2013 06:27 AM
Surr: 1,2-Dichloroethane-d4	98.9	0	70-127		%REC	1	11/18/2013 06:27 AM
Surr: 4-Bromofluorobenzene	97.9	0	80-120		%REC	1	11/18/2013 06:27 AM
Surr: Dibromofluoromethane	105	0	73-128		%REC	1	11/18/2013 06:27 AM
Surr: Toluene-d8	102	0	80-120		%REC	1	11/18/2013 06:27 AM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT: Cardno ATC
Lab Order: N011443
Project: Maryland Square, 085.42620.0001
Lab ID: N011443-037

Client Sample ID: MW-32
Collection Date: 11/12/2013 12:13:00 PM
Matrix: GROUNDWATER

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: **MS5_131119A** QC Batch: **P13VW186** PrepDate: Analyst: **QBM**

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	11/20/2013 06:32 AM
cis-1,2-Dichloroethene	ND	0.057	0.50		µg/L	1	11/20/2013 06:32 AM
Tetrachloroethene	610	1.2	5.0		µg/L	10	11/20/2013 11:44 AM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	11/20/2013 06:32 AM
Trichloroethene	2.0	0.075	0.50		µg/L	1	11/20/2013 06:32 AM
Vinyl chloride	ND	0.082	0.50		µg/L	1	11/20/2013 06:32 AM
Surr: 1,2-Dichloroethane-d4	100	0	70-127		%REC	1	11/20/2013 06:32 AM
Surr: 1,2-Dichloroethane-d4	100	0	70-127		%REC	10	11/20/2013 11:44 AM
Surr: 4-Bromofluorobenzene	97.2	0	80-120		%REC	1	11/20/2013 06:32 AM
Surr: 4-Bromofluorobenzene	97.5	0	80-120		%REC	10	11/20/2013 11:44 AM
Surr: Dibromofluoromethane	103	0	73-128		%REC	1	11/20/2013 06:32 AM
Surr: Dibromofluoromethane	102	0	73-128		%REC	10	11/20/2013 11:44 AM
Surr: Toluene-d8	101	0	80-120		%REC	1	11/20/2013 06:32 AM
Surr: Toluene-d8	99.3	0	80-120		%REC	10	11/20/2013 11:44 AM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT: Cardno ATC
Lab Order: N011443
Project: Maryland Square, 085.42620.0001
Lab ID: N011443-038

Client Sample ID: MW-33
Collection Date: 11/8/2013 8:48:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS5_131119A**	QC Batch: **P13VW186**			PrepDate:			Analyst: **QBM**
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	11/19/2013 10:21 PM
cis-1,2-Dichloroethene	ND	0.057	0.50		µg/L	1	11/19/2013 10:21 PM
Tetrachloroethene	ND	0.12	0.50		µg/L	1	11/19/2013 10:21 PM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	11/19/2013 10:21 PM
Trichloroethene	ND	0.075	0.50		µg/L	1	11/19/2013 10:21 PM
Vinyl chloride	ND	0.082	0.50		µg/L	1	11/19/2013 10:21 PM
Surr: 1,2-Dichloroethane-d4	105	0	70-127		%REC	1	11/19/2013 10:21 PM
Surr: 4-Bromofluorobenzene	99.0	0	80-120		%REC	1	11/19/2013 10:21 PM
Surr: Dibromofluoromethane	104	0	73-128		%REC	1	11/19/2013 10:21 PM
Surr: Toluene-d8	100	0	80-120		%REC	1	11/19/2013 10:21 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT: Cardno ATC
Lab Order: N011443
Project: Maryland Square, 085.42620.0001
Lab ID: N011443-039

Client Sample ID: MW-34
Collection Date: 11/4/2013 1:27:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS5_131116A**	QC Batch: **P13VW182**			PrepDate:			Analyst: **QBM**
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	11/16/2013 06:03 PM
cis-1,2-Dichloroethene	ND	0.057	0.50		µg/L	1	11/16/2013 06:03 PM
Tetrachloroethene	500	1.2	5.0		µg/L	10	11/18/2013 04:12 AM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	11/16/2013 06:03 PM
Trichloroethene	0.86	0.075	0.50		µg/L	1	11/16/2013 06:03 PM
Vinyl chloride	ND	0.082	0.50		µg/L	1	11/16/2013 06:03 PM
Surr: 1,2-Dichloroethane-d4	101	0	70-127		%REC	10	11/18/2013 04:12 AM
Surr: 1,2-Dichloroethane-d4	104	0	70-127		%REC	1	11/16/2013 06:03 PM
Surr: 4-Bromofluorobenzene	99.2	0	80-120		%REC	10	11/18/2013 04:12 AM
Surr: 4-Bromofluorobenzene	97.7	0	80-120		%REC	1	11/16/2013 06:03 PM
Surr: Dibromofluoromethane	103	0	73-128		%REC	10	11/18/2013 04:12 AM
Surr: Dibromofluoromethane	107	0	73-128		%REC	1	11/16/2013 06:03 PM
Surr: Toluene-d8	103	0	80-120		%REC	10	11/18/2013 04:12 AM
Surr: Toluene-d8	100	0	80-120		%REC	1	11/16/2013 06:03 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT: Cardno ATC
Lab Order: N011443
Project: Maryland Square, 085.42620.0001
Lab ID: N011443-040

Client Sample ID: MW-35
Collection Date: 11/4/2013 2:40:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS5_131114A**	QC Batch: **P13VW180**			PrepDate:			Analyst: **QBM**
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	11/14/2013 08:46 PM
cis-1,2-Dichloroethene	ND	0.057	0.50		µg/L	1	11/14/2013 08:46 PM
Tetrachloroethene	310	1.2	5.0		µg/L	10	11/15/2013 02:52 PM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	11/14/2013 08:46 PM
Trichloroethene	ND	0.075	0.50		µg/L	1	11/14/2013 08:46 PM
Vinyl chloride	ND	0.082	0.50		µg/L	1	11/14/2013 08:46 PM
Surr: 1,2-Dichloroethane-d4	102	0	70-127		%REC	10	11/15/2013 02:52 PM
Surr: 1,2-Dichloroethane-d4	106	0	70-127		%REC	1	11/14/2013 08:46 PM
Surr: 4-Bromofluorobenzene	100	0	80-120		%REC	10	11/15/2013 02:52 PM
Surr: 4-Bromofluorobenzene	102	0	80-120		%REC	1	11/14/2013 08:46 PM
Surr: Dibromofluoromethane	107	0	73-128		%REC	10	11/15/2013 02:52 PM
Surr: Dibromofluoromethane	110	0	73-128		%REC	1	11/14/2013 08:46 PM
Surr: Toluene-d8	101	0	80-120		%REC	10	11/15/2013 02:52 PM
Surr: Toluene-d8	102	0	80-120		%REC	1	11/14/2013 08:46 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT: Cardno ATC
Lab Order: N011443
Project: Maryland Square, 085.42620.0001
Lab ID: N011443-041

Client Sample ID: MW-36
Collection Date: 11/12/2013 9:53:00 AM
Matrix: GROUNDWATER

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: **MS5_131119A** QC Batch: **P13VW186** PrepDate: Analyst: **QBM**

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	11/20/2013 04:16 AM
cis-1,2-Dichloroethene	ND	0.057	0.50		µg/L	1	11/20/2013 04:16 AM
Tetrachloroethene	130	0.59	2.5		µg/L	5	11/20/2013 01:06 PM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	11/20/2013 04:16 AM
Trichloroethene	ND	0.075	0.50		µg/L	1	11/20/2013 04:16 AM
Vinyl chloride	ND	0.082	0.50		µg/L	1	11/20/2013 04:16 AM
Surr: 1,2-Dichloroethane-d4	101	0	70-127		%REC	1	11/20/2013 04:16 AM
Surr: 1,2-Dichloroethane-d4	104	0	70-127		%REC	5	11/20/2013 01:06 PM
Surr: 4-Bromofluorobenzene	99.3	0	80-120		%REC	1	11/20/2013 04:16 AM
Surr: 4-Bromofluorobenzene	97.3	0	80-120		%REC	5	11/20/2013 01:06 PM
Surr: Dibromofluoromethane	104	0	73-128		%REC	1	11/20/2013 04:16 AM
Surr: Dibromofluoromethane	104	0	73-128		%REC	5	11/20/2013 01:06 PM
Surr: Toluene-d8	100	0	80-120		%REC	1	11/20/2013 04:16 AM
Surr: Toluene-d8	100	0	80-120		%REC	5	11/20/2013 01:06 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT: Cardno ATC
Lab Order: N011443
Project: Maryland Square, 085.42620.0001
Lab ID: N011443-042

Client Sample ID: MW-37
Collection Date: 11/11/2013 11:14:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS5_131119A**	QC Batch: **P13VW186**			PrepDate:			Analyst: **QBM**
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	11/20/2013 03:49 AM
cis-1,2-Dichloroethene	ND	0.057	0.50		µg/L	1	11/20/2013 03:49 AM
Tetrachloroethene	33	0.12	0.50		µg/L	1	11/20/2013 03:49 AM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	11/20/2013 03:49 AM
Trichloroethene	ND	0.075	0.50		µg/L	1	11/20/2013 03:49 AM
Vinyl chloride	ND	0.082	0.50		µg/L	1	11/20/2013 03:49 AM
Surr: 1,2-Dichloroethane-d4	103	0	70-127		%REC	1	11/20/2013 03:49 AM
Surr: 4-Bromofluorobenzene	99.0	0	80-120		%REC	1	11/20/2013 03:49 AM
Surr: Dibromofluoromethane	105	0	73-128		%REC	1	11/20/2013 03:49 AM
Surr: Toluene-d8	99.8	0	80-120		%REC	1	11/20/2013 03:49 AM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT: Cardno ATC
Lab Order: N011443
Project: Maryland Square, 085.42620.0001
Lab ID: N011443-043

Client Sample ID: MW-38
Collection Date: 11/11/2013 10:23:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS5_131119A**	QC Batch: **P13VW186**			PrepDate:			Analyst: **QBM**
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	11/20/2013 02:54 AM
cis-1,2-Dichloroethene	ND	0.057	0.50		µg/L	1	11/20/2013 02:54 AM
Tetrachloroethene	7.0	0.12	0.50		µg/L	1	11/20/2013 02:54 AM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	11/20/2013 02:54 AM
Trichloroethene	ND	0.075	0.50		µg/L	1	11/20/2013 02:54 AM
Vinyl chloride	ND	0.082	0.50		µg/L	1	11/20/2013 02:54 AM
Surr: 1,2-Dichloroethane-d4	105	0	70-127		%REC	1	11/20/2013 02:54 AM
Surr: 4-Bromofluorobenzene	97.0	0	80-120		%REC	1	11/20/2013 02:54 AM
Surr: Dibromofluoromethane	103	0	73-128		%REC	1	11/20/2013 02:54 AM
Surr: Toluene-d8	99.5	0	80-120		%REC	1	11/20/2013 02:54 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT: Cardno ATC
Lab Order: N011443
Project: Maryland Square, 085.42620.0001
Lab ID: N011443-044

Client Sample ID: MW-38 Dup
Collection Date: 11/11/2013 10:23:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS5_131119A**	QC Batch: **P13VW186**			PrepDate:			Analyst: **QBM**
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	11/20/2013 03:21 AM
cis-1,2-Dichloroethene	ND	0.057	0.50		µg/L	1	11/20/2013 03:21 AM
Tetrachloroethene	6.8	0.12	0.50		µg/L	1	11/20/2013 03:21 AM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	11/20/2013 03:21 AM
Trichloroethene	ND	0.075	0.50		µg/L	1	11/20/2013 03:21 AM
Vinyl chloride	ND	0.082	0.50		µg/L	1	11/20/2013 03:21 AM
Surr: 1,2-Dichloroethane-d4	104	0	70-127		%REC	1	11/20/2013 03:21 AM
Surr: 4-Bromofluorobenzene	100	0	80-120		%REC	1	11/20/2013 03:21 AM
Surr: Dibromofluoromethane	105	0	73-128		%REC	1	11/20/2013 03:21 AM
Surr: Toluene-d8	101	0	80-120		%REC	1	11/20/2013 03:21 AM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT: Cardno ATC
Lab Order: N011443
Project: Maryland Square, 085.42620.0001
Lab ID: N011443-045

Client Sample ID: MW-39
Collection Date: 11/11/2013 2:04:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS5_131119A**	QC Batch: **P13VW186**			PrepDate:			Analyst: **QBM**
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	11/20/2013 04:43 AM
cis-1,2-Dichloroethene	ND	0.057	0.50		µg/L	1	11/20/2013 04:43 AM
Tetrachloroethene	260	1.2	5.0		µg/L	10	11/20/2013 01:33 PM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	11/20/2013 04:43 AM
Trichloroethene	0.81	0.075	0.50		µg/L	1	11/20/2013 04:43 AM
Vinyl chloride	ND	0.082	0.50		µg/L	1	11/20/2013 04:43 AM
Surr: 1,2-Dichloroethane-d4	102	0	70-127		%REC	1	11/20/2013 04:43 AM
Surr: 1,2-Dichloroethane-d4	105	0	70-127		%REC	10	11/20/2013 01:33 PM
Surr: 4-Bromofluorobenzene	96.2	0	80-120		%REC	1	11/20/2013 04:43 AM
Surr: 4-Bromofluorobenzene	98.0	0	80-120		%REC	10	11/20/2013 01:33 PM
Surr: Dibromofluoromethane	104	0	73-128		%REC	1	11/20/2013 04:43 AM
Surr: Dibromofluoromethane	106	0	73-128		%REC	10	11/20/2013 01:33 PM
Surr: Toluene-d8	99.5	0	80-120		%REC	1	11/20/2013 04:43 AM
Surr: Toluene-d8	101	0	80-120		%REC	10	11/20/2013 01:33 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT: Cardno ATC
Lab Order: N011443
Project: Maryland Square, 085.42620.0001
Lab ID: N011443-046

Client Sample ID: MW-40 CMT-30
Collection Date: 11/6/2013 10:30:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS5_131116A**	QC Batch: **P13VW182**			PrepDate:			Analyst: **QBM**
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	11/16/2013 10:18 AM
cis-1,2-Dichloroethene	ND	0.057	0.50		µg/L	1	11/16/2013 10:18 AM
Tetrachloroethene	1.3	0.12	0.50		µg/L	1	11/16/2013 10:18 AM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	11/16/2013 10:18 AM
Trichloroethene	ND	0.075	0.50		µg/L	1	11/16/2013 10:18 AM
Vinyl chloride	ND	0.082	0.50		µg/L	1	11/16/2013 10:18 AM
Surr: 1,2-Dichloroethane-d4	105	0	70-127		%REC	1	11/16/2013 10:18 AM
Surr: 4-Bromofluorobenzene	100	0	80-120		%REC	1	11/16/2013 10:18 AM
Surr: Dibromofluoromethane	110	0	73-128		%REC	1	11/16/2013 10:18 AM
Surr: Toluene-d8	102	0	80-120		%REC	1	11/16/2013 10:18 AM
HEXAVALENT CHROMIUM BY IC							
			EPA 218.6				
RunID: **IC6_131114A**	QC Batch: **R91206**			PrepDate:			Analyst: **PN**
Hexavalent Chromium	110	0.24	2.0		µg/L	10	11/14/2013 03:24 PM
DISSOLVED METALS BY ICP-MS							
		EPA 3010A	**EPA 6020**				
RunID: **ICP7_131115A**	QC Batch: **44365**			PrepDate:	**11/13/2013**		Analyst: **CEI**
Arsenic	3.6	0.027	0.10		µg/L	1	11/15/2013 02:10 PM
Chromium	110	0.030	1.0		µg/L	1	11/15/2013 02:10 PM
Manganese	77	0.026	0.50		µg/L	1	11/19/2013 05:29 AM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT: Cardno ATC
Lab Order: N011443
Project: Maryland Square, 085.42620.0001
Lab ID: N011443-047

Client Sample ID: MW-40 CMT-35
Collection Date: 11/6/2013 11:00:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS5_131116A**	QC Batch: **P13VW182**			PrepDate:			Analyst: **QBM**
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	11/16/2013 10:45 AM
cis-1,2-Dichloroethene	ND	0.057	0.50		µg/L	1	11/16/2013 10:45 AM
Tetrachloroethene	12	0.12	0.50		µg/L	1	11/16/2013 10:45 AM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	11/16/2013 10:45 AM
Trichloroethene	2.4	0.075	0.50		µg/L	1	11/16/2013 10:45 AM
Vinyl chloride	ND	0.082	0.50		µg/L	1	11/16/2013 10:45 AM
Surr: 1,2-Dichloroethane-d4	101	0	70-127		%REC	1	11/16/2013 10:45 AM
Surr: 4-Bromofluorobenzene	97.5	0	80-120		%REC	1	11/16/2013 10:45 AM
Surr: Dibromofluoromethane	109	0	73-128		%REC	1	11/16/2013 10:45 AM
Surr: Toluene-d8	102	0	80-120		%REC	1	11/16/2013 10:45 AM
HEXAVALENT CHROMIUM BY IC							
			EPA 218.6				
RunID: **IC6_131114A**	QC Batch: **R91206**			PrepDate:			Analyst: **PN**
Hexavalent Chromium	ND	0.024	0.20		µg/L	1	11/14/2013 07:02 PM
DISSOLVED METALS BY ICP-MS							
	EPA 3010A		**EPA 6020**				
RunID: **ICP7_131115A**	QC Batch: **44365**			PrepDate:	**11/13/2013**		Analyst: **CEI**
Arsenic	7.8	0.027	0.10		µg/L	1	11/15/2013 02:15 PM
Chromium	ND	0.030	1.0		µg/L	1	11/15/2013 02:15 PM
Manganese	430	0.13	2.5		µg/L	5	11/19/2013 06:30 AM

CLIENT: Cardno ATC
Lab Order: N011443
Project: Maryland Square, 085.42620.0001
Lab ID: N011443-048

Client Sample ID: MW-40 CMT-40
Collection Date: 11/6/2013 1:20:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS5_131116A**	QC Batch: **P13VW182**			PrepDate:			Analyst: **QBM**
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	11/16/2013 11:13 AM
cis-1,2-Dichloroethene	ND	0.057	0.50		µg/L	1	11/16/2013 11:13 AM
Tetrachloroethene	51	0.12	0.50		µg/L	1	11/16/2013 11:13 AM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	11/16/2013 11:13 AM
Trichloroethene	0.64	0.075	0.50		µg/L	1	11/16/2013 11:13 AM
Vinyl chloride	ND	0.082	0.50		µg/L	1	11/16/2013 11:13 AM
Surr: 1,2-Dichloroethane-d4	105	0	70-127		%REC	1	11/16/2013 11:13 AM
Surr: 4-Bromofluorobenzene	102	0	80-120		%REC	1	11/16/2013 11:13 AM
Surr: Dibromofluoromethane	109	0	73-128		%REC	1	11/16/2013 11:13 AM
Surr: Toluene-d8	102	0	80-120		%REC	1	11/16/2013 11:13 AM
HEXAVALENT CHROMIUM BY IC							
			EPA 218.6				
RunID: **IC6_131114A**	QC Batch: **R91206**			PrepDate:			Analyst: **PN**
Hexavalent Chromium	15	0.024	0.20		µg/L	1	11/14/2013 06:52 PM
DISSOLVED METALS BY ICP-MS							
	EPA 3010A		**EPA 6020**				
RunID: **ICP7_131115A**	QC Batch: **44365**			PrepDate:	**11/13/2013**		Analyst: **CEI**
Arsenic	1.9	0.027	0.10		µg/L	1	11/15/2013 02:21 PM
Chromium	14	0.030	1.0		µg/L	1	11/15/2013 02:21 PM
Manganese	61	0.026	0.50		µg/L	1	11/19/2013 05:34 AM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT: Cardno ATC
Lab Order: N011443
Project: Maryland Square, 085.42620.0001
Lab ID: N011443-049

Client Sample ID: MW-40 CMT-45
Collection Date: 11/6/2013 2:30:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS5_131116B**	QC Batch: **P13VW183**			PrepDate:			Analyst: **QBM**
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	11/17/2013 04:12 AM
cis-1,2-Dichloroethene	ND	0.057	0.50		µg/L	1	11/17/2013 04:12 AM
Tetrachloroethene	77	0.12	0.50		µg/L	1	11/17/2013 04:12 AM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	11/17/2013 04:12 AM
Trichloroethene	1.1	0.075	0.50		µg/L	1	11/17/2013 04:12 AM
Vinyl chloride	ND	0.082	0.50		µg/L	1	11/17/2013 04:12 AM
Surr: 1,2-Dichloroethane-d4	108	0	70-127		%REC	1	11/17/2013 04:12 AM
Surr: 4-Bromofluorobenzene	103	0	80-120		%REC	1	11/17/2013 04:12 AM
Surr: Dibromofluoromethane	110	0	73-128		%REC	1	11/17/2013 04:12 AM
Surr: Toluene-d8	103	0	80-120		%REC	1	11/17/2013 04:12 AM
HEXAVALENT CHROMIUM BY IC							
			EPA 218.6				
RunID: **IC6_131114A**	QC Batch: **R91206**			PrepDate:			Analyst: **PN**
Hexavalent Chromium	6.1	0.024	0.20		µg/L	1	11/14/2013 05:04 PM
DISSOLVED METALS BY ICP-MS							
	EPA 3010A		**EPA 6020**				
RunID: **ICP7_131115A**	QC Batch: **44365**			PrepDate:	**11/13/2013**		Analyst: **CEI**
Arsenic	1.5	0.027	0.10		µg/L	1	11/15/2013 02:26 PM
Chromium	6.0	0.030	1.0		µg/L	1	11/15/2013 02:26 PM
Manganese	110	0.026	0.50		µg/L	1	11/19/2013 05:40 AM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT: Cardno ATC
Lab Order: N011443
Project: Maryland Square, 085.42620.0001
Lab ID: N011443-050

Client Sample ID: MW-40 CMT-50
Collection Date: 11/6/2013 12:30:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS5_131116B**	QC Batch: **P13VW183**			PrepDate:			Analyst: **QBM**
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	11/17/2013 03:45 AM
cis-1,2-Dichloroethene	ND	0.057	0.50		µg/L	1	11/17/2013 03:45 AM
Tetrachloroethene	120	0.59	2.5		µg/L	5	11/18/2013 04:39 AM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	11/17/2013 03:45 AM
Trichloroethene	1.8	0.075	0.50		µg/L	1	11/17/2013 03:45 AM
Vinyl chloride	ND	0.082	0.50		µg/L	1	11/17/2013 03:45 AM
Surr: 1,2-Dichloroethane-d4	104	0	70-127		%REC	1	11/17/2013 03:45 AM
Surr: 1,2-Dichloroethane-d4	100	0	70-127		%REC	5	11/18/2013 04:39 AM
Surr: 4-Bromofluorobenzene	96.9	0	80-120		%REC	5	11/18/2013 04:39 AM
Surr: 4-Bromofluorobenzene	98.6	0	80-120		%REC	1	11/17/2013 03:45 AM
Surr: Dibromofluoromethane	104	0	73-128		%REC	5	11/18/2013 04:39 AM
Surr: Dibromofluoromethane	108	0	73-128		%REC	1	11/17/2013 03:45 AM
Surr: Toluene-d8	101	0	80-120		%REC	5	11/18/2013 04:39 AM
Surr: Toluene-d8	101	0	80-120		%REC	1	11/17/2013 03:45 AM
HEXAVALENT CHROMIUM BY IC							
			EPA 218.6				
RunID: **IC6_131114A**	QC Batch: **R91206**			PrepDate:			Analyst: **PN**
Hexavalent Chromium	0.35	0.024	0.20		µg/L	1	11/14/2013 05:24 PM
DISSOLVED METALS BY ICP-MS							
	EPA 3010A		**EPA 6020**				
RunID: **ICP7_131115A**	QC Batch: **44365**			PrepDate:	**11/13/2013**		Analyst: **CEI**
Arsenic	1.9	0.027	0.10		µg/L	1	11/15/2013 02:32 PM
Chromium	ND	0.030	1.0		µg/L	1	11/15/2013 02:32 PM
Manganese	250	0.13	2.5		µg/L	5	11/19/2013 06:41 AM

CLIENT: Cardno ATC
Lab Order: N011443
Project: Maryland Square, 085.42620.0001
Lab ID: N011443-051

Client Sample ID: MW-40 CMT-55
Collection Date: 11/6/2013 2:00:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS5_131116B**	QC Batch: **P13VW183**			PrepDate:			Analyst: **QBM**
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	11/17/2013 03:17 AM
cis-1,2-Dichloroethene	ND	0.057	0.50		µg/L	1	11/17/2013 03:17 AM
Tetrachloroethene	110	0.59	2.5		µg/L	5	11/18/2013 05:06 AM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	11/17/2013 03:17 AM
Trichloroethene	0.86	0.075	0.50		µg/L	1	11/17/2013 03:17 AM
Vinyl chloride	ND	0.082	0.50		µg/L	1	11/17/2013 03:17 AM
Surr: 1,2-Dichloroethane-d4	103	0	70-127		%REC	1	11/17/2013 03:17 AM
Surr: 1,2-Dichloroethane-d4	103	0	70-127		%REC	5	11/18/2013 05:06 AM
Surr: 4-Bromofluorobenzene	99.2	0	80-120		%REC	5	11/18/2013 05:06 AM
Surr: 4-Bromofluorobenzene	100	0	80-120		%REC	1	11/17/2013 03:17 AM
Surr: Dibromofluoromethane	104	0	73-128		%REC	5	11/18/2013 05:06 AM
Surr: Dibromofluoromethane	105	0	73-128		%REC	1	11/17/2013 03:17 AM
Surr: Toluene-d8	103	0	80-120		%REC	5	11/18/2013 05:06 AM
Surr: Toluene-d8	100	0	80-120		%REC	1	11/17/2013 03:17 AM
HEXAVALENT CHROMIUM BY IC							
			EPA 218.6				
RunID: **IC6_131114A**	QC Batch: **R91206**			PrepDate:			Analyst: **PN**
Hexavalent Chromium	11	0.024	0.20		µg/L	1	11/14/2013 07:12 PM
DISSOLVED METALS BY ICP-MS							
	EPA 3010A		**EPA 6020**				
RunID: **ICP7_131115A**	QC Batch: **44365**			PrepDate:	**11/13/2013**		Analyst: **CEI**
Arsenic	2.4	0.027	0.10		µg/L	1	11/15/2013 02:37 PM
Chromium	20	0.030	1.0		µg/L	1	11/15/2013 02:37 PM
Manganese	69	0.026	0.50		µg/L	1	11/19/2013 05:45 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT: Cardno ATC
Lab Order: N011443
Project: Maryland Square, 085.42620.0001
Lab ID: N011443-052

Client Sample ID: MW-40 CMT-60
Collection Date: 11/6/2013 11:30:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS5_131116B**	QC Batch: **P13VW183**			PrepDate:			Analyst: **QBM**
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	11/17/2013 02:50 AM
cis-1,2-Dichloroethene	2.5	0.057	0.50		µg/L	1	11/17/2013 02:50 AM
Tetrachloroethene	190	0.59	2.5		µg/L	5	11/18/2013 05:33 AM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	11/17/2013 02:50 AM
Trichloroethene	3.6	0.075	0.50		µg/L	1	11/17/2013 02:50 AM
Vinyl chloride	ND	0.082	0.50		µg/L	1	11/17/2013 02:50 AM
Surr: 1,2-Dichloroethane-d4	106	0	70-127		%REC	1	11/17/2013 02:50 AM
Surr: 1,2-Dichloroethane-d4	99.4	0	70-127		%REC	5	11/18/2013 05:33 AM
Surr: 4-Bromofluorobenzene	98.1	0	80-120		%REC	5	11/18/2013 05:33 AM
Surr: 4-Bromofluorobenzene	101	0	80-120		%REC	1	11/17/2013 02:50 AM
Surr: Dibromofluoromethane	105	0	73-128		%REC	5	11/18/2013 05:33 AM
Surr: Dibromofluoromethane	107	0	73-128		%REC	1	11/17/2013 02:50 AM
Surr: Toluene-d8	101	0	80-120		%REC	5	11/18/2013 05:33 AM
Surr: Toluene-d8	101	0	80-120		%REC	1	11/17/2013 02:50 AM
HEXAVALENT CHROMIUM BY IC							
			EPA 218.6				
RunID: **IC6_131114A**	QC Batch: **R91206**			PrepDate:			Analyst: **PN**
Hexavalent Chromium	3.7	0.024	0.20		µg/L	1	11/14/2013 05:52 PM
DISSOLVED METALS BY ICP-MS							
	EPA 3010A		**EPA 6020**				
RunID: **ICP7_131115A**	QC Batch: **44365**			PrepDate:	**11/13/2013**		Analyst: **CEI**
Arsenic	0.96	0.027	0.10		µg/L	1	11/15/2013 02:54 PM
Chromium	3.2	0.030	1.0		µg/L	1	11/15/2013 02:54 PM
Manganese	43	0.026	0.50		µg/L	1	11/19/2013 05:51 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT: Cardno ATC
Lab Order: N011443
Project: Maryland Square, 085.42620.0001
Lab ID: N011443-053

Client Sample ID: MW-40 CMT-60 Dup
Collection Date: 11/6/2013 11:30:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS5_131116B**	QC Batch: **P13VW183**			PrepDate:			Analyst: **QBM**
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	11/17/2013 02:23 AM
cis-1,2-Dichloroethene	3.1	0.057	0.50		µg/L	1	11/17/2013 02:23 AM
Tetrachloroethene	410	1.2	5.0		µg/L	10	11/18/2013 06:00 AM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	11/17/2013 02:23 AM
Trichloroethene	3.7	0.075	0.50		µg/L	1	11/17/2013 02:23 AM
Vinyl chloride	ND	0.082	0.50		µg/L	1	11/17/2013 02:23 AM
Surr: 1,2-Dichloroethane-d4	98.6	0	70-127		%REC	10	11/18/2013 06:00 AM
Surr: 1,2-Dichloroethane-d4	103	0	70-127		%REC	1	11/17/2013 02:23 AM
Surr: 4-Bromofluorobenzene	99.1	0	80-120		%REC	10	11/18/2013 06:00 AM
Surr: 4-Bromofluorobenzene	99.4	0	80-120		%REC	1	11/17/2013 02:23 AM
Surr: Dibromofluoromethane	103	0	73-128		%REC	10	11/18/2013 06:00 AM
Surr: Dibromofluoromethane	106	0	73-128		%REC	1	11/17/2013 02:23 AM
Surr: Toluene-d8	101	0	80-120		%REC	10	11/18/2013 06:00 AM
Surr: Toluene-d8	102	0	80-120		%REC	1	11/17/2013 02:23 AM

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified
DO	Surrogate Diluted Out

CLIENT: Cardno ATC
Lab Order: N011443
Project: Maryland Square, 085.42620.0001
Lab ID: N011443-054

Client Sample ID: MW-41
Collection Date: 11/11/2013 9:38:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS5_131119A**	QC Batch: **P13VW186**			PrepDate:			Analyst: **QBM**
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	11/20/2013 02:27 AM
cis-1,2-Dichloroethene	ND	0.057	0.50		µg/L	1	11/20/2013 02:27 AM
Tetrachloroethene	2.6	0.12	0.50		µg/L	1	11/20/2013 02:27 AM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	11/20/2013 02:27 AM
Trichloroethene	ND	0.075	0.50		µg/L	1	11/20/2013 02:27 AM
Vinyl chloride	ND	0.082	0.50		µg/L	1	11/20/2013 02:27 AM
Surr: 1,2-Dichloroethane-d4	105	0	70-127		%REC	1	11/20/2013 02:27 AM
Surr: 4-Bromofluorobenzene	99.0	0	80-120		%REC	1	11/20/2013 02:27 AM
Surr: Dibromofluoromethane	105	0	73-128		%REC	1	11/20/2013 02:27 AM
Surr: Toluene-d8	102	0	80-120		%REC	1	11/20/2013 02:27 AM

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified
DO	Surrogate Diluted Out

CLIENT: Cardno ATC
Lab Order: N011443
Project: Maryland Square, 085.42620.0001
Lab ID: N011443-055

Client Sample ID: MW-42
Collection Date: 11/11/2013 8:46:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS5_131119A**	QC Batch: **P13VW186**			PrepDate:			Analyst: **QBM**
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	11/20/2013 01:59 AM
cis-1,2-Dichloroethene	ND	0.057	0.50		µg/L	1	11/20/2013 01:59 AM
Tetrachloroethene	0.60	0.12	0.50		µg/L	1	11/20/2013 01:59 AM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	11/20/2013 01:59 AM
Trichloroethene	ND	0.075	0.50		µg/L	1	11/20/2013 01:59 AM
Vinyl chloride	ND	0.082	0.50		µg/L	1	11/20/2013 01:59 AM
Surr: 1,2-Dichloroethane-d4	102	0	70-127		%REC	1	11/20/2013 01:59 AM
Surr: 4-Bromofluorobenzene	98.8	0	80-120		%REC	1	11/20/2013 01:59 AM
Surr: Dibromofluoromethane	104	0	73-128		%REC	1	11/20/2013 01:59 AM
Surr: Toluene-d8	99.5	0	80-120		%REC	1	11/20/2013 01:59 AM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT: Cardno ATC
Lab Order: N011443
Project: Maryland Square, 085.42620.0001
Lab ID: N011443-056

Client Sample ID: MW-43
Collection Date: 11/8/2013 9:45:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS5_131119A**	QC Batch: **P13VW186**			PrepDate:			Analyst: **QBM**
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	11/19/2013 10:48 PM
cis-1,2-Dichloroethene	ND	0.057	0.50		µg/L	1	11/19/2013 10:48 PM
Tetrachloroethene	ND	0.12	0.50		µg/L	1	11/19/2013 10:48 PM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	11/19/2013 10:48 PM
Trichloroethene	ND	0.075	0.50		µg/L	1	11/19/2013 10:48 PM
Vinyl chloride	ND	0.082	0.50		µg/L	1	11/19/2013 10:48 PM
Surr: 1,2-Dichloroethane-d4	104	0	70-127		%REC	1	11/19/2013 10:48 PM
Surr: 4-Bromofluorobenzene	98.4	0	80-120		%REC	1	11/19/2013 10:48 PM
Surr: Dibromofluoromethane	104	0	73-128		%REC	1	11/19/2013 10:48 PM
Surr: Toluene-d8	100	0	80-120		%REC	1	11/19/2013 10:48 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT: Cardno ATC
Lab Order: N011443
Project: Maryland Square, 085.42620.0001
Lab ID: N011443-057

Client Sample ID: Trip Blank
Collection Date: 11/4/2013 7:10:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS5_131114A**	QC Batch: **P13VW180**			PrepDate:			Analyst: **QBM**
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	11/14/2013 11:21 AM
cis-1,2-Dichloroethene	ND	0.057	0.50		µg/L	1	11/14/2013 11:21 AM
Tetrachloroethene	ND	0.12	0.50		µg/L	1	11/14/2013 11:21 AM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	11/14/2013 11:21 AM
Trichloroethene	ND	0.075	0.50		µg/L	1	11/14/2013 11:21 AM
Vinyl chloride	ND	0.082	0.50		µg/L	1	11/14/2013 11:21 AM
Surr: 1,2-Dichloroethane-d4	105	0	70-127		%REC	1	11/14/2013 11:21 AM
Surr: 4-Bromofluorobenzene	99.8	0	80-120		%REC	1	11/14/2013 11:21 AM
Surr: Dibromofluoromethane	108	0	73-128		%REC	1	11/14/2013 11:21 AM
Surr: Toluene-d8	100	0	80-120		%REC	1	11/14/2013 11:21 AM

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified
DO	Surrogate Diluted Out

CLIENT: Cardno ATC
Lab Order: N011443
Project: Maryland Square, 085.42620.0001
Lab ID: N011443-058

Client Sample ID: Field Blank
Collection Date: 11/4/2013 12:25:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS5_131114A**	QC Batch: **P13VW180**			PrepDate:			Analyst: **QBM**
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	11/14/2013 11:49 AM
cis-1,2-Dichloroethene	ND	0.057	0.50		µg/L	1	11/14/2013 11:49 AM
Tetrachloroethene	ND	0.12	0.50		µg/L	1	11/14/2013 11:49 AM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	11/14/2013 11:49 AM
Trichloroethene	ND	0.075	0.50		µg/L	1	11/14/2013 11:49 AM
Vinyl chloride	ND	0.082	0.50		µg/L	1	11/14/2013 11:49 AM
Surr: 1,2-Dichloroethane-d4	106	0	70-127		%REC	1	11/14/2013 11:49 AM
Surr: 4-Bromofluorobenzene	99.5	0	80-120		%REC	1	11/14/2013 11:49 AM
Surr: Dibromofluoromethane	109	0	73-128		%REC	1	11/14/2013 11:49 AM
Surr: Toluene-d8	100	0	80-120		%REC	1	11/14/2013 11:49 AM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT: Cardno ATC
Lab Order: N011443
Project: Maryland Square, 085.42620.0001
Lab ID: N011443-059

Client Sample ID: Equip Rinse
Collection Date: 11/4/2013 12:49:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS5_131114A**	QC Batch: **P13VW180**			PrepDate:			Analyst: **QBM**
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	11/14/2013 12:43 PM
cis-1,2-Dichloroethene	ND	0.057	0.50		µg/L	1	11/14/2013 12:43 PM
Tetrachloroethene	ND	0.12	0.50		µg/L	1	11/14/2013 12:43 PM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	11/14/2013 12:43 PM
Trichloroethene	ND	0.075	0.50		µg/L	1	11/14/2013 12:43 PM
Vinyl chloride	ND	0.082	0.50		µg/L	1	11/14/2013 12:43 PM
Surr: 1,2-Dichloroethane-d4	105	0	70-127		%REC	1	11/14/2013 12:43 PM
Surr: 4-Bromofluorobenzene	97.8	0	80-120		%REC	1	11/14/2013 12:43 PM
Surr: Dibromofluoromethane	110	0	73-128		%REC	1	11/14/2013 12:43 PM
Surr: Toluene-d8	100	0	80-120		%REC	1	11/14/2013 12:43 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT: Cardno ATC
Lab Order: N011443
Project: Maryland Square, 085.42620.0001
Lab ID: N011443-060

Client Sample ID: Trip Blank
Collection Date: 11/5/2013 6:45:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS5_131114A**	QC Batch: **P13VW180**			PrepDate:			Analyst: **QBM**
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	11/14/2013 01:50 PM
cis-1,2-Dichloroethene	ND	0.057	0.50		µg/L	1	11/14/2013 01:50 PM
Tetrachloroethene	ND	0.12	0.50		µg/L	1	11/14/2013 01:50 PM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	11/14/2013 01:50 PM
Trichloroethene	ND	0.075	0.50		µg/L	1	11/14/2013 01:50 PM
Vinyl chloride	ND	0.082	0.50		µg/L	1	11/14/2013 01:50 PM
Surr: 1,2-Dichloroethane-d4	103	0	70-127		%REC	1	11/14/2013 01:50 PM
Surr: 4-Bromofluorobenzene	99.4	0	80-120		%REC	1	11/14/2013 01:50 PM
Surr: Dibromofluoromethane	108	0	73-128		%REC	1	11/14/2013 01:50 PM
Surr: Toluene-d8	101	0	80-120		%REC	1	11/14/2013 01:50 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT: Cardno ATC
Lab Order: N011443
Project: Maryland Square, 085.42620.0001
Lab ID: N011443-061

Client Sample ID: Field Blank
Collection Date: 11/5/2013 10:30:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS5_131114A**	QC Batch: **P13VW180**			PrepDate:			Analyst: **QBM**
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	11/14/2013 02:18 PM
cis-1,2-Dichloroethene	ND	0.057	0.50		µg/L	1	11/14/2013 02:18 PM
Tetrachloroethene	ND	0.12	0.50		µg/L	1	11/14/2013 02:18 PM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	11/14/2013 02:18 PM
Trichloroethene	ND	0.075	0.50		µg/L	1	11/14/2013 02:18 PM
Vinyl chloride	ND	0.082	0.50		µg/L	1	11/14/2013 02:18 PM
Surr: 1,2-Dichloroethane-d4	106	0	70-127		%REC	1	11/14/2013 02:18 PM
Surr: 4-Bromofluorobenzene	99.4	0	80-120		%REC	1	11/14/2013 02:18 PM
Surr: Dibromofluoromethane	109	0	73-128		%REC	1	11/14/2013 02:18 PM
Surr: Toluene-d8	101	0	80-120		%REC	1	11/14/2013 02:18 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT: Cardno ATC
Lab Order: N011443
Project: Maryland Square, 085.42620.0001
Lab ID: N011443-062

Client Sample ID: Equip Rinse
Collection Date: 11/5/2013 10:50:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS5_131114A**	QC Batch: **P13VW180**			PrepDate:			Analyst: **QBM**
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	11/14/2013 02:45 PM
cis-1,2-Dichloroethene	ND	0.057	0.50		µg/L	1	11/14/2013 02:45 PM
Tetrachloroethene	ND	0.12	0.50		µg/L	1	11/14/2013 02:45 PM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	11/14/2013 02:45 PM
Trichloroethene	ND	0.075	0.50		µg/L	1	11/14/2013 02:45 PM
Vinyl chloride	ND	0.082	0.50		µg/L	1	11/14/2013 02:45 PM
Surr: 1,2-Dichloroethane-d4	105	0	70-127		%REC	1	11/14/2013 02:45 PM
Surr: 4-Bromofluorobenzene	100	0	80-120		%REC	1	11/14/2013 02:45 PM
Surr: Dibromofluoromethane	107	0	73-128		%REC	1	11/14/2013 02:45 PM
Surr: Toluene-d8	101	0	80-120		%REC	1	11/14/2013 02:45 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT: Cardno ATC
Lab Order: N011443
Project: Maryland Square, 085.42620.0001
Lab ID: N011443-063

Client Sample ID: Trip Blank
Collection Date: 11/6/2013 7:10:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS5_131116A**	QC Batch: **P13VW182**			PrepDate:			Analyst: **QBM**
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	11/16/2013 02:52 PM
cis-1,2-Dichloroethene	ND	0.057	0.50		µg/L	1	11/16/2013 02:52 PM
Tetrachloroethene	ND	0.12	0.50		µg/L	1	11/16/2013 02:52 PM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	11/16/2013 02:52 PM
Trichloroethene	ND	0.075	0.50		µg/L	1	11/16/2013 02:52 PM
Vinyl chloride	ND	0.082	0.50		µg/L	1	11/16/2013 02:52 PM
Surr: 1,2-Dichloroethane-d4	104	0	70-127		%REC	1	11/16/2013 02:52 PM
Surr: 4-Bromofluorobenzene	100	0	80-120		%REC	1	11/16/2013 02:52 PM
Surr: Dibromofluoromethane	108	0	73-128		%REC	1	11/16/2013 02:52 PM
Surr: Toluene-d8	102	0	80-120		%REC	1	11/16/2013 02:52 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT: Cardno ATC
Lab Order: N011443
Project: Maryland Square, 085.42620.0001
Lab ID: N011443-064

Client Sample ID: Field Blank
Collection Date: 11/6/2013 12:35:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS5_131116A**	QC Batch: **P13VW182**			PrepDate:			Analyst: **QBM**
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	11/16/2013 03:19 PM
cis-1,2-Dichloroethene	ND	0.057	0.50		µg/L	1	11/16/2013 03:19 PM
Tetrachloroethene	ND	0.12	0.50		µg/L	1	11/16/2013 03:19 PM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	11/16/2013 03:19 PM
Trichloroethene	ND	0.075	0.50		µg/L	1	11/16/2013 03:19 PM
Vinyl chloride	ND	0.082	0.50		µg/L	1	11/16/2013 03:19 PM
Surr: 1,2-Dichloroethane-d4	103	0	70-127		%REC	1	11/16/2013 03:19 PM
Surr: 4-Bromofluorobenzene	99.0	0	80-120		%REC	1	11/16/2013 03:19 PM
Surr: Dibromofluoromethane	107	0	73-128		%REC	1	11/16/2013 03:19 PM
Surr: Toluene-d8	101	0	80-120		%REC	1	11/16/2013 03:19 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified
DO	Surrogate Diluted Out

CLIENT: Cardno ATC
Lab Order: N011443
Project: Maryland Square, 085.42620.0001
Lab ID: N011443-065

Client Sample ID: Equip Rinse
Collection Date: 11/6/2013 12:35:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS5_131116A**	QC Batch: **P13VW182**			PrepDate:			Analyst: **QBM**
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	11/16/2013 03:47 PM
cis-1,2-Dichloroethene	ND	0.057	0.50		µg/L	1	11/16/2013 03:47 PM
Tetrachloroethene	ND	0.12	0.50		µg/L	1	11/16/2013 03:47 PM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	11/16/2013 03:47 PM
Trichloroethene	ND	0.075	0.50		µg/L	1	11/16/2013 03:47 PM
Vinyl chloride	ND	0.082	0.50		µg/L	1	11/16/2013 03:47 PM
Surr: 1,2-Dichloroethane-d4	105	0	70-127		%REC	1	11/16/2013 03:47 PM
Surr: 4-Bromofluorobenzene	99.2	0	80-120		%REC	1	11/16/2013 03:47 PM
Surr: Dibromofluoromethane	107	0	73-128		%REC	1	11/16/2013 03:47 PM
Surr: Toluene-d8	101	0	80-120		%REC	1	11/16/2013 03:47 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT: Cardno ATC
Lab Order: N011443
Project: Maryland Square, 085.42620.0001
Lab ID: N011443-066

Client Sample ID: Trip Blank
Collection Date: 11/7/2013 6:50:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS5_131116A**	QC Batch: **P13VW182**			PrepDate:			Analyst: **QBM**
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	11/16/2013 04:14 PM
cis-1,2-Dichloroethene	ND	0.057	0.50		µg/L	1	11/16/2013 04:14 PM
Tetrachloroethene	ND	0.12	0.50		µg/L	1	11/16/2013 04:14 PM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	11/16/2013 04:14 PM
Trichloroethene	ND	0.075	0.50		µg/L	1	11/16/2013 04:14 PM
Vinyl chloride	ND	0.082	0.50		µg/L	1	11/16/2013 04:14 PM
Surr: 1,2-Dichloroethane-d4	105	0	70-127		%REC	1	11/16/2013 04:14 PM
Surr: 4-Bromofluorobenzene	98.0	0	80-120		%REC	1	11/16/2013 04:14 PM
Surr: Dibromofluoromethane	108	0	73-128		%REC	1	11/16/2013 04:14 PM
Surr: Toluene-d8	99.7	0	80-120		%REC	1	11/16/2013 04:14 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT: Cardno ATC
Lab Order: N011443
Project: Maryland Square, 085.42620.0001
Lab ID: N011443-067

Client Sample ID: Field Blank
Collection Date: 11/7/2013 11:00:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS5_131116A**	QC Batch: **P13VW182**			PrepDate:			Analyst: **QBM**
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	11/16/2013 04:41 PM
cis-1,2-Dichloroethene	ND	0.057	0.50		µg/L	1	11/16/2013 04:41 PM
Tetrachloroethene	ND	0.12	0.50		µg/L	1	11/16/2013 04:41 PM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	11/16/2013 04:41 PM
Trichloroethene	ND	0.075	0.50		µg/L	1	11/16/2013 04:41 PM
Vinyl chloride	ND	0.082	0.50		µg/L	1	11/16/2013 04:41 PM
Surr: 1,2-Dichloroethane-d4	105	0	70-127		%REC	1	11/16/2013 04:41 PM
Surr: 4-Bromofluorobenzene	99.7	0	80-120		%REC	1	11/16/2013 04:41 PM
Surr: Dibromofluoromethane	107	0	73-128		%REC	1	11/16/2013 04:41 PM
Surr: Toluene-d8	102	0	80-120		%REC	1	11/16/2013 04:41 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified
DO	Surrogate Diluted Out

CLIENT: Cardno ATC
Lab Order: N011443
Project: Maryland Square, 085.42620.0001
Lab ID: N011443-068

Client Sample ID: Equip Rinse
Collection Date: 11/7/2013 10:55:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS5_131116A**	QC Batch: **P13VW182**			PrepDate:			Analyst: **QBM**
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	11/16/2013 05:09 PM
cis-1,2-Dichloroethene	ND	0.057	0.50		µg/L	1	11/16/2013 05:09 PM
Tetrachloroethene	ND	0.12	0.50		µg/L	1	11/16/2013 05:09 PM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	11/16/2013 05:09 PM
Trichloroethene	ND	0.075	0.50		µg/L	1	11/16/2013 05:09 PM
Vinyl chloride	ND	0.082	0.50		µg/L	1	11/16/2013 05:09 PM
Surr: 1,2-Dichloroethane-d4	103	0	70-127		%REC	1	11/16/2013 05:09 PM
Surr: 4-Bromofluorobenzene	98.0	0	80-120		%REC	1	11/16/2013 05:09 PM
Surr: Dibromofluoromethane	107	0	73-128		%REC	1	11/16/2013 05:09 PM
Surr: Toluene-d8	101	0	80-120		%REC	1	11/16/2013 05:09 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT: Cardno ATC
Lab Order: N011443
Project: Maryland Square, 085.42620.0001
Lab ID: N011443-069

Client Sample ID: Trip Blank
Collection Date: 11/8/2013 6:52:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS5_131116B**	QC Batch: **P13VW183**			PrepDate:			Analyst: **QBM**
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	11/16/2013 11:39 PM
cis-1,2-Dichloroethene	ND	0.057	0.50		µg/L	1	11/16/2013 11:39 PM
Tetrachloroethene	ND	0.12	0.50		µg/L	1	11/16/2013 11:39 PM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	11/16/2013 11:39 PM
Trichloroethene	ND	0.075	0.50		µg/L	1	11/16/2013 11:39 PM
Vinyl chloride	ND	0.082	0.50		µg/L	1	11/16/2013 11:39 PM
Surr: 1,2-Dichloroethane-d4	104	0	70-127		%REC	1	11/16/2013 11:39 PM
Surr: 4-Bromofluorobenzene	99.6	0	80-120		%REC	1	11/16/2013 11:39 PM
Surr: Dibromofluoromethane	105	0	73-128		%REC	1	11/16/2013 11:39 PM
Surr: Toluene-d8	101	0	80-120		%REC	1	11/16/2013 11:39 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT: Cardno ATC
Lab Order: N011443
Project: Maryland Square, 085.42620.0001
Lab ID: N011443-070

Client Sample ID: Field Blank
Collection Date: 11/8/2013 11:30:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS5_131116B**	QC Batch: **P13VW183**			PrepDate:			Analyst: **QBM**
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	11/17/2013 12:06 AM
cis-1,2-Dichloroethene	ND	0.057	0.50		µg/L	1	11/17/2013 12:06 AM
Tetrachloroethene	ND	0.12	0.50		µg/L	1	11/17/2013 12:06 AM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	11/17/2013 12:06 AM
Trichloroethene	ND	0.075	0.50		µg/L	1	11/17/2013 12:06 AM
Vinyl chloride	ND	0.082	0.50		µg/L	1	11/17/2013 12:06 AM
Surr: 1,2-Dichloroethane-d4	101	0	70-127		%REC	1	11/17/2013 12:06 AM
Surr: 4-Bromofluorobenzene	100	0	80-120		%REC	1	11/17/2013 12:06 AM
Surr: Dibromofluoromethane	105	0	73-128		%REC	1	11/17/2013 12:06 AM
Surr: Toluene-d8	101	0	80-120		%REC	1	11/17/2013 12:06 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT: Cardno ATC
Lab Order: N011443
Project: Maryland Square, 085.42620.0001
Lab ID: N011443-071

Client Sample ID: Equip Rinse
Collection Date: 11/8/2013 12:10:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS5_131119A**	QC Batch: **P13VW186**			PrepDate:			Analyst: **QBM**
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	11/19/2013 09:54 PM
cis-1,2-Dichloroethene	ND	0.057	0.50		µg/L	1	11/19/2013 09:54 PM
Tetrachloroethene	ND	0.12	0.50		µg/L	1	11/19/2013 09:54 PM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	11/19/2013 09:54 PM
Trichloroethene	ND	0.075	0.50		µg/L	1	11/19/2013 09:54 PM
Vinyl chloride	ND	0.082	0.50		µg/L	1	11/19/2013 09:54 PM
Surr: 1,2-Dichloroethane-d4	109	0	70-127		%REC	1	11/19/2013 09:54 PM
Surr: 4-Bromofluorobenzene	104	0	80-120		%REC	1	11/19/2013 09:54 PM
Surr: Dibromofluoromethane	108	0	73-128		%REC	1	11/19/2013 09:54 PM
Surr: Toluene-d8	102	0	80-120		%REC	1	11/19/2013 09:54 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT: Cardno ATC
Lab Order: N011443
Project: Maryland Square, 085.42620.0001
Lab ID: N011443-072

Client Sample ID: Trip Blank
Collection Date: 11/11/2013 7:10:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS5_131119A**	QC Batch: **P13VW186**			PrepDate:			Analyst: **QBM**
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	11/19/2013 11:16 PM
cis-1,2-Dichloroethene	ND	0.057	0.50		µg/L	1	11/19/2013 11:16 PM
Tetrachloroethene	ND	0.12	0.50		µg/L	1	11/19/2013 11:16 PM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	11/19/2013 11:16 PM
Trichloroethene	ND	0.075	0.50		µg/L	1	11/19/2013 11:16 PM
Vinyl chloride	ND	0.082	0.50		µg/L	1	11/19/2013 11:16 PM
Surr: 1,2-Dichloroethane-d4	100	0	70-127		%REC	1	11/19/2013 11:16 PM
Surr: 4-Bromofluorobenzene	99.7	0	80-120		%REC	1	11/19/2013 11:16 PM
Surr: Dibromofluoromethane	102	0	73-128		%REC	1	11/19/2013 11:16 PM
Surr: Toluene-d8	100	0	80-120		%REC	1	11/19/2013 11:16 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT: Cardno ATC
Lab Order: N011443
Project: Maryland Square, 085.42620.0001
Lab ID: N011443-073

Client Sample ID: Field Blank
Collection Date: 11/11/2013 10:45:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS5_131119A**	QC Batch: **P13VW186**			PrepDate:			Analyst: **QBM**
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	11/19/2013 11:43 PM
cis-1,2-Dichloroethene	ND	0.057	0.50		µg/L	1	11/19/2013 11:43 PM
Tetrachloroethene	ND	0.12	0.50		µg/L	1	11/19/2013 11:43 PM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	11/19/2013 11:43 PM
Trichloroethene	ND	0.075	0.50		µg/L	1	11/19/2013 11:43 PM
Vinyl chloride	ND	0.082	0.50		µg/L	1	11/19/2013 11:43 PM
Surr: 1,2-Dichloroethane-d4	99.6	0	70-127		%REC	1	11/19/2013 11:43 PM
Surr: 4-Bromofluorobenzene	98.2	0	80-120		%REC	1	11/19/2013 11:43 PM
Surr: Dibromofluoromethane	101	0	73-128		%REC	1	11/19/2013 11:43 PM
Surr: Toluene-d8	99.8	0	80-120		%REC	1	11/19/2013 11:43 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT: Cardno ATC
Lab Order: N011443
Project: Maryland Square, 085.42620.0001
Lab ID: N011443-074

Client Sample ID: Equip Rinse
Collection Date: 11/11/2013 11:25:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS5_131119A**	QC Batch: **P13VW186**			PrepDate:			Analyst: **QBM**
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	11/20/2013 12:10 AM
cis-1,2-Dichloroethene	ND	0.057	0.50		µg/L	1	11/20/2013 12:10 AM
Tetrachloroethene	ND	0.12	0.50		µg/L	1	11/20/2013 12:10 AM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	11/20/2013 12:10 AM
Trichloroethene	ND	0.075	0.50		µg/L	1	11/20/2013 12:10 AM
Vinyl chloride	ND	0.082	0.50		µg/L	1	11/20/2013 12:10 AM
Surr: 1,2-Dichloroethane-d4	101	0	70-127		%REC	1	11/20/2013 12:10 AM
Surr: 4-Bromofluorobenzene	101	0	80-120		%REC	1	11/20/2013 12:10 AM
Surr: Dibromofluoromethane	102	0	73-128		%REC	1	11/20/2013 12:10 AM
Surr: Toluene-d8	103	0	80-120		%REC	1	11/20/2013 12:10 AM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT: Cardno ATC
Lab Order: N011443
Project: Maryland Square, 085.42620.0001
Lab ID: N011443-075

Client Sample ID: Trip Blank
Collection Date: 11/12/2013 7:05:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS5_131119A**	QC Batch: **P13VW186**			PrepDate:			Analyst: **QBM**
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	11/20/2013 12:38 AM
cis-1,2-Dichloroethene	ND	0.057	0.50		µg/L	1	11/20/2013 12:38 AM
Tetrachloroethene	ND	0.12	0.50		µg/L	1	11/20/2013 12:38 AM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	11/20/2013 12:38 AM
Trichloroethene	ND	0.075	0.50		µg/L	1	11/20/2013 12:38 AM
Vinyl chloride	ND	0.082	0.50		µg/L	1	11/20/2013 12:38 AM
Surr: 1,2-Dichloroethane-d4	100	0	70-127		%REC	1	11/20/2013 12:38 AM
Surr: 4-Bromofluorobenzene	100	0	80-120		%REC	1	11/20/2013 12:38 AM
Surr: Dibromofluoromethane	103	0	73-128		%REC	1	11/20/2013 12:38 AM
Surr: Toluene-d8	101	0	80-120		%REC	1	11/20/2013 12:38 AM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT: Cardno ATC
Lab Order: N011443
Project: Maryland Square, 085.42620.0001
Lab ID: N011443-076

Client Sample ID: Field Blank
Collection Date: 11/12/2013 12:05:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS5_131119A**	QC Batch: **P13VW186**			PrepDate:			Analyst: **QBM**
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	11/20/2013 01:05 AM
cis-1,2-Dichloroethene	ND	0.057	0.50		µg/L	1	11/20/2013 01:05 AM
Tetrachloroethene	ND	0.12	0.50		µg/L	1	11/20/2013 01:05 AM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	11/20/2013 01:05 AM
Trichloroethene	ND	0.075	0.50		µg/L	1	11/20/2013 01:05 AM
Vinyl chloride	ND	0.082	0.50		µg/L	1	11/20/2013 01:05 AM
Surr: 1,2-Dichloroethane-d4	104	0	70-127		%REC	1	11/20/2013 01:05 AM
Surr: 4-Bromofluorobenzene	100	0	80-120		%REC	1	11/20/2013 01:05 AM
Surr: Dibromofluoromethane	103	0	73-128		%REC	1	11/20/2013 01:05 AM
Surr: Toluene-d8	100	0	80-120		%REC	1	11/20/2013 01:05 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT: Cardno ATC
Lab Order: N011443
Project: Maryland Square, 085.42620.0001
Lab ID: N011443-077

Client Sample ID: Equip Rinse
Collection Date: 11/12/2013 12:20:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS5_131119A**	QC Batch: **P13VW186**			PrepDate:			Analyst: **QBM**
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	11/20/2013 01:32 AM
cis-1,2-Dichloroethene	ND	0.057	0.50		µg/L	1	11/20/2013 01:32 AM
Tetrachloroethene	ND	0.12	0.50		µg/L	1	11/20/2013 01:32 AM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	11/20/2013 01:32 AM
Trichloroethene	ND	0.075	0.50		µg/L	1	11/20/2013 01:32 AM
Vinyl chloride	ND	0.082	0.50		µg/L	1	11/20/2013 01:32 AM
Surr: 1,2-Dichloroethane-d4	101	0	70-127		%REC	1	11/20/2013 01:32 AM
Surr: 4-Bromofluorobenzene	101	0	80-120		%REC	1	11/20/2013 01:32 AM
Surr: Dibromofluoromethane	103	0	73-128		%REC	1	11/20/2013 01:32 AM
Surr: Toluene-d8	101	0	80-120		%REC	1	11/20/2013 01:32 AM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT: Cardno ATC
Lab Order: N011443
Project: Maryland Square, 085.42620.0001
Lab ID: N011443-078

Client Sample ID: MW-19D3 HV
Collection Date: 11/8/2013 5:15:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS5_131115A**	QC Batch: **P13VW181**			PrepDate:			Analyst: **QBM**
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	11/15/2013 06:58 PM
cis-1,2-Dichloroethene	ND	0.057	0.50		µg/L	1	11/15/2013 06:58 PM
Tetrachloroethene	160	0.59	2.5		µg/L	5	11/16/2013 05:36 PM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	11/15/2013 06:58 PM
Trichloroethene	1.0	0.075	0.50		µg/L	1	11/15/2013 06:58 PM
Vinyl chloride	ND	0.082	0.50		µg/L	1	11/15/2013 06:58 PM
Surr: 1,2-Dichloroethane-d4	105	0	70-127		%REC	5	11/16/2013 05:36 PM
Surr: 1,2-Dichloroethane-d4	103	0	70-127		%REC	1	11/15/2013 06:58 PM
Surr: 4-Bromofluorobenzene	97.6	0	80-120		%REC	5	11/16/2013 05:36 PM
Surr: 4-Bromofluorobenzene	99.0	0	80-120		%REC	1	11/15/2013 06:58 PM
Surr: Dibromofluoromethane	109	0	73-128		%REC	5	11/16/2013 05:36 PM
Surr: Dibromofluoromethane	109	0	73-128		%REC	1	11/15/2013 06:58 PM
Surr: Toluene-d8	101	0	80-120		%REC	5	11/16/2013 05:36 PM
Surr: Toluene-d8	102	0	80-120		%REC	1	11/15/2013 06:58 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT: Cardno ATC
Work Order: N011443
Project: Maryland Square, 085.42620.0001

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_W

Sample ID: **MB-R91206**	SampType: **MBLK**	TestCode: **218.6_W**	Units: **µg/L**	Prep Date:	RunNo: **91206**
Client ID: **PBW**	Batch ID: **R91206**	TestNo: **EPA 218.6**		Analysis Date: **11/14/2013**	SeqNo: **1685682**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20									

Sample ID: **LCS-R91206**	SampType: **LCS**	TestCode: **218.6_W**	Units: **µg/L**	Prep Date:	RunNo: **91206**
Client ID: **LCSW**	Batch ID: **R91206**	TestNo: **EPA 218.6**		Analysis Date: **11/14/2013**	SeqNo: **1685683**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	5.035	0.20	5.000	0	101	90	110				

Sample ID: **N011392-006ADUP**	SampType: **DUP**	TestCode: **218.6_W**	Units: **µg/L**	Prep Date:	RunNo: **91206**
Client ID: **ZZZZZZ**	Batch ID: **R91206**	TestNo: **EPA 218.6**		Analysis Date: **11/14/2013**	SeqNo: **1685685**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.110	0.20						1.122	1.04	20	

Sample ID: **N011393-001AMS**	SampType: **MS**	TestCode: **218.6_W**	Units: **µg/L**	Prep Date:	RunNo: **91206**
Client ID: **ZZZZZZ**	Batch ID: **R91206**	TestNo: **EPA 218.6**		Analysis Date: **11/14/2013**	SeqNo: **1685688**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	10.964	0.20	5.000	5.958	100	90	110				

Sample ID: **N011393-001AMSD**	SampType: **MSD**	TestCode: **218.6_W**	Units: **µg/L**	Prep Date:	RunNo: **91206**
Client ID: **ZZZZZZ**	Batch ID: **R91206**	TestNo: **EPA 218.6**		Analysis Date: **11/14/2013**	SeqNo: **1685689**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	10.997	0.20	5.000	5.958	101	90	110	10.96	0.301	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

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ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS

Sample ID: **MB-44365**	SampType: **MBLK**	TestCode: **6020_DIS**	Units: **µg/L**	Prep Date: **11/13/2013**	RunNo: **91256**
Client ID: **PBW**	Batch ID: **44365**	TestNo: **EPA 6020**	**EPA 3010A**	Analysis Date: **11/15/2013**	SeqNo: **1687706**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Chromium	ND	1.0									

Sample ID: **LCS-44365**	SampType: **LCS**	TestCode: **6020_DIS**	Units: **µg/L**	Prep Date: **11/13/2013**	RunNo: **91256**
Client ID: **LCSW**	Batch ID: **44365**	TestNo: **EPA 6020**	**EPA 3010A**	Analysis Date: **11/15/2013**	SeqNo: **1687707**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	9.599	0.10	10.00	0	96.0	85	115				
Chromium	9.710	1.0	10.00	0	97.1	85	115				

Sample ID: **N011443-052B-MS**	SampType: **MS**	TestCode: **6020_DIS**	Units: **µg/L**	Prep Date: **11/13/2013**	RunNo: **91256**
Client ID: **ZZZZZZ**	Batch ID: **44365**	TestNo: **EPA 6020**	**EPA 3010A**	Analysis Date: **11/15/2013**	SeqNo: **1687722**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	10.591	0.10	10.00	0.9555	96.4	75	125				
Chromium	12.396	1.0	10.00	3.159	92.4	75	125				

Sample ID: **N011443-052B-MSD**	SampType: **MSD**	TestCode: **6020_DIS**	Units: **µg/L**	Prep Date: **11/13/2013**	RunNo: **91256**
Client ID: **ZZZZZZ**	Batch ID: **44365**	TestNo: **EPA 6020**	**EPA 3010A**	Analysis Date: **11/15/2013**	SeqNo: **1687723**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	10.940	0.10	10.00	0.9555	99.8	75	125	10.59	3.23	20	
Chromium	12.431	1.0	10.00	3.159	92.7	75	125	12.40	0.283	20	

Sample ID: **MB-44365**	SampType: **MBLK**	TestCode: **6020_DIS**	Units: **µg/L**	Prep Date: **11/13/2013**	RunNo: **91260**
Client ID: **PBW**	Batch ID: **44365**	TestNo: **EPA 6020**	**EPA 3010A**	Analysis Date: **11/19/2013**	SeqNo: **1688032**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	0.145	0.50									

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

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ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS

Sample ID: **LCS-44365**	SampType: **LCS**	TestCode: **6020_DIS**	Units: **µg/L**	Prep Date: **11/13/2013**	RunNo: **91260**
Client ID: **LCSW**	Batch ID: **44365**	TestNo: **EPA 6020**	**EPA 3010A**	Analysis Date: **11/19/2013**	SeqNo: **1688033**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	94.934	0.50	100.0	0	94.9	85	115				

Sample ID: **N011443-052B-MS**	SampType: **MS**	TestCode: **6020_DIS**	Units: **µg/L**	Prep Date: **11/13/2013**	RunNo: **91260**
Client ID: **ZZZZZZ**	Batch ID: **44365**	TestNo: **EPA 6020**	**EPA 3010A**	Analysis Date: **11/19/2013**	SeqNo: **1688045**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	135.398	0.50	100.0	42.91	92.5	75	125				

Sample ID: **N011443-052B-MSD**	SampType: **MSD**	TestCode: **6020_DIS**	Units: **µg/L**	Prep Date: **11/13/2013**	RunNo: **91260**
Client ID: **ZZZZZZ**	Batch ID: **44365**	TestNo: **EPA 6020**	**EPA 3010A**	Analysis Date: **11/19/2013**	SeqNo: **1688046**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	136.622	0.50	100.0	42.91	93.7	75	125	135.4	0.900	20	

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

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ANALYTICAL QC SUMMARY REPORT

TestCode: 8260WATERP

Sample ID: **P131114LCS** SampType: **LCS** TestCode: **8260WATERP** Units: **µg/L** Prep Date: RunNo: **91186**
Client ID: **LCSW** Batch ID: **P13VW180** TestNo: **EPA 8260B** Analysis Date: **11/14/2013** SeqNo: **1684701**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	22.370	0.50	20.00	0	112	69	125				
cis-1,2-Dichloroethene	20.240	0.50	20.00	0	101	74	120				
Tetrachloroethene	20.010	0.50	20.00	0	100	80	120				
trans-1,2-Dichloroethene	20.740	0.50	20.00	0	104	74	120				
Trichloroethene	20.070	0.50	20.00	0	100	80	120				
Vinyl chloride	20.710	0.50	20.00	0	104	72	120				
Surr: 1,2-Dichloroethane-d4	26.110		25.00		104	70	127				
Surr: 4-Bromofluorobenzene	25.840		25.00		103	80	120				
Surr: Dibromofluoromethane	26.970		25.00		108	73	128				
Surr: Toluene-d8	25.960		25.00		104	80	120				

Sample ID: **P131114MB2** SampType: **MBLK** TestCode: **8260WATERP** Units: **µg/L** Prep Date: RunNo: **91186**
Client ID: **PBW** Batch ID: **P13VW180** TestNo: **EPA 8260B** Analysis Date: **11/14/2013** SeqNo: **1684702**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	ND	0.50									
cis-1,2-Dichloroethene	ND	0.50									
Tetrachloroethene	ND	0.50									
trans-1,2-Dichloroethene	ND	0.50									
Trichloroethene	ND	0.50									
Vinyl chloride	ND	0.50									
Surr: 1,2-Dichloroethane-d4	26.030		25.00		104	70	127				
Surr: 4-Bromofluorobenzene	25.040		25.00		100	80	120				
Surr: Dibromofluoromethane	27.070		25.00		108	73	128				
Surr: Toluene-d8	25.060		25.00		100	80	120				

Sample ID: **N011443-014AMS** SampType: **MS** TestCode: **8260WATERP** Units: **µg/L** Prep Date: RunNo: **91186**
Client ID: **ZZZZZZ** Batch ID: **P13VW180** TestNo: **EPA 8260B** Analysis Date: **11/14/2013** SeqNo: **1684705**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

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ANALYTICAL QC SUMMARY REPORT

TestCode: 8260WATERP

Sample ID: **N011443-014AMS** SampType: **MS** TestCode: **8260WATERP** Units: **µg/L** Prep Date: RunNo: **91186**
Client ID: **ZZZZZZ** Batch ID: **P13VW180** TestNo: **EPA 8260B** Analysis Date: **11/14/2013** SeqNo: **1684705**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	21.880	0.50	20.00	0	109	65	128				
cis-1,2-Dichloroethene	19.920	0.50	20.00	0	99.6	73	120				
Tetrachloroethene	19.950	0.50	20.00	0.8600	95.4	76	120				
trans-1,2-Dichloroethene	20.210	0.50	20.00	0	101	72	122				
Trichloroethene	19.710	0.50	20.00	0	98.6	76	120				
Vinyl chloride	19.790	0.50	20.00	0	99.0	67	120				
Surr: 1,2-Dichloroethane-d4	25.910		25.00		104	70	127				
Surr: 4-Bromofluorobenzene	25.750		25.00		103	80	120				
Surr: Dibromofluoromethane	27.090		25.00		108	73	128				
Surr: Toluene-d8	25.900		25.00		104	80	120				

Sample ID: **N011443-014AMSD** SampType: **MSD** TestCode: **8260WATERP** Units: **µg/L** Prep Date: RunNo: **91186**
Client ID: **ZZZZZZ** Batch ID: **P13VW180** TestNo: **EPA 8260B** Analysis Date: **11/14/2013** SeqNo: **1684706**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	21.290	0.50	20.00	0	106	65	128	21.88	2.73	20	
cis-1,2-Dichloroethene	19.610	0.50	20.00	0	98.0	73	120	19.92	1.57	20	
Tetrachloroethene	20.050	0.50	20.00	0.8600	96.0	76	120	19.95	0.500	20	
trans-1,2-Dichloroethene	19.980	0.50	20.00	0	99.9	72	122	20.21	1.14	20	
Trichloroethene	19.810	0.50	20.00	0	99.0	76	120	19.71	0.506	20	
Vinyl chloride	19.790	0.50	20.00	0	99.0	67	120	19.79	0	20	
Surr: 1,2-Dichloroethane-d4	26.150		25.00		105	70	127		0		
Surr: 4-Bromofluorobenzene	25.740		25.00		103	80	120		0		
Surr: Dibromofluoromethane	27.290		25.00		109	73	128		0		
Surr: Toluene-d8	26.010		25.00		104	80	120		0		

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

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ANALYTICAL QC SUMMARY REPORT

TestCode: 8260WATERP

Sample ID: **P131115LCS** SampType: **LCS** TestCode: **8260WATERP** Units: **µg/L** Prep Date: RunNo: **91222**
Client ID: **LCSW** Batch ID: **P13VW181** TestNo: **EPA 8260B** Analysis Date: **11/15/2013** SeqNo: **1686622**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	21.190	0.50	20.00	0	106	69	125				
cis-1,2-Dichloroethene	19.290	0.50	20.00	0	96.5	74	120				
Tetrachloroethene	19.810	0.50	20.00	0	99.0	80	120				
trans-1,2-Dichloroethene	19.900	0.50	20.00	0	99.5	74	120				
Trichloroethene	19.900	0.50	20.00	0	99.5	80	120				
Vinyl chloride	19.570	0.50	20.00	0	97.9	72	120				
Surr: 1,2-Dichloroethane-d4	25.210		25.00		101	70	127				
Surr: 4-Bromofluorobenzene	25.800		25.00		103	80	120				
Surr: Dibromofluoromethane	26.460		25.00		106	73	128				
Surr: Toluene-d8	25.730		25.00		103	80	120				

Sample ID: **P131115MB2** SampType: **MBLK** TestCode: **8260WATERP** Units: **µg/L** Prep Date: RunNo: **91222**
Client ID: **PBW** Batch ID: **P13VW181** TestNo: **EPA 8260B** Analysis Date: **11/15/2013** SeqNo: **1686623**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	ND	0.50									
cis-1,2-Dichloroethene	ND	0.50									
Tetrachloroethene	ND	0.50									
trans-1,2-Dichloroethene	ND	0.50									
Trichloroethene	ND	0.50									
Vinyl chloride	ND	0.50									
Surr: 1,2-Dichloroethane-d4	26.300		25.00		105	70	127				
Surr: 4-Bromofluorobenzene	24.780		25.00		99.1	80	120				
Surr: Dibromofluoromethane	27.080		25.00		108	73	128				
Surr: Toluene-d8	25.230		25.00		101	80	120				

Sample ID: **N011443-001AMS** SampType: **MS** TestCode: **8260WATERP** Units: **µg/L** Prep Date: RunNo: **91222**
Client ID: **ZZZZZZ** Batch ID: **P13VW181** TestNo: **EPA 8260B** Analysis Date: **11/15/2013** SeqNo: **1686628**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

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ANALYTICAL QC SUMMARY REPORT

TestCode: 8260WATERP

Sample ID: **N011443-001AMS** SampType: **MS** TestCode: **8260WATERP** Units: **µg/L** Prep Date: RunNo: **91222**
Client ID: **ZZZZZZ** Batch ID: **P13VW181** TestNo: **EPA 8260B** Analysis Date: **11/15/2013** SeqNo: **1686628**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	214.900	5.0	200.0	0	107	65	128				
cis-1,2-Dichloroethene	191.900	5.0	200.0	0	96.0	73	120				
Tetrachloroethene	459.900	5.0	200.0	273.0	93.5	76	120				
trans-1,2-Dichloroethene	196.700	5.0	200.0	0	98.4	72	122				
Trichloroethene	195.700	5.0	200.0	0	97.8	76	120				
Vinyl chloride	194.600	5.0	200.0	0	97.3	67	120				
Surr: 1,2-Dichloroethane-d4	258.600		250.0		103	70	127				
Surr: 4-Bromofluorobenzene	257.500		250.0		103	80	120				
Surr: Dibromofluoromethane	267.100		250.0		107	73	128				
Surr: Toluene-d8	257.200		250.0		103	80	120				

Sample ID: **N011443-001AMSD** SampType: **MSD** TestCode: **8260WATERP** Units: **µg/L** Prep Date: RunNo: **91222**
Client ID: **ZZZZZZ** Batch ID: **P13VW181** TestNo: **EPA 8260B** Analysis Date: **11/15/2013** SeqNo: **1686629**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	218.900	5.0	200.0	0	109	65	128	214.9	1.84	20	
cis-1,2-Dichloroethene	195.300	5.0	200.0	0	97.6	73	120	191.9	1.76	20	
Tetrachloroethene	444.100	5.0	200.0	273.0	85.6	76	120	459.9	3.50	20	
trans-1,2-Dichloroethene	199.500	5.0	200.0	0	99.8	72	122	196.7	1.41	20	
Trichloroethene	192.700	5.0	200.0	0	96.4	76	120	195.7	1.54	20	
Vinyl chloride	195.900	5.0	200.0	0	98.0	67	120	194.6	0.666	20	
Surr: 1,2-Dichloroethane-d4	259.500		250.0		104	70	127		0		
Surr: 4-Bromofluorobenzene	261.000		250.0		104	80	120		0		
Surr: Dibromofluoromethane	269.300		250.0		108	73	128		0		
Surr: Toluene-d8	260.200		250.0		104	80	120		0		

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

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ANALYTICAL QC SUMMARY REPORT

TestCode: 8260WATERP

Sample ID: **P131116LCS** SampType: **LCS** TestCode: **8260WATERP** Units: **µg/L** Prep Date: RunNo: **91224**
Client ID: **LCSW** Batch ID: **P13VW182** TestNo: **EPA 8260B** Analysis Date: **11/16/2013** SeqNo: **1686652**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	22.490	0.50	20.00	0	112	69	125				
cis-1,2-Dichloroethene	19.710	0.50	20.00	0	98.6	74	120				
Tetrachloroethene	19.580	0.50	20.00	0	97.9	80	120				
trans-1,2-Dichloroethene	19.670	0.50	20.00	0	98.4	74	120				
Trichloroethene	19.770	0.50	20.00	0	98.8	80	120				
Vinyl chloride	19.690	0.50	20.00	0	98.4	72	120				
Surr: 1,2-Dichloroethane-d4	26.130		25.00		105	70	127				
Surr: 4-Bromofluorobenzene	25.710		25.00		103	80	120				
Surr: Dibromofluoromethane	26.540		25.00		106	73	128				
Surr: Toluene-d8	26.100		25.00		104	80	120				

Sample ID: **P131116MB2** SampType: **MBLK** TestCode: **8260WATERP** Units: **µg/L** Prep Date: RunNo: **91224**
Client ID: **PBW** Batch ID: **P13VW182** TestNo: **EPA 8260B** Analysis Date: **11/16/2013** SeqNo: **1686653**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	ND	0.50									
cis-1,2-Dichloroethene	ND	0.50									
Tetrachloroethene	ND	0.50									
trans-1,2-Dichloroethene	ND	0.50									
Trichloroethene	ND	0.50									
Vinyl chloride	ND	0.50									
Surr: 1,2-Dichloroethane-d4	26.360		25.00		105	70	127				
Surr: 4-Bromofluorobenzene	25.060		25.00		100	80	120				
Surr: Dibromofluoromethane	27.090		25.00		108	73	128				
Surr: Toluene-d8	25.320		25.00		101	80	120				

Sample ID: **N011443-046AMS** SampType: **MS** TestCode: **8260WATERP** Units: **µg/L** Prep Date: RunNo: **91224**
Client ID: **ZZZZZZ** Batch ID: **P13VW182** TestNo: **EPA 8260B** Analysis Date: **11/16/2013** SeqNo: **1686661**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

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CLIENT: Cardno ATC
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Project: Maryland Square, 085.42620.0001

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260WATERP

Sample ID: **N011443-046AMS** SampType: **MS** TestCode: **8260WATERP** Units: **µg/L** Prep Date: RunNo: **91224**
Client ID: **ZZZZZZ** Batch ID: **P13VW182** TestNo: **EPA 8260B** Analysis Date: **11/16/2013** SeqNo: **1686661**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	21.780	0.50	20.00	0	109	65	128				
cis-1,2-Dichloroethene	19.510	0.50	20.00	0	97.6	73	120				
Tetrachloroethene	20.730	0.50	20.00	1.340	97.0	76	120				
trans-1,2-Dichloroethene	19.590	0.50	20.00	0	98.0	72	122				
Trichloroethene	19.430	0.50	20.00	0	97.2	76	120				
Vinyl chloride	19.180	0.50	20.00	0	95.9	67	120				
Surr: 1,2-Dichloroethane-d4	25.590		25.00		102	70	127				
Surr: 4-Bromofluorobenzene	25.190		25.00		101	80	120				
Surr: Dibromofluoromethane	26.310		25.00		105	73	128				
Surr: Toluene-d8	25.570		25.00		102	80	120				

Sample ID: **N011443-046AMSD** SampType: **MSD** TestCode: **8260WATERP** Units: **µg/L** Prep Date: RunNo: **91224**
Client ID: **ZZZZZZ** Batch ID: **P13VW182** TestNo: **EPA 8260B** Analysis Date: **11/16/2013** SeqNo: **1686662**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	22.470	0.50	20.00	0	112	65	128	21.78	3.12	20	
cis-1,2-Dichloroethene	20.100	0.50	20.00	0	101	73	120	19.51	2.98	20	
Tetrachloroethene	20.940	0.50	20.00	1.340	98.0	76	120	20.73	1.01	20	
trans-1,2-Dichloroethene	20.150	0.50	20.00	0	101	72	122	19.59	2.82	20	
Trichloroethene	19.630	0.50	20.00	0	98.2	76	120	19.43	1.02	20	
Vinyl chloride	20.200	0.50	20.00	0	101	67	120	19.18	5.18	20	
Surr: 1,2-Dichloroethane-d4	26.400		25.00		106	70	127		0		
Surr: 4-Bromofluorobenzene	25.550		25.00		102	80	120		0		
Surr: Dibromofluoromethane	26.630		25.00		107	73	128		0		
Surr: Toluene-d8	25.570		25.00		102	80	120		0		

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

Advanced Technology Laboratories, Inc.
3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

CLIENT: Cardno ATC
Work Order: N011443
Project: Maryland Square, 085.42620.0001

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260WATERP

Sample ID: **P131116LCS2** SampType: **LCS** TestCode: **8260WATERP** Units: **µg/L** Prep Date: RunNo: **91233**
Client ID: **LCSW** Batch ID: **P13VW183** TestNo: **EPA 8260B** Analysis Date: **11/16/2013** SeqNo: **1686983**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	22.320	0.50	20.00	0	112	69	125				
cis-1,2-Dichloroethene	19.450	0.50	20.00	0	97.3	74	120				
Tetrachloroethene	20.010	0.50	20.00	0	100	80	120				
trans-1,2-Dichloroethene	19.680	0.50	20.00	0	98.4	74	120				
Trichloroethene	19.950	0.50	20.00	0	99.8	80	120				
Vinyl chloride	19.380	0.50	20.00	0	96.9	72	120				
Surr: 1,2-Dichloroethane-d4	25.620		25.00		102	70	127				
Surr: 4-Bromofluorobenzene	25.380		25.00		102	80	120				
Surr: Dibromofluoromethane	26.090		25.00		104	73	128				
Surr: Toluene-d8	25.980		25.00		104	80	120				

Sample ID: **P131116LCSD** SampType: **LCSD** TestCode: **8260WATERP** Units: **µg/L** Prep Date: RunNo: **91233**
Client ID: **LCSS02** Batch ID: **P13VW183** TestNo: **EPA 8260B** Analysis Date: **11/16/2013** SeqNo: **1686984**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	22.410	0.50	20.00	0	112	69	125	22.32	0.402	20	
cis-1,2-Dichloroethene	19.680	0.50	20.00	0	98.4	74	120	19.45	1.18	20	
Tetrachloroethene	19.760	0.50	20.00	0	98.8	80	120	20.01	1.26	20	
trans-1,2-Dichloroethene	19.550	0.50	20.00	0	97.8	74	120	19.68	0.663	20	
Trichloroethene	19.640	0.50	20.00	0	98.2	80	120	19.95	1.57	20	
Vinyl chloride	19.500	0.50	20.00	0	97.5	72	120	19.38	0.617	20	
Surr: 1,2-Dichloroethane-d4	26.280		25.00		105	70	127		0	20	
Surr: 4-Bromofluorobenzene	25.730		25.00		103	80	120		0	20	
Surr: Dibromofluoromethane	26.810		25.00		107	73	128		0	20	
Surr: Toluene-d8	25.930		25.00		104	80	120		0	20	

Sample ID: **P131116MB4** SampType: **MBLK** TestCode: **8260WATERP** Units: **µg/L** Prep Date: RunNo: **91233**
Client ID: **PBW** Batch ID: **P13VW183** TestNo: **EPA 8260B** Analysis Date: **11/16/2013** SeqNo: **1686985**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

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CLIENT: Cardno ATC
Work Order: N011443
Project: Maryland Square, 085.42620.0001

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260WATERP

Sample ID: **P131116MB4** SampType: **MBLK** TestCode: **8260WATERP** Units: **µg/L** Prep Date: RunNo: **91233**
Client ID: **PBW** Batch ID: **P13VW183** TestNo: **EPA 8260B** Analysis Date: **11/16/2013** SeqNo: **1686985**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	ND	0.50									
cis-1,2-Dichloroethene	ND	0.50									
Tetrachloroethene	0.360	0.50									
trans-1,2-Dichloroethene	ND	0.50									
Trichloroethene	ND	0.50									
Vinyl chloride	ND	0.50									
Surr: 1,2-Dichloroethane-d4	25.530		25.00		102	70	127				
Surr: 4-Bromofluorobenzene	24.760		25.00		99.0	80	120				
Surr: Dibromofluoromethane	26.570		25.00		106	73	128				
Surr: Toluene-d8	25.440		25.00		102	80	120				

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

Advanced Technology Laboratories, Inc.
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CLIENT: Cardno ATC
Work Order: N011443
Project: Maryland Square, 085.42620.0001

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260WATERP

Sample ID: **P131117LCS** SampType: **LCS** TestCode: **8260WATERP** Units: **µg/L** Prep Date: RunNo: **91242**
Client ID: **LCSW** Batch ID: **P13VW184** TestNo: **EPA 8260B** Analysis Date: **11/17/2013** SeqNo: **1687157**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	21.670	0.50	20.00	0	108	69	125				
cis-1,2-Dichloroethene	18.200	0.50	20.00	0	91.0	74	120				
Tetrachloroethene	19.620	0.50	20.00	0	98.1	80	120				
trans-1,2-Dichloroethene	18.160	0.50	20.00	0	90.8	74	120				
Trichloroethene	19.450	0.50	20.00	0	97.3	80	120				
Vinyl chloride	17.900	0.50	20.00	0	89.5	72	120				
Surr: 1,2-Dichloroethane-d4	24.240		25.00		97.0	70	127				
Surr: 4-Bromofluorobenzene	25.610		25.00		102	80	120				
Surr: Dibromofluoromethane	25.050		25.00		100	73	128				
Surr: Toluene-d8	25.570		25.00		102	80	120				

Sample ID: **P131117LCSD** SampType: **LCSD** TestCode: **8260WATERP** Units: **µg/L** Prep Date: RunNo: **91242**
Client ID: **LCSS02** Batch ID: **P13VW184** TestNo: **EPA 8260B** Analysis Date: **11/17/2013** SeqNo: **1687158**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	21.920	0.50	20.00	0	110	69	125	21.67	1.15	20	
cis-1,2-Dichloroethene	18.290	0.50	20.00	0	91.4	74	120	18.20	0.493	20	
Tetrachloroethene	19.870	0.50	20.00	0	99.4	80	120	19.62	1.27	20	
trans-1,2-Dichloroethene	18.340	0.50	20.00	0	91.7	74	120	18.16	0.986	20	
Trichloroethene	19.500	0.50	20.00	0	97.5	80	120	19.45	0.257	20	
Vinyl chloride	18.230	0.50	20.00	0	91.2	72	120	17.90	1.83	20	
Surr: 1,2-Dichloroethane-d4	24.660		25.00		98.6	70	127		0	20	
Surr: 4-Bromofluorobenzene	25.610		25.00		102	80	120		0	20	
Surr: Dibromofluoromethane	25.450		25.00		102	73	128		0	20	
Surr: Toluene-d8	25.690		25.00		103	80	120		0	20	

Sample ID: **P131117MB3** SampType: **MBLK** TestCode: **8260WATERP** Units: **µg/L** Prep Date: RunNo: **91242**
Client ID: **PBW** Batch ID: **P13VW184** TestNo: **EPA 8260B** Analysis Date: **11/17/2013** SeqNo: **1687159**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

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CLIENT: Cardno ATC
Work Order: N011443
Project: Maryland Square, 085.42620.0001

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260WATERP

Sample ID: **P131117MB3** SampType: **MBLK** TestCode: **8260WATERP** Units: **µg/L** Prep Date: RunNo: **91242**
Client ID: **PBW** Batch ID: **P13VW184** TestNo: **EPA 8260B** Analysis Date: **11/17/2013** SeqNo: **1687159**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	ND	0.50									
cis-1,2-Dichloroethene	ND	0.50									
Tetrachloroethene	0.360	0.50									
trans-1,2-Dichloroethene	ND	0.50									
Trichloroethene	ND	0.50									
Vinyl chloride	ND	0.50									
Surr: 1,2-Dichloroethane-d4	24.710		25.00		98.8	70	127				
Surr: 4-Bromofluorobenzene	24.790		25.00		99.2	80	120				
Surr: Dibromofluoromethane	26.140		25.00		105	73	128				
Surr: Toluene-d8	25.430		25.00		102	80	120				

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

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CLIENT: Cardno ATC
Work Order: N011443
Project: Maryland Square, 085.42620.0001

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260WATERP

Sample ID: **P131118LCS** SampType: **LCS** TestCode: **8260WATERP** Units: **µg/L** Prep Date: RunNo: **91263**
Client ID: **LCSW** Batch ID: **P13VW185** TestNo: **EPA 8260B** Analysis Date: **11/18/2013** SeqNo: **1688164**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	19.540	0.50	20.00	0	97.7	69	125				
cis-1,2-Dichloroethene	19.670	0.50	20.00	0	98.4	74	120				
Tetrachloroethene	21.320	0.50	20.00	0	107	80	120				
trans-1,2-Dichloroethene	20.240	0.50	20.00	0	101	74	120				
Trichloroethene	20.480	0.50	20.00	0	102	80	120				
Vinyl chloride	21.910	0.50	20.00	0	110	72	120				
Surr: 1,2-Dichloroethane-d4	24.460		25.00		97.8	70	127				
Surr: 4-Bromofluorobenzene	25.900		25.00		104	80	120				
Surr: Dibromofluoromethane	25.330		25.00		101	73	128				
Surr: Toluene-d8	25.350		25.00		101	80	120				

Sample ID: **P131118MB2** SampType: **MBLK** TestCode: **8260WATERP** Units: **µg/L** Prep Date: RunNo: **91263**
Client ID: **PBW** Batch ID: **P13VW185** TestNo: **EPA 8260B** Analysis Date: **11/18/2013** SeqNo: **1688165**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	ND	0.50									
cis-1,2-Dichloroethene	ND	0.50									
Tetrachloroethene	ND	0.50									
trans-1,2-Dichloroethene	ND	0.50									
Trichloroethene	ND	0.50									
Vinyl chloride	ND	0.50									
Surr: 1,2-Dichloroethane-d4	24.900		25.00		99.6	70	127				
Surr: 4-Bromofluorobenzene	24.870		25.00		99.5	80	120				
Surr: Dibromofluoromethane	25.670		25.00		103	73	128				
Surr: Toluene-d8	25.100		25.00		100	80	120				

Sample ID: **N011455-001FMS** SampType: **MS** TestCode: **8260WATERP** Units: **µg/L** Prep Date: RunNo: **91263**
Client ID: **ZZZZZZ** Batch ID: **P13VW185** TestNo: **EPA 8260B** Analysis Date: **11/18/2013** SeqNo: **1688168**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

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CLIENT: Cardno ATC
Work Order: N011443
Project: Maryland Square, 085.42620.0001

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260WATERP

Sample ID: **N011455-001FMS** SampType: **MS** TestCode: **8260WATERP** Units: **µg/L** Prep Date: RunNo: **91263**
Client ID: **ZZZZZZ** Batch ID: **P13VW185** TestNo: **EPA 8260B** Analysis Date: **11/18/2013** SeqNo: **1688168**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	19.710	0.50	20.00	0	98.6	65	128				
cis-1,2-Dichloroethene	19.420	0.50	20.00	0	97.1	73	120				
Tetrachloroethene	18.370	0.50	20.00	0	91.9	76	120				
trans-1,2-Dichloroethene	19.270	0.50	20.00	0	96.4	72	122				
Trichloroethene	18.620	0.50	20.00	0	93.1	76	120				
Vinyl chloride	20.360	0.50	20.00	0	102	67	120				
Surr: 1,2-Dichloroethane-d4	25.240		25.00		101	70	127				
Surr: 4-Bromofluorobenzene	25.770		25.00		103	80	120				
Surr: Dibromofluoromethane	25.500		25.00		102	73	128				
Surr: Toluene-d8	25.320		25.00		101	80	120				

Sample ID: **N011455-001FMSD** SampType: **MSD** TestCode: **8260WATERP** Units: **µg/L** Prep Date: RunNo: **91263**
Client ID: **ZZZZZZ** Batch ID: **P13VW185** TestNo: **EPA 8260B** Analysis Date: **11/18/2013** SeqNo: **1688169**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	19.950	0.50	20.00	0	99.8	65	128	19.71	1.21	20	
cis-1,2-Dichloroethene	19.240	0.50	20.00	0	96.2	73	120	19.42	0.931	20	
Tetrachloroethene	17.330	0.50	20.00	0	86.7	76	120	18.37	5.83	20	
trans-1,2-Dichloroethene	19.390	0.50	20.00	0	97.0	72	122	19.27	0.621	20	
Trichloroethene	18.650	0.50	20.00	0	93.3	76	120	18.62	0.161	20	
Vinyl chloride	20.240	0.50	20.00	0	101	67	120	20.36	0.591	20	
Surr: 1,2-Dichloroethane-d4	24.870		25.00		99.5	70	127		0		
Surr: 4-Bromofluorobenzene	25.250		25.00		101	80	120		0		
Surr: Dibromofluoromethane	25.150		25.00		101	73	128		0		
Surr: Toluene-d8	25.340		25.00		101	80	120		0		

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

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CLIENT: Cardno ATC
Work Order: N011443
Project: Maryland Square, 085.42620.0001

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260WATERP

Sample ID: **P131119LCS** SampType: **LCS** TestCode: **8260WATERP** Units: **µg/L** Prep Date: RunNo: **91339**
Client ID: **LCSW** Batch ID: **P13VW186** TestNo: **EPA 8260B** Analysis Date: **11/19/2013** SeqNo: **1689414**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	20.920	0.50	20.00	0	105	69	125				
cis-1,2-Dichloroethene	19.970	0.50	20.00	0	99.8	74	120				
Tetrachloroethene	19.370	0.50	20.00	0	96.9	80	120				
trans-1,2-Dichloroethene	20.420	0.50	20.00	0	102	74	120				
Trichloroethene	19.740	0.50	20.00	0	98.7	80	120				
Vinyl chloride	20.130	0.50	20.00	0	101	72	120				
Surr: 1,2-Dichloroethane-d4	25.560		25.00		102	70	127				
Surr: 4-Bromofluorobenzene	25.720		25.00		103	80	120				
Surr: Dibromofluoromethane	25.350		25.00		101	73	128				
Surr: Toluene-d8	25.630		25.00		103	80	120				

Sample ID: **P131119LCSD** SampType: **LCSD** TestCode: **8260WATERP** Units: **µg/L** Prep Date: RunNo: **91339**
Client ID: **LCSS02** Batch ID: **P13VW186** TestNo: **EPA 8260B** Analysis Date: **11/19/2013** SeqNo: **1689415**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	19.710	0.50	20.00	0	98.6	69	125	20.92	5.96	20	
cis-1,2-Dichloroethene	19.740	0.50	20.00	0	98.7	74	120	19.97	1.16	20	
Tetrachloroethene	19.410	0.50	20.00	0	97.0	80	120	19.37	0.206	20	
trans-1,2-Dichloroethene	19.800	0.50	20.00	0	99.0	74	120	20.42	3.08	20	
Trichloroethene	19.790	0.50	20.00	0	99.0	80	120	19.74	0.253	20	
Vinyl chloride	20.100	0.50	20.00	0	101	72	120	20.13	0.149	20	
Surr: 1,2-Dichloroethane-d4	25.530		25.00		102	70	127		0	20	
Surr: 4-Bromofluorobenzene	25.700		25.00		103	80	120		0	20	
Surr: Dibromofluoromethane	25.270		25.00		101	73	128		0	20	
Surr: Toluene-d8	25.680		25.00		103	80	120		0	20	

Sample ID: **P131119MB2** SampType: **MBLK** TestCode: **8260WATERP** Units: **µg/L** Prep Date: RunNo: **91339**
Client ID: **PBW** Batch ID: **P13VW186** TestNo: **EPA 8260B** Analysis Date: **11/19/2013** SeqNo: **1689416**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

Advanced Technology Laboratories, Inc.
3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

CLIENT: Cardno ATC
Work Order: N011443
Project: Maryland Square, 085.42620.0001

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260WATERP

Sample ID: **P131119MB2** SampType: **MBLK** TestCode: **8260WATERP** Units: **µg/L** Prep Date: RunNo: **91339**
Client ID: **PBW** Batch ID: **P13VW186** TestNo: **EPA 8260B** Analysis Date: **11/19/2013** SeqNo: **1689416**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	ND	0.50									
cis-1,2-Dichloroethene	ND	0.50									
Tetrachloroethene	ND	0.50									
trans-1,2-Dichloroethene	ND	0.50									
Trichloroethene	ND	0.50									
Vinyl chloride	ND	0.50									
Surr: 1,2-Dichloroethane-d4	26.240		25.00		105	70	127				
Surr: 4-Bromofluorobenzene	25.300		25.00		101	80	120				
Surr: Dibromofluoromethane	25.920		25.00		104	73	128				
Surr: Toluene-d8	25.540		25.00		102	80	120				

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

Advanced Technology Laboratories, Inc.
3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

CLIENT: Cardno ATC
Work Order: N011443
Project: Maryland Square, 085.42620.0001

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260WATERP

Sample ID: **P131120LCS** SampType: **LCS** TestCode: **8260WATERP** Units: **µg/L** Prep Date: RunNo: **91337**
Client ID: **LCSW** Batch ID: **P13VW187** TestNo: **EPA 8260B** Analysis Date: **11/20/2013** SeqNo: **1689254**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	19.540	0.50	20.00	0	97.7	69	125				
cis-1,2-Dichloroethene	19.820	0.50	20.00	0	99.1	74	120				
Tetrachloroethene	20.220	0.50	20.00	0	101	80	120				
trans-1,2-Dichloroethene	20.070	0.50	20.00	0	100	74	120				
Trichloroethene	19.970	0.50	20.00	0	99.8	80	120				
Vinyl chloride	17.250	0.50	20.00	0	86.2	72	120				
Surr: 1,2-Dichloroethane-d4	25.000		25.00		100	70	127				
Surr: 4-Bromofluorobenzene	25.810		25.00		103	80	120				
Surr: Dibromofluoromethane	25.390		25.00		102	73	128				
Surr: Toluene-d8	25.840		25.00		103	80	120				

Sample ID: **P131120LCSD** SampType: **LCSD** TestCode: **8260WATERP** Units: **µg/L** Prep Date: RunNo: **91337**
Client ID: **LCSS02** Batch ID: **P13VW187** TestNo: **EPA 8260B** Analysis Date: **11/20/2013** SeqNo: **1689255**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	19.050	0.50	20.00	0	95.2	69	125	19.54	2.54	20	
cis-1,2-Dichloroethene	19.480	0.50	20.00	0	97.4	74	120	19.82	1.73	20	
Tetrachloroethene	19.990	0.50	20.00	0	100	80	120	20.22	1.14	20	
trans-1,2-Dichloroethene	19.420	0.50	20.00	0	97.1	74	120	20.07	3.29	20	
Trichloroethene	19.640	0.50	20.00	0	98.2	80	120	19.97	1.67	20	
Vinyl chloride	16.530	0.50	20.00	0	82.6	72	120	17.25	4.26	20	
Surr: 1,2-Dichloroethane-d4	24.270		25.00		97.1	70	127		0	20	
Surr: 4-Bromofluorobenzene	25.740		25.00		103	80	120		0	20	
Surr: Dibromofluoromethane	25.260		25.00		101	73	128		0	20	
Surr: Toluene-d8	25.220		25.00		101	80	120		0	20	

Sample ID: **P131120MB2** SampType: **MBLK** TestCode: **8260WATERP** Units: **µg/L** Prep Date: RunNo: **91337**
Client ID: **PBW** Batch ID: **P13VW187** TestNo: **EPA 8260B** Analysis Date: **11/20/2013** SeqNo: **1689256**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

Advanced Technology Laboratories, Inc.
3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

CLIENT: Cardno ATC
Work Order: N011443
Project: Maryland Square, 085.42620.0001

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260WATERP

Sample ID: **P131120MB2** SampType: **MBLK** TestCode: **8260WATERP** Units: **µg/L** Prep Date: RunNo: **91337**
Client ID: **PBW** Batch ID: **P13VW187** TestNo: **EPA 8260B** Analysis Date: **11/20/2013** SeqNo: **1689256**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	ND	0.50									
cis-1,2-Dichloroethene	ND	0.50									
Tetrachloroethene	0.430	0.50									
trans-1,2-Dichloroethene	ND	0.50									
Trichloroethene	ND	0.50									
Vinyl chloride	ND	0.50									
Surr: 1,2-Dichloroethane-d4	25.440		25.00		102	70	127				
Surr: 4-Bromofluorobenzene	24.370		25.00		97.5	80	120				
Surr: Dibromofluoromethane	25.730		25.00		103	73	128				
Surr: Toluene-d8	25.090		25.00		100	80	120				

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

Advanced Technology Laboratories, Inc.
3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

CHAIN OF CUSTODY RECORD

Advanced Technology Laboratories INC.
3151-3153 W. Post Rd.
Las Vegas, NV 89118
Tel: (702) 307-2659 • Fax: (702) 307-2691

FOR LABORATORY USE ONLY

P.O. #: _____

Logged By: HSG Date: 11/12/13

Method of Transport: Client ☐ ATL ☑ CA OverN ☐ FedEx ☐ Other: _____

Sample Condition Upon Receipt: 3.1 °C
1. CHILLED Y ☐ N ☐ ICE IR#2 | 4. SEALED Y ☐ N ☐
2. HEADSPACE (VOA) Y ☐ N ☐ | 5. # OF SPLS MATCH COC Y ☐ N ☐
3. CONTAINER INTACT Y ☐ N ☐ | 6. PRESERVED Y ☐ N ☐

Client: Cardno ATC
Attention: Andrew Stuart
Address: 7115 Amigo Street, Suite 100
City: Las Vegas State: Nevada Zip Code: 89119
Tel: 702-990-9300
Fax: 702-990-9305

Project Name: Maryland Square
Project #: 085.42620.0001
Sampler: *I attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.*
(Printed Name) Norman Ascuy
(Signature)

Relinquished by: (Signature and Printed Name)	Date	Time	Received by: (Signature and Printed Name)	Date	Time
Norman Ascuy	11/12/13	1530	Arnold Brown	11/12/13	16:50
Arnold Brown	11/12/13	16:50	MBCARTIN	11/12/13	1705
	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:

I hereby authorize ATL to perform the work indicated below:
Project Mgr /Submitter: Norman Ascuy 11/12/13
Print Name Date
Signature

Send Report To:
Attn: Andrew Stuart
Co: Cardno ATC
Addr: 7115 Amigo Street, Suite 100
City: Las Vegas State: NV Zip: 89119

Bill To:
Attn: (same)
Co:
Addr:
City: State: Zip:

Special Instructions/Comments:

Sample/Records - Archival & Disposal
Unless otherwise requested by client, all samples will be disposed 45 days after receipt and records will be disposed 1 year after submittal of final report.

Storage Fees (applies when storage is requested):
- Sample :$2.00 / sample /mo (after 45 days)
- Records: $1 /ATL workorder /mo (after 1 year)

Circle or Add Analysis(es) Requested

ITEM	LAB USE ONLY: Lab No.	Sample Description: Sample ID / Location	Date	Time	8260B (Volatiles)	8015M - GRO	8015B - DRO/ORO	PCE/TCE/DCE/VC 8260	6020 (metals)	218.6 Hexavalent Chromium	SPECIFY APPROPRIATE MATRIX: SOIL	WATER	GROUND WATER	WASTEWATER	TAT	Container(s) #	Container(s) Type	PRESERVATION	REMARKS
	NO11443-1	MW-1	11/4	1448				X					X			E	3	V	H	
	2	MW-2	11/5	847				X					X			E	3	V	H	
	3	MW-5	11/5	953				X					X			E	3	V	H	
	4	MW-5 Dup	11/5	953				X					X			E	3	V	H	
	5	MW-6	11/5	1131				X					X			E	3	V	H	
	6	MW-6D1	11/6	1012				X					X			E	3	V	H	
	7	MW-6D1 Dup	11/6	1012				X					X			E	3	V	H	
	8	MW-6D2	11/6	930				X					X			E	3	V	H	
	9	MW-6D3	11/6	938				X					X			E	3	V	H	
	10	MW-7	11/4	12:23				X					X			E	3	V	H	

QA/QC: RTNE ☐ CT ☐ SWRCB ☐ Logcode _____ OTHER _____

- TAT starts 8AM the following day if samples received after 3 PM

TAT: ☐ A = Overnight ≤ 24 hrs ☐ B = Emergency Next Workday ☐ C = Critical 2 Workdays ☐ D = Urgent 3 Workdays ☑ E = Routine 7 Workdays

Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedlar G=Glass P=Plastic M=Metal

Preservatives: H=HCl N=HNO_3 S=H_2SO_4 C=4°C Z=$Zn(AC)_2$ O=NaOH T=$Na_2S_2O_3$

CHAIN OF CUSTODY RECORD

Advanced Technology Laboratories INC.
3151-3153 W. Post Rd.
Las Vegas, NV 89118
Tel: (702) 307-2659 • Fax: (702) 307-2691

FOR LABORATORY USE ONLY

P.O. #: _____
Logged By: HSG Date: 11/12/13

Method of Transport: Client ☐ ATL ☐ CA OverN ☐ FedEx ☐ Other: _____

Sample Condition Upon Receipt: 3.1°C
1. CHILLED Y ☐ N ☐ (ICE IR#2) 4. SEALED Y ☐ N ☐
2. HEADSPACE (VOA) Y ☐ N ☐ 5. # OF SPLS MATCH COC Y ☐ N ☐
3. CONTAINER INTACT Y ☐ N ☐ 6. PRESERVED Y ☐ N ☐

Client: Cardno ATC
Attention: Andrew Stuart
Address: 7115 Amigo Street, Suite 100
City: Las Vegas State: Nevada Zip Code: 89119
Tel: 702-990-9300
Fax: 702-990-9305

Project Name: Maryland Square
Project #: 085.42620.0001
Sampler: *I attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.*
(Printed Name) Norman Ascaso
(Signature)

Relinquished by: (Signature and Printed Name)	Date	Time	Received by: (Signature and Printed Name)	Date	Time
Norman Ascaso	11/12/13	1530	Amelia Brun	11/12/13	16:50
Amelia Brun	11/12/13	16:50	MARCARTHUR	11/12/13	1705

I hereby authorize ATL to perform the work indicated below:
Project Mgr /Submitter: Norman Ascaso 11/12/13
Print Name Date
Signature

Send Report To:
Attn: Andrew Stuart
Co: Cardno ATC
Addr: 7115 Amigo Street, Suite 100
City: Las Vegas State: NV Zip: 89119

Bill To:
Attn: (same)
Co:
Addr:
City: State: Zip:

Special Instructions/Comments:

Sample/Records - Archival & Disposal
Unless otherwise requested by client, all samples will be disposed 45 days after receipt and records will be disposed 1 year after submittal of final report.

Storage Fees (applies when storage is requested):
- Sample :$2.00 / sample /mo (after 45 days)
- Records: $1 /ATL workorder /mo (after 1 year)

Circle or Add Analysis(es) Requested

SPECIFY APPROPRIATE MATRIX

PRESERVATION

QA/QC: RTNE ☐ CT ☐ SWRCB ☐ Logcode_____ OTHER _____

ITEM	LAB USE ONLY: Lab No.	Sample Description: Sample ID / Location	Date	Time	8260B (Volatiles)	8015M - GRO	8015B - DRO/ORO	PCE/TCE/DCE/VC 8260	6020 (metals)	218.6 Hexavalent Chromium	SOIL	WATER	GROUND WATER	WASTEWATER	TAT	Container(s) #	Container(s) Type	PRESERVATION	REMARKS
	NO11443-11	MW-8	11/4	1048				X				X			E	3	V	H	
	12	MW-9	11/4	1137				X				X			E	3	V	H	
	13	MW-9 Dup	11/4	1137				X				X			E	3	V	H	
	14	MW-12	11/4	950				X				X			E	3	V	H	
	15	MW-13	11/5	921				X				X			E	3	V	H	
	16	MW-14	11/5	1036				X				X			E	3	V	H	
	17	MW-14I	11/5	1237				X				X			E	3	V	H	
	18	MW-17	11/4	1227				X				X			E	3	V	H	
	19	MW-18	11/12	1438				X				X			E	3	V	H	
	20	MW-19	11/7	1416				X	X	X		X			E	3	V	H	

- TAT starts 8AM the following day if samples received after 3 PM

TAT: ☐ A = Overnight ≤ 24 hrs ☐ B = Emergency Next Workday ☐ C = Critical 2 Workdays ☐ D = Urgent 3 Workdays ☑ E = Routine 7 Workdays

Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedlar G=Glass P=Plastic M=Metal

Preservatives: H=HCl N=HNO_3 S=H_2SO_4 C=4°C Z=$Zn(AC)_2$ O=NaOH T=$Na_2S_2O_3$

CHAIN OF COUSTODY RECORD

Advanced Technology Laboratories INC.
3151-3153 W. Post Rd.
Las Vegas, NV 89118
Tel: (702) 307-2659 • Fax: (702) 307-2691

P.O. #: ______
Logged By: HSG Date: 11/12/13

FOR LABORATORY USE ONLY

Method of Transport: Client ☐ ATL ☐ CA OverN ☐ FedEx ☐ Other: ______

Sample Condition Upon Receipt: 3.1 °C
1. CHILLED Y☐ N☐ 4. SEALED Y☐ N☐
ICE IR#2
2. HEADSPACE (VOA) Y☐ N☐ 5. # OF SPLS MATCH COC Y☐ N☐
3. CONTAINER INTACT Y☐ N☐ 6. PRESERVED Y☐ N☐

Client: Cardno ATC
Attention: Andrew Stuart
Address: 7115 Amigo Street, Suite 100
City: Las Vegas State: Nevada Zip Code: 89119
Tel: 702-990-9300
Fax: 702-990-9305

Project Name: Maryland Square
Project #: 085.42620.0001
Sampler: *I attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.*
(Printed Name) Norman Ascazo (Signature) [signature]

Relinquished by: (Signature and Printed Name)	Date	Time	Received by: (Signature and Printed Name)	Date	Time
[signature] Norman Ascazo	11/12/13	1530	[signature] Amolk Brar	11-12-13	16:50
[signature] Amolk Brar	11/12/13	16:50	MBCARTHN [signature]	11/12/13	1705

I hereby authorize ATL to perform the work indicated below:
Project Mgr /Submitter: Norman Ascazo (Print Name) 11/12/13 (Date)
[signature] (Signature)

Send Report To:
Attn: Andrew Stuart
Co: Cardno ATC
Addr: 7115 Amigo Street, Suite 100
City: Las Vegas State: NV Zip: 89119

Bill To:
Attn: (same)
Co:
Addr:
City: State: Zip:

Special Instructions/Comments:

Sample/Records - Archival & Disposal
Unless otherwise requested by client, all samples will be disposed 45 days after receipt and records will be disposed 1 year after submittal of final report.
Storage Fees (applies when storage is requested):
- Sample :$2.00 / sample /mo (after 45 days)
- Records: $1 /ATL workorder /mo (after 1 year)

Circle or Add Analysis(es) Requested

ITEM	Lab No.	Sample ID / Location	Date	Time	8260B (Volatiles)	8015M - GRO	8015B - DRO/ORO	PCE/TCE/DCE/VC 8260	6020 (metals)	218.6 Hexavalent Chromium	SOIL	WATER	GROUND WATER	WASTEWATER	TAT	#	Type	PRESERVATION	REMARKS
	N011443-21	MW-19I	11/8	1203				X	X	X		X			E	3	V	H	
	22	MW-19D1	11/8	1400				X				X			E	3	V	H	
	23	MW-19D2	11/8	1055				X				X			E	3	V	H	
	24	MW-19D2 Dup	11/8	1055				X				X			E	3	V	H	
	25	MW-19D3	11/8	1323				X				X			E	3	V	H	
	26	MW-20	11/7	1330				X	X	X		X			E	3	V	H	
	27	MW-20D1	11/7	1147				X				X			E	3	V	H	
	28	MW-20D2	11/7	1158				X				X			E	3	V	H	
	29	MW-20D3	11/7	1118				X				X			E	3	V	H	
	~~30~~	~~MW-23~~						X				X			E	3	V	H	

QA/QC: RTNE ☐ CT ☐ SWRCB ☐ Logcode ______ OTHER ______

■ TAT starts 8AM the following day if samples received after 3 PM

TAT: ☐ A = Overnight ≤ 24 hrs ☐ B = Emergency Next Workday ☐ C = Critical 2 Workdays ☐ D = Urgent 3 Workdays ☑ E = Routine 7 Workdays

Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedlar G=Glass P=Plastic M=Metal

Preservatives: H=HCl N=HNO_3 S=H_2SO_4 C=4°C Z=$Zn(AC)_2$ O=NaOH T=$Na_2S_2O_3$

CHAIN OF CUSTODY RECORD

Advanced Technology Laboratories INC.
3151-3153 W. Post Rd.
Las Vegas, NV 89118
Tel: (702) 307-2659 • Fax: (702) 307-2691

FOR LABORATORY USE ONLY

P.O. #: _____
Logged By: HSC Date: 11/12/13

Method of Transport: Client ☐ ATL ☐ CA OverN ☐ FedEx ☐ Other: _____

Sample Condition Upon Receipt: 3.1°C
1. CHILLED Y ☐ N ☐ ICE IR#2
2. HEADSPACE (VOA) Y ☐ N ☐
3. CONTAINER INTACT Y ☐ N ☐
4. SEALED Y ☐ N ☐
5. # OF SPLS MATCH COC Y ☐ N ☐
6. PRESERVED Y ☐ N ☐

Client: Cardno ATC
Attention: Andrew Stuart
Address: 7115 Amigo Street, Suite 100
City: Las Vegas State: Nevada Zip Code: 89119
Tel: 702-990-9300
Fax: 702-990-9305

Project Name: Maryland Square
Project #: 085.42620.0001
Sampler: *I attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.*
(Printed Name) Norman Ascano
(Signature)

Relinquished by: (Signature and Printed Name)	Date	Time	Received by: (Signature and Printed Name)	Date	Time
Norman Ascano	11/12/13	1530	Amaya Bravo	11/12/13	16:50
Amaya Bravo	11/12/13	6:50	[illegible]	11/12/13	705

I hereby authorize ATL to perform the work indicated below:
Project Mgr /Submitter: Norman Ascano 11/12/13
Print Name Date
Signature

Send Report To:
Attn: Andrew Stuart
Co: Cardno ATC
Addr: 7115 Amigo Street, Suite 100
City: Las Vegas State: NV Zip: 89119

Bill To:
Attn: (same)
Co:
Addr:
City: State: Zip:

Special Instructions/Comments:

Sample/Records - Archival & Disposal
Unless otherwise requested by client, all samples will be disposed 45 days after receipt and records will be disposed 1 year after submittal of final report.

Storage Fees (applies when storage is requested):
- Sample :$2.00 / sample /mo (after 45 days)
- Records: $1 /ATL workorder /mo (after 1 year)

Circle or Add Analysis(es) Requested

SPECIFY APPROPRIATE MATRIX

QA/QC: RTNE ☐ CT ☐ SWRCB ☐ Logcode_____ OTHER _____

ITEM	LAB USE ONLY: Lab No.	Sample Description: Sample ID / Location	Date	Time	8260B (Volatiles)	8015M - GRO	8015B - DRO/ORO	PCE/TCE/DCE/VC 8260	6020 (metals)	218.6 Hexavalent Chromium	SOIL	WATER	GROUND WATER	WASTEWATER	TAT	Container(s) #	Container(s) Type	PRESERVATION	REMARKS
	N011443-30	MW-23	11/12	1347			X					X			E	3	V	H	
	31	MW-25	11/12	1126			X					X			E	3	V	H	
	32	~~MW-28 Dup~~ MW-32 Dup	11/12	[illegible]			X					X			E	3	V	H	
	33	MW-26	11/12	1309			X					X			E	3	V	H	
	34	MW-27	11/12	1038			X					X			E	3	V	H	
	35	MW-30	11/11	1308			X					X			E	3	V	H	
	36	MW-31	11/11	1208			X					X			E	3	V	H	
	37	MW-32	11/12	1213			X					X			E	3	V	H	
	38	MW-33	11/8	898			X					X			E	3	V	H	
	39	MW-34	11/4	1527			X					X			E	3	V	H	

- TAT starts 8AM the following day if samples received after 3 PM

TAT: ☐ A = Overnight ≤ 24 hrs ☐ B = Emergency Next Workday ☐ C = Critical 2 Workdays ☐ D = Urgent 3 Workdays ☑ E = Routine 7 Workdays

Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedlar G=Glass P=Plastic M=Metal

Preservatives: H=HCl N=HNO_3 S=H_2SO_4 C=4°C Z=$Zn(AC)_2$ O=NaOH T=$Na_2S_2O_3$

CHAIN OF CUSTODY RECORD

Advanced Technology Laboratories INC.
3151-3153 W. Post Rd.
Las Vegas, NV 89118
Tel: (702) 307-2659 • Fax: (702) 307-2691

FOR LABORATORY USE ONLY

P.O. #: _____
Logged By: MSG Date: 11/12/13

Method of Transport: Client ☐ ATL ☐ CA OverN ☐ FedEx ☐ Other: _____

Sample Condition Upon Receipt: 3/1°C
1. CHILLED Y ☐ N ☐ (ICE IR#2) 4. SEALED Y ☐ N ☐
2. HEADSPACE (VOA) Y ☐ N ☐ 5. # OF SPLS MATCH COC Y ☐ N ☐
3. CONTAINER INTACT Y ☐ N ☐ 6. PRESERVED Y ☐ N ☐

Client: Cardno ATC
Attention: Andrew Stuart
Address: 7115 Amigo Street, Suite 100
City: Las Vegas State: Nevada Zip Code: 89119
Tel: 702-990-9300
Fax: 702-990-9305

Project Name: Maryland Square
Project #: 085.42620.0001
Sampler: *I attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.*
(Printed Name) Normand Scott
(Signature)

Relinquished by: (Signature and Printed Name)	Date	Time	Received by: (Signature and Printed Name)	Date	Time
Normand Scott	11/12/13	1530	MBCARTIN	11/12/13	1650
MBCARTIN	11/12/13	1650	Arnold Brian	11/12/13	1705

I hereby authorize ATL to perform the work indicated below:
Project Mgr /Submitter: Normand Scott 11/12/13
Print Name Date
Signature

Send Report To:
Attn: Andrew Stuart
Co: Cardno ATC
Addr: 7115 Amigo Street, Suite 100
City: Las Vegas State: NV Zip: 89119

Bill To:
Attn: (same)
Co:
Addr:
City: State: Zip:

Special Instructions/Comments:

Sample/Records - Archival & Disposal
Unless otherwise requested by client, all samples will be disposed 45 days after receipt and records will be disposed 1 year after submittal of final report.

Storage Fees (applies when storage is requested):
- Sample :$2.00 / sample /mo (after 45 days)
- Records: $1 /ATL workorder /mo (after 1 year)

Circle or Add Analysis(es) Requested

SPECIFY APPROPRIATE MATRIX

PRESERVATION

QA/QC: RTNE ☐ CT ☐ SWRCB ☐ Logcode _____ OTHER _____

ITEM	LAB USE ONLY: Lab No.	Sample Description: Sample ID / Location	Date	Time	8260B (Volatiles)	8015M - GRO	8015B - DRO/ORO	PCE/TCE/DCE/VC 8260	6020 (metals)	218.6 Hexavalent Chromium	SOIL	WATER	GROUND WATER	WASTEWATER	TAT	Container(s) #	Container(s) Type	PRESERVATION	REMARKS
	N011443-40	MW-35	11/4	1440				X				X			E	3	V	H	
	41	MW-36	11/12	933				X				X			E	3	V	H	
	42	MW-37	11/11	1114				X				X			E	3	V	H	
	43	MW-38	11/11	1023				X				X			E	3	V	H	
	44	MW-38 Dup	11/11	1023				X				X			E	3	V	H	
	45	MW-39	11/11	1404				X				X			E	3	V	H	
	46	MW-40 CMT-30	11/6	1030				X	X	X		X			E	3	V	H	
	47	MW-40 CMT-35	11/6	1100				X	X	X		X			E	3	V	H	
	48	MW-40 CMT-40	11/6	1320				X	X	X		X			E	3	V	H	
	49	MW-40 CMT-45	11/6	1450				X	X	X		X			E	3	V	H	

- TAT starts 8AM the following day if samples received after 3 PM

TAT: ☐ A = Overnight ≤ 24 hrs ☐ B = Emergency Next Workday ☐ C = Critical 2 Workdays ☐ D = Urgent 3 Workdays ☑ E = Routine 7 Workdays

Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedlar G=Glass P=Plastic M=Metal

Preservatives: H=HCl N=HNO_3 S=H_2SO_4 C=4°C Z=$Zn(AC)_2$ O=NaOH T=$Na_2S_2O_3$

CHAIN OF CUSTODY RECORD

Advanced Technology Laboratories INC.
3151-3153 W. Post Rd.
Las Vegas, NV 89118
Tel: (702) 307-2659 • Fax: (702) 307-2691

FOR LABORATORY USE ONLY

P.O. #: _____

Logged By: MG Date: 11/12/13

Method of Transport: Client ☐ ATL ☐ CA OverN ☐ FedEx ☐ Other: _____

Sample Condition Upon Receipt: 3.1°C
1. CHILLED Y ☐ N ☐ (ICE PACK) 4. SEALED Y ☐ N ☐
2. HEADSPACE (VOA) Y ☐ N ☐ 5. # OF SPLS MATCH COC Y ☐ N ☐
3. CONTAINER INTACT Y ☐ N ☐ 6. PRESERVED Y ☐ N ☐

Client: Cardno ATC
Attention: Andrew Stuart
Address: 7115 Amigo Street, Suite 100
City: Las Vegas State: Nevada Zip Code: 89119
Tel: 702-990-9300
Fax: 702-990-9305

Project Name: Maryland Square
Project #: 085.42620.0001
Sampler: *I attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.*
(Printed Name) Norman Hastings (Signature)

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
Norman Hastings	11/12/13	1530	Amoly Brown	11-12-13	16:50
Amoly Brown	11/12/13	16:50	MBEARTH	11/12/13	1600

I hereby authorize ATL to perform the work indicated below:
Project Mgr./Submitter: Norman Hastings 11/12/13
Print Name Date
Signature

Send Report To:
Attn: Andrew Stuart
Co: Cardno ATC
Addr: 7115 Amigo Street, Suite 100
City: Las Vegas State: NV Zip: 89119

Bill To:
Attn: (same)
Co:
Addr:
City: State: Zip:

Special Instructions/Comments:

Sample/Records - Archival & Disposal
Unless otherwise requested by client, all samples will be disposed 45 days after receipt and records will be disposed 1 year after submittal of final report.

Storage Fees (applies when storage is requested):
- Sample :$2.00 / sample /mo (after 45 days)
- Records: $1 /ATL workorder /mo (after 1 year)

Circle or Add Analysis(es) Requested

SPECIFY APPROPRIATE MATRIX

QA/QC: RTNE ☐ CT ☐ SWRCB ☐ Logcode_____ OTHER _____

ITEM	LAB USE ONLY: Lab No.	Sample Description: Sample ID / Location	Date	Time	8260B (Volatiles)	8015M - GRO	8015B - DRO/ORO	PCE/TCE/DCE/VC 8260	6020 (metals)	218.6 Hexavalent Chromium	SOIL	WATER	GROUND WATER	WASTEWATER	TAT	Container(s) #	Container(s) Type	PRESERVATION	REMARKS
	1011443-50	MW-40 CMT-50	11/6	1230				X	X	X			X			E	3	V	H	
	51	MW-40 CMT-55	11/6	1400				X	X	X			X			E	3	V	H	
	52	MW-40 CMT-60	11/6	1130				X	X	X			X			E	3	V	H	
	53	MW-40 CMT-60 Dup	11/6	1130				X	~~X~~				X			E	3	V	H	
	54	MW-41	11/11	938				X					X			E	3	V	H	
	55	MW-42	11/11	846				X					X			E	3	V	H	
	56	MW-43	11/8	945				X					X			E	3	V	H	
	57	Trip Blank	11/4	700				X					X			E	3	V	H	
	58	Field Blank	11/4	12:25				X					X			E	3	V	H	
	59	Equip Rinse	11/4	12:49				X					X			E	3	V	H	

- TAT starts 8AM the following day if samples received after 3 PM

TAT: ☐ A = Overnight ≤ 24 hrs ☐ B = Emergency Next Workday ☐ C = Critical 2 Workdays ☐ D = Urgent 3 Workdays ☑ E = Routine 7 Workdays

Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedlar G=Glass P=Plastic M=Metal

Preservatives: H=HCl N=HNO_3 S=H_2SO_4 C=4°C Z=$Zn(AC)_2$ O=NaOH T=$Na_2S_2O_3$

CHAIN OF CUSTODY RECORD

Advanced Technology Laboratories INC.
3151-3153 W. Post Rd.
Las Vegas, NV 89118
Tel: (702) 307-2659 • Fax: (702) 307-2691

FOR LABORATORY USE ONLY

P.O. #: _____
Logged By: ASC Date: 11/12/13

Method of Transport: Client ☐ ATL ☐ CA OverN ☐ FedEx ☐ Other: _____

Sample Condition Upon Receipt: 3.1°C
1. CHILLED Y ☐ N ☐ ICE IR#2 — 4. SEALED Y ☐ N ☐
2. HEADSPACE (VOA) Y ☐ N ☐ — 5. # OF SPLS MATCH COC Y ☐ N ☐
3. CONTAINER INTACT Y ☐ N ☐ — 6. PRESERVED Y ☐ N ☐

Client: Cardno ATC
Attention: Andrew Stuart
Address: 7115 Amigo Street, Suite 100
City: Las Vegas State: Nevada Zip Code: 89119
Tel: 702-990-9300
Fax: 702-990-9305

Project Name: Maryland Square
Project #: 085.42620.0001
Sampler: *I attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.*
(Printed Name) Norman Ascaso
(Signature)

Relinquished by: (Signature and Printed Name)	Date	Time	Received by: (Signature and Printed Name)	Date	Time
Norman Ascaso	11/12/13	1530	Arnold Brian	11-12-13	16:30
Arnold Brian	11/12/13	16:30	MSCARTON	11/12/13	1705
	Date:	Time:		Date:	Time:

I hereby authorize ATL to perform the work indicated below:
Project Mgr /Submitter: Norman Ascaso 11/12/13
Print Name Date
Signature

Send Report To:
Attn: Andrew Stuart
Co: Cardno ATC
Addr: 7115 Amigo Street, Suite 100
City: Las Vegas State: NV Zip: 89119

Bill To:
Attn: (same)
Co:
Addr:
City: State: Zip:

Special Instructions/Comments:

Sample/Records - Archival & Disposal
Unless otherwise requested by client, all samples will be disposed 45 days after receipt and records will be disposed 1 year after submittal of final report.

Storage Fees (applies when storage is requested):
- Sample :$2.00 / sample /mo (after 45 days)
- Records: $1 /ATL workorder /mo (after 1 year)

Circle or Add Analysis(es) Requested

SPECIFY APPROPRIATE MATRIX

QA/QC: RTNE ☐ CT ☐ SWRCB ☐ Logcode_____ OTHER _____

ITEM	LAB USE ONLY: Lab No.	Sample Description: Sample ID / Location	Date	Time	8260B (Volatiles)	8015M - GRO	8015B - DRO/ORO	PCE/TCE/DCE/VC 8260	6020 (metals)	218.6 Hexavalent Chromium	SOIL	WATER	GROUND WATER	WASTEWATER	TAT	Container(s) #	Container(s) Type	PRESERVATION	REMARKS
	N011443-60	Trip Blank	11/5	645				X				X			E	3	V	H	
	61	Field Blank	11/5	1030				X				X			E	3	V	H	
	62	Equip Rinse	11/5	1050				X				X			E	3	V	H	
	63	Trip Blank	11/6	710				X				X			E	3	V	H	
	64	Field Blank	11/6	1235				X				X			E	3	V	H	
	65	Equip Rinse	11/6	1236				X				X			E	3	V	H	
	66	Trip Blank	11/7	650				X				X			E	3	V	H	
	67	Field Blank	11/7	1100				X				X			E	3	V	H	
	68	Equip Rinse	11/7	1055				X				X			E	3	V	H	
	69	Trip Blank	11/8	652				X				X			E	3	V	H	

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Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedlar G=Glass P=Plastic M=Metal

Preservatives: H=HCl $N=HNO_3$ $S=H_2SO_4$ C=4°C $Z=Zn(AC)_2$ O=NaOH $T=Na_2S_2O_3$

CHAIN OF CUSTODY RECORD

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3151-3153 W. Post Rd.
Las Vegas, NV 89118
Tel: (702) 307-2659 • Fax: (702) 307-2691

FOR LABORATORY USE ONLY

P.O. #: _____

Logged By: HSG Date: 11/12/13

Method of Transport: Client ☐ ATL ☐ CA OverN ☐ FedEx ☐ Other: _____

Sample Condition Upon Receipt:
1. CHILLED Y ☐ N ☐ 4. SEALED Y ☐ N ☐
2. HEADSPACE (VOA) Y ☐ N ☐ 5. # OF SPLS MATCH COC Y ☐ N ☐
3. CONTAINER INTACT Y ☐ N ☐ 6. PRESERVED Y ☐ N ☐

Client: Cardno ATC
Attention: Andrew Stuart
Address: 7115 Amigo Street, Suite 100
City: Las Vegas State: Nevada Zip Code: 89119
Tel: 702-990-9300
Fax: 702-990-9305

Project Name: Maryland Square
Project #: 085.42620.0001
Sampler: *I attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.* (Printed Name) Norman Ascott (Signature)

Relinquished by: (Signature and Printed Name)	Date	Time	Received by: (Signature and Printed Name)	Date	Time
Norman Ascott	11/12/13	1530	Amanda Brown	11-12-13	16:50
Amanda Brown	11/12/13	16:50p	MBCARTIN	11/12/13	1705
	Date:	Time:		Date:	Time:

I hereby authorize ATL to perform the work indicated below:
Project Mgr /Submitter: Norman Ascott 11/12/13
Print Name Date
Signature

Send Report To:
Attn: Andrew Stuart
Co: Cardno ATC
Addr: 7115 Amigo Street, Suite 100
City: Las Vegas State: NV Zip: 89119

Bill To:
Attn: (same)
Co: _____
Addr: _____
City: _____ State: _____ Zip: _____

Special Instructions/Comments:

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Circle or Add Analysis(es) Requested

SPECIFY APPROPRIATE MATRIX

PRESERVATION

QA/QC: RTNE ☐ CT ☐ SWRCB ☐ Logcode _____ OTHER _____

ITEM	LAB USE ONLY: Lab No.	Sample Description: Sample ID / Location	Date	Time	8260B (Volatiles)	8015M - GRO	8015B - DRO/ORO	PCE/TCE/DCE/VC 8260	6020 (metals)	218.6 Hexavalent Chromium	SOIL	WATER	GROUND WATER	WASTEWATER	TAT	Container(s) #	Container(s) Type	PRESERVATION	REMARKS
	Nb11443-70	Field Blank	11/8	1130				X				X			E	3	V	H	
	71	Equip Rinse	11/8	1210				X				X			E	3	V	H	
	72	Trip Blank	11/11	710				X				X			E	3	V	H	
	73	Field Blank	11/11	1048				X				X			E	3	V	H	
	74	Equip Rinse	11/11	1125				X				X			E	3	V	H	
	75	Trip Blank	11/12	705				X				X			E	3	V	H	
	76	Field Blank	11/12	1205				X				X			E	3	V	H	
	77	Equip Rinse	11/12	1220				X				X			E	3	V	H	
	78	MW-MD3-HU	11/8	1715				X				X			E	3	V	H	

TAT starts 8AM the following day if samples received after 3 PM

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Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedlar G=Glass P=Plastic M=Metal

Preservatives: H=HCl $N=HNO_3$ $S=H_2SO_4$ C=4°C $Z=Zn(AC)_2$ O=NaOH $T=Na_2S_2O_3$

Advanced Technology Laboratories, Inc.

Please review the checklist below. Any NO signifies non-compliance. Any non-compliance will be noted and must be understood as having an impact on the quality of the data. All tests will be performed as requested regardless of any compliance issues.

If you have any questions or further instruction, please contact our Project Coordinator at (702) 307-2659.

Cooler Received/Opened On:	11/12/2013	Workorder:	N011443
Rep sample Temp (Deg C):	3.1	IR Gun ID:	2
Temp Blank:	☐ Yes ☑ No		
Carrier name:	ATL		
Last 4 digits of Tracking No.:	NA	Packing Material Used:	None
Cooling process:	☑ Ice ☐ Ice Pack ☐ Dry Ice ☐ Other ☐ None		

Sample Receipt Checklist

1. Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
2. Custody seals intact, signed, dated on shippping container/cooler?	Yes ☐	No ☐	Not Present ☑
3. Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
4. Chain of custody present?	Yes ☑	No ☐	
5. Sampler's name present in COC?	Yes ☑	No ☐	
6. Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
7. Chain of custody agrees with sample labels?	Yes ☑	No ☐	
8. Samples in proper container/bottle?	Yes ☑	No ☐	
9. Sample containers intact?	Yes ☑	No ☐	
10. Sufficient sample volume for indicated test?	Yes ☑	No ☐	
11. All samples received within holding time?	Yes ☑	No ☐	
12. Temperature of rep sample or Temp Blank within acceptable limit?	Yes ☑	No ☐	NA ☐
13. Water - VOA vials have zero headspace?	Yes ☑	No ☐	NA ☐
14. Water - pH acceptable upon receipt? Example: pH > 12 for (CN,S); pH<2 for Metals	Yes ☑	No ☐	NA ☐
15. Did the bottle labels indicate correct preservatives used?	Yes ☑	No ☐	NA ☐
16. Were there Non-Conformance issues at login?	Yes ☐	No ☐	NA ☑
Was Client notified?	Yes ☐	No ☐	NA ☑

Comments:

Checklist Completed By: MBC for: 11/13/2013

Reviewed By:

Hanah Glodoviza

From: Andrew Stuart [andrew.stuart@cardno.com]
Sent: Wednesday, November 13, 2013 4:32 PM
To: Hanah Glodoviza
Cc: 'Marlon B. Cartin'; 'Sample Control'
Subject: RE: Maryland Square, 085.42620.0001

Correct on both. Thanks

Andrew Stuart, CEM, LEED AP
BRANCH MANAGER
CARDNO ATC

NOTE NEW ADDRESS AND PHONE NUMBERS
Phone (+1) 702-990-9300 Fax (+1) 702-990-9305 Direct (+1) 702-990-7540 Mobile (+1) 702-524-1454
Address 7115 Amigo Street, Suite 100, Las Vegas, NV 89119
Email andrew.stuart@cardno.com Web www.cardnoatc.com - www.cardno.com

---

From: Hanah Glodoviza [mailto:hanah.glodoviza@atl-labs.com]
Sent: Wednesday, November 13, 2013 4:34 PM
To: Andrew Stuart
Cc: 'Marlon B. Cartin'; 'Sample Control'
Subject: Maryland Square, 085.42620.0001

Hi Andrew,

I got 7 set of TRIP BLANK samples, one of them is sampled 11/5 0650 (per sample label) but what I have on COC is 11/5 0645. I am assuming that this is the same sample because all 6 TRIP BLANK samples have matched the COC.

I also got a set of VOA labeled RINSE BLANK (1 VOA has sampling date/time 11/6 1230 and the other 2 is 11/6 1235) which is not written on COC. Again I assumed that is the EQUIP RINSE with sampling date/time 11/6 1235 on COC.

Please confirm if my assumption is correct and kindly advice if not.

Thanks,
Hanah

Advanced Technology Laboratories, Inc.
Your Partner for Quality Environmental Testing

3151 W. Post Road Las Vegas, NV 89118
www.atl-labs.com
Tel: (702) 307-2659
Fax: (702) 307-2691

Advanced Technology Laboratories, Inc. is a full-service woman owned environmental laboratory providing organic and inorganic analyses of soil, water, wastewater, storm water and hazardous waste samples. *ATL Inc is* certified by the State of California, NELAP, and the State of Nevada. It is also a certified UDBE, SBE and DBE. *ATL Inc* takes pride in providing our customers with quick turnaround time, excellent customer service and defensible data while offering very competitive rates**.**

From:	Adam Katlein
To:	Adam Katlein
Subject:	FW: Maryland Square
Date:	Thursday, January 23, 2014 9:57:38 AM

From: Marlon B. Cartin [mailto:marlon@atl-labs.com]
Sent: Tuesday, January 21, 2014 5:21 PM
To: Andrew Stuart; Adam Katlein
Cc: glen@atl-labs.com
Subject: RE: Maryland Square

Hi Andrew!

I check with the analyst on this and she said she actually ran two vials on this to confirm the results, and it looks like the figures are accurate. We also check the label of the vials to check for error in labeling and they are labeled properly. Below are the results of two different runs;

MW-40 CMT 60 – Vial 1 @ 1X, result for TCE is 160 ppb. Not reported.

- Vial 2 @ 5X, result for TCE is 190 ppb. Reported.

MW-40 CMT 60 Dup - Vial 1 @ 1X, result for TCE is 340 ppb. Not reported.

- Vial 2 @ 5X, result for TCE is 410 ppb. Reported.

Please let me know if you want us to run the remaining Vial.

Thanks,

Marlon

From: Andrew Stuart [mailto:andrew.stuart@cardno.com]
Sent: Tuesday, January 21, 2014 4:35 PM
To: Marlon Cartin (marlon@atl-labs.com); Adam Katlein
Subject: FW: Maryland Square

Marlon can you look at duplicate of MW-CMT 60 it was a big difference.

Might need to look at the other voas.

Andrew Stuart, CEM, LEED AP
BRANCH MANAGER
CARDNO ATC

NOTE NEW ADDRESS AND PHONE NUMBERS
Phone (+1) 702-990-9300 Fax (+1) 702-990-9305 Direct (+1) 702-990-7540 Mobile (+1) 702-524-1454

Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: *27-Jan-14*

CLIENT:	Cardno ATC	**Client Sample ID:**	MW-40 CMT-60
Lab Order:	N011443	**Collection Date:**	11/6/2013 11:30:00 AM
Project:	Maryland Square, 085.42620.0001	**Matrix:**	GROUNDWATER
Lab ID:	N011443-052D		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS5_140124A**	QC Batch: **P14VW014**			PrepDate:			Analyst: **PN**
1,1-Dichloroethene	ND	0.33	1.0		µg/L	2	1/24/2014 02:10 PM
cis-1,2-Dichloroethene	2.4	0.11	1.0		µg/L	2	1/24/2014 02:10 PM
Tetrachloroethene	130	0.23	1.0		µg/L	2	1/24/2014 02:10 PM
trans-1,2-Dichloroethene	ND	0.23	1.0		µg/L	2	1/24/2014 02:10 PM
Trichloroethene	3.1	0.15	1.0		µg/L	2	1/24/2014 02:10 PM
Vinyl chloride	ND	0.16	1.0		µg/L	2	1/24/2014 02:10 PM
Surr: 1,2-Dichloroethane-d4	106	0	70-127		%REC	2	1/24/2014 02:10 PM
Surr: 4-Bromofluorobenzene	105	0	80-120		%REC	2	1/24/2014 02:10 PM
Surr: Dibromofluoromethane	104	0	73-128		%REC	2	1/24/2014 02:10 PM
Surr: Toluene-d8	103	0	80-120		%REC	2	1/24/2014 02:10 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

Advanced Technology Laboratories, Inc.

3151 W. Post Rd Las Vegas, NV 89118 Tel: 702-307-2659 Fax: 702-307-2691

Advanced Technology Laboratories, Inc.

ANALYTICAL RESULTS

Print Date: *27-Jan-14*

CLIENT:	Cardno ATC	**Client Sample ID:**	MW-40 CMT-60 Dup
Lab Order:	N011443	**Collection Date:**	11/6/2013 11:30:00 AM
Project:	Maryland Square, 085.42620.0001	**Matrix:**	GROUNDWATER
Lab ID:	N011443-053B		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS							
			EPA 8260B				
RunID: **MS5_140124A**	QC Batch: **P14VW014**			PrepDate:			Analyst: **PN**
1,1-Dichloroethene	ND	0.16	0.50		µg/L	1	1/24/2014 09:50 PM
cis-1,2-Dichloroethene	3.4	0.057	0.50		µg/L	1	1/24/2014 09:50 PM
Tetrachloroethene	360	1.2	5.0		µg/L	10	1/24/2014 02:34 PM
trans-1,2-Dichloroethene	ND	0.11	0.50		µg/L	1	1/24/2014 09:50 PM
Trichloroethene	3.9	0.075	0.50		µg/L	1	1/24/2014 09:50 PM
Vinyl chloride	ND	0.082	0.50		µg/L	1	1/24/2014 09:50 PM
Surr: 1,2-Dichloroethane-d4	104	0	70-127		%REC	1	1/24/2014 09:50 PM
Surr: 1,2-Dichloroethane-d4	106	0	70-127		%REC	10	1/24/2014 02:34 PM
Surr: 4-Bromofluorobenzene	107	0	80-120		%REC	1	1/24/2014 09:50 PM
Surr: 4-Bromofluorobenzene	107	0	80-120		%REC	10	1/24/2014 02:34 PM
Surr: Dibromofluoromethane	103	0	73-128		%REC	1	1/24/2014 09:50 PM
Surr: Dibromofluoromethane	105	0	73-128		%REC	10	1/24/2014 02:34 PM
Surr: Toluene-d8	103	0	80-120		%REC	1	1/24/2014 09:50 PM
Surr: Toluene-d8	103	0	80-120		%REC	10	1/24/2014 02:34 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

Maryland Square PCE Site

APPENDIX C
MANN-KENDALL TREND TEST FOR PLUME STABILITY

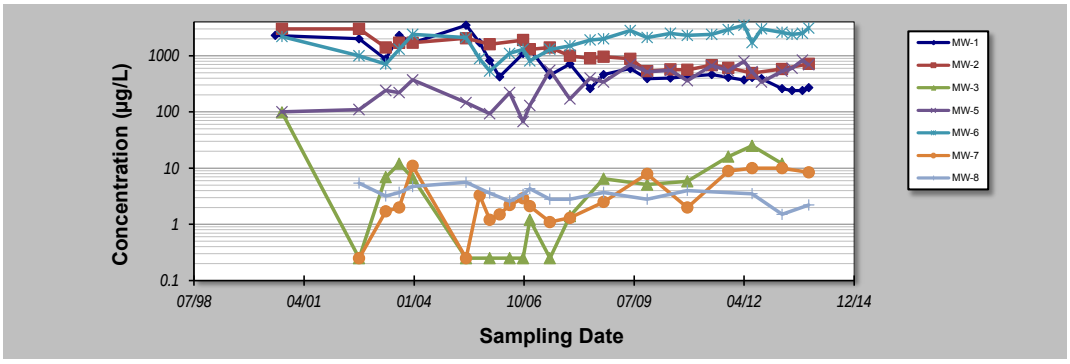
Cardno ATC
Shaping the Future

GSI MANN-KENDALL TOOLKIT
for Constituent Trend Analysis

Evaluation Date: 15-Jan-14
Facility Name: Maryland Square PCE Site
Conducted By: Cardno ATC

Job ID: 085.42620.0001
Constituent: PCE
Concentration Units: µg/L

Sampling Point ID:	MW-1	MW-2	MW-3	MW-5	MW-6	MW-7	MW-8
Sampling Event	Sampling Date	PCE CONCENTRATION (µg/L)						
1	Aug 00	2,300						
2	Oct 00		3,000	98	100	2,200		
3	Sep 02	2,000	3,000	0.25	110	1,000	0.25	5.4
4	May 03	870	1,400	6.9	240	710	1.7	3.2
5	Sep 03	2,300	1,700	12	220	1,300	2	3.7
6	Jan 04	1,700	1,700	6.7	370	2,400	11	4.7
7	May 05	3,500	2,050	0.25	146	2,090	0.25	5.6
8	Sep 05	1,700				890	3.3	
9	Dec 05	820	1,600	0.25	93	530	1.2	3.6
10	Mar 06	420					1.5	
11	Jun 06			0.25	220	1,100	2.2	2.6
12	Oct 06	1,100	1,900	0.25	67	1,300	2.9	3.4
13	Dec 06	1,300	1,300	1.2	130	810	2.1	4.3
14	Mar 07							
15	Jun 07	450	1,400	0.25	550	1,300	1.1	2.8
16	Sep 07							
17	Dec 07	710	1,000	1.4	170	1,500	1.3	2.8
18	Mar 08							
19	Jun 08	260	900		400	1,900		
20	Oct 08	460	960	6.5	340	2,000	2.5	3.7
21	Feb 09							
22	Jun 09	590	880		700	2,800		
23	Sep 09							
24	Nov 09	390	530	5.1	520	2,100	7.9	2.8
25	Feb 10							
26	Jun 10	400	570		550	2,500		
27	Oct 10							
28	Nov 10	430	560	5.8	360	2,300	2	4
29	Mar 11							
30	Jun 11	460	680		670	2,400		
31	Sep 11							
32	Nov 11	410	610	16	540	2,900	8.9	
33	Mar 12	370			800	3,500		
34	Jun 12	410	490	25	520	1,700	10	3.5
35	Sep 12	390			340	3,000		
36	Nov 12							
37	Mar 13	260	580	12	530	2,600	10	1.5
38	Jun 13	240			600	2,400		
39	Sep 13	240			830	2,500		
40	Nov-13	270	720		690	3,100	8.4	2.2
Coefficient of Variation:		0.93	0.60	2.07	0.58	0.41	0.92	0.31
Mann-Kendall Statistic (S):		-265	-166	29	193	205	77	-52
Confidence Factor:		>99.9%	>99.9%	85.3%	>99.9%	>99.9%	99.4%	98.3%
Concentration Trend:		Decreasing	Decreasing	No Trend	Increasing	Increasing	Increasing	Decreasing



Notes:

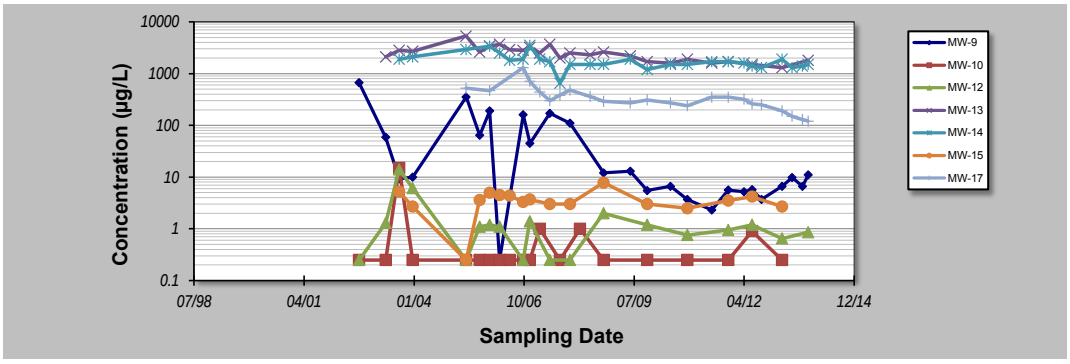
1. At least four independent sampling events per well are required for calculating the trend. *Methodology is valid for 4 to 40 samples.*
2. Confidence in Trend = Confidence (in percent) that constituent concentration is increasing (S>0) or decreasing (S<0): >95% = Increasing or Decreasing; ≥ 90% = Probably Increasing or Probably Decreasing; < 90% and S>0 = No Trend; < 90%, S≤0, and COV ≥ 1 = No Trend; < 90% and COV < 1 = Stable.
3. Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, *Ground Water* , 41(3):355-367, 2003.

GSI MANN-KENDALL TOOLKIT
for Constituent Trend Analysis

Evaluation Date: 15-Jan-14
Facility Name: Maryland Square PCE Site
Conducted By: Cardno ATC

Job ID: 085.42620.0001
Constituent: PCE
Concentration Units: µg/L

Sampling Point ID:	MW-9	MW-10	MW-12	MW-13	MW-14	MW-15	MW-17
Sampling Event	Sampling Date	PCE CONCENTRATION (µg/L)						
1	Aug 00							
2	Oct 00							
3	Sep 02	670	0.25	0.25				
4	May 03	59	0.25	1.3	2,100			
5	Sep 03	9.2	15	14	2,800	1,900	5.2	
6	Jan 04	10	0.25	6.1	2,700	2,100	2.7	
7	May 05	353	0.25	0.25	5,310	2,920	0.25	520
8	Sep 05	64	0.25	1.1	2,600		3.6	
9	Dec 05	190	0.25	1.2	3,400	3,400	5	470
10	Mar 06	0.25	0.25	1.1	3,700	2,500	4.5	
11	Jun 06		0.25		2,900	1,800	4.4	
12	Oct 06	160	0.25	0.25	2,800	1,900	3.3	1,300
13	Dec 06	45	0.25	1.4	3,200	3,500	3.7	710
14	Mar 07		1		2,500	1,900		440
15	Jun 07	170		0.25	3,700	1,700	3	300
16	Sep 07		0.25		2,000	650		380
17	Dec 07	110		0.25	2,500	1,500	3	480
18	Mar 08		1					
19	Jun 08				2,300	1,500		360
20	Oct 08	12	0.25	2	2,600	1,500	7.8	290
21	Feb 09							
22	Jun 09	13			2,200	1,900		270
23	Sep 09							
24	Nov 09	5.5	0.25	1.2	1,700	1,200	3	310
25	Feb 10							
26	Jun 10	6.6			1,600	1,500		270
27	Oct 10							
28	Nov 10	3.7	0.25	0.76	1,900	1,500	2.5	240
29	Mar 11							
30	Jun 11	2.3			1,600	1,700		350
31	Sep 11							
32	Nov 11	5.6	0.25	0.95	1,700	1,700	3.5	350
33	Mar 12	5.2				1,600		320
34	Jun 12	5.7	0.9	1.2	1,500	1,400	4.2	260
35	Sep 12	3.7				1,300		250
36	Nov 12							
37	Mar 13	6.6	0.25	0.65	1,300	1,900	2.7	190
38	Jun 13	9.8				1,300		150
39	Sep 13	6.6				1,400		130
40	Nov-13	11		0.86	1,800	1,500		120
Coefficient of Variation:		1.98	3.00	1.74	0.36	0.35	0.43	0.66
Mann-Kendall Statistic (S):		-121	7	-21	-176	-157	-24	-185
Confidence Factor:		99.6%	57.7%	75.5%	>99.9%	>99.9%	82.6%	>99.9%
Concentration Trend:		Decreasing	No Trend	No Trend	Decreasing	Decreasing	Stable	Decreasing



Notes:

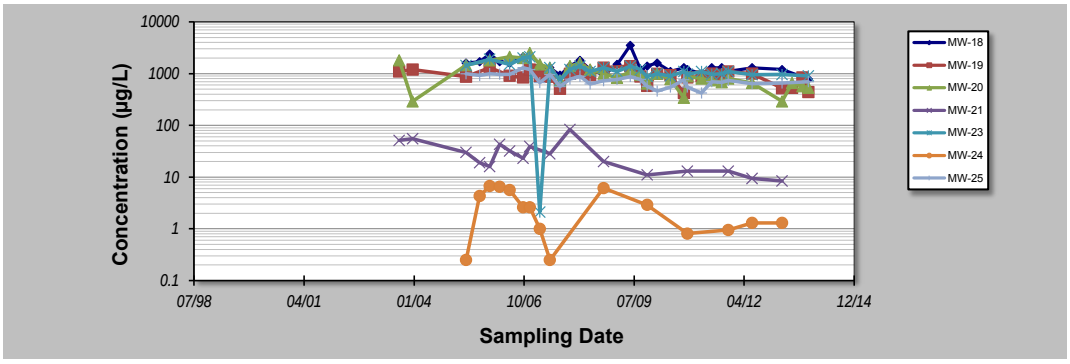
1. At least four independent sampling events per well are required for calculating the trend. *Methodology is valid for 4 to 40 samples.*
2. Confidence in Trend = Confidence (in percent) that constituent concentration is increasing (S>0) or decreasing (S<0): >95% = Increasing or Decreasing; ≥ 90% = Probably Increasing or Probably Decreasing; < 90% and S>0 = No Trend; < 90%, S≤0, and COV ≥ 1 = No Trend; < 90% and COV < 1 = Stable.
3. Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, *Ground Water* , 41(3):355-367, 2003.

GSI MANN-KENDALL TOOLKIT
for Constituent Trend Analysis

Evaluation Date: 15-Jan-14
Facility Name: Maryland Square PCE Site
Conducted By: Cardno ATC

Job ID: 085.42620.0001
Constituent: PCE
Concentration Units: µg/L

Sampling Point ID:	MW-18	MW-19	MW-20	MW-21	MW-23	MW-24	MW-25
Sampling Event	Sampling Date	PCE CONCENTRATION (µg/L)						
1	Aug 00							
2	Oct 00							
3	Sep 02							
4	May 03							
5	Sep 03		1,100	1,800	51			
6	Jan 04		1,200	290	55			
7	May 05	1,600	873	1,460	30	1,430	0.25	993
8	Sep 05	1,700			19		4.3	920
9	Dec 05	2,400	1,300	1,800	16	1,900	6.7	1,000
10	Mar 06	1,700			43		6.5	970
11	Jun 06	1,600	910	2,100	32	1,500	5.6	960
12	Oct 06	2,100	840	2,000	23	2,000	2.6	1,300
13	Dec 06	1,400	1,200	2,500	39	2,100	2.6	1,200
14	Mar 07	1,400	890	1,500		2.1	1	670
15	Jun 07	1,300	870	1,300	28	1,300	0.25	960
16	Sep 07	930	510	730		750		560
17	Dec 07	1,400	990	1,400	83	1,200		780
18	Mar 08	1,800	1,200	1,600		1,400		890
19	Jun 08	1,200	930	1,200		1,100		630
20	Oct 08	950	1,300	1,000	20	1,300	6.1	730
21	Feb 09	1,500		830		1,100		770
22	Jun 09	3,500	1,400	1,100		1,400		880
23	Sep 09	1,200	880	940		1,200		770
24	Nov 09	1,400	580	640	11	880	2.9	570
25	Feb 10	1,600	990	990		1,000		460
26	Jun 10	1,100	930	780		900		550
27	Oct 10	1,300	420	340		1,100		760
28	Nov 10	1,200	840	890	13	970	0.81	550
29	Mar 11	1,000	880	800		1,100		420
30	Jun 11	1,300	1,000	740		970		700
31	Sep 11	1,300	950	680		1,000		680
32	Nov 11	1,100	1,100	800	13	1,100	0.95	740
33	Mar 12							
34	Jun 12	1,300	1,000	660	9.4	950	1.3	640
35	Sep 12							
36	Nov 12							
37	Mar 13	1,200	520	290	8.4	960	1.3	660
38	Jun 13		530	660				
39	Sep 13		840	570				
40	Nov-13	780	440	530		900		700
Coefficient of Variation:		0.36	0.28	0.53	0.69	0.35	0.82	0.27
Mann-Kendall Statistic (S):		-175	-99	-279	-73	-157	-28	-198
Confidence Factor:		>99.9%	96.0%	>99.9%	99.9%	>99.9%	90.8%	>99.9%
Concentration Trend:		Decreasing	Decreasing	Decreasing	Decreasing	Decreasing	Prob. Decreasing	Decreasing



Notes:

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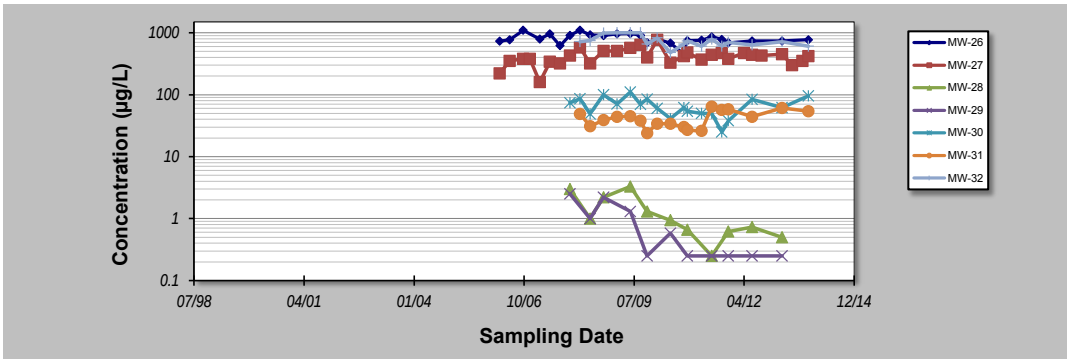
GSI MANN-KENDALL TOOLKIT
for Constituent Trend Analysis

Evaluation Date: 15-Jan-14
Facility Name: Maryland Square PCE Site
Conducted By: Cardno ATC

Job ID: 085.42620.0001
Constituent: PCE
Concentration Units: µg/L

Sampling Point ID:	MW-26	MW-27	MW-28	MW-29	MW-30	MW-31	MW-32
Sampling Event	Sampling Date	PCE CONCENTRATION (µg/L)						
1	Aug 00							
2	Oct 00							
3	Sep 02							
4	May 03							
5	Sep 03							
6	Jan 04							
7	May 05							
8	Sep 05							
9	Dec 05							
10	Mar 06	730	220					
11	Jun 06	770	350					
12	Oct 06	1,100	380					
13	Dec 06		380					
14	Mar 07	790	160					
15	Jun 07	960	340					
16	Sep 07	620	320					
17	Dec 07	910	430	3	3	74		
18	Mar 08	1,100	580			86	49	720
19	Jun 08	930	320	1	1.0	49	31	750
20	Oct 08	900	510	2.2	2.2	100	39	990
21	Feb 09	960	510			71	44	1,000
22	Jun 09	970	570	3.3	1.3	110	45	1,000
23	Sep 09	910	640			70	38	1,000
24	Nov 09	690	400	1.3	0.25	85	24	660
25	Feb 10	790	770			60	34	830
26	Jun 10	680	330	0.94	0.58	41	34	480
27	Oct 10	450	420	.		62	30	660
28	Nov 10	750	480	0.66	0.25	54	27	740
29	Mar 11	760	370			50	26	610
30	Jun 11	860	440	0.25	0.25	50	64	790
31	Sep 11	780	470			25	57	610
32	Nov 11	690	380	0.62	0.25	38	58	700
33	Mar 12		470					
34	Jun 12	740	440	0.73	0.25	84	44	640
35	Sep 12		430					
36	Nov 12							
37	Mar 13	740	450	0.50	0.25	62	61	720
38	Jun 13		300					
39	Sep 13		350					
40	Nov-13	770	420			96	54	610
Coefficient of Variation:		0.18	0.29	0.79	1.01	0.34	0.30	0.21
Mann-Kendall Statistic (S):		-77	57	-35	-34	-45	25	-55
Confidence Factor:		96.2%	84.0%	99.7%	99.6%	93.8%	81.6%	98.0%
Concentration Trend:		Decreasing	No Trend	Decreasing	Decreasing	Prob. Decreasing	No Trend	Decreasing



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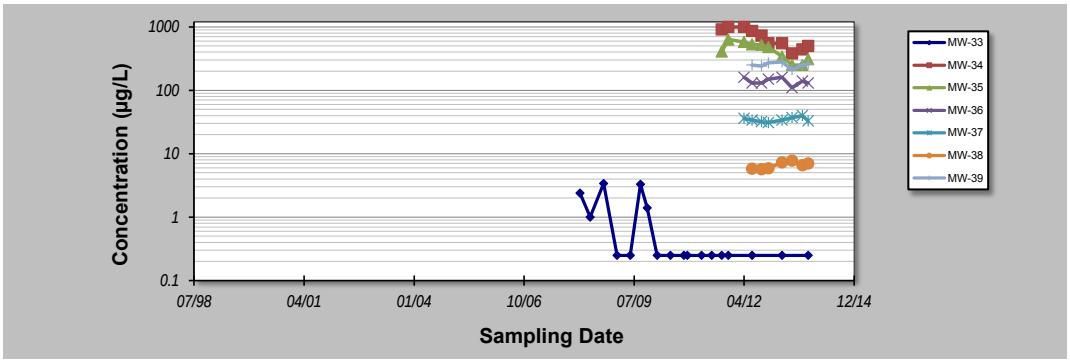
GSI MANN-KENDALL TOOLKIT
for Constituent Trend Analysis

Evaluation Date: 15-Jan-14
Facility Name: Maryland Square PCE Site
Conducted By: Cardno ATC

Job ID: 085.42620.0001
Constituent: PCE
Concentration Units: µg/L

Sampling Point ID:	MW-33	MW-34	MW-35	MW-36	MW-37	MW-38	MW-39
Sampling Event	Sampling Date	PCE CONCENTRATION (µg/L)						
1	Aug 00							
2	Oct 00							
3	Sep 02							
4	May 03							
5	Sep 03							
6	Jan 04							
7	May 05							
8	Sep 05							
9	Dec 05							
10	Mar 06							
11	Jun 06							
12	Oct 06							
13	Dec 06							
14	Mar 07							
15	Jun 07							
16	Sep 07							
17	Dec 07							
18	Mar 08	2.4						
19	Jun 08	1.0						
20	Oct 08	3.4						
21	Feb 09	0.25						
22	Jun 09	0.25						
23	Sep 09	3.3						
24	Nov 09	1.4						
25	Feb 10	0.25						
26	Jun 10	0.25						
27	Oct 10	0.25						
28	Nov 10	0.25						
29	Mar 11	0.25						
30	Jun 11	0.25						
31	Sep 11	0.25	910	410				
32	Nov 11	0.25	1,000	630				
33	Mar 12		1,000	580	160	36		
34	Jun 12	0.25	860	530	130	34	5.8	250
35	Sep 12		730	520	130	32	5.7	240
36	Nov 12		550	480	150	31	5.9	270
37	Mar 13	0.25	550	340	160	34	7.3	280
38	Jun 13		380	250	110	37	7.8	210
39	Sep 13		440	250	140	40	6.6	250
40	Nov-13	0.25	500	310	130	33	7.0	260
Coefficient of Variation:		1.32	0.34	0.32	0.12	0.08	0.12	0.09
Mann-Kendall Statistic (S):		-57	-33	-30	-6	3	11	2
Confidence Factor:		98.4%	99.9%	99.7%	72.6%	59.4%	93.2%	55.7%
Concentration Trend:		Decreasing	Decreasing	Decreasing	Stable	No Trend	Prob. Increasing	No Trend



Notes:

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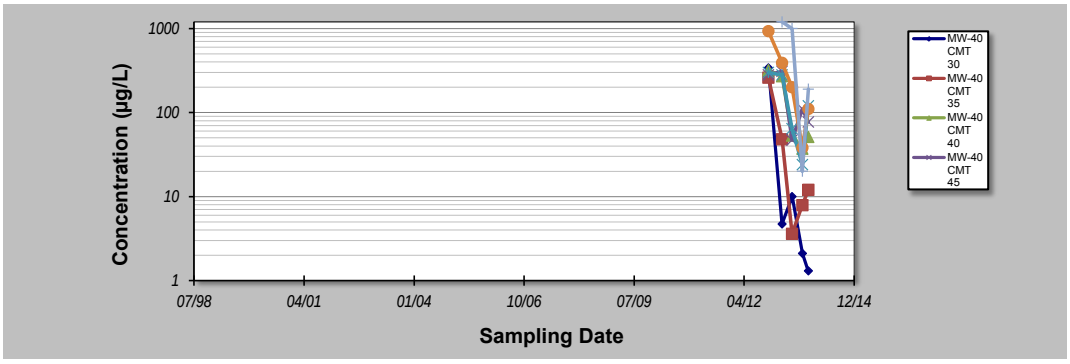
GSI MANN-KENDALL TOOLKIT
for Constituent Trend Analysis

Evaluation Date: 15-Jan-14
Facility Name: Maryland Square PCE Site
Conducted By: Cardno ATC

Job ID: 085.42620.0001
Constituent: PCE
Concentration Units: µg/L

Sampling Point ID:	MW-40 CMT 30	MW-40 CMT 35	MW-40 CMT 40	MW-40 CMT 45	MW-40 CMT50	MW-40 CMT 55	MW-40 CMT 60
Sampling Event	Sampling Date	PCE CONCENTRATION (µg/L)						
1	Aug 00							
2	Oct 00							
3	Sep 02							
4	May 03							
5	Sep 03							
6	Jan 04							
7	May 05							
8	Sep 05							
9	Dec 05							
10	Mar 06							
11	Jun 06							
12	Oct 06							
13	Dec 06							
14	Mar 07							
15	Jun 07							
16	Sep 07							
17	Dec 07							
18	Mar 08							
19	Jun 08							
20	Oct 08							
21	Feb 09							
22	Jun 09							
23	Sep 09							
24	Nov 09							
25	Feb 10							
26	Jun 10							
27	Oct 10							
28	Nov 10							
29	Mar 11							
30	Jun 11							
31	Sep 11							
32	Nov 11							
33	Mar 12							
34	Jun 12							
35	Sep 12							
36	Nov 12	340	260	320	280	300	930	1,400
37	Mar 13	4.7	48	270	310	280	390	1,200
38	Jun 13	10	3.6	53	47	64	200	1,000
39	Sep 13	2.1	7.9	37	110	24	38	20
40	Nov-13	1.3	12	51	77	120	110	190
Coefficient of Variation:		2.10	1.65	0.94	0.74	0.80	1.07	0.81
Mann-Kendall Statistic (S):		-8	-4	-8	-4	-6	-8	-8
Confidence Factor:		95.8%	75.8%	95.8%	75.8%	88.3%	95.8%	95.8%
Concentration Trend:		Decreasing	No Trend	Decreasing	Stable	Stable	Decreasing	Decreasing



Notes:

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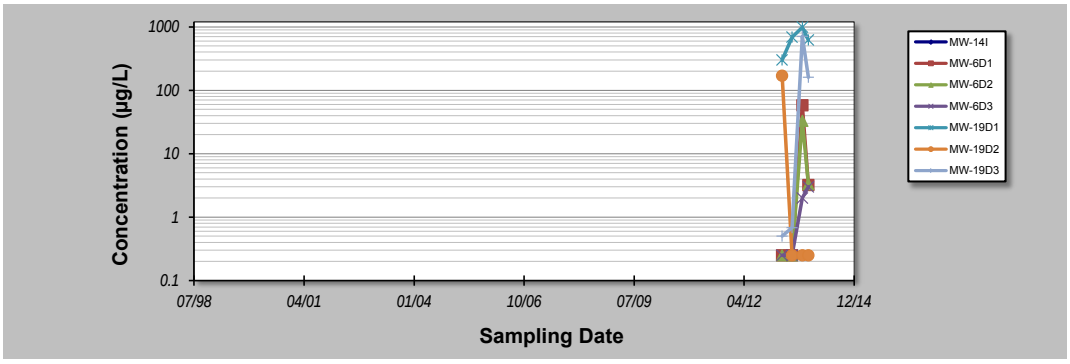
GSI MANN-KENDALL TOOLKIT
for Constituent Trend Analysis

Evaluation Date: 15-Jan-14
Facility Name: Maryland Square PCE Site
Conducted By: Cardno ATC

Job ID: 085.42620.0001
Constituent: PCE
Concentration Units: µg/L

Sampling Point ID:	MW-14I	MW-6D1	MW-6D2	MW-6D3	MW-19D1	MW-19D2	MW-19D3
Sampling Event	Sampling Date	PCE CONCENTRATION (µg/L)						
1	Aug 00							
2	Oct 00							
3	Sep 02							
4	May 03							
5	Sep 03							
6	Jan 04							
7	May 05							
8	Sep 05							
9	Dec 05							
10	Mar 06							
11	Jun 06							
12	Oct 06							
13	Dec 06							
14	Mar 07							
15	Jun 07							
16	Sep 07							
17	Dec 07							
18	Mar 08							
19	Jun 08							
20	Oct 08							
21	Feb 09							
22	Jun 09							
23	Sep 09							
24	Nov 09							
25	Feb 10							
26	Jun 10							
27	Oct 10							
28	Nov 10							
29	Mar 11							
30	Jun 11							
31	Sep 11							
32	Nov 11							
33	Mar 12							
34	Jun 12							
35	Sep 12							
36	Nov 12							
37	Mar 13	7,200	0.25	0.25	0.25	300	170	0.50
38	Jun 13	5,500	0.25	0.25	0.25	690	0.25	0.68
39	Sep 13	3,700	58	33	2.0	990	0.25	710
40	Nov-13	10,000	3.2	3.3	3.0	620	0.25	160
Coefficient of Variation:		0.41	1.84	1.73	0.99	0.44	1.99	1.55
Mann-Kendall Statistic (S):		0	3	3	5	2	-3	4
Confidence Factor:		37.5%	72.9%	72.9%	89.6%	62.5%	72.9%	83.3%
Concentration Trend:		Stable	No Trend	No Trend	No Trend	No Trend	No Trend	No Trend



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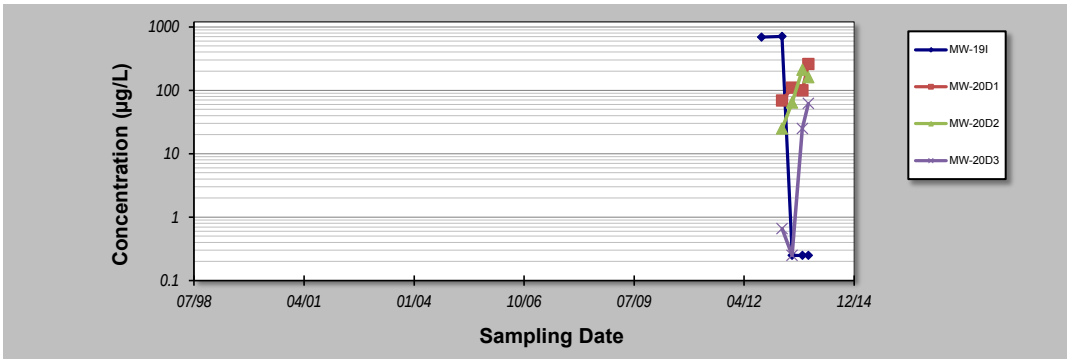
for Constituent Trend Analysis

Evaluation Date: 15-Jan-14
Facility Name: Maryland Square PCE Site
Conducted By: Cardno ATC

Job ID: 085.42620.0001
Constituent: PCE
Concentration Units: µg/L

Sampling Point ID:	MW-19I	MW-20D1	MW-20D2	MW-20D3			
Sampling Event	Sampling Date	PCE CONCENTRATION (µg/L)						
1	Aug 00							
2	Oct 00							
3	Sep 02							
4	May 03							
5	Sep 03							
6	Jan 04							
7	May 05							
8	Sep 05							
9	Dec 05							
10	Mar 06							
11	Jun 06							
12	Oct 06							
13	Dec 06							
14	Mar 07							
15	Jun 07							
16	Sep 07							
17	Dec 07							
18	Mar 08							
19	Jun 08							
20	Oct 08							
21	Feb 09							
22	Jun 09							
23	Sep 09							
24	Nov 09							
25	Feb 10							
26	Jun 10							
27	Oct 10							
28	Nov 10							
29	Mar 11							
30	Jun 11							
31	Sep 11							
32	Nov 11							
33	Mar 12							
34	Jun 12							
35	Sep 12	690						
36	Nov 12							
37	Mar 13	710	69	25	0.66			
38	Jun 13	0.25	110	64	0.25			
39	Sep 13	0.25	100	210	25			
40	Nov-13	0.25	260	160	62			
Coefficient of Variation:		1.37	0.63	0.74	1.32			
Mann-Kendall Statistic (S):		-5	4	4	4			
Confidence Factor:		82.1%	83.3%	83.3%	83.3%			
Concentration Trend:		No Trend	No Trend	No Trend	No Trend			



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