



EarthCon Consultants, Inc.
1880 West Oak Parkway
Building 100, Suite 106
Marietta, Georgia 30062

P: 770-973-2100
F: 770-973-7395
www.earthcon.com

May 29, 2015

Georgia Department of Natural Resources
Environmental Protection Division
2 Martin Luther King Jr. Drive, SE
Suite 1054
Atlanta, Georgia 30334-9000

Dear Sir/Madam:

EarthCon Consultants, Inc. certifies that the electronic copy of the First VIRP Progress Report, dated May 2015 for the Apollo Industries, Inc., HSI Site Number 10333, Smyrna, Cobb County, Georgia is complete, identical to the paper copy, and virus free.

If you have any questions regarding the First VIRP Progress Report or this response, please feel free to contact the undersigned at (770) 973-2100.

Sincerely,

Kristen R. Rivera, P.G.
Senior Geologist



EarthCon Consultants, Inc.
1880 West Oak Parkway
Building 100, Suite 106
Marietta, Georgia 30062

P: 770-973-2100
F: 770-973-7395
www.earthcon.com

May 29, 2015

Mr. Jason Metzger
Unit Coordinator
Response and Remediation Program
Georgia Department of Natural Resources
Environmental Protection Division
2 Martin Luther King, Jr. Drive, SE, Suite 1054 East
Atlanta, Georgia 30334

Subject: **Submittal of First VIRP Progress Report
Response to June 4, 2014 Comments - Voluntary Investigation and
Remediation Plan and Other Referenced Documents
Apollo Industries, Inc., HSI No. 10333
1850 South Cobb Industrial Blvd, Smyrna, Cobb County, Georgia**

Dear Mr. Metzger:

EarthCon Consultants, Inc. (EarthCon), on behalf of Apollo Technologies, Inc. (Apollo) is pleased to submit the First Voluntary Investigation and Remediation Plan (VIRP) Progress Report for the Apollo Industries, Inc. facility (HSI No. 10333) located in Smyrna, Cobb County, Georgia. In addition, we are also providing a response to the Georgia Environmental Protection Division (EPD)'s June 4, 2014 comments on the VIRP, dated March 4, 2014, the August 2013 Semi-Annual Groundwater Monitoring Report, and the December 2013 Semi-Annual Groundwater Monitoring Report. EPD's comments and our responses are as follows:

Voluntary Investigation and Remediation Plan (VIRP), March 4, 2014

Comment 1: Further investigation needs to be undertaken to fully define the horizontal and vertical extent of the dense non-aqueous phase liquids (DNAPLs) in soil and groundwater in the closed batch room sump area of the facility. EPD understands that there are access limitations and challenges but more creative effort needs to be undertaken to both delineate the DNAPL, with a skid mounted hollow or solid stem auger rig, and to begin remediation, such as expansion of the SVE system, as soon as practicable.

Comment 2: Further delineation of the extent of exceedances in soil and groundwater beneath the production building slab should be completed. As shown on Figure 3 of the VIRP, the extent has not been defined to the north, east, or south (see Samples S-1, S-3, S-4, OBG-9). For locations where refusal is encountered with a direct push rig, an attempt should be made using either hollow or solid stem augers or coring to advance these borings to groundwater.

Comment 3: EPD does not agree that horizontal delineation has been completed to the northeast in soils or overburden groundwater. A data gap exists to the north of MW-4 and east of the sump. The proposed MIP investigation and well PMW-17 may help define a potential source for the contamination in MW-4. However, additional soil samples need to be collected and an overburden monitoring well installed in the production area east of MW-1 and the closed batch room sump in the vicinity of the DOT water bath line. EPD is available to discuss prospective locations with Apollo and their Consultant.

Apollo Response to Comments 1, 2, 3: The closed batch room sump area is a small well defined area. Historical borings OBG-13 and S-3 bracket the sump area. Borings OBG-5, S-4, S-2, and S-1 were stepped out from the sump area for delineation purposes. Because of the limited space in the sump area, there are no additional locations in which borings can be installed.

Additional soil sampling was conducted on November 1, 2014 to further delineate contaminants in soil in the production area. A total of 15 soil samples were collected from six borings (SB-1 through SB-5, MW-16) at designated discrete intervals. The boring locations are shown on Figure 2 in the First VIRP Progress Report, dated May 2015. A monitoring well was also planned to be installed at the MW-16 location during this mobilization. A direct push mounted solid stem auger was used to advance the boring. Refusal was encountered at 27 feet below ground surface (bgs). The boring was dry and a water bearing formation was not encountered. Therefore, a monitoring well could not be installed.

Comment 4: Soil investigation should be conducted around MW-8 to determine if a source exists in this area and/or to verify the contamination is coming from a potential off-site source. This would be an excellent area to conduct limited MIP sampling while the MIP equipment is mobilized to the site.

Apollo Response: The plume stability analysis and molar mass ratio comparison presented in the First VIRP Progress Report, dated May 2015 clearly demonstrate the contamination at MW-8 is due to an offsite, upgradient source.

Comment 5: All of the Type 1/3 and Type 4 soil and groundwater risk reduction standards (RRSs) calculated in the VIRP are approved. In future Semi-Annual Progress Reports please update groundwater summary tables with the approved regulatory standards and highlight exceedances on the table and update the text of the reports, as applicable.

Apollo Response: Comment noted.

Comment 6: Vapor Intrusion (VI) Evaluation — The VIRP indicates that VI modeling will be conducted to further evaluate this complete exposure pathway. It should be noted that EPD, in accordance with U.S. EPA Vapor Intrusion Guidance documents, recommends that vapor intrusion evaluations be based on multiple lines of evidence with the results weighed together to achieve agreement based on all available information.

Apollo Response: Comment noted.

Comment 7: Sections 5.2 and 7 note that Apollo intends to remediate soil and groundwater to meet Type 3/4 RRS, with the possible use of Type 5 controls for impacted soils beneath the production building. The Director has established a requirement that a property must meet the policies and procedures of the Act no later than 60 months from enrollment. EPD encourages Apollo to pursue aggressive treatment of soil and groundwater, but we are concerned that the proposed remedy will not result in groundwater meeting Type 3/4 RRS within the requisite 60 months. However, EPD is willing to accept the application since Apollo may utilize alternate actions in conjunction with the remediation, such as modeling, point of demonstration monitoring and/or institutional controls, to meet the policies and procedures of the Act. If these alternatives are utilized, an Environmental Covenant in conformance with O.C.G.A. 44-16-1, et seq., the "Georgia Uniform Environmental Covenants Act" will be required as part of the corrective actions at the site.

Apollo Response: Comment Noted

Comment 8: Sediment samples should be obtained from the two locations near where surface water samples SW-1 and SW-2 are being collected. In addition, one sediment sample should be collected from the detention pond located west of MW-9 in Tract 6.

Apollo Response: One sediment sample was collected at surface water sampling location SW-2. The analytical results indicated regulated substances were not detected. One sediment sample from the detention pond located west of MW-9 will be collected during the next six month reporting period.

Comment 9: Section 6.3.3 notes that ecological receptors were not considered due to the industrial nature of the area. However, the surface water at the site does provide viable habitat which must be considered. Based on the assumption that surface water concentrations do not increase and that the requested sediment investigation does not reveal elevated concentrations, EPD concurs that further ecological evaluation is not warranted.

Apollo Response: Concentrations of regulated substances in surface water samples collected from sampling stations SW-1 and SW-2 have decreased. Additionally, analytical results of the sediment sample collected at surface water location SW-2 indicated regulated substances were not detected. Therefore, further ecological evaluation is not warranted.

Comment 10: A specific section should be added to future conceptual site model narratives which should discuss all known or suspected source areas on-site based on facility processes. For example this section should include a discussion of the suspected source areas for the elevated concentrations at MW-4 and MW-7. In addition, a figure depicting all potential on-site source areas should be presented. At a minimum, this figure may include: the batch mixing area and abandoned subfloor sump, tank farm, catch basin, hazardous waste storage area(s), the can integrity line(s), other process lines, the laboratory, raw product storage warehouse, unloading dock, test batch areas, warehouses, etc.

Apollo Response: Section 4.1 of the First VIRP Progress Report provides a discussion of known or suspected source areas onsite based on facility processes. Figures 2 and 3 depict these potential onsite source area locations.

Comment 11: *In future progress reports, please update the cross sections with current data for both soils and groundwater. The revised cross sections should be scaled with a greater degree of accuracy, presented on an 11 x 17 format, and should include stratigraphic features and symbols for soil lithology in the legends. Please revise cross section B-B' to run from MW-2 through the closed batch room sump to MW-1 to the former container storage area to MW-3 to DW-1 to MW-6. In the cross section revisions please include all new soil sampling locations and monitoring wells.*

Apollo Response: Revised cross sections will be provided in the Second VIRP Progress Report.

Comment 12: *Known contamination above site delineation criteria exists on the downgradient parcel owned by Cyclone Enterprises, LLC. Within 12 months of acceptance into the Program, Apollo should apply to EPD to include the Cyclone Enterprises, LLC property as a qualifying property under the Act or notify EPD that the non-qualifying property is not included under the Act. In addition to the surface water body, the groundwater ingestion pathway must be considered, and a point of exposure established at the point where groundwater use is not restricted. Therefore, if impacted groundwater continues to migrate off-property, above cleanup standards, ongoing monitoring or corrective action may be required for the Cyclone Enterprises, LLC property in order to comply with the Voluntary Remediation Program Act (Act).*

Apollo Response: Based on the results of the plume stability evaluation and molar mass ratio comparison, the source of the contamination identified at MW-6 is unclear.

Comment 13: *EPD has determined that the following property and tax parcels have documented impacts and are eligible for enrollment into the Georgia Voluntary Remediation Program (VRP): 170678-00-040; 17-0679-00-130; 17-0678-00-050; 17-0678-00-030; and 17-0618-01-240. Parcel 17-0619-00-200 is ineligible as a qualifying property per 12-8-105(1) of the VRP Act because no evidence of a release has been presented. Please note that the parcel numbers in the application are incorrectly listed and should be revised.*

Apollo Response: A revised application will be provided.

Figures and Tables (VIRP, March 4, 2014)

Comment 14: *The site layout figure provided (Figure 2) needs to be augmented in a readable format size with the following information: location of all relevant site features including production areas; the detention pond in parcel 6; delineation of and addresses/ownership for each parcel; and historic and current facilities located upgradient of Apollo that may have used chlorinated solvents. See Figure 4 (Facility Layout) of the April 12, 2013 VIRP application for the site to see the level of detail that should be included.*

Apollo Response: Comment noted. Figure 3 in the First VIRP Progress Report provides additional information on site features. Also attached to this letter is information from the Cobb County Tax Assessor's website regarding facilities located upgradient of Apollo that may have used chlorinated solvents.

Comment 15: Figure 3 — Soil Analytical Results — This figure needs to be submitted as a C or D size drawing. The figure has too much information for the site making it difficult to read and interpret. It should also include all the sampling locations and results from the 2013 Consolidated Site Assessment/Site Closure report.

Apollo Response: A soil delineation figure has been provided in the First VIRP Progress Report. Cross sections demonstrating soil delineation will be provided in the Second VIRP Progress Report.

Comment 16: Sample location OBG-14 needs to be added to Figure 3 and Figure 4.

Apollo Response: Sample location OBG-14 is shown on Figures 2 and 4 in the First VIRP Progress Report.

Comment 17: Figures that show sample locations at which no analytical samples were collected should be denoted with a different symbol to clarify that no data is available. This includes ORG locations 1, 3, 4, 6, 8, 10, and 11.

Apollo Response: Comment noted.

Comment 18: Please list applicable In-Stream Water Quality Standards on the Summary of Surface Water Analytical Data table. In future Summary of Groundwater Analytical Data tables please revise the applicable regulatory standards to reflect the Type 3 and/or 4 risk reduction standards (RRS) submitted with the VIRP and approved by EPD.

Apollo Response: Comment noted.

Comment 19: A table of all monitoring well construction details, including date of installation, screen length, etc., should be developed for all new and existing wells on- and off-site and included in each progress report.

Apollo Response: Monitoring well construction details are provided in Table 1 of the First VIRP Progress Report.

Comment 20: Units need to be consistent between figures and tables. For example, on the cross sections the groundwater results are shown in milligrams per liter (mg/L) while Figure 7 and Table 2 show the groundwater results in micrograms per liter (ug/L).

Apollo Response: Comment noted.

2013 Semi-Annual Groundwater Monitoring Reports

Comment 21: Figures 6-11 are invalid interpretations of the groundwater data that has been collected from the December 2013 groundwater sampling event. For example, Figure 6 shows an interpretation of the horizontal extent of acetone based on three data points where detections occurred. Isoconcentration contours should be drawn based on actual data as solid lines where data points exist and dashed lines where interpretations are made. The same comment applies to all of the figures illustrating the horizontal extent of specific contaminants in both progress reports. Figures showing isoconcentration contours should be prepared for all constituents with one or more exceedances of the RRS.

Apollo Response: Comment noted.

Comment 22: Section 3.2.1, Groundwater Analytical Trends (August 2013) & Section 3.3.1, Groundwater Analytical Trends (December 2013)

- a) **In both Reports it is stated that the stream would likely create a hydraulic divide that would hinder migration of VOC-impacted groundwater. Please install staff gauges (if not already installed) and provide staff gauge/groundwater monitoring well data and a narrative demonstrating the interaction between groundwater and surface water.**
- b) **Trichloroethene: In both Reports it is stated that a decreasing concentration trend is observed for well MW-7. However, a review of the time trend graph depicts fluctuating concentrations over time with no apparent trend for MW-7. Please reconsider this statement going forward.**

Apollo Response:

- a) This surface water feature transports stormwater between two culverts on the Apollo property; therefore, it is unlikely to create a hydraulic divide.
- b) TCE concentrations in MW-7 were non-detect for the last three groundwater monitoring events.

Comment 23: Appendix C, Concentration Trend Graphs — Both Reports: Trend graphs should be revised and show acetone, PCE, TCE, 1,2-DCE, and VC on the same graph for MW-1, MW-3, MW- 4, , MW-6, MW-7, MW-8, RW-1, and RW-2. Please ensure the graphs contain scales that are not too large and consequently do not reflect the presence of detections. If necessary allow outliers to plot off the graph similar to the method used for DCE in MW-1.

Apollo Response: Concentration trend graphs are provided in Appendix E of the First VIRP Progress Report.

Comment 24: Table 1, Summary of Groundwater Elevation Data — Both Reports: It was noted that there is no top of casing survey data provided for well MW-9, and consequently the groundwater elevation could not be calculated. Please survey this well for elevation when the proposed new wells are installed and tie it into the existing datum for the site.

Apollo Response: The top of casing for MW-9 was surveyed in April 2015.

Comment 25: EPD concurs with the removal of MW-2 and MW-5 from the existing groundwater monitoring network.

Apollo Response: Apollo appreciates EPD's approval to remove monitoring wells MW-2 and MW-5 from the monitoring well network. However, these wells provide important data for the plume stability demonstration and will continue to be monitored.

We appreciate EPD input as we move forward with this project. If you have any questions regarding the First VIRP Progress Report or this response, please feel free to contact the undersigned at (770) 973-2100.

Sincerely,



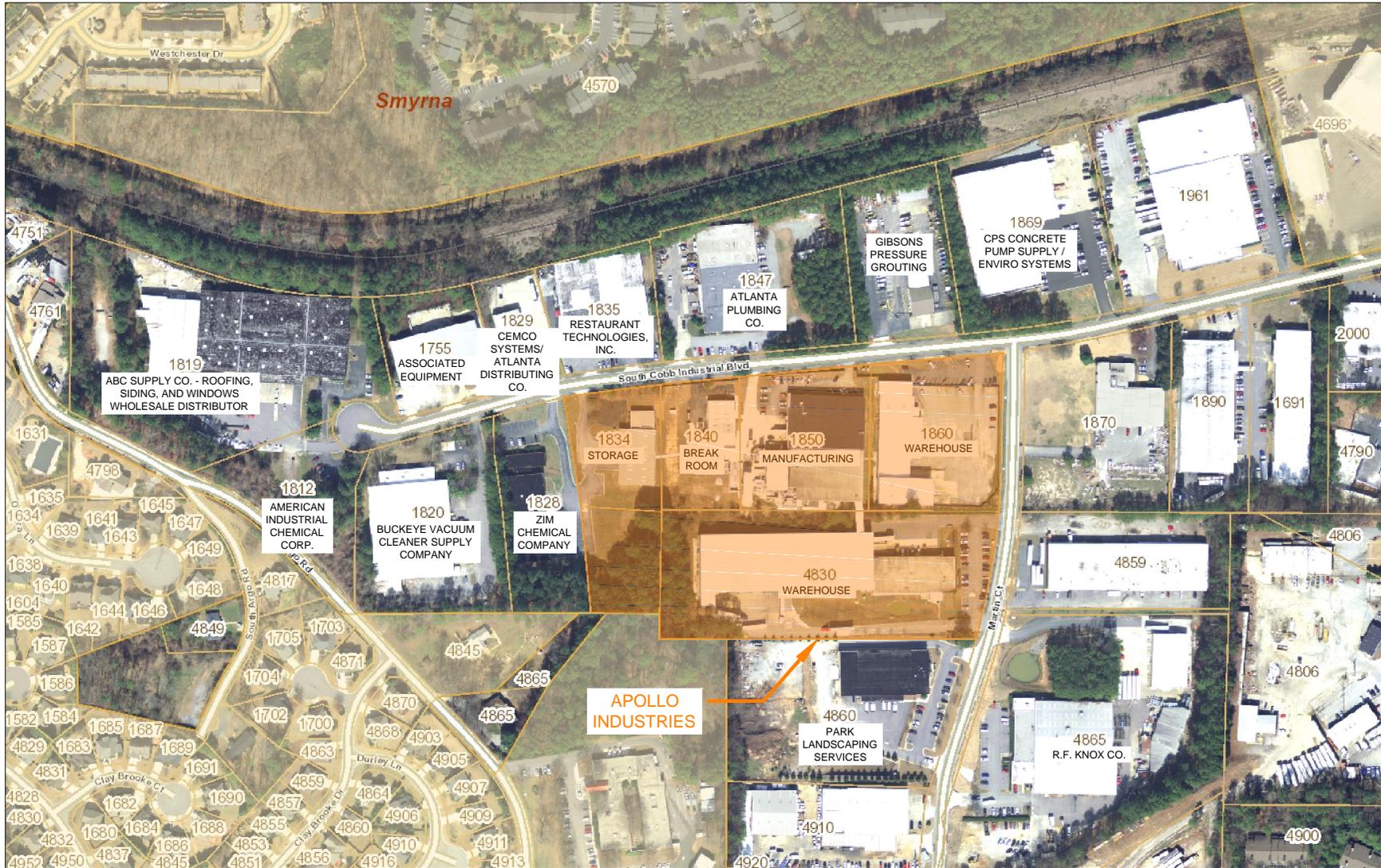
Kristen R. Rivera, P.G.
Senior Geologist



Carol D. Northern, P.G.
Principal Geologist

Attachment: First VIRP Progress Report

Cc: Ms. Robin Futch, Georgia EPD
Ms. Maria Callas, Apollo Technologies, Inc.
Mr. Adam Sowatzka, King & Spalding



SOURCE: COBB COUNTY, GEORGIA GIS ONLINE MAPPING SYSTEM

APOLLO INDUSTRIES, INC.

1850 SOUTH COBB INDUSTRIAL BLVD
HSI SITE NUMBER 10333

PROJECT NO. 02.20140391.00



EarthCon Consultants, Inc.

1880 WEST OAK PKWY, BLDG 100, STE 106, MARIETTA, GA, 30062

**ATTACHMENT 1
TAX PARCEL INFORMATION**

DRAWN: SNW	CHECKED: KRR	DATE: MAY 28, 2015
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PARID: 17061900160
AMERICAN INDUSTRIAL CHEMICAL
CORP

NEIGHBORHOOD: 22C02

TAX YEAR: 2014
1819 S COBB INDUSTRIAL BLVD

Parcel

Class	Industrial Large Tracts
Total Acres	5.96
Total Land Sqft	259618
Address	1819 S COBB INDUSTRIAL BLVD
Neighborhood	22C0 - 2

Owner

Owner	AMERICAN INDUSTRIAL CHEMICAL CORP & ATTN ANDREW HALL
-------	--

Legal

Tax District	9 - UNINCORPORATED
Subdivision Number	

PARID: 17061900170
AMERICAN INDUSTRIAL CHEMICAL
CORP

NEIGHBORHOOD: 22C

TAX YEAR: 2014
1812 S COBB INDUSTRIAL BLVD

Parcel

Class	Industrial Small Tracts
Total Acres	1.55
Total Land Sqft	67518
Address	1812 S COBB INDUSTRIAL BLVD
Neighborhood	22C -

Owner

Owner	AMERICAN INDUSTRIAL CHEMICAL CORP & C/O RYAN
-------	--

Legal

Tax District	9 - UNINCORPORATED
Subdivision Number	

PARID: 17061900180
1820 SOUTH COBB INDUSTRIAL
BOULEVARD LLC

NEIGHBORHOOD: 22C02

TAX YEAR: 2014
1820 S COBB INDUSTRIAL BLVD

Parcel

Class	Industrial Small Tracts
Total Acres	2.93
Total Land Sqft	127631
Address	1820 S COBB INDUSTRIAL BLVD
Neighborhood	22C0 - 2

Owner

Owner	1820 SOUTH COBB INDUSTRIAL BOULEVARD LLC
-------	--

Legal

Tax District	9 - UNINCORPORATED
Subdivision Number	

PARID: 17061900190
TILLEM FRANCEEN S AND
BAUMRIND MARCIA S AND

NEIGHBORHOOD: 22C

TAX YEAR: 2014
1828 S COBB INDUSTRIAL BLVD

Parcel

Class	Industrial Small Tracts
Total Acres	2.02
Total Land Sqft	87991
Address	1828 S COBB INDUSTRIAL BLVD
Neighborhood	22C -

Owner

Owner	TILLEM FRANCEEN S & BAUMRIND MARCIA S & SHONSON BRIAN N
-------	--

Legal

Tax District	9 - UNINCORPORATED
Subdivision Number	

PARID: 17061900150
ASSOCIATED EQUIPMENT RENTAL
CO

NEIGHBORHOOD: 22C09

TAX YEAR: 2014
1755 S COBB INDUSTRIAL BLVD

Parcel

Class	Industrial Small Tracts
Total Acres	1.46
Total Land Sqft	63598
Address	1755 S COBB INDUSTRIAL BLVD
Neighborhood	22C0 - 9

Owner

Owner	ASSOCIATED EQUIPMENT RENTAL CO
-------	--------------------------------

Legal

Tax District	9 - UNINCORPORATED
Subdivision Number	

PARID: 17061900140
EFL HOLDINGS I LLC

NEIGHBORHOOD: 22C

TAX YEAR: 2014
1829 S COBB INDUSTRIAL BLVD

Parcel

Class	Industrial Lots
Total Acres	.86
Total Land Sqft	37462
Address	1829 S COBB INDUSTRIAL BLVD
Neighborhood	22C -

Owner

Owner	EFL HOLDINGS I LLC
-------	--------------------

Legal

Tax District	9 - UNINCORPORATED
Subdivision Number	

PARID: 17061900130
WILSON BRUCE B AND

NEIGHBORHOOD: 22C02

TAX YEAR: 2014
1835 S COBB INDUSTRIAL BLVD

Parcel

Class	Industrial Small Tracts
Total Acres	1.46
Total Land Sqft	63598
Address	1835 S COBB INDUSTRIAL BLVD
Neighborhood	22C0 - 2

Owner

Owner	WILSON BRUCE B & WILLIAM WATT NEAL
-------	------------------------------------

Legal

Tax District	9 - UNINCORPORATED
Subdivision Number	

PARID: 17067800090
LISENBY REAL ESTATE
INVESTMENTS LLC

NEIGHBORHOOD: 22C01

TAX YEAR: 2014
1847 S COBB INDUSTRIAL BLVD

Parcel

Class	Commercial Small Tracts
Total Acres	3.286
Total Land Sqft	143138
Address	1847 S COBB INDUSTRIAL BLVD
Neighborhood	22C0 - 1

Owner

Owner	LISENBY REAL ESTATE INVESTMENTS LLC
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Legal

Tax District	9 - UNINCORPORATED
Subdivision Number	

FIRST VIRP PROGRESS REPORT

**APOLLO INDUSTRIES, INC.
1850 SOUTH COBB INDUSTRIAL BOULEVARD SE
SMYRNA, COBB COUNTY, GEORGIA
HSI SITE NUMBER 10333**

PREPARED FOR:

**APOLLO TECHNOLOGIES, INC.
1850 SOUTH COBB INDUSTRIAL BOULEVARD SE
SMYRNA, GA 30082**

PREPARED BY:

**EARTHCON CONSULTANTS, INC.
1880 WEST OAK PARKWAY
BUILDING 100, SUITE 106
MARIETTA, GEORGIA 30062
770-973-2100**

EarthCon Project No. 02.20140391.00

MAY 2015

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Appendix E	Groundwater Trend Graphs and Historical Data Summary
Appendix F	Technical Memorandum: Plume Analytics Evaluation Including a Ricker Method® Plume Stability Analysis

PG CERTIFICATION

"I certify under penalty of law that this report and all attachments were prepared by me or under my direct supervision in accordance with the Voluntary Remediation Program Act (O.C.G.A. Section 12-8-101, et seq.). I am a professional engineer/professional geologist who is registered with the Georgia State Board of Registration for Professional Engineers and Land Surveyors/Georgia State Board of Registration for Professional Geologists and I have the necessary experience and am in charge of the investigation and remediation of this release of regulated substances.

Furthermore, to document my direct oversight of the Voluntary Remediation Plan development, implementation of corrective action, and long term monitoring, I have attached a monthly summary of hours invoiced and description of services provided by me to the Voluntary Remediation Program participant since the previous submittal to the Georgia Environmental Protection Division.

The information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."



Kristen R. Rivera, P.G.
Senior Geologist



Registration No. 2049
State of Georgia

Date: May 28, 2015

1.0 INTRODUCTION

The Voluntary Investigation and Remediation Plan (VIRP) Application for the Apollo Industries, Inc. facility, located at 1850 South Cobb Industrial Boulevard SE in Smyrna, Cobb County, Georgia (HSI Site Number 10333) (Facility), was submitted to the Georgia Environmental Protection Division (EPD) on March 4, 2014. The Facility is owned and operated by Apollo Technologies, Inc. (Apollo). The site location is shown in Figure 1. The VIRP was approved by EPD in a letter dated June 4, 2014. This First VIRP Progress Report provides a summary of activities conducted at the Site from September 2014 through April 2015.

2.0 SUMMARY OF SITE ACTIVITIES

Representatives of Apollo, EarthCon Consultants, Inc. (EarthCon) and EPD met on September 16, 2014, to discuss the plan for corrective action at the Site. The proposed strategy included turning off the groundwater remediation system (GWRS) to allow the aquifer to return to pre-pumping conditions so the current status of the groundwater contaminant plume(s) could be evaluated under normal (non-pumping) conditions. During the GWRS downtime, Apollo would conduct a plume analytics evaluation which would include targeted groundwater sampling events in October 2014 and January 2015, and a site wide sampling event in April 2015. Additionally, Apollo would conduct additional soil investigation and install a monitoring well in the production area east of the closed batch room sump area of the facility.

In a September 17, 2014 email, EPD concurred with the proposed strategy. On September 26, 2014, the GWRS was shutdown. The pumps in recovery wells RW-1, RW-2, DMW-1, MW-3, and MW-4 were removed from the well vaults and placed in the GWRS treatment shed. The associated well casings were fitted with secure, water-tight locking plug caps.

During this reporting period, the following activities were conducted:

- A soil investigation in the production area for delineation purposes;
- Installation of a monitoring well was attempted for delineation purposes in the production area, east of MW-1 and downgradient of the closed batch room sump area near the DOT water bath line;
- Two targeted groundwater sampling events including 11 groundwater monitoring wells;
- A sitewide sampling event including 15 groundwater monitoring wells, two surface water locations, and one sediment location;
- Analyses of soil, surface water, and sediment samples for volatile organic compounds (VOCs);

- Analyses of groundwater samples for VOCs and monitored natural attenuation (MNA) parameters;
- A survey for MW-9 and the top of casing elevation was verified for MW-6; and
- A plume analytics evaluation including a Ricker Method[®] Plume Stability Analysis.

In a letter dated June 4, 2014, EPD provided comments to the March 2014 VIRP and the August 2013 and December 2013 Semi-Annual Groundwater Reports. Apollo addressed many of EPD's comments during this first reporting period. The remainder of EPD's comments will be addressed during the next six-month reporting period.

2.1 Soil

On November 1, 2014, a soil investigation was conducted in the production area east of the closed batch room sump area of the facility. A total of 15 soil samples were collected from six soil borings (SB-1, SB-2, SB-3, SB-4, SB-5, and MW-16) at designated discrete intervals. The boring locations are shown on Figure 2. The purpose of the soil investigation was to delineate soil concentrations beneath the production building slab to the north, east, and south of historical soil borings S-1, S-3, S-4, and OBG-9. A description of the field procedures is provided in Appendix A. Boring logs are provided in Appendix B. The laboratory analytical results are provided in Appendix C.

The maximum depth intervals sampled from the November 1, 2014 borings ranged from 1 foot below ground surface (bgs) at location MW-16 to 18.5 feet bgs at location SB-5. Refusal was encountered at shallow depths (ranging from 1 to 4-feet bgs) in borings MW-16, SB-2, and SB-3, while refusal was encountered at depths ranging from 15 to 18.5 feet bgs in borings SB-4 and SB-5, respectively.

2.2 Surface Water and Sediment

On April 9, 2015, surface water samples were collected at locations SW-1 and SW-2 and sediment sample SED-2 was collected at sample location SW-2. The sample locations are shown on Figure 3. A description of the field procedures is provided in Appendix A while the laboratory analytical results are provided in Appendix C.

2.3 Groundwater

2.3.1 Monitoring Well Installation

On November 1, 2014, an attempt was made to install monitoring well MW-16 at a location east of MW-1 and downgradient of the closed batch room sump area in the vicinity of the DOT water bath line. Initially, direct push methods were used to install the boring. Refusal was encountered by the direct push rig at approximately 4 feet bgs. The rig switched to a solid stem auger, which encountered refusal at 27.5 feet bgs. No water bearing features were encountered between ground

surface and refusal depth. The borehole was dry and a well was not installed. A description of the field procedures is presented in Appendix A.

2.3.2 Groundwater Sampling

Targeted groundwater sampling events were conducted in October 2014 and January 2015. Eleven monitoring wells were sampled during each of these two events. A site wide sampling event was conducted in April 2015 and 15 monitoring wells were sampled. The locations of the monitoring wells are shown on Figure 3. The monitoring well construction details are presented in Table 1 and the groundwater elevation data are presented in Table 2. Field parameters are presented in Table 3. A description of the field procedures is provided in Appendix A and the groundwater sampling field forms are provided in Appendix D.

Static water level elevations were measured for most wells on October 7, 2014, January 16, 2015, and April 7, 2015. Groundwater elevations were calculated using top of casing elevations presented in the VIRP (O'Brien & Gere, March 2014). A top of casing survey was conducted for MW-9 on April 8, 2015 and top of casing elevation was verified for MW-6. The water level was not measured for monitoring well MW-2 during the January event, which was an oversight. Additionally, due to heavy rainfall during the April 2015 monitoring event, water levels were not measured and groundwater samples were not collected at wells RW-1 and RW-2.

2.4 Groundwater Remediation System

On September 26, 2014, the pumps in recovery wells RW-1, RW-2, DMW-1, MW-3, and MW-4 were removed from the well vaults and placed in the treatment shed. The associated well casings were fitted with secure, water-tight locking plug caps.

3.0 ANALYTICAL RESULTS

The soil, surface water, sediment, and groundwater analytical results for the October 2014/January 2015/April 2015 sampling events are discussed below. The soil and groundwater analytical results are summarized in Tables 4 through 6. The laboratory analytical reports are provided in Appendix C.

3.1 Soil Analytical Results

On November 1, 2014, a total of 15 soil samples were collected at designated discrete intervals from six soil boring locations (SB-1, SB-2, SB-3, SB-4, SB-5, and MW-16) in the production area east of the closed batch room sump area of the Facility (Figure 2). The soil samples were analyzed for VOCs using EPA Method 8260B.

As shown in Table 4, 19 regulated substances were detected in soil at concentrations above laboratory reporting limits. Of those, only 3 constituents including methylene chloride,

tetrachloroethene (PCE), and trichloroethene (TCE) were detected at concentrations above delineation criteria/applicable RRS. These constituents were detected in samples collected at shallow depths, between 1 and 2-feet bgs, in borings SB-1 (SB-1 1-1.5', SB-1 2-2.5') and SB-3 (SB-3 1-1.5'). Horizontal delineation has been achieved to the north, west, and south of the production area and closed batch room sump area as shown on Figure 4.

3.2 Surface Water and Sediment Analytical Results

On April 9, 2015, surface water samples were collected at locations SW-1 and SW-2 while sediment sample SED-2 was collected from location SW-2. These samples were analyzed for VOCs using EPA Method 8260B. VOCs were not detected in surface water sample SW-2 or sediment sample SED-2 at concentrations above laboratory detection limits. 1,1-dichloroethane (1,1-DCA) was detected in the surface water sample collected from location SW-1 at a concentration of 0.0059 milligrams per liter (mg/L). No other VOCs were detected in the surface water or sediment. There are currently no Georgia instream water quality standards (ISWQS) for 1,1-DCA.

Surface water sample location SW-1 is directly downstream of the corrugated pipe that transports stormwater onto the Apollo property. Therefore, the detection of 1,1-DCA in surface water at this location is attributed to an offsite source.

3.3 Groundwater Analytical Results

Targeted groundwater sampling events were conducted in October 2014 and January 2015. Groundwater samples were collected from 11 monitoring wells. A site wide sampling event conducted in April 2015 included the collection of groundwater samples from 15 monitoring wells. The groundwater samples were analyzed for VOCs using EPA Method 8260B. The groundwater samples were also analyzed for the following MNA parameters: total organic carbon (TOC) by Method 9060A; sulfide by Method 9030B; chloride, nitrate, and sulfate by Method 9056A; ethane, ethylene, and methane by Method RSK-175; and total alkalinity by Method 2320B. A summary of the VOC analyses is provided in Table 5 while the MNA parameter results are summarized in Table 6.

The October 2014 groundwater sampling event resulted in detections of 17 regulated substances at concentrations above laboratory reporting limits (Table 5). Of those, 12 constituents were detected at concentrations above the delineation criteria including: 1,1,1-trichloroethane (1,1,1-TCA), 1,1-dichloroethene (1,1-DCE), 1,2-dichloroethane (1,2-DCA), acetone, chloroethane, cis-1,2-dichloroethene (cis-1,2-DCE), cyclohexane, ethylbenzene, methylene chloride, PCE, TCE, and vinyl chloride. These 12 regulated substances were then compared to EPD-approved Type 1/3 or Type 4 risk reduction standards (RRS). Seven of the 12 constituents were detected at concentrations above the applicable RRS, including: 1,1-DCE, 1,2-DCA, acetone, cis-1,2-DCE, PCE, TCE, and vinyl chloride.

The January 2015 groundwater sampling event resulted in detections of 16 regulated substances at concentrations above laboratory reporting limits (Table 5). Of those, 11 constituents were detected at concentrations above the delineation criteria including: 1,1,1-TCA, 1,1-DCE, 1,2-DCA, acetone, chloroethane, cis-1,2-DCE, cyclohexane, methylene chloride, PCE, TCE, and vinyl chloride. These 11 regulated substances were then compared to the Type 1/3 or Type 4 RRS. Six of the 11 constituents, including 1,1-DCE, 1,2-DCA, cis-1,2-DCE, PCE, TCE, and vinyl chloride, were detected at concentrations above the applicable RRS.

The April 2015 groundwater sampling event resulted in detections of 16 regulated substances at concentrations above laboratory reporting limits (Table 5). Of those, 10 constituents were detected at concentrations above the delineation criteria including: 1,1,1-TCA, 1,1-DCE, acetone, chloroethane, cis-1,2-DCE, cyclohexane, methylene chloride, PCE, TCE, and vinyl chloride. These 10 regulated substances were then compared to the Type 1/3 or Type 4 RRS. Only five, including 1,1-DCE, cis-1,2-DCE, PCE, TCE, and vinyl chloride, were detected at concentrations above the applicable RRS.

4.0 CONCEPTUAL SITE MODEL

4.1 Source Areas

Historic onsite source areas include the former outdoor and current indoor batching operations and filling processes, as well as the former tank farm and former stormwater collection basin near monitoring wells MW-1 and MW-3. Monitoring well MW-4 had been used as a recovery well from its installation in 2005 until September 2014, which appears to have pulled contaminant mass away from the source area (MW-1 and MW-3) downgradient toward MW-4. The facility layout is presented on Figures 2 and 3.

Potential offsite source areas include industrial and chemical facilities upgradient and north/northwest of the Apollo property. The contaminant concentrations detected in wells MW-7 and MW-8 are attributed to upgradient, offsite source area(s). As described in Section 4.4 below, the molar signatures of the constituents detected in MW-8 are very different than the molar signatures of the constituents detected in the wells located within the historic onsite source area, indicating a separate plume from an upgradient, offsite source area. The stormwater culvert that transports stormwater from the upgradient industrial facilities may have also contributed to the concentrations detected at MW-6, MW-7, and MW-15.

4.2 Groundwater Flow

The water level measurements collected on April 7, 2015 were used to develop a potentiometric surface map for the Facility. As shown on Figure 5, groundwater flow direction is to the southeast. Current groundwater flow is consistent with historic groundwater flow. Elevation data from the bedrock well DW-1 was not used in the groundwater contouring.

4.3 Extent of Impacts – Soil, Surface Water and Sediment

Soil

Based on the soil sampling conducted on November 1, 2014, soil impacts at the Facility have been delineated horizontally to the north, west and south, as shown on Figure 4. Concentrations of regulated substances were below delineation criteria in soil samples collected from borings MW-16, SB-2, SB-4, and SB-5, from all depth intervals sampled as shown in Table 4. Data from samples collected at historical boring locations S-5, S-8, S-17, OBG-14, and S-10 complete the horizontal delineation of soils to the north, west, and south of the production area and batch room sump area.

Concentrations of 1,1-DCA, methylene chloride, PCE, and TCE were greater than the delineation criteria in samples SB-1 1-1.5', SB-1 2-2.5', and SB-3 1.0-1.5'. Concentrations of methylene chloride, PCE, and TCE were greater than applicable RRS in samples SB-1 1-1.5' and SB-1 2-2.5'. Refusal was encountered at 3 feet bgs at boring location SB-1.

Concentrations of PCE were greater than the applicable RRS in sample SB-3 1.0-1.5'. However, concentrations of regulated substances were below delineation criteria in sample SB-3 2.0-2.5'. Therefore, vertical delineation was achieved at boring locations SB-2, SB-3, SB-4, and SB-5. Cross sections depicting soil delineation will be presented in the Second VIRP Progress Report.

Surface Water and Sediment

As described in Section 3.2, the detection of 1,1-DCA at location SW-1 is attributed to an offsite, upgradient source. Previous releases of regulated substances on the Apollo property have not impacted the small segment of stormwater flow that daylights on the property between the stormwater culverts.

4.4 Plume Stability Evaluation and Extent of Groundwater Impacts

A Plume Analytics Evaluation including a Ricker Method® Plume Stability Analysis was conducted for Facility groundwater constituent plumes including 1,1,1,-TCA, PCE, TCE, 1,1-DCE, cis-1,2-DCE, and vinyl chloride, as well as for the total chlorinated volatile organic compounds (CVOCs). A summary of historical groundwater data collected since 2001, along with trend graphs, is provided in Appendix E. The plume analytics evaluation was conducted to help provide an understanding of the stability of the various site constituent plumes in terms of area, average concentration, and mass indicator for the constituents, as well as evaluate the overall molar characteristics of the groundwater plume. The Technical Memorandum for the Plume Analytics Evaluation including a Ricker Method® Plume Stability Analysis, along with the supporting tables, figures, and appendices, is presented in Appendix F.

The plume analytics evaluation was performed using historical groundwater analytical data from January 2005 through April 2015. The 2005 through 2015 data set provides 18 sampling events

over a 10-year period. The data used for the plume analytics evaluation for 1,1,1,-TCA, PCE, TCE, 1,1-DCE, cis-1,2-DCE, and vinyl chloride are summarized in Appendix F Tables 1 through 6, respectively.

The plume analytics evaluation included the following elements:

- Ricker Method® plume stability analysis;
- Total molar trend and molar ratio analysis for chloroethenes/ethanes;
- Molar ratio (pie chart) analysis (temporal and spatial) for chloroethenes/ethanes; and
- Plume difference over time evaluation.

The plume stability analysis was performed using procedures described in *A Practical Method to Evaluate Ground Water Contaminant Plume Stability* (Ricker, 2008). The Ricker Method® plume stability analysis compares relative changes in contaminant plume characteristics over time, including area, average concentration, and mass indicator. The area, average concentration, and mass indicator for each year were plotted to observe changes in each parameter from event to event. To demonstrate that a plume is decreasing or stable, temporal changes in these calculated values should result in an overall decreasing or stable trend. An increasing trend in any of these values may indicate that the plume is not stable and/or may be expanding.

The groundwater data was also evaluated on a molar basis. During reductive dechlorination, a parent compound degrades to a daughter compound and the mass based concentration of total VOCs decreases because one chlorine atom is released in each sequential reaction. However, the number of moles does not decrease since one molecule of a parent compound (e.g., PCE) produces one molecule of its respective daughter compound (e.g., TCE). The molar concentration only decreases once the parent constituent has been completely mineralized to benign end products (i.e., carbon dioxide, water, and chloride ion). Therefore, the total plume decrease (or increase) for constituents can be estimated by calculating the molar concentration (in nmol/L) of each species and then adding all the concentrations together for a total molar concentration of the plume. The molar concentration evaluations can demonstrate complete mineralization of VOC compounds, as well as assist in evaluating and detecting potential new, separate, and/or episodic release sources within a plume. Figure 6 provides the site wide total CVOC molar analysis for April 2015.

Spatial differences in constituent concentrations over time were also evaluated. Spatial difference maps (or “plume difference maps”) were prepared that illustrate where concentrations increase or decrease between two sample events. Each spatial plume difference map depicts the magnitude and locations where the dissolved constituent plume differed between the two sampling dates denoted by areas of red shading (areas of concentration increase) and blue shading (areas of concentration decrease).

After the initial evaluation of historical groundwater data and conducting initial plume analytics exercises, three main areas of groundwater impact were identified at the site:

- the “western plume area” located proximal and downgradient of monitoring well MW-8,
- the “Apollo plume area” representing the plume detected on the subject site, and
- the “MW-6 area” located proximal to monitoring well MW-6.

This was particularly evident after completing the molar analysis evaluation (Figure 6), which concluded the following:

- The Apollo plume area is characterized by the prevalence of 1,1-DCE throughout the plume. Additionally, the Apollo plume area is characterized by varying percentages of 1,1,1-TCA, cis-1,2-DCE, and vinyl chloride. Also, on a molar concentration basis, the Apollo plume area has higher molar concentrations than the other two plume areas.
- The western plume area shows a classic degradation pathway showing mostly PCE and TCE at MW-8, cis-1,2-DCE and vinyl chloride downgradient at MW-7 and finally almost all vinyl chloride at MW-15 which is downgradient from MW-7. Additionally, supporting this interpretation is the observation that the molar concentrations continue to decrease in a downgradient direction from MW-8 to MW-7 to MW-15. The fact that the western plume area is located side-gradient to the Apollo plume area, that the western plume area shows a classic degradation pathway in a downgradient direction, and that 1,1-DCE does not appear to be a significant component of the western plume area all point to strong lines of evidence that the western plume area and the Apollo plume area are two distinct plumes sourced from different locations. The evidence supports that the source of the western plume area is coming from an area upgradient or proximal to MW-8.
- The offsite MW-6 plume area located south of the Facility is predominantly 1,1-DCE and vinyl chloride. Although its molar signature more resembles the main plume due to the relatively high percentage of 1,1-DCE, it appears this plume may be separate from the Apollo plume area based on data obtained from MW-15, which is located between the Apollo plume area and the MW-6 plume area. MW-15 is predominantly vinyl chloride and, historically, MW-15 has consistently had lower concentrations of CVOCs than MW-6, at times an order of magnitude lower. Therefore, based on groundwater flow direction and historical data, the source of CVOCs detected at MW-6 is unclear. However, based on the decay rate for vinyl chloride since the GWRS was shutdown and if these trends continue, vinyl chloride, as well as the other CVOCs, should meet Type 1 RRS within the next two semi-annual monitoring events (Appendix E Figure 1C).

The Ricker Method[®] plume stability analysis was focused on the Apollo plume area. Because the data indicated the presence of these three separate plume areas, it was important to look at the Apollo area plume separately from the possible influence of the other plumes. To accomplish this, a

plume “window” of non-detect values was drawn around the Apollo area plume based on historical non-detect results and groundwater flow direction. The plume stability analysis was conducted using the groundwater data for each of the six constituents for years 2005 through 2015, specifically for the wells that monitor the Apollo plume (MW-1, MW-3, MW-4, RW-1, RW-2, DW-1). April 2015 groundwater plume isoconcentration maps for the six constituents are provided as Figures 7 through 13.

The plume stability analysis evaluation for the Apollo plume resulted in the following trends (Appendix F: Figures 2 – 8):

Constituent	Area	Average Concentration	Mass Indicator
1,1,1-TCA	Decreasing	Decreasing	Decreasing
PCE	Decreasing	Decreasing	Decreasing
TCE	Decreasing	Decreasing	Decreasing
1,1-DCE	Decreasing	Decreasing	Decreasing
cis-1,2-DCE	Decreasing	Decreasing	Decreasing
Vinyl Chloride	Stable	Decreasing	Decreasing
Total CVOCs	Decreasing	Decreasing	Decreasing

Average concentration and mass indicator for all constituents have a decreasing trend over the last 10 years. All constituents have a decreasing trend for area over the last 10 years except for vinyl chloride which has a stable trend. No plume stability metrics indicated an increasing trend for the Apollo plume area. When comparing plume area between January 2005 and April 2015, 1,1,1-TCA decreases by 92% and cis-1,2-DCE decreases by 73%. Except for vinyl chloride, the remaining constituents decrease in plume area by 20-35%. Vinyl chloride increases in plume area by 15%, which is likely due to the generation of this compound by active reductive dechlorination processes occurring at the site. The vinyl chloride plume area data trend for the last 10 years, however, is stable. Additionally, the total CVOC plume area is showing a 33% decrease over this 10 year time period. When comparing the total molar trend between January 2005 and April 2015, the total number of moles has decreased by approximately 87%.

Figure 14 presents a summary of the total CVOC molar analysis and associated trends for the Apollo plume area. Figure 15 presents a summary of the total CVOC molar analysis and trends for the western plume area as well as the MW-6 plume area. Molar trend charts for each well are also presented on Figures 14 and 15. Total molar concentration (nmol/L) is plotted on the primary y-axis,

while the percentage of the molar ratio is plotted on the secondary y-axis. The yellow shaded area represents the total molar concentration, while the line graphs represent the percentage each CVOC contributes to the total molar concentration. The green-shaded background of the charts represents the years in which the GWRS operated.

The molar trend analysis for each well demonstrates a fairly consistent decreasing trend in parent products. For MW-1, the total molar concentration (yellow shaded area) indicates that this appears to be a primary source area of the Apollo groundwater plume. The molar ratio patterns indicating generation of daughter compounds indicates that reductive dechlorination is occurring at MW-1. Vinyl chloride and cis-1,2-DCE are the CVOCs that dominate the molar ratio. Additionally, the total molar concentration has decreased significantly from 2010 through 2015, indicating the parent constituents are undergoing complete mineralization. This also demonstrates there is no continuing source of contamination in the area monitored by MW-1.

The molar ratio for MW-7 is comprised mainly of vinyl chloride and cis-1,2-DCE (Figure 15). It is possible that years of pumping in RW-2 may have caused a preferential pathway for some contaminants from Apollo's plume to comingle with the contamination from the western plume area. It appears the total molar concentration has declined since the GWRS was shutdown. The reduction in molar concentration and generation of daughter compounds indicates that MW-7 may be sourced from an upgradient area proximal to MW-8.

The molar ratio for MW-8 is comprised mainly of TCE and PCE. The total molar concentration has remained fairly consistent since monitoring began. The predominance of parent products in this well, as opposed to mostly daughter products in the other monitoring wells, again indicates MW-8 is monitoring a separate groundwater plume from an offsite, upgradient source not associated with the Apollo plume.

Results of the plume analytics evaluation indicate strong evidence that the total CVOC plume is stable and decreasing, which is supported by the decreasing trends in area, average concentration, and mass indicator for all six CVOCs, as well as total CVOCs. The combined data indicates that the total CVOC plume at the Apollo Site is decreasing primarily by reductive dechlorination. The classic degradation pattern is present of decreasing 1,1,1-TCA, PCE, and TCE with a subsequent increase in 1,1-DCE, cis-1,2-DCE, and vinyl chloride daughter products that are observed on both a mass concentration and molar mass basis. The MNA results (Table 6) also indicate the varying reductive dechlorination pathways occurring at the site. The concentrations of sulfate, methane, and ferrous iron are likely due to sulfate reduction, methanogenesis, and iron reduction.

Results of the April 2015 sampling event indicated 10 constituents were detected at concentrations above their respective delineation criteria including: 1,1,1-TCA, 1,1-DCE, acetone, chloroethane, cis-1,2-DCE, cyclohexane, methylene chloride, PCE, TCE, and vinyl chloride. Only five of the 10 constituents were detected at concentrations above applicable RRS including: 1,1-DCE, cis-1,2-DCE, PCE, TCE, and vinyl chloride. Overall, the concentrations of detected constituents in

groundwater have decreased. Additionally, the number of contaminants with concentrations greater than RRS has also decreased.

5.0 RECOMMENDATIONS

Based on an evaluation of the current and historical groundwater data, and the known degradation pathways for the initial release constituents, groundwater investigations going forward will focus on the following regulated substances: acetone, 1,1,1-TCA, 1,1-DCA, 1,1-DCE, 1,2-DCA, chloroethane, cis-1,2-DCE, cyclohexane, methylene chloride, PCE, trans-1,2-DCE, TCE, and vinyl chloride. No other constituents will be reported.

6.0 MONTHLY INVOICE SUMMARY

EPD requires that a professional engineer or geologist oversee the implementation of the VIRP in accordance with the provisions, purposes, standards and policies of the Georgia Voluntary Remediation Program Act. From September 1, 2014 thru April 30, 2015, Ms. Kristen Ritter Rivera, P.G., invoiced 155 hours to this project. A monthly summary of hours invoiced and a description of services provided is shown in Table 7.

7.0 SCHEDULE

A project schedule for activities is provided in Table 8. Activities planned for the next 6-month reporting period (May 2015 through October 2015) include the following:

- Evaluate integrity of RW-1 and RW-2;
- Site wide groundwater sampling event in September 2015;
- Update plume analytics evaluation;
- Prepare groundwater model; and
- Sample the SVE system.

The Second VIRP Progress Report will be submitted by November 20, 2015.

TABLES

TABLE 1. MONITORING WELL CONSTRUCTION DETAILS

Monitoring Well	Installation Date	Total Depth feet, bgs	Screened Interval feet, bgs		Screen Length feet	Screened Zone	Top of Casing Elevation feet
			Top	Bottom			
RW-1	6/13/1995	40.0	20	40	20	OVB	861.98
RW-2	6/13/1995	39.0	19	39	20	OVB	862.01
DW-1	11/3/1997	50.0	45	50	5	BDRK	862.44
MW-1	3/18/1994	35.0	20	35	15	OVB	885.30
MW-2	5/1/1995	35.0	20	35	15	OVB	896.38
MW-3	5/1/1995	49.0	19	49	30	OVB	883.43
MW-4	1/1/2005	34.0	14	34	20	OVB	857.57
MW-5	2/1/2007	19.5	9.5	19.5	10	OVB	861.75
MW-6	2/1/2007	24.5	14.5	24.5	10	OVB	860.57
MW-7	2/1/2007	14.5	4.5	14.5	10	OVB	865.47
MW-8	9/1/2012	43.0	28	43	15	OVB	892.91
MW-9	9/1/2012	19.0	4	19	15	OVB	859.86
MW-10	10/4/2012	29.0	19	29	10	OVB	901.05
MW-11	10/4/2012	30.0	20	30	10	OVB	892.84
MW-12	10/3/2012	34.0	19	34	15	OVB	891.30
MW-13	10/3/2012	13.0	3	13	10	OVB	864.72
MW-15	10/3/2012	14.5	4.5	14.5	10	OVB	858.14

Notes

BGS - below ground surface
 OVB - overburden
 BDRK - bedrock

Prepared by: SNW 04/15/2015

Checked by: KRR 04/24/2015

TABLE 2. WATER LEVEL MEASUREMENTS

Monitoring Well	Top of Casing Elevation feet, MSL	October 7, 2014		January 16, 2015		April 7, 2015	
		Depth to Water feet	Groundwater Elevation feet, MSL	Depth to Water feet	Groundwater Elevation feet, MSL	Depth to Water feet	Groundwater Elevation feet, MSL
RW-1	861.98	3.82	858.16	2.79	859.19	NM	NC
RW-2	862.01	2.98	859.03	0.60	861.41	NM	NC
DW-1	862.44	12.49	849.95	3.05	859.39	2.38	860.06
MW-1	885.30	23.45	861.85	23.11	862.19	22.61	862.69
MW-2	896.38	24.70	871.68	NM	NC	24.28	872.10
MW-3	883.43	22.67	860.76	21.87	861.56	21.15	862.28
MW-4	857.57	2.81	854.76	3.41	854.16	2.10	855.47
MW-5	861.75	6.86	854.89	6.55	855.20	6.17	855.58
MW-6	860.57	10.07	850.50	9.07	851.50	8.21	852.36
MW-7	865.47	7.20	858.27	6.58	858.89	6.15	859.32
MW-8	892.91	25.84	867.07	25.68	867.23	24.91	868.00
MW-9	859.86	8.98	850.88	8.58	851.28	5.86	854.00
MW-10	901.05	19.02	882.03	19.11	881.94	18.17	882.88
MW-11	892.84	20.30	872.54	20.64	872.20	19.47	873.37
MW-12	891.30	25.99	865.31	25.33	865.97	24.45	866.85
MW-13	864.72	8.59	856.13	7.79	856.93	7.30	857.42
MW-15	858.14	6.83	851.31	5.75	852.39	5.11	853.03

Notes

NM - not measured
 NC - not calculated
 MSL - mean sea level

Prepared by: SNW 04/15/2015

Checked by: RJT 5/5/2015

TABLE 3. FIELD PARAMETERS

Sample Location	Temperature °C	pH Standard Units	Dissolved Oxygen mg/L	ORP mV	Conductivity µs/cm	Turbidity NTU
October 2014						
RW-1	19.78	6.49	--	--	1128	1.76
RW-2	17.87	5.71	--	--	218	1.72
DW-1	18.94	6.35	--	--	458	5.48
MW-1	19.80	6.35	--	--	332	1.31
MW-3	19.18	6.48	--	--	801	0.37
MW-4	19.36	6.02	--	--	269	0.00
MW-6	22.00	6.19	--	--	183	61.00
MW-7	19.09	5.76	--	--	245	6.92
MW-8	18.61	5.36	--	--	42	2.06
MW-9	21.14	5.06	--	--	61	0.40
MW-13	18.69	5.59	--	--	141	4.57
January 2015						
RW-1	16.90	6.69	0.40	-106.2	825	5.24
RW-2	9.17	7.03	6.79	30.8	183	145
DW-1	13.62	6.48	1.39	-97.1	431	4.46
MW-1	18.00	6.56	0.93	-174.7	486	1.40
MW-3	16.20	7.06	0.62	-148.3	608	4.73
MW-4	16.40	6.23	1.64	49.5	299	3.38
MW-6	16.27	5.82	0.70	21.1	116	8.74
MW-7	13.00	5.56	0.57	50.1	221	7.68
MW-8	15.26	5.01	0.61	88.2	38	1.82
MW-9	18.40	4.74	1.64	76.1	72	1.08
MW-13	14.50	5.51	0.60	36.4	163	1.55
April 2015						
DW-1	17.44	6.41	0.28	-52.3	219	23.59
MW-1	20.27	6.22	0.32	-37.3	284	0.00
MW-2	21.56	6.13	4.34	134.8	57	105.80
MW-3	21.54	6.59	0.15	-115.8	765	13.30
MW-4	18.39	5.97	0.52	-38.5	281	3.24
MW-5	19.02	4.78	0.27	-3.5	61	2.95
MW-6	17.39	6.18	0.21	-30.0	175	15.64
MW-7	14.93	5.91	0.26	15.1	211	5.53
MW-8	17.69	5.35	0.72	146.2	51	16.88
MW-9	18.40	4.86	0.20	-24.5	66	1.16
MW-10	21.23	6.07	0.15	-91.2	160	7.69
MW-11	19.87	5.97	0.14	-26.5	194	2.01
MW-12	18.36	5.08	0.77	229.3	46	5.32
MW-13	14.38	5.62	0.50	-78.1	160	6.00
MW-15	18.20	5.89	0.11	-99.8	517	5.19
Surface Water Locations - April 2015						
SW-1	18.89	6.51	7.46	--	143	0.80
SW-2	19.22	6.57	7.10	--	153	2.76

Notes

- not measured
- mg/L - milligrams per liter
- mV - millivolts
- µs/cm - microsiemens per centimeter
- NTU - nephelometric turbidity units

Prepared by: SNW 04/14/2015

Checked by: RJT 5/5/2015

TABLE 4. SUMMARY OF NOVEMBER 2014 SOIL ANALYTICAL RESULTS

Constituent (mg/Kg)	Delineation Criteria (mg/Kg)	Type 4 RRS (mg/Kg)	Sample ID														
			MW-16 0-1'	SB-1 1-1.5'	SB-1 2-2.5'	SB-2 1.5-2.0'	SB-2 3.5-4.0'	SB-3 1.0-1.5'	SB-3 2.0-2.5'	SB-4 1.5-2.0'	SB-4 3.5-4.0'	SB-4 7.0-7.5'	SB-4 14-14.5'	SB-5 1-1.5'	SB-5 7-7.5'	SB-5 14-14.5'	SB-5 18-18.5'
1,1,1-TCA	20*	4.78	0.0063	1.1	2.5	< 0.004	< 0.0049	0.012	< 0.0045	< 0.0046	< 0.0054	< 0.005	< 0.0053	< 0.0045	< 0.005	< 0.005	< 0.0049
1,1,2-TCA	NC	NC	< 0.0042	< 0.2	0.0099	< 0.004	< 0.0049	< 0.0044	< 0.0045	< 0.0046	< 0.0054	< 0.005	< 0.0053	< 0.0045	< 0.005	< 0.005	< 0.0049
1,1-DCA	400*	1.14	0.0057	0.67	0.45	0.0026 J	< 0.0049	0.03	< 0.0045	< 0.0046	< 0.0054	< 0.005	< 0.0053	< 0.0045	< 0.005	< 0.005	< 0.0049
1,1-DCE	0.7*	0.19	< 0.0042	0.31	0.19	< 0.004	< 0.0049	0.006	< 0.0045	< 0.0046	< 0.0054	< 0.005	< 0.0053	< 0.0045	< 0.005	< 0.005	< 0.0049
1,2-DCA	0.5*	0.001	< 0.0042	< 0.2	0.0075	< 0.004	< 0.0049	< 0.0044	< 0.0045	< 0.0046	< 0.0054	< 0.005	< 0.0053	< 0.0045	< 0.005	< 0.005	< 0.0049
2-Butanone	NC	NC	< 0.042	< 2	0.068	< 0.04	< 0.049	< 0.044	< 0.0045	< 0.046	< 0.054	< 0.05	< 0.053	< 0.045	< 0.05	< 0.05	< 0.049
Acetone	400*	9.35	0.32	< 3.9	0.74	0.14	0.14	0.12	0.28	0.12	0.22	0.14	0.23	< 0.091	< 0.1	< 0.099	< 0.098
Chloroform	NC	NC	< 0.0042	< 0.2	0.0095	< 0.004	< 0.0049	< 0.0044	< 0.0045	< 0.0046	< 0.0054	< 0.005	< 0.0053	< 0.0045	< 0.005	< 0.005	< 0.0049
cis-1,2-DCE	7*	0.006	0.0068	0.084 J	0.076	< 0.004	< 0.0049	< 0.0044	< 0.0045	< 0.0046	< 0.0054	< 0.005	< 0.0053	< 0.0045	< 0.005	< 0.005	< 0.0049
Cyclohexane	20*	11.5	< 0.0042	< 0.2	0.059	< 0.004	< 0.0049	< 0.0044	< 0.0045	< 0.0046	< 0.0054	< 0.005	< 0.0053	< 0.0045	< 0.005	< 0.005	< 0.0049
Ethylbenzene	70*	0.79	< 0.0042	0.26	1.3	< 0.004	< 0.0049	< 0.0044	< 0.0045	< 0.0046	< 0.0054	< 0.005	< 0.0053	< 0.0045	< 0.005	< 0.005	< 0.0049
Freon-113	NC	NC	< 0.0084	< 0.39	0.025	< 0.008	< 0.0097	0.0033 J	< 0.009	< 0.0093	< 0.011	< 0.01	< 0.011	< 0.0091	< 0.01	< 0.0099	< 0.0098
Isopropylbenzene	21.9*	1.72	< 0.0042	0.26	0.045	< 0.004	< 0.0049	< 0.0044	< 0.0045	< 0.0046	< 0.0054	< 0.005	< 0.0053	< 0.0045	< 0.005	< 0.005	< 0.0049
m,p-Xylene	1000*	9.85	< 0.0042	0.98	6.6	< 0.004	< 0.0049	0.0023 J	< 0.0045	< 0.0046	< 0.0054	< 0.005	< 0.0053	< 0.0045	< 0.005	< 0.005	< 0.0049
Methylene chloride	0.5*	0.12	0.0032 J	0.14 J	0.56	0.0028 J	0.0034 J	0.004 J	0.004 J	0.0031 J	0.0044 J	0.0041 J	0.005 J	0.0041 J	0.0057 J	0.0083 J	0.0047 J
o-Xylene	1000*	9.85	< 0.0042	0.43	2.5	< 0.004	< 0.0049	0.0039 J	< 0.0045	< 0.0046	< 0.0054	< 0.005	< 0.0053	< 0.0045	< 0.005	< 0.005	< 0.0049
PCE	0.5*	0.045	0.017	25	99	0.049	< 0.0049	1.5	0.011	< 0.0046	< 0.0054	< 0.005	< 0.0053	< 0.0045	< 0.005	< 0.005	< 0.0049
Toluene	100*	3.63	< 0.0042	0.6	2	< 0.004	< 0.0049	< 0.0044	< 0.0045	< 0.0046	< 0.0054	< 0.005	< 0.0053	< 0.0045	< 0.005	< 0.005	< 0.0049
TCE	0.5*	0.002	0.0084	1.9	3.1	< 0.004	< 0.0049	0.0031 J	< 0.0045	< 0.0046	< 0.0054	< 0.005	< 0.0053	< 0.0045	< 0.005	< 0.005	< 0.0049

Notes

Depth/interval of soil sample (in feet) is listed after sample name as "0-1"

Delineation Criteria equals Type 1 Risk Reduction Standard (RRS)

mg/Kg - milligrams per kilogram

* - denotes applicable RRS

J - estimated value that is above the laboratory method detection limit but below the reporting limit

Bold - concentration above delineation criteria

Bold and Shaded - concentration above Type 4 RRS

Prepared by: SNW 04/13/2015

Checked by: KRR 04/24/2015

TABLE 5. SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

Constituent (mg/L)		1,1,1-TCA	1,1-DCA	1,1-DCE	1,2-Dichlorobenzene	1,2-DCA	4-Methyl-2-pentanone	Acetone	Carbon disulfide	Chloroethane	Chloroform	cis-1,2-DCE	Cyclohexane	Dibromochloromethane	Ethylbenzene	Freon-113	m,p-Xylene	Methylene chloride	o-Xylene	PCE	Toluene	trans-1,2-DCE	TCE	Vinyl Chloride
Delineation Criteria (mg/L)		0.2	4*	0.007	0.6*	0.005*	2	4	4*	0.08	0.08*	0.07	DL/0.005	0.08*	0.7*	1000*	10*	0.005	10*	0.005	1	0.1	0.005	0.002
Type 4 RRS (mg/L)		13.6*	NC	0.524*	NC	NC	4.23*	45.6*	NC	29.2*	NC	0.204*	17.5*	NC	NC	NC	NC	0.454*	NC	0.0981*	5.24*	0.161*	0.00524*	0.00327*
RW-1	10/8/14	0.3	1.8	1.2	< 0.005	0.015	< 0.01	1.7	< 0.005	0.78	< 0.005	0.15	< 0.005	< 0.005	0.0065	0.13	0.038	0.2	0.061	0.0072	0.45	< 0.005	0.014	0.61
	1/16/15	0.18	0.47	0.87	< 0.005	0.0086	< 0.01	4.5	< 0.005	0.89	< 0.005	0.11	0.02	< 0.005	0.0086	< 0.01	0.047	0.018	0.061	0.023	0.4	< 0.005	0.031	0.35
RW-2	10/8/14	0.014	0.036	0.027	< 0.005	< 0.005	< 0.01	< 0.05	< 0.005	0.022	< 0.005	0.36	< 0.005	0.075	< 0.005	< 0.01	< 0.005	< 0.005	< 0.005	0.13	< 0.005	< 0.005	0.18	0.0088
	1/16/15	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.01	< 0.05	< 0.005	< 0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.002
DW-1	10/8/14	0.2	0.5	0.76	< 0.005	0.0091	< 0.01	0.36	< 0.005	0.89	< 0.005	0.29	< 0.005	< 0.005	0.0051	0.1	0.017	0.022	0.0072	0.097	0.5	< 0.005	0.067	0.11
	1/16/15	0.077	0.28	0.69	< 0.005	0.0067	< 0.01	0.093	< 0.005	0.76	< 0.005	0.052	< 0.005	< 0.005	0.0064	< 0.01	0.016	0.019	0.0077	0.52	0.46	< 0.005	0.038	0.051
	4/8/15	0.02	0.088	0.15	< 0.005	< 0.005	< 0.01	< 0.05	< 0.005	0.48	< 0.005	0.022	< 0.005	< 0.005	< 0.005	< 0.01	0.0073	0.0053	< 0.005	0.12	0.25	< 0.005	0.016	0.019
MW-1	10/8/14	0.09	0.19	0.012	< 0.005	< 0.005	< 0.01	0.17	0.013	< 0.01	< 0.005	0.16	< 0.005	< 0.005	< 0.005	< 0.01	< 0.005	< 0.005	< 0.005	< 0.005	0.018	< 0.005	0.047	0.082
	1/15/15	0.11	0.57	0.019	< 0.005	< 0.005	< 0.01	4.5	< 0.005	0.057	< 0.005	0.19	0.011	< 0.005	< 0.005	< 0.01	< 0.005	< 0.005	< 0.005	0.021	0.055	< 0.005	0.1	0.16
	4/8/15	0.014	0.084	< 0.005	< 0.005	< 0.005	< 0.01	< 0.05	< 0.005	0.01	< 0.005	0.041	< 0.005	< 0.005	< 0.005	< 0.01	< 0.005	< 0.005	< 0.005	0.0081	0.011	< 0.005	0.013	0.03
MW-2	4/7/15	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.01	< 0.05	< 0.005	< 0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.002
MW-3	10/8/14	1.6	3	1.5	< 0.005	0.0093	0.023	53	< 0.005	0.24	< 0.005	5	0.013	< 0.005	0.033	< 0.01	0.16	< 0.005	0.051	0.0057	0.88	0.0065	0.073	1.4
	1/15/15	0.37	0.76	0.39	< 0.005	< 0.005	< 0.01	18	< 0.005	0.29	< 0.005	0.55	0.0055	< 0.005	0.0057	< 0.01	0.0056	0.018	< 0.005	< 0.005	0.18	0.0067	< 0.005	0.38
	4/8/15	0.17	0.83	0.11	< 0.005	< 0.005	0.01	20	< 0.005	0.6	< 0.005	0.28	< 0.005	< 0.005	0.013	< 0.01	0.062	0.0087	0.025	< 0.005	0.26	< 0.005	< 0.005	0.44
MW-4	10/8/14	2.4	0.075	16	0.0057	< 0.005	< 0.01	< 0.05	< 0.005	< 0.01	< 0.005	0.011	0.011	< 0.005	< 0.005	2.4	< 0.005	< 0.005	0.0061	2.1	< 0.005	< 0.005	0.14	< 0.002
	1/15/15	2.6	0.083	36	0.0063	< 0.005	< 0.01	< 0.05	< 0.005	< 0.01	< 0.005	0.037	0.016	< 0.005	< 0.005	< 0.01	< 0.005	< 0.005	< 0.005	2.6	< 0.005	< 0.005	0.12	< 0.002
	4/9/15	1.0	0.056	9.8	< 0.005	< 0.005	< 0.01	< 0.05	< 0.005	< 0.01	< 0.005	0.019	0.0091	< 0.005	< 0.005	1.4	< 0.005	< 0.005	< 0.005	1.6	< 0.005	< 0.005	0.067	0.0055
MW-5	4/8/15	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.01	< 0.05	< 0.005	< 0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.002
MW-6	10/7/14	< 0.005	0.015	0.11	< 0.005	< 0.005	< 0.01	< 0.05	< 0.005	< 0.01	< 0.005	0.0058	< 0.005	< 0.005	< 0.005	0.011	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.037
	1/15/15	< 0.005	0.014	0.17	< 0.005	< 0.005	< 0.01	< 0.05	< 0.005	< 0.01	< 0.005	0.0064	< 0.005	< 0.005	< 0.005	< 0.01	< 0.005	< 0.005	< 0.005	0.01	< 0.005	< 0.005	0.0052	0.032
	4/8/15	< 0.005	0.01	0.092	< 0.005	< 0.005	< 0.01	< 0.05	< 0.005	< 0.01	< 0.005	0.0052	< 0.005	< 0.005	< 0.005	< 0.01	< 0.005	< 0.005	< 0.005	0.0069	< 0.005	< 0.005	< 0.005	0.023
MW-7	10/7/14	< 0.005	< 0.005	0.0087	< 0.005	< 0.005	< 0.01	< 0.05	< 0.005	< 0.01	< 0.005	1.3	< 0.005	< 0.005	< 0.005	< 0.01	0.0078	< 0.005	< 0.005	< 0.005	0.012	< 0.005	< 0.005	0.62
	1/14/15	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.01	< 0.05	< 0.005	< 0.01	< 0.005	0.25	< 0.005	< 0.005	< 0.005	< 0.01	< 0.005	< 0.01	< 0.005	< 0.005	0.005	< 0.005	< 0.005	0.16
	4/8/15	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.01	< 0.05	< 0.005	< 0.01	< 0.005	0.035	< 0.005	< 0.005	< 0.005	< 0.01	< 0.005	0.005	< 0.005	< 0.005	0.005	< 0.005	< 0.005	0.047
MW-8	10/7/14	0.0059	< 0.005	0.018	< 0.005	< 0.005	< 0.01	< 0.05	< 0.005	< 0.01	0.0053	0.025	< 0.005	< 0.005	< 0.005	< 0.01	< 0.005	< 0.005	< 0.005	0.32	< 0.005	< 0.005	0.67	< 0.002
	1/15/15	0.0067	< 0.005	0.03	< 0.005	< 0.005	< 0.01	< 0.05	< 0.005	< 0.01	0.0059	0.037	< 0.005	< 0.005	< 0.005	< 0.01	< 0.005	< 0.005	< 0.005	0.52	< 0.005	< 0.005	0.96	< 0.002
	4/9/15	< 0.005	< 0.005	0.017	< 0.005	< 0.005	< 0.01	< 0.05	< 0.005	< 0.01	0.0051	0.033	< 0.005	< 0.005	< 0.005	< 0.01	< 0.005	< 0.005	< 0.005	0.38	< 0.005	< 0.005	0.71	< 0.002
MW-9	10/7/14	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.01	< 0.05	< 0.005	< 0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.002
	1/14/15	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.01	< 0.05	< 0.005	< 0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.01	< 0.005	< 0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.002
	4/8/15	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.01	< 0.05	< 0.005	< 0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.002
MW-10	4/7/15	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.01	< 0.05	< 0.005	< 0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.002
MW-11	4/7/15	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.01	< 0.05	< 0.005	< 0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.002
MW-12	4/7/15	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.01	< 0.05	< 0.005	< 0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.002
MW-13	10/7/14	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.01	< 0.05	< 0.005	< 0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.002
	1/14/15	< 0.005	< 0.005	< 0																				

TABLE 6. GROUNDWATER MNA RESULTS

Monitoring Well	Date	TOC mg/L	Sulfide mg/L	Chloride mg/L	Nitrogen, Nitrate mg/L	Sulfate mg/L	Ethane mg/L	Ethylene mg/L	Methane mg/L	Alkalinity mg/L	Ferrous Iron mg/L
RW-1	10/8/14	47.9	< 2.0	150	< 0.25	< 1.0	< .009	0.77	3.6	290	>3.3
	1/16/15	39.6	< 2.0	110	< 0.25	3.4	0.2	0.57	4.5	280	2.19
RW-2	10/8/14	1.54	< 2.0	37	< 0.25	4.4	< .009	0.008	0.026	44	2.55
	1/16/15	11.4	< 2.0	4.2	< 0.25	14	< .009	< .007	< .004	150	0.45
DW-1	10/8/14	25.8	< 2.0	52	< 0.25	< 1.0	< .009	0.35	0.98	115	>3.3
	1/16/15	5.96	< 2.0	57	< 0.25	< 1.0	< .009	0.26	3.3	128	0.90
	4/8/15	5.42	< 1.0	29	< 0.25	1.9	< .009	0.15	3.3	60	1.17
MW-1	10/8/14	22.3	< 2.0	58	< 0.25	15	< .009	0.025	0.055	84	2.65
	1/15/15	20.2	< 2.0	76	< 0.25	5.2	< .009	0.055	0.037	132	2.49
	4/7/15	16.1	2.0	29	<0.25	16	< .009	0.01	0.018	80	3.00
MW-2	4/8/15	<1.00	< 1.0	3.2	0.67	9.5	< .009	< .007	< .004	21	0.10
MW-3	10/8/14	54.8	< 2.0	110	< 0.25	< 10	0.04	0.26	0.64	186	>3.3
	1/15/15	24.8	< 2.0	37	< 0.25	1.1	0.094	0.12	1.8	26	--
	4/8/15	53.5	< 1.0	72	<0.25	<10	0.28	0.22	3.6	200	1.74
MW-4	10/8/14	1.12	< 2.0	51	< 0.50	< 2.0	< .009	< .007	0.044	51	0.05
	1/15/15	< 1.00	< 2.0	56	< 0.25	< 1.0	< .009	< .007	0.005	59	0.07
	4/9/15	1.09	< 1.0	49	<0.25	<1.0	< .009	< .007	< .004	53	0.02
MW-5	4/8/15	< 1.00	< 1.0	5.3	0.55	1.2	< .009	< .007	0.028	31	0.00
MW-6	10/7/14	3.10	< 2.0	7.5	< 0.25	< 1.0	0.02	< .007	2.8	67	>3.3
	1/15/15	< 5.00	< 2.0	6.3	< 0.25	< 1.0	0.013	< .007	1.7	63	2.95
	4/8/15	1.52	1.0	6.6	<0.25	2.7	0.009	< .007	1.4	64	1.52
MW-7	10/7/14	2.87	< 2.0	10	< 0.25	< 1.0	0.034	0.21	3.9	104	2.87
	1/14/15	6.28	< 2.0	10	< 0.25	< 1.0	0.06	0.14	3.5	98	2.19
	4/8/15	1.87	< 1.0	9.2	< 0.25	< 1.0	0.069	0.075	3.9	51	1.81
MW-8	10/7/14	1.51	< 2.0	4.3	< 0.25	< 1.0	< .009	< .007	0.14	19	0.16
	1/15/15	< 1.00	< 2.0	4.3	< 0.25	< 1.0	< .009	< .007	0.21	27	0.19
	4/9/15	2.16	< 1.0	4.5	<0.25	1.0	< .009	< .007	0.46	25	0.46
MW-9	10/7/14	1.27	< 2.0	5.3	< 0.25	2.9	< .009	< .007	0.053	18	0.21
	1/14/15	< 5.00	< 2.0	7.2	< 0.25	19	< .009	< .007	0.68	29	0.47
	4/8/15	1.78	< 1.0	6.9	<0.25	3.5	< .009	< .007	0.38	33	0.17
MW-10	4/7/15	<1.00	< 1.0	7.5	< 0.25	1.4	< .009	< .007	1.5	39	0.93
MW-11	4/7/15	1.14	< 1.0	8.9	< 0.25	7.9	< .009	< .007	2.9	37	2.63
MW-12	4/7/15	<1.00	< 1.0	6.5	0.43	<1.0	< .009	< .007	< .004	15	0.04
MW-13	10/7/14	2.03	< 2.0	7.6	< 0.25	< 1.0	0.2	< .007	4.5	52	>3.3
	1/14/15	< 5.00	< 2.0	9.0	< 0.25	< 1.0	0.22	< .007	4.5	73	0.69
	4/8/15	<1.00	1.6	10.0	<0.25	1.5	0.2	< .007	5.4	55	0.64
MW-15	4/8/15	7.07	2	36.0	<0.25	1.2	0.05	< .007	8.7	164	1.23

Notes

mg/L - milligrams per liter
ug/L - micrograms per liter

Prepared by: SNW 04/14/2015

Checked by: RJT 05/05/2015

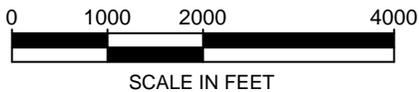
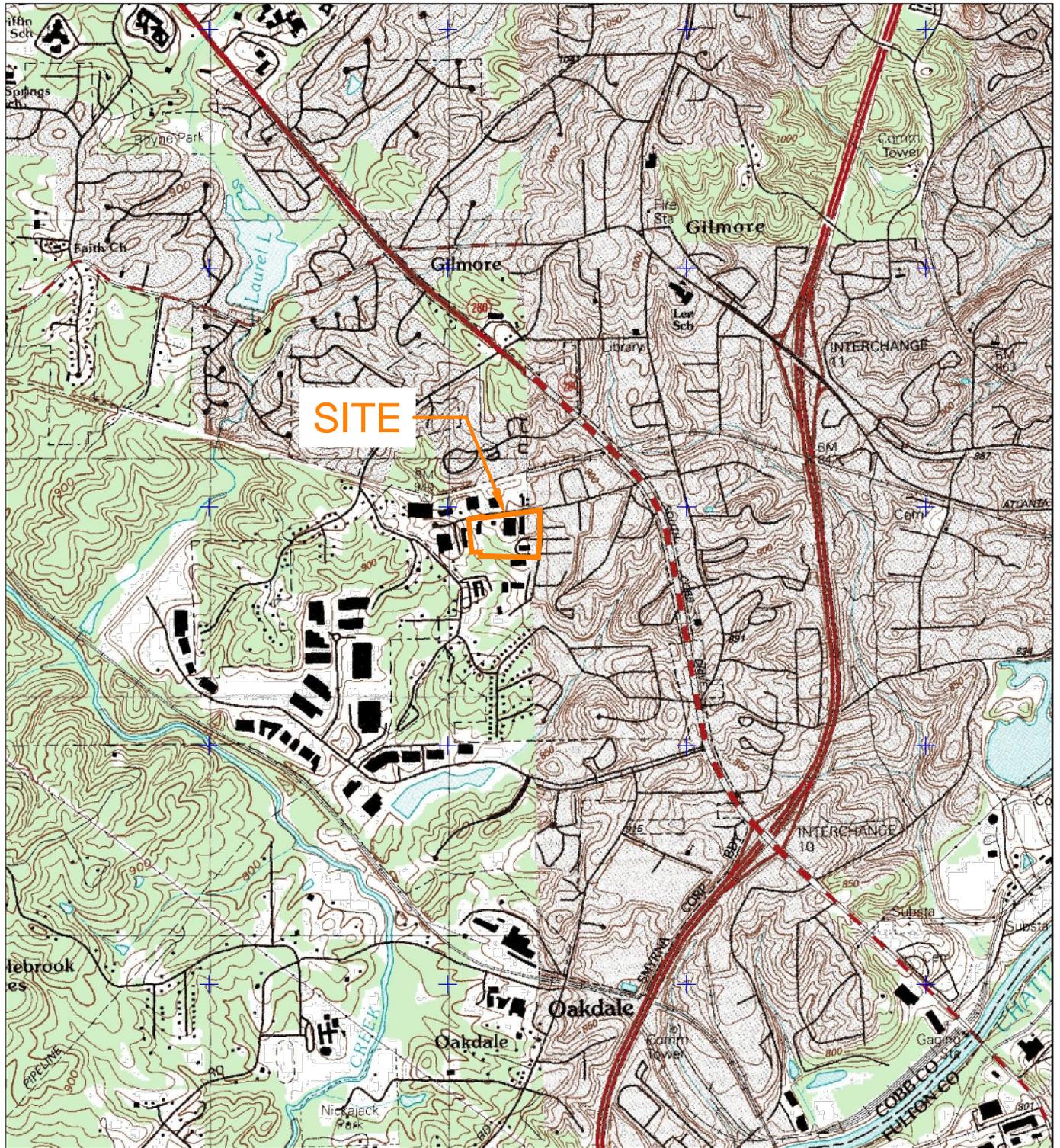
TABLE 7: SUMMARY OF MONTHLY INVOICES

Month	Hours Billed by Kristen Rivera, P.G.	Description of Activities
September 2014	36	<ul style="list-style-type: none"> - Reviewed historical documents - Met with Apollo to discuss cost estimate and strategy - Meeting with EPD - Prepared draft cost estimate for Remediation Plan implementation - Preparation for October field activities
October 2014	13	<ul style="list-style-type: none"> - Participated in calls with Apollo - Targeted sampling event - Initial scheduling and site visit for November field activities; coordinate with drillers - Reviewed HASP, reviewed planned activities
November 2014	19	<ul style="list-style-type: none"> - November soil sampling/monitoring well installation - Participated in calls and meetings with Apollo - Historical data review - Preparation for December field activities - Begin Plume Stability Analysis
December 2014	5	<ul style="list-style-type: none"> - Participated in calls and meetings with Apollo - Preparation for April field activities - Reviewed planned activities with sampling team - Plume Stability Analysis
January 2015	17	<ul style="list-style-type: none"> - Targeted sampling event - Reviewed laboratory analytical results - Plume Stability Analysis
February 2015	9	<ul style="list-style-type: none"> - Plume Stability Analysis - Data assessment
March 2015	9	<ul style="list-style-type: none"> - Participated in calls and meetings with Apollo - Preparation for April field activities - Plume Stability Analysis - Preparation of First VIRP Progress Report
April 2015	47	<ul style="list-style-type: none"> - Site wide sampling event - Data assessment - Plume Stability Analysis - Preparation of First VIRP Progress Report

TABLE 8: PROJECTED MILESTONE SCHEDULE

Date	Activity
<i>June 4, 2014</i>	<i>VIRP Application Approved</i>
May 2015	First VIRP Progress Report
September 2015	Site wide groundwater sampling event
November 2015	Second VIRP Progress Report
March 2016	Site wide groundwater sampling event
May 2016	Third VIRP Progress Report
September 2016	Site wide groundwater sampling event
November 2016	Fourth VIRP Progress Report
March 2017	Site wide groundwater sampling event
May 2017	Fifth VIRP Progress Report
September 2017	Site wide groundwater sampling event
November 2017	Sixth VIRP Progress Report
March 2018	Site wide groundwater sampling event
May 2018	Seventh VIRP Progress Report
September 2018	Site wide groundwater sampling event
November 2018	Eighth VIRP Progress Report
May 2019	Ninth VIRP Progress Report
November 2019	Compliance Status Report

FIGURES



SOURCE: MAPCARD TOPOGRAPHIC MAP, SMYRNA, GEORGIA

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 HSI SITE NUMBER 10333

PROJECT NO. 02.20140391.00

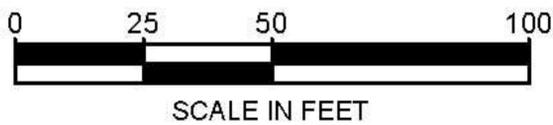
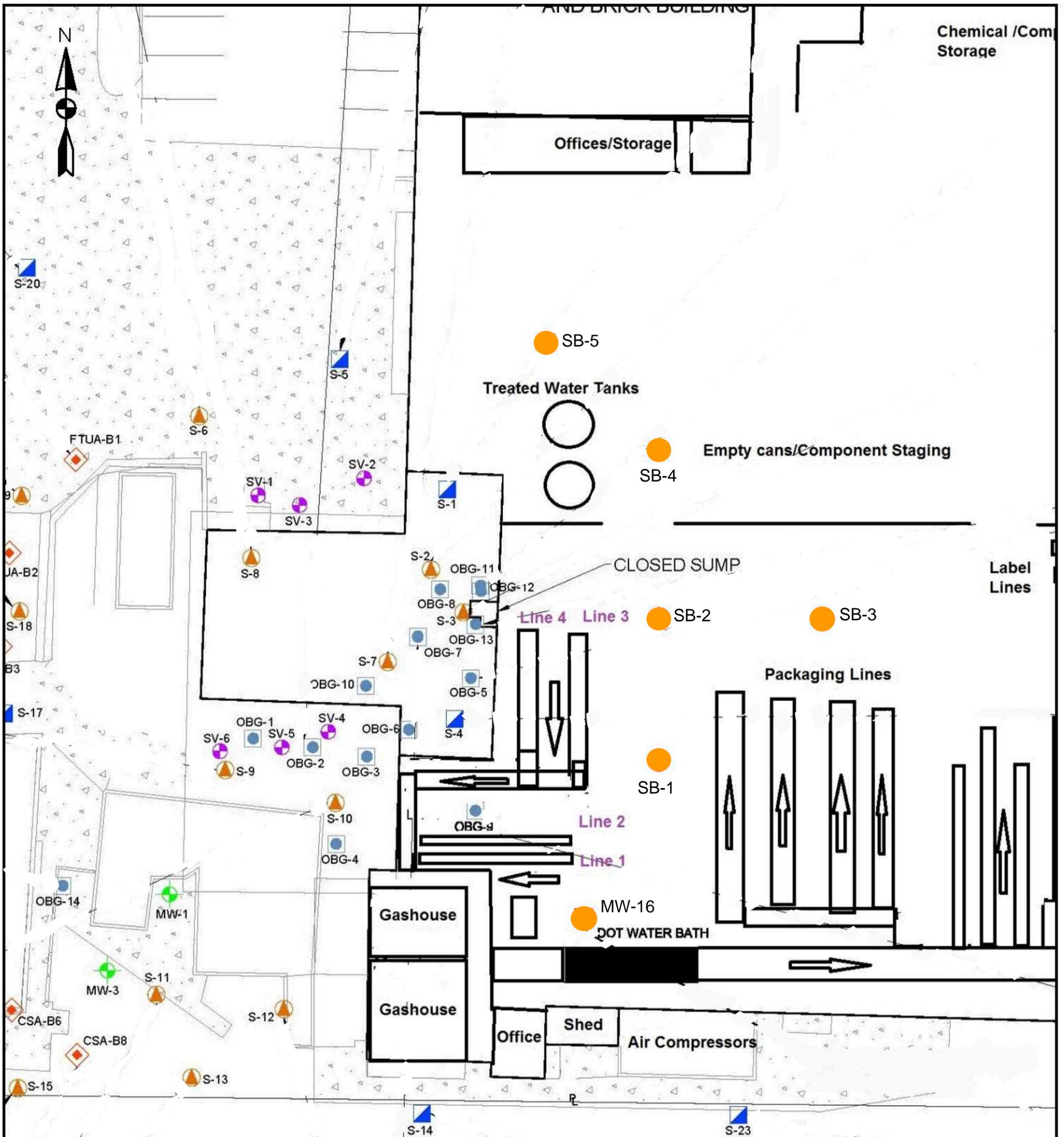


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 1880 WEST OAK PKWY, BLDG 100, STE 106, MARIETTA, GA, 30062

SITE LOCATION

DRAWN: SNW	CHECKED: KRR	DATE: MAR 4, 2015	FIGURE: 1
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FILE NAME: SITE LOCATION.DWG



LEGEND

● SOIL BORING LOCATIONS

SOURCE: O'BRIEN & GERE

APOLLO INDUSTRIES, INC.
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HSI SITE NUMBER 10333

PROJECT NO. 02.20140391.00

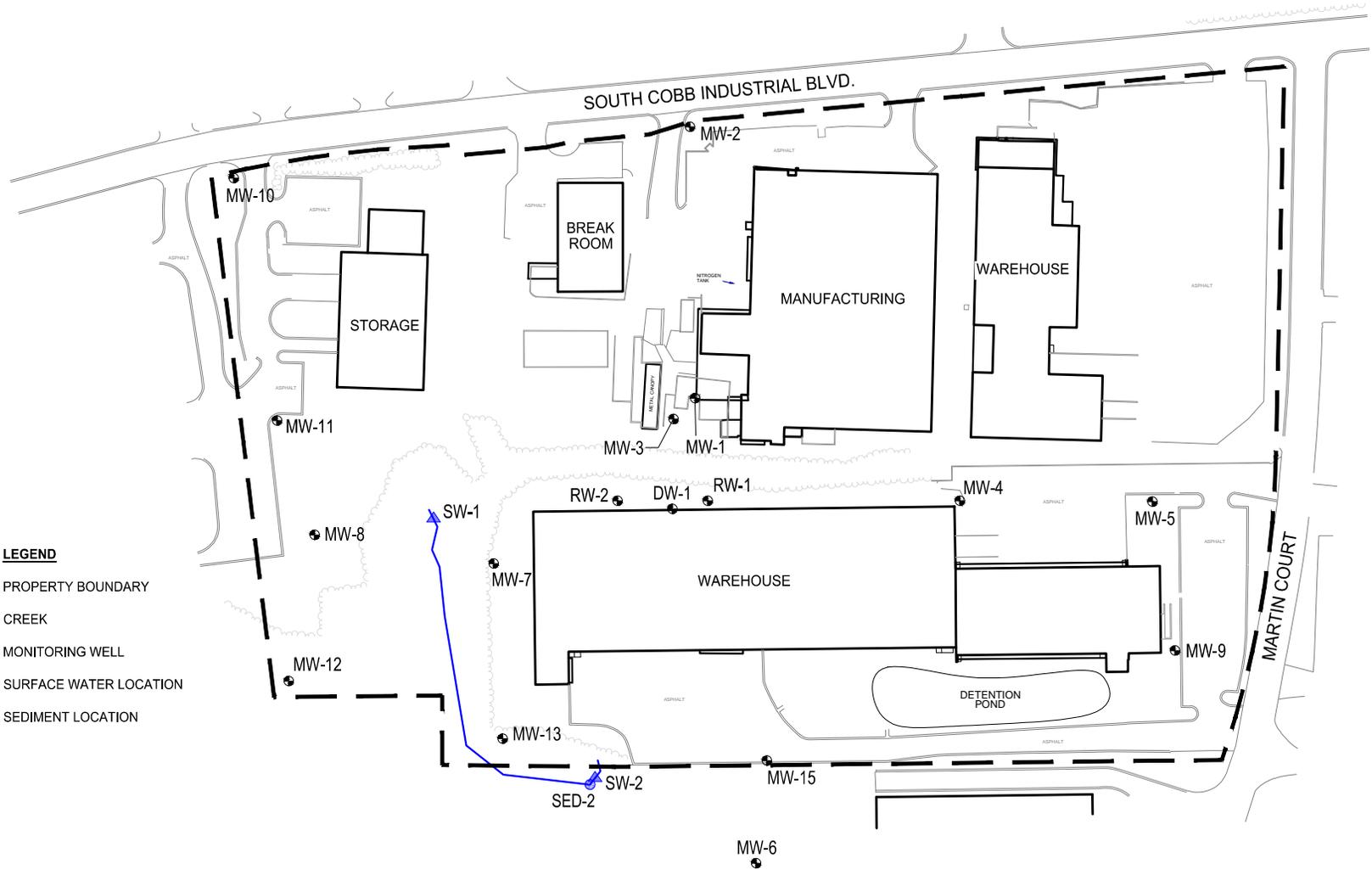


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SOIL BORING LOCATIONS
NOVEMBER 2014

DRAWN: SNW	CHECKED: KRR	DATE: MAY 1, 2015	FIGURE: 2
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FILENAME: proposed soil boring locs.dwg



- LEGEND**
- PROPERTY BOUNDARY
 - CREEK
 - MW-1 ● MONITORING WELL
 - SW-1 ▲ SURFACE WATER LOCATION
 - SED-2 ● SEDIMENT LOCATION



BASE MAP SOURCE: TERRAMARK LAND SURVEYING, INC. (6/5/2012)

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PROJECT NO. 02.20140391.00



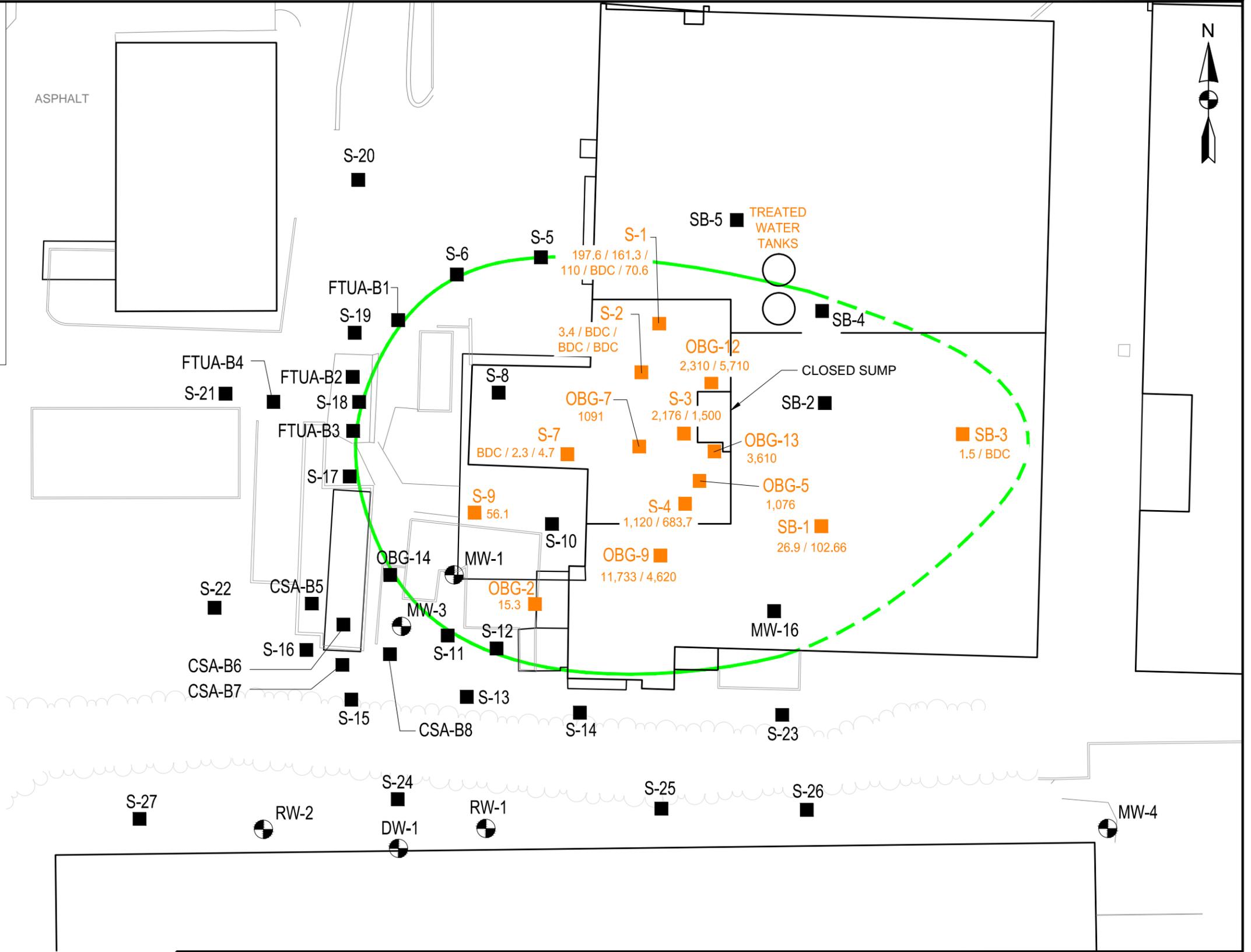
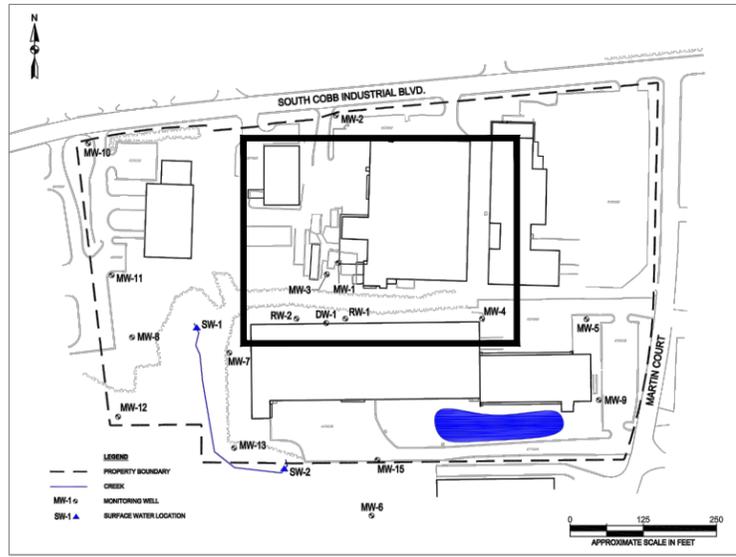
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FACILITY LAYOUT AND
SAMPLE LOCATIONS

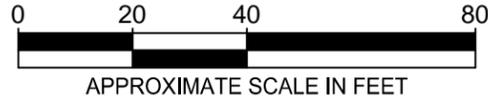
DRAWN: SSW	CHECKED: KRR	DATE: MAY 1, 2015	FIGURE: 3
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FILENAME: site map and isocounts.dwg



LEGEND

- MW-1 MONITORING WELL
- SB-1 SOIL BORING LOCATIONS ABOVE DELINEATION CRITERIA
- SB-2 SOIL BORING LOCATIONS BELOW DELINEATION CRITERIA
- BDC / 2.3 / 4.7 TOTAL VOC CONCENTRATION ABOVE DELINEATION CRITERIA FROM SHALLOW TO DEEP DEPTHS
- BDC BELOW DELINEATION CRITERIA (TYPE 1 RISK REDUCTION STANDARDS)
- DELINEATION LINE (DASHED WHERE INFERRED)

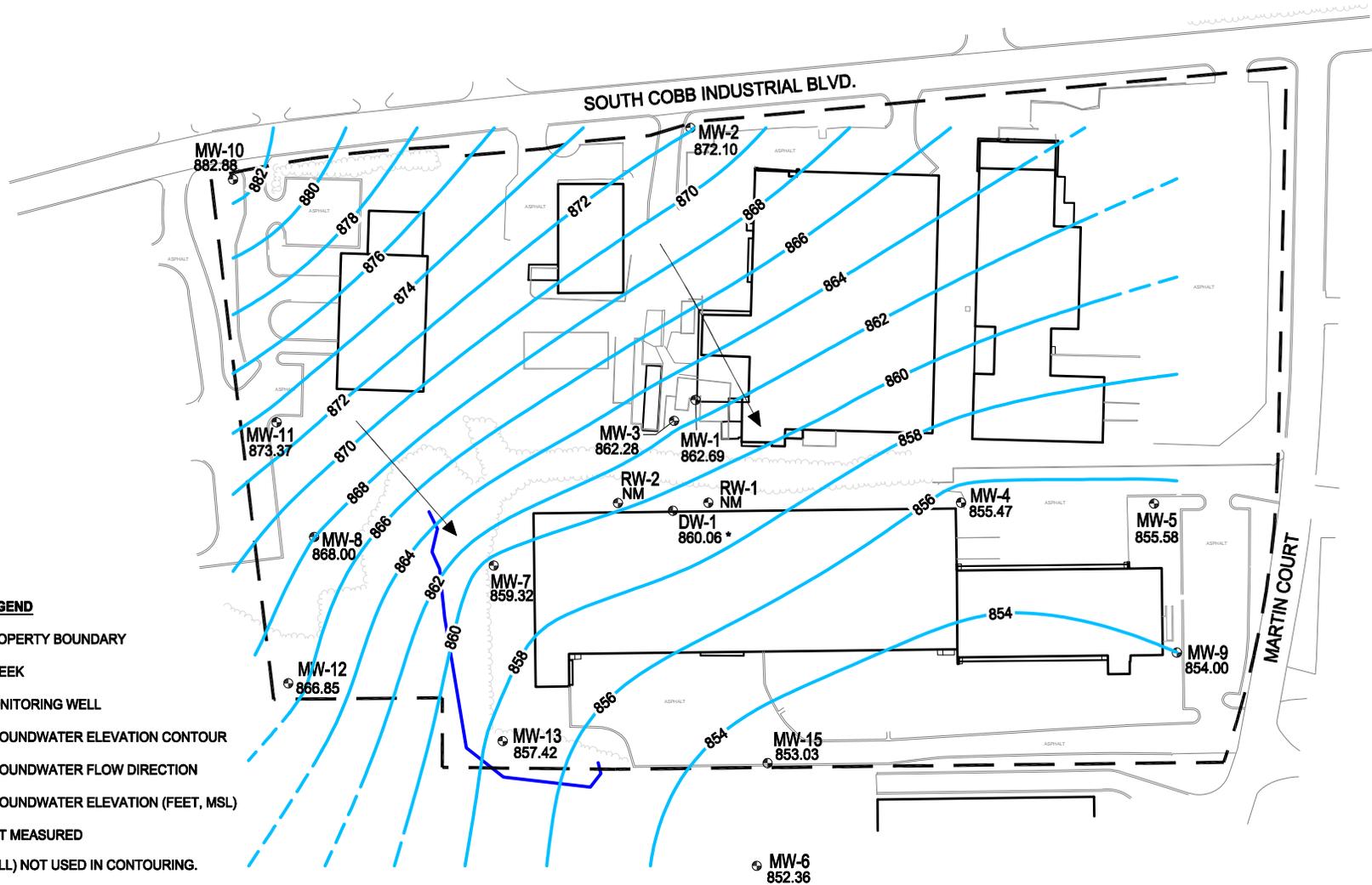


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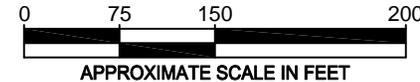
BASE MAP SOURCE: TERRAMARK LAND SURVEYING, INC. (6/5/2012)

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<p>APOLLO INDUSTRIES, INC. 1850 SOUTH COBB INDUSTRIAL BLVD HSI SITE NUMBER 10333</p>	<p>EARTHCON[®] EarthCon Consultants, Inc. 1880 WEST OAK PKWY, BLDG 100, STE 106, MARIETTA, GA, 30062</p>	<p>SOIL DELINEATION MAP</p>
PROJECT NO. 02.20140391.00	DRAWN: SNW	CHECKED: KRR
	DATE: MAY 22, 2015	FIGURE 4



- LEGEND**
- — — — — PROPERTY BOUNDARY
 - — — — — CREEK
 - MW-1 ◉ MONITORING WELL
 - — — — — GROUNDWATER ELEVATION CONTOUR
 - GROUNDWATER FLOW DIRECTION
 - 862.69 GROUNDWATER ELEVATION (FEET, MSL)
 - NM NOT MEASURED
 - * DW-1 (BEDROCK WELL) NOT USED IN CONTOURING.



BASE MAP SOURCE: TERRAMARK LAND SURVEYING, INC. (6/5/2012)

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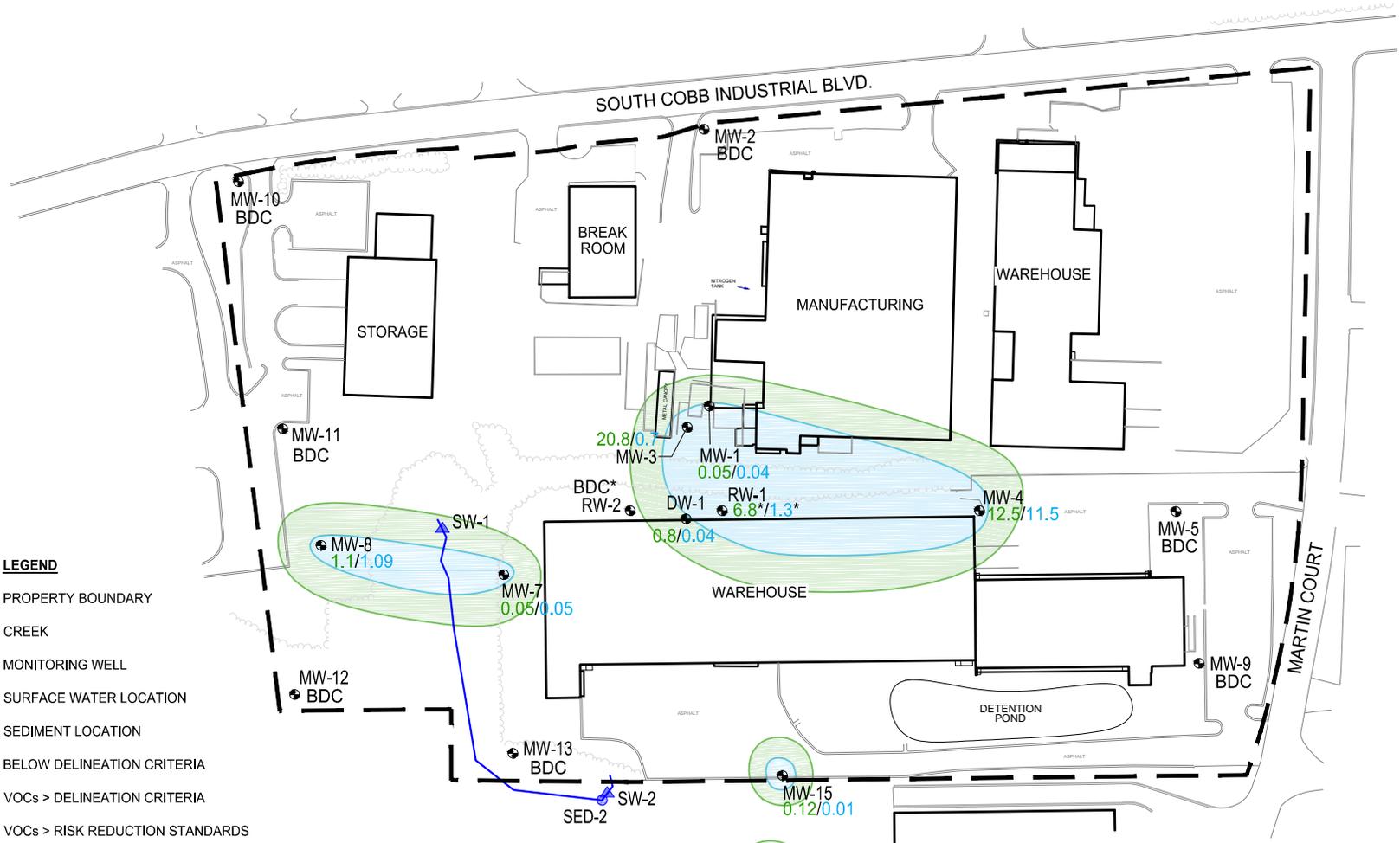
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POTENTIOMETRIC SURFACE MAP
APRIL 7, 2015

DRAWN: SSW	CHECKED: KRR	DATE: MAY 1, 2015	FIGURE: 5
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FILENAME:



- LEGEND**
- PROPERTY BOUNDARY
 - CREEK
 - MW-1 ● MONITORING WELL
 - SW-1 ▲ SURFACE WATER LOCATION
 - SED-2 ● SEDIMENT LOCATION
 - BDC BELOW DELINEATION CRITERIA
 - 0.05 VOCs > DELINEATION CRITERIA
 - 0.05 VOCs > RISK REDUCTION STANDARDS
 - * DATA FROM JANUARY 2015



BASE MAP SOURCE: TERRAMARK LAND SURVEYING, INC. (6/5/2012)

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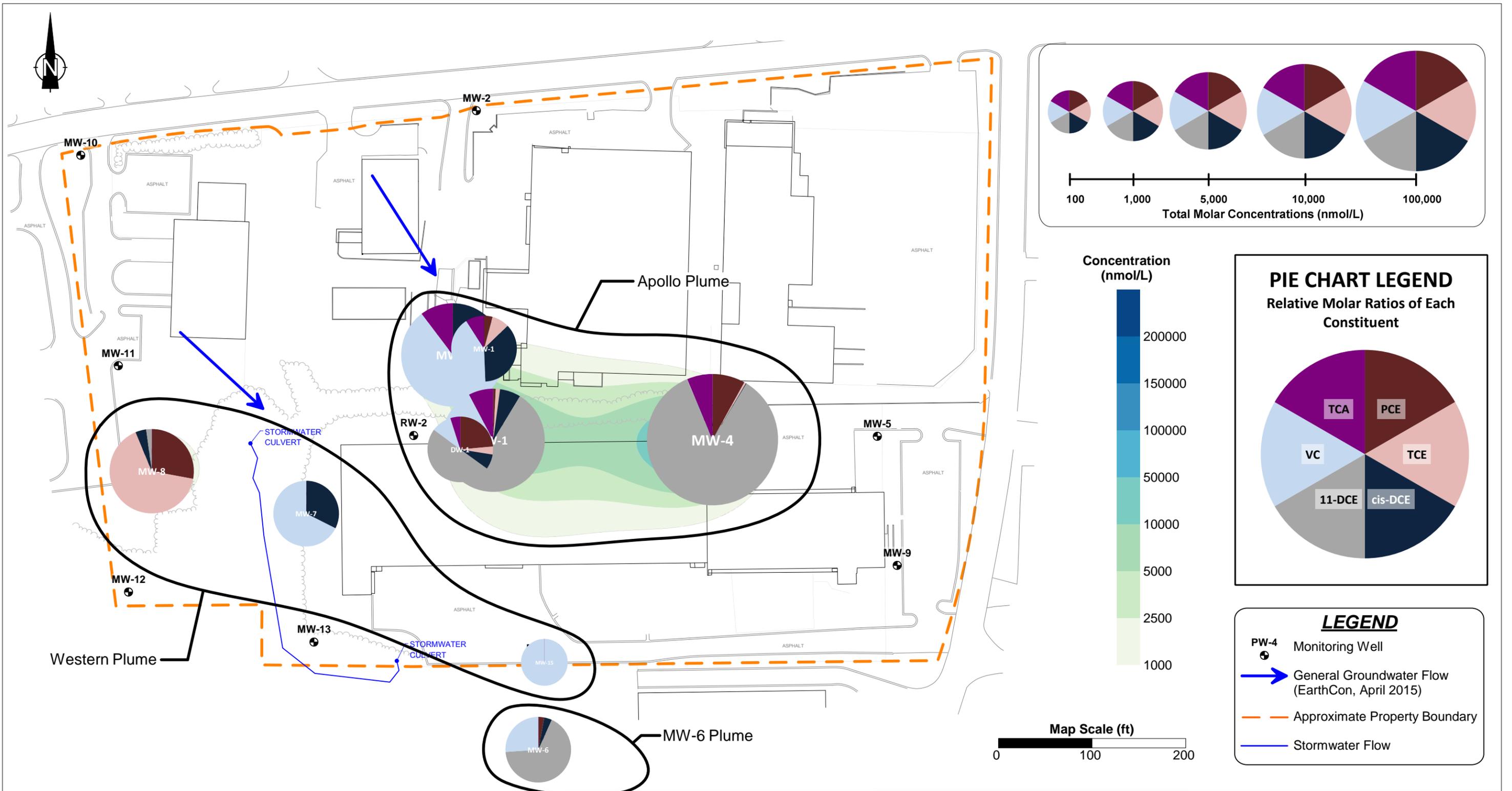
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TOTAL VOCs
APRIL 2015

DRAWN: SSW	CHECKED: KRR	DATE: MAY 1, 2015	FIGURE: 6
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FILENAME: site map and isocounts.dwg



Base Map Source: Terramark Land Surveying, Inc. (6/5/2012)

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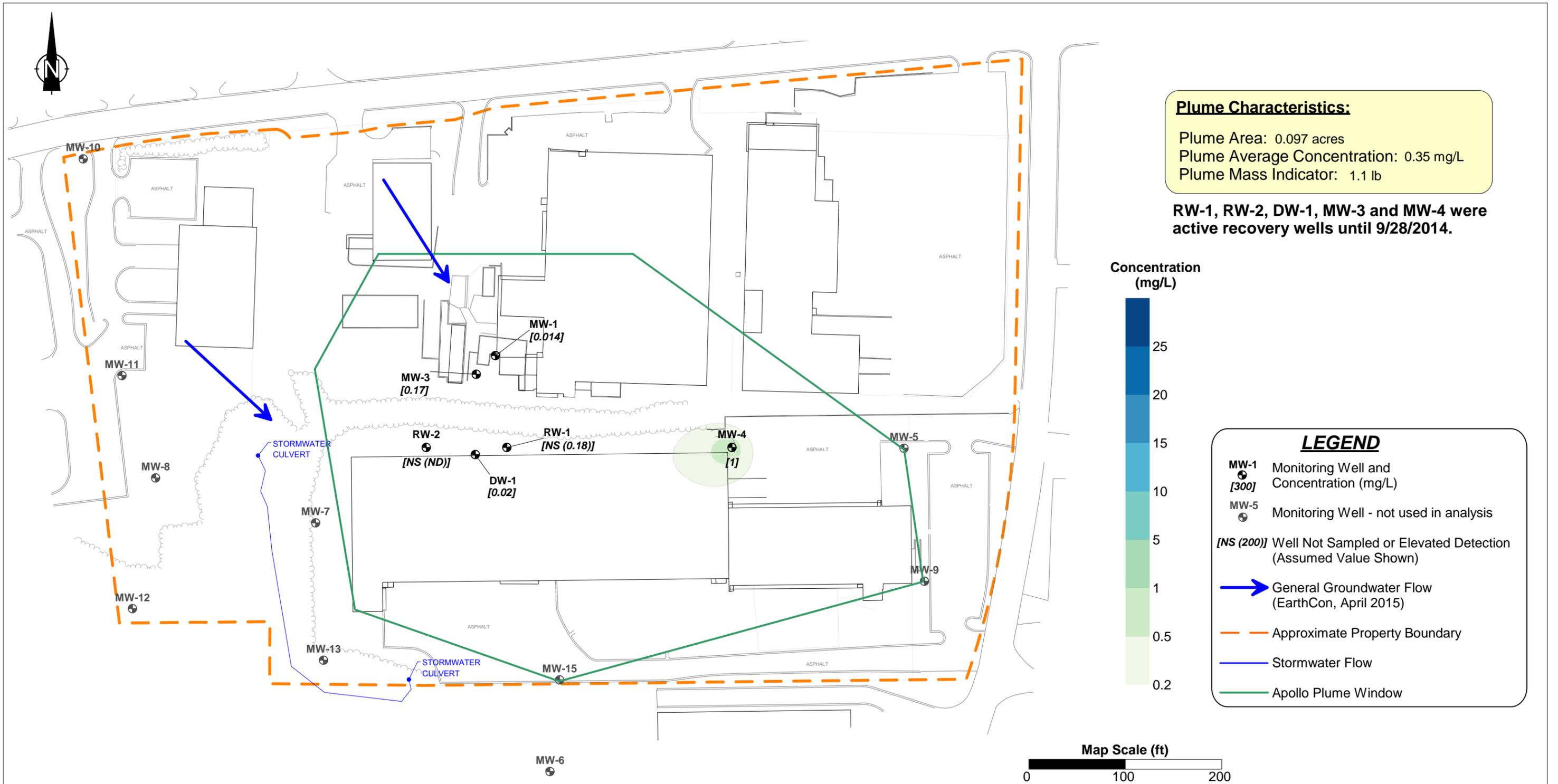
Project Number: 02.20140391.00



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**Total CVOC
 Molar Analysis
 April 2015**

Prepared by: SSW Checked by: DW Figure: 7



Base Map Source: Terramark Land Surveying, Inc. (6/5/2012)

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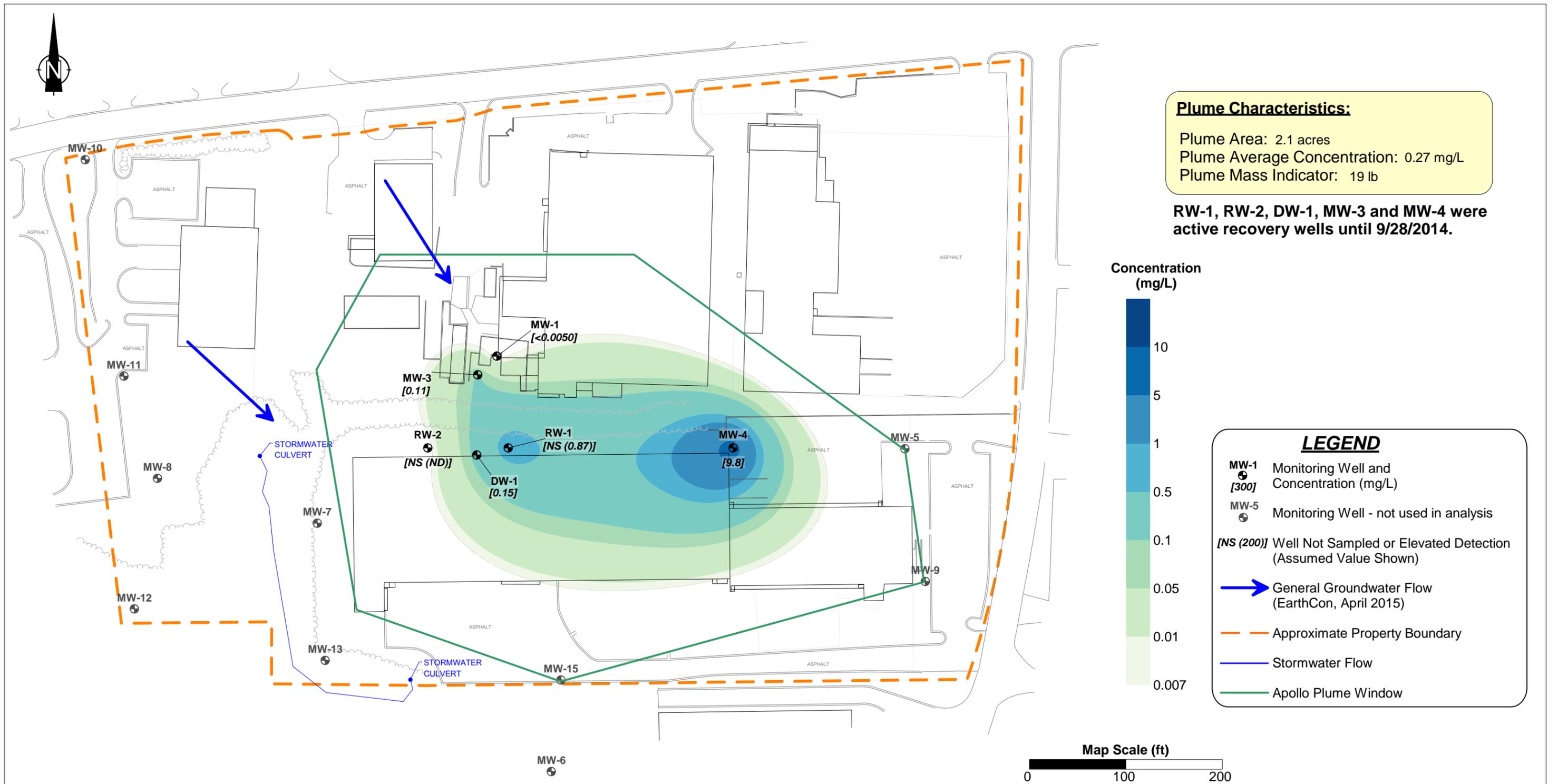
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Apollo Plume
1,1,1-Trichloroethane (1,1,1-TCA)
Apr-2015

Prepared by: SSW Checked by: DW Figure: 8



Base Map Source: Terramark Land Surveying, Inc. (6/5/2012)

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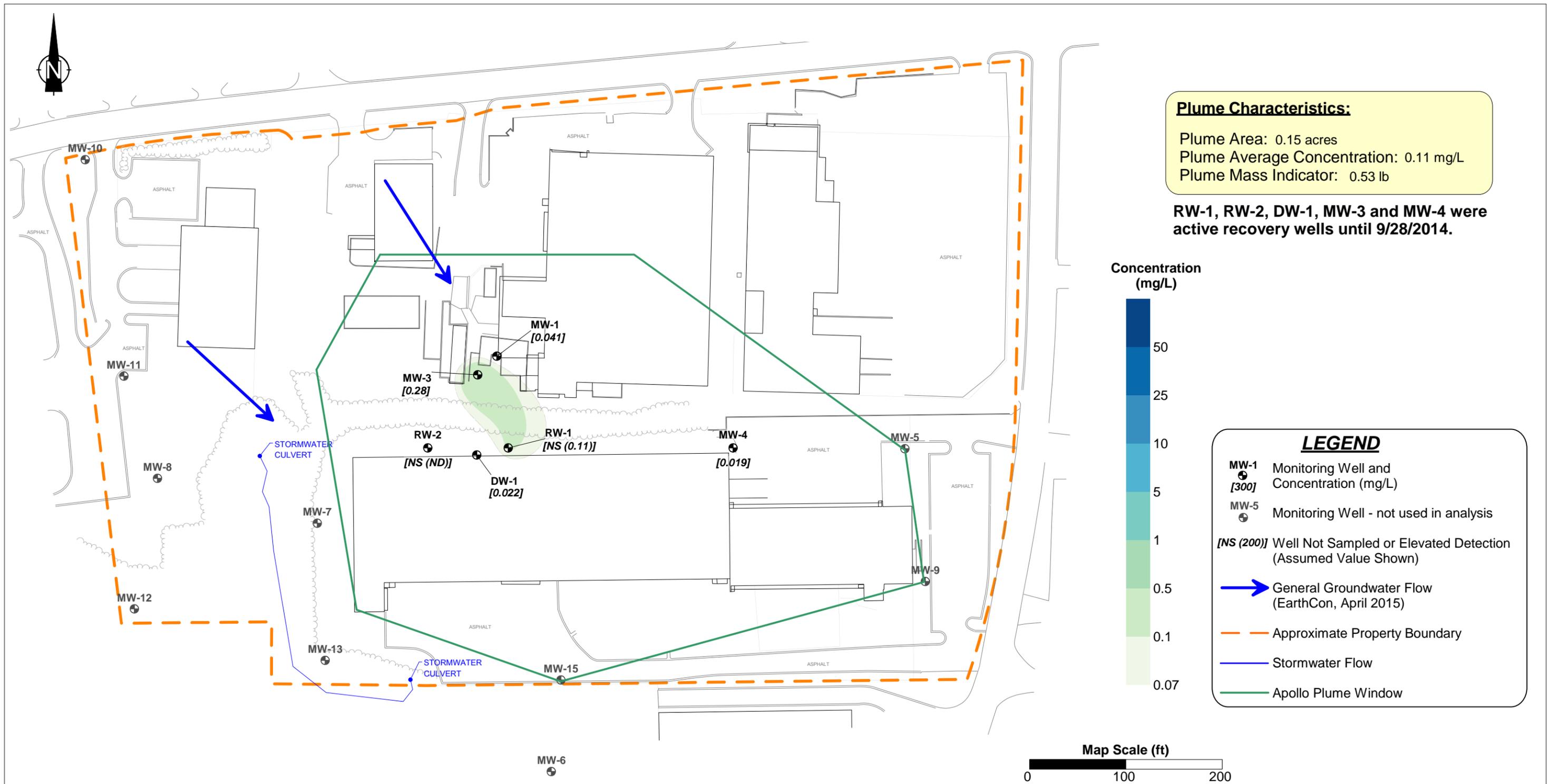
Project Number: 02.20140391.00



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Apollo Plume
1,1-Dichloroethene (1,1-DCE)
Apr-2015

Prepared by: SSW Checked by: DW Figure: 9



Base Map Source: Terramark Land Surveying, Inc. (6/5/2012)

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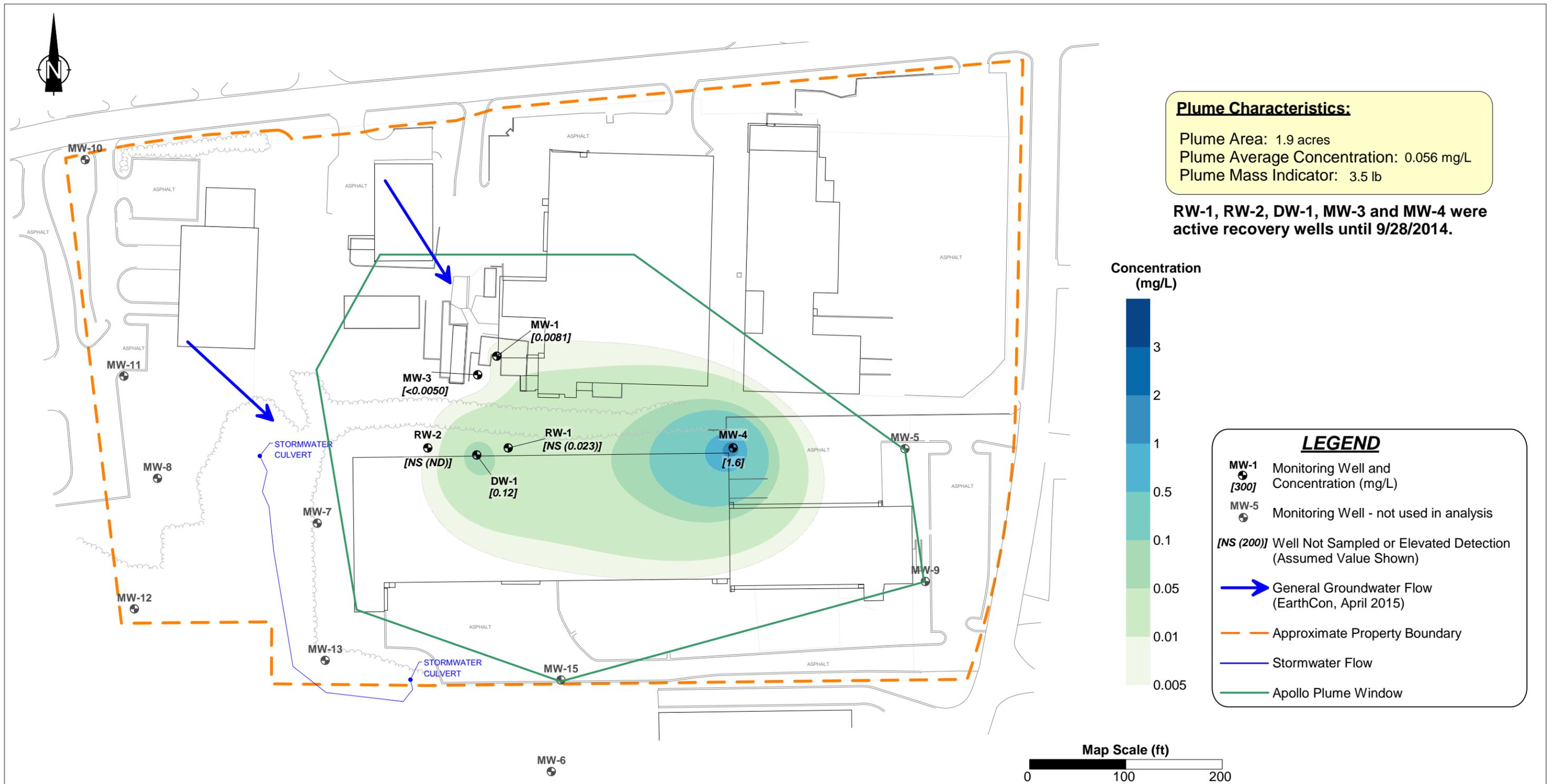
Project Number: 02.20140391.00



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Apollo Plume
cis-1,2-Dichloroethene
(cis-1,2-DCE)
Apr-2015

Prepared by: SSW Checked by: DW Figure: 10



Base Map Source: Terramark Land Surveying, Inc. (6/5/2012)

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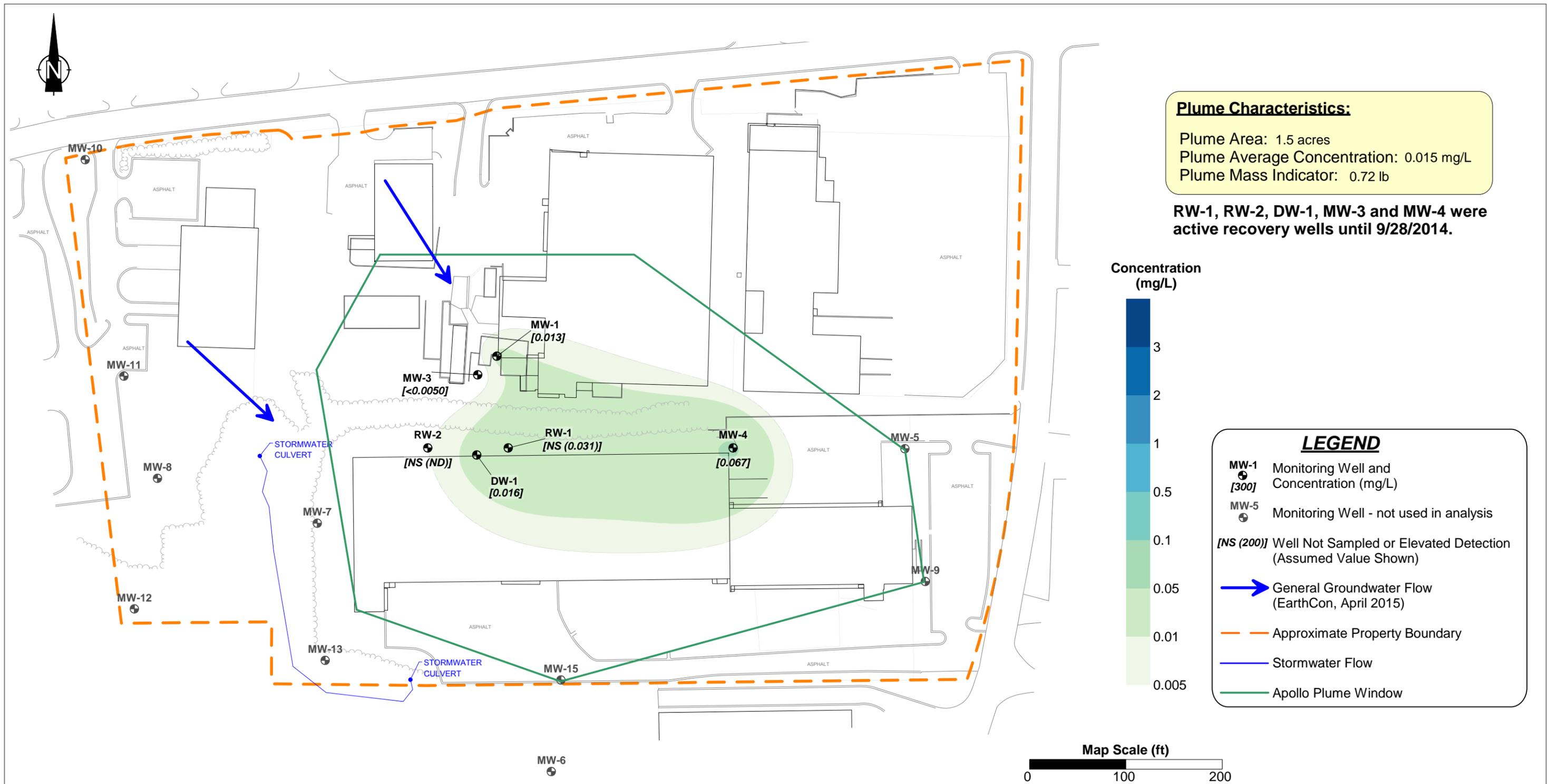
Project Number: 02.20140391.00



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**Apollo Plume
 Tetrachloroethene (PCE)
 Apr-2015**

Prepared by: SSW Checked by: DW Figure: 11



Base Map Source: Terramark Land Surveying, Inc. (6/5/2012)

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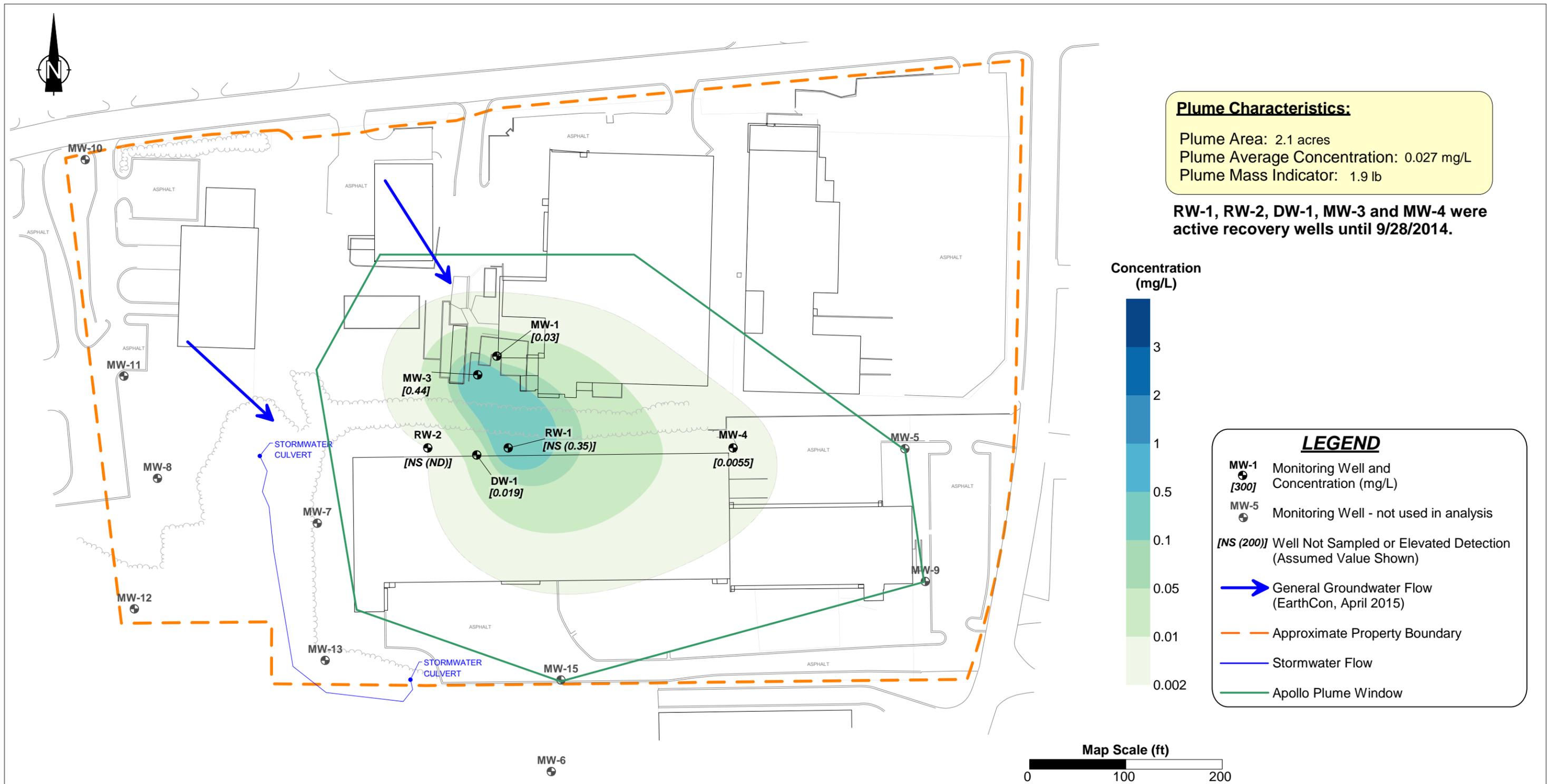
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**Apollo Plume
 Trichloroethene (TCE)
 Apr-2015**

Prepared by: SSW Checked by: DW Figure: 12



Base Map Source: Terramark Land Surveying, Inc. (6/5/2012)

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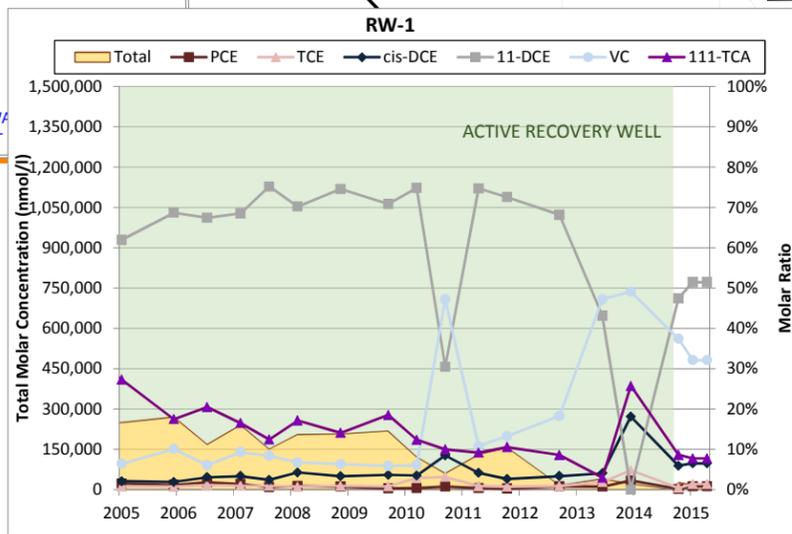
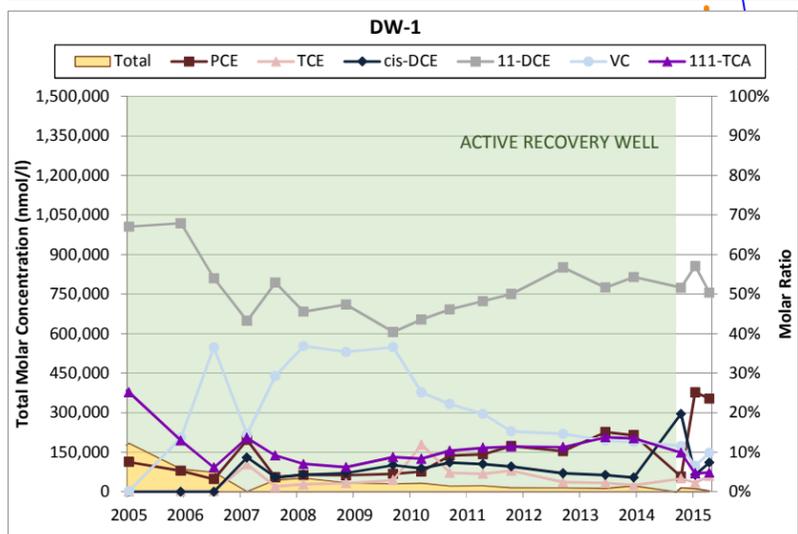
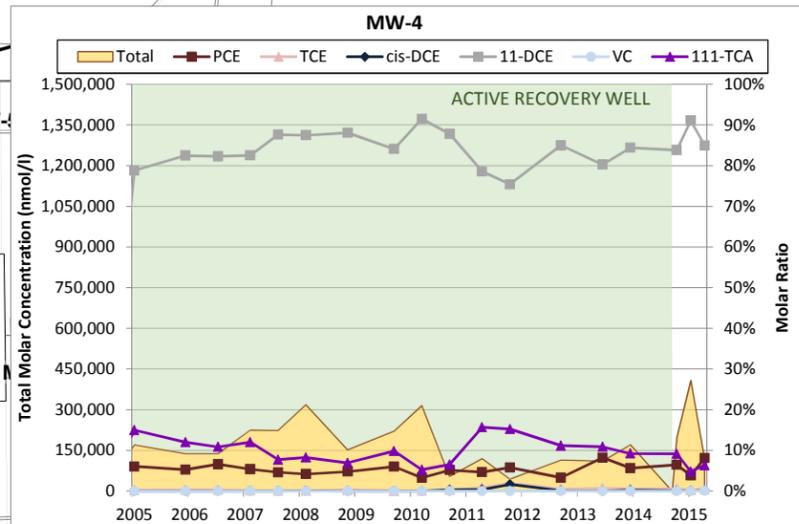
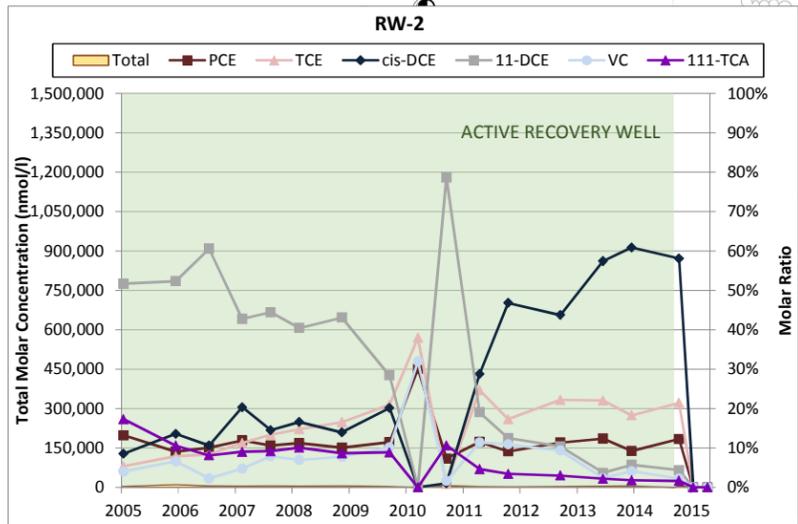
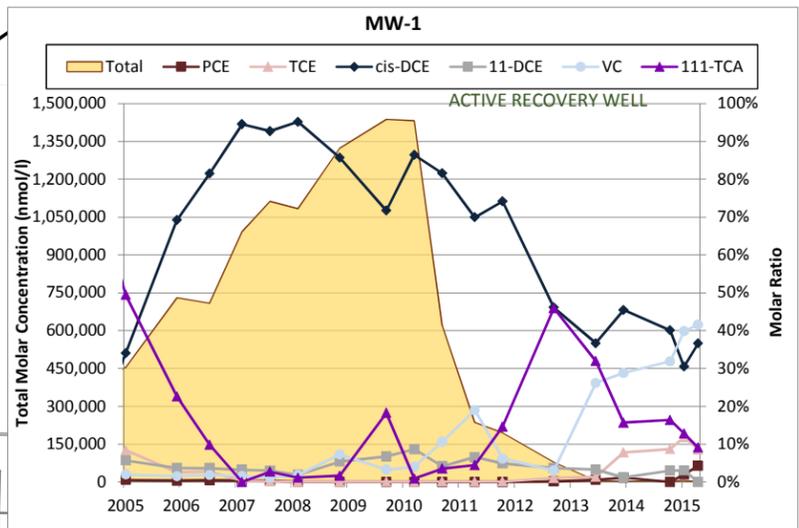
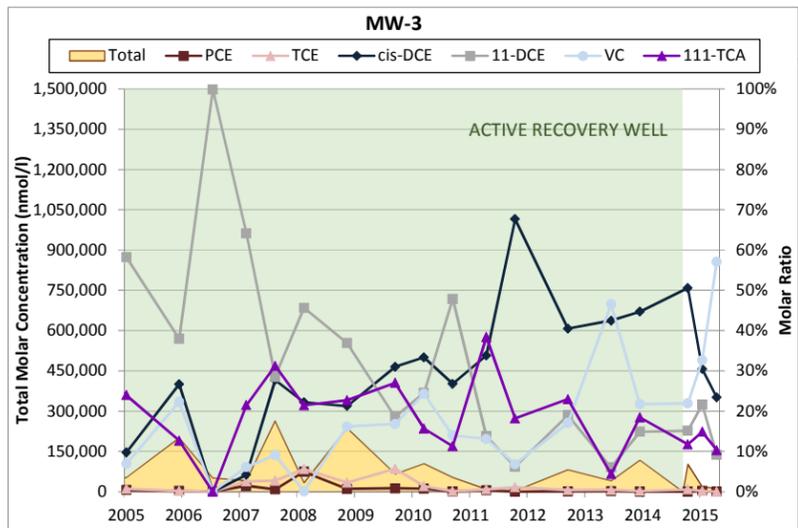
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 Marietta, Georgia 30062

**Apollo Plume
 Vinyl Chloride (VC)
 Apr-2015**

Project Number: 02.20140391.00

Prepared by: SSW Checked by: DW Figure: 13

Apollo Plume Difference Map (January 2005 vs. April 2015)



EXPLANATION
 BLUE SHADING INDICATES AREAS OF CONCENTRATION DECREASE
 RED SHADING INDICATES AREAS OF CONCENTRATION INCREASE
 - - - - - January 2005 Plume Boundary
 - - - - - April 2015 Plume Boundary



Base Map Source: Terramark Land Surveying, Inc. (6/5/2012)

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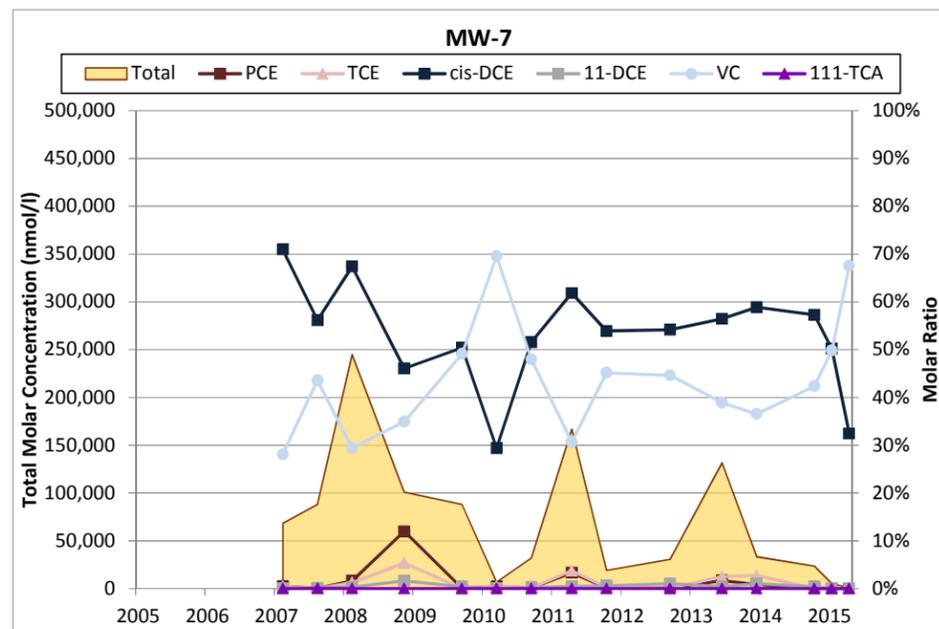
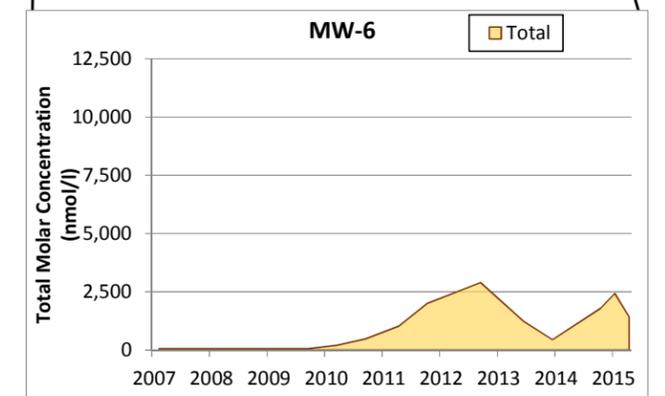
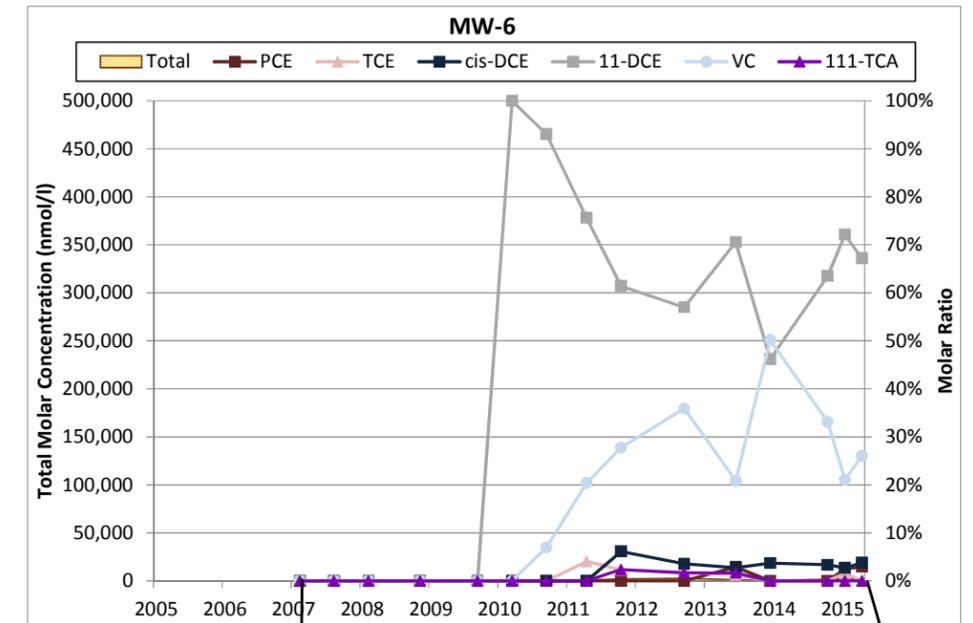
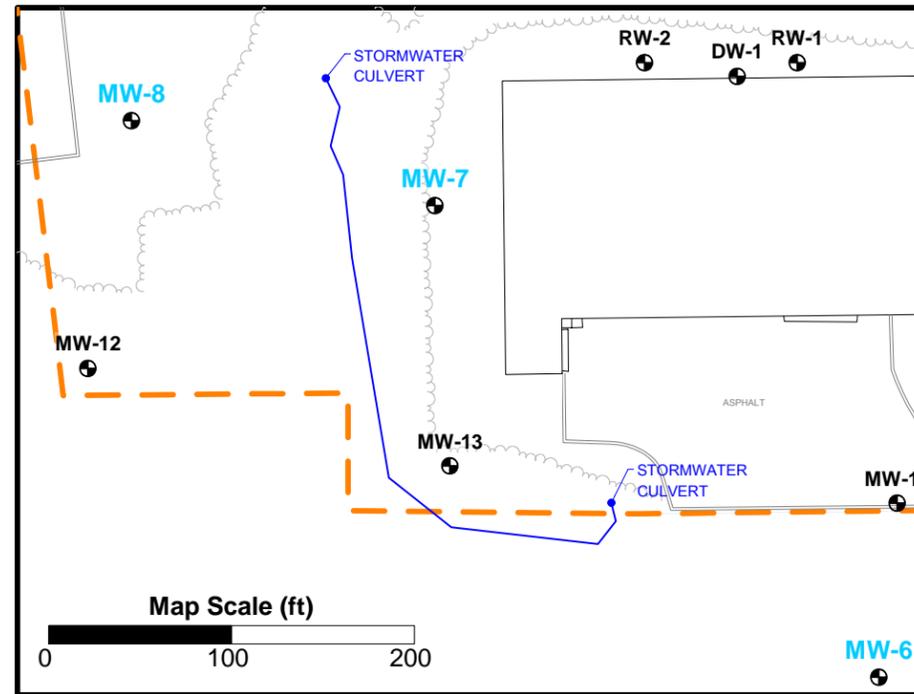
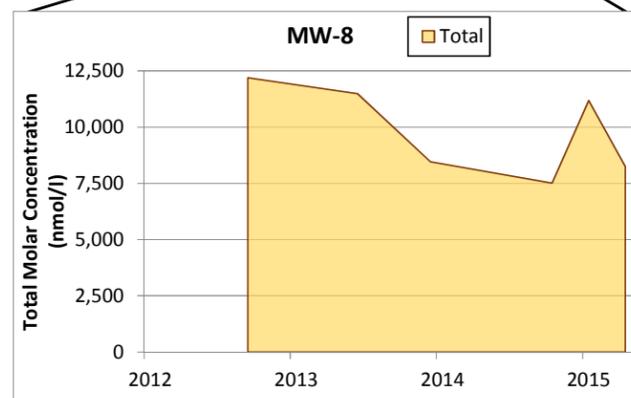
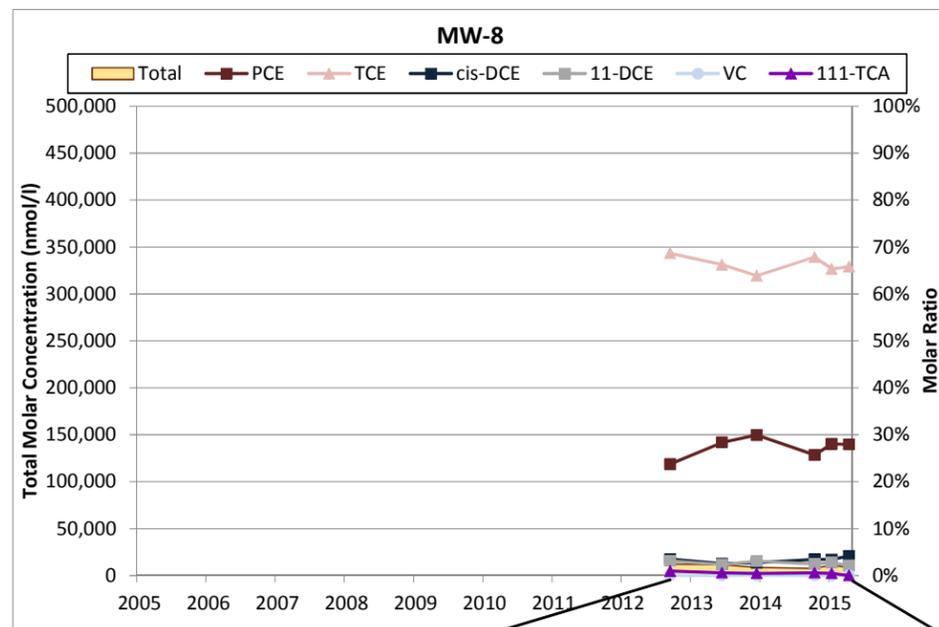
Project Number: 02.20140391.00



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Total CVOC Molar Analysis Summary and Trends Apollo Plume Area

Prepared by: SSW Checked by: DW Figure: 14



Apollo Industries, Inc.
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Project Number: 02.20140391.00

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**Total CVOC Molar Analysis
 Summary and Trends
 MW-6, MW-7, MW-8**

Prepared by: SSW Checked by: DW Figure: 15

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APPENDICES

APPENDIX A
SUMMARY OF FIELD PROCEDURES

APPENDIX A: SUMMARY OF FIELD PROCEDURES

Sampling events were conducted in October 2014, November 2014, January 2015, and April 2015 at the Apollo Smyrna facility. The field activities are described in the following sections. Laboratory analytical reports are provided in Appendix C. Groundwater sampling field forms are provided in Appendix D.

GROUNDWATER SAMPLING

Targeted sampling events were conducted in October 2014 and January 2015. Samples were collected from 11 monitoring wells including: RW-1, RW-2, DW-1, MW-1, MW-3, MW-4, MW-6, MW-7, MW-8, MW-9, and MW-13. A site wide sampling event was conducted in April 2015. All the monitoring wells, with the exception of RW-1 and RW-2, were sampled. Heavy rainfall occurred during the April 2015 monitoring event. RW-1 was submerged in a pool of surface water that had collected in that area. Water was present inside the vault for RW-2. As the water was bailed out of the RW-2 vault it continued to seep back into the vault from the surrounding saturated ground.

The groundwater sampling was conducted in general accordance with the United States Environmental Protection Agency (USEPA) Region 4 Science and Ecosystem Support Division (SESD) Operating Procedure (OP) for *Groundwater Sampling* (SESDPROC-301-R3, March 2013). Prior to sampling, water level measurements were collected from each well and water quality parameters were measured (with the exception of RW-1 and RW-2 during the April 2015 sampling event). Water level measurements are presented in Table 2. The field parameters measured at the time of groundwater sampling are presented in Table 3.

Sample Containers

The laboratory provided sample containers that met the sampling requirements of the event. The laboratory verified the cleanliness of each batch of containers prior to use. The laboratory supplied the necessary preservation solutions and shipped these with the sample containers.

The field sampler took responsibility for identifying properly the exact location of each sample taken; and for recording the date upon which it was obtained, the type of sample, the preservative used, and the applicable project number. This information was documented in the field book/field form. This same information was then placed on the sample identification label and the chain-of-custody record. Sample labels were filled out with indelible ink. If the field sampler determined that additional information was pertinent to a sample, such data was recorded in the field log/field form.

Groundwater Level Measurement

Prior to well sampling, depth to groundwater and total well depth were measured using an electronic tape or water level indicator. A fixed point was marked with an indelible marker on

each well to serve as a reference point for measurement. Depths were measured to the nearest 0.01 foot and recorded on the field sheet. The tape was cleaned with phosphate-free laboratory detergent and water, and rinsed with distilled water prior to each use.

Well Purging

The monitoring wells were purged using a modified low flow/low volume method with a peristaltic or bladder pump and dedicated, disposable, Teflon-lined tubing. The pumps were decontaminated before use and between each well. The groundwater parameters of temperature, pH, specific conductivity, dissolved oxygen (DO), oxidation-reduction potential (ORP), turbidity, and ferrous iron were measured during purging, as shown in Tables 3 and 6.

Purging continued until a minimum of three consecutive stable readings were measured with five-minute intervals between readings. The turbidity criterion of 10 NTUs was met for most wells with the exception of MW-6 during the October 2014 event, RW-2 during the January 2015 event, and DW-1, MW-2, MW-3, MW-6 and MW-8 during the April 2015 event. Pumping rates were reduced as much as possible to reduce the amount of drawdown in the wells. After purging began, drawdown stabilized and was generally less than 0.33 feet for the majority of the wells.

Purging was considered complete after the depth to water and water quality parameters stabilized. Purge water from the wells was temporarily placed in 5-gallon buckets and emptied into the facility's waste water storage container. Additional information regarding the purging and sampling activities including the volume of water in each well, purge rate, and depth to water during the purge process are provided in the field sampling forms (Appendix D).

Groundwater Sampling and Analysis

Groundwater samples were collected after the water level in the well stabilized and after the pH and specific conductance measurements stabilized. The groundwater samples were placed in laboratory supplied pre-preserved containers. The containers were labeled, placed in a cooler on ice, and transported to Analytical Environmental Services, Inc. (AES), a NELAC-certified laboratory located in Norcross, Georgia and analyzed for volatile organic compounds (VOCs) by EPA Method 8260B. A summary of groundwater analytical results is presented in Table 5. The samples were also analyzed for monitored natural attenuation (MNA) parameters including total organic carbon (TOC), alkalinity, sulfide, chloride, nitrate, sulfate, ethane, ethylene, and methane, as shown in Table 6. In addition, ferrous iron was measured as a field parameter and is also shown in Table 6.

Decontamination Procedures

Decontamination procedures consisted of the use of dedicated, disposable tubing at each sampling location. Equipment such as the water level indicator, field measurement instrumentation, and sampling pumps were cleaned with phosphate-free laboratory detergent and rinsed with distilled water in general accordance with the EPA SESD OP for *Field Equipment*

Cleaning and Decontamination (SESDPROC-205-R2, December 2011). The equipment was allowed to air dry. Nitrile gloves were also worn and changed between each sampling location.

Equipment Calibration

Equipment used to perform field testing on groundwater samples included an YSI 556 with flow thru cell and a Scientific Micro TPW, HF Scientific, or Hach turbidity meter to measure pH, specific conductivity, temperature, and turbidity. Equipment calibration was verified on a daily basis.

Field Sampling Forms

Field personnel maintained a permanently bound, water resistant field notebook. Field activities were recorded with indelible ink. Additionally, sampling field forms were completed for each sample. The notebook, sampling forms, and chain-of-custody records contain sufficient information to allow reconstruction of the sample collection and handling procedures at a later time.

Chain-of-Custody

Sample custody was documented from the time of sample collection when the labeled sample was placed into an iced cooler in the possession of the sampling technician. A corresponding line item on the chain-of-custody record was filled out and initialed by the sampling technician. The chain-of-custody record is used to track custody of samples during transport and shipping. Upon completion of appropriate line items, or upon sample pick-up, the field representative signed, dated, listed the time, and confirmed the completeness of descriptive information contained on the form. The chain-of-custody form accompanied the samples and terminated upon laboratory receipt of samples. All entries were recorded in ink. Each sample had a corresponding entry on a chain-of-custody record.

Analytical Procedures and QA/QC

The groundwater samples were transported to AES in Atlanta, Georgia under chain-of-custody protocol. The samples were analyzed for VOCs by EPA Method 8260B. Quality control samples, consisting of blind duplicates, trip blanks, and laboratory method blanks were also collected and analyzed.

SOIL INVESTIGATION

During the November 2014 sampling event, 16 soil samples were collected from 6 soil borings inside the Closed Batch Room Sump Area and Production Building Slab inside the Facility. The soil borings (MW-16, SB-1 through SB-5) were installed using direct push technology at locations shown on Figure 2. Continuous soil cores were collected in five-foot acetate sleeves and soil samples were collected from multiple depth intervals at each boring location. To

determine sampling depth intervals, the soil cores were screened with a photoionization detector (PID). If the PID readings were inconclusive, the soil depth intervals were determined based on previous analytical data or based on visual observation of the soil core. Soil samples from throughout the soil column were collected. Soil sample depths are shown on the boring logs presented in Appendix B.

Soil samples were collected consistent with EPD guidance and in general accordance with the EPA SESD OP for *Soil Sampling* (SESDPROC-300-R3, August 2014). Approximately five grams of soil was collected for each sample from a specific depth interval of each boring from the sleeve using a dedicated syringe and placed in 40 milliliter (ml) pre-prepared vials. The vials were labeled and placed in a cooler on ice. Samples were delivered to AES and analyzed for VOCs using EPA Method 8260B. A summary of soil analytical results is presented in Table 4.

After soil sample collection, the soil borings were backfilled with bentonite and patched with concrete. Investigation derived waste (IDW) generated during soil boring activities was placed in 55-gallon drums, labeled, and staged near the facility's loading dock.

SURFACE WATER AND SEDIMENT SAMPLING

On April 9, 2015, surface water samples were collected at locations SW-1 and SW-2 and sediment sample SED-2 was collected at sample location SW-2. The sample locations are shown on Figure 3. Surface water sampling was conducted in general accordance with the EPA SESD OP for *Surface Water Sampling* (SESDPROC-201-R3, February 2013). Each sample was collected by dipping a clean, dedicated Teflon® bottle into the creek while facing upstream and without disturbing the stream bed. With as little agitation as possible, the surface water samples were decanted from the Teflon bottle into pre-preserved 40 ml glass vials with Teflon septa. The vials were labeled, placed in a cooler on ice and transported to AES where they were analyzed for VOCs using EPA Method 8260B. Surface water analytical results are presented in Section 3.2.

Sediment sampling was conducted in general accordance with the EPA SESD OP for *Sediment Sampling* (SESDPROC-200-R3, August 2014). Sediment was collected from the sample location using a dedicated stainless steel scoop. Approximately five grams of sediment was collected from the scoop using a dedicated syringe and placed in 40-ml pre-prepared vials. Samples were placed in a cooler on ice and delivered to AES. The sediment sample was analyzed for VOCs using EPA Method 8260B. Sediment analytical results are presented in Section 3.2.

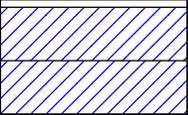
APPENDIX B
SOIL BORING LOGS

BORING LOG

BORING NO.: SB-1

TOTAL DEPTH: 3'

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	Apollo Industries, Inc.	DRILLING CO.:	EMServices
SITE LOCATION:	Apollo Industries, Inc. Smyrna, GA	DRILLING METHOD:	Direct Push
JOB NO.:	02.20140391.00	DATE:	11/1/2014
PROJECT MANAGER:	K. Rivera	GPS LOCATION	ACCURACY: N/A
LOGGED BY:	K. Davis	LAT.: Not Measured	LONG.: Not Measured

DEPTH (FEET)	LITHOLOGIC SYMBOLS	USCS	SOIL DESCRIPTION	ANALYTICAL		PID (ppm)
				DEPTH	SAMPLE ID	
0			CONCRETE			
-1		CL	SILTY CLAY: Red tan silty clay with rock fragments (fill)		SB-1: 1-1.5'	74
-2			SILTY CLAY: Brown, tan, and gray silty clay with sandy silt and rock fragments		SB-1: 2-2.5'	
-3						

BORING LOG

BORING NO.: SB-2

TOTAL DEPTH: 3.8'

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	Apollo Industries, Inc.	DRILLING CO.:	EMServices
SITE LOCATION:	Apollo Industries, Inc. Smyrna, GA	DRILLING METHOD:	Direct Push
JOB NO.:	02.20140391.00	DATE:	11/1/2014
PROJECT MANAGER:	K. Rivera	GPS LOCATION	ACCURACY: N/A
LOGGED BY:	K. Davis	LAT.: Not Measured	LONG.: Not Measured

DEPTH (FEET)	LITHOLOGIC SYMBOLS	USCS	SOIL DESCRIPTION	ANALYTICAL		PID (ppm)
				DEPTH	SAMPLE ID	
0						
-1		CL	CONCRETE			8
-2		SM	SILTY CLAY: Red, tan, gray micaceous silty clay with rock fragments (fill)		SB-2: 1.5-2.0'	
-3					SB-2: 3.5-4.0'	
-4						

BORING LOG

BORING NO.: SB-3

TOTAL DEPTH: 3.5'

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	Apollo Industries, Inc.	DRILLING CO.:	EMServices
SITE LOCATION:	Apollo Industries, Inc. Smyrna, GA	DRILLING METHOD:	Direct Push
JOB NO.:	02.20140391.00	DATE:	11/1/2014
PROJECT MANAGER:	K. Rivera	GPS LOCATION	ACCURACY: N/A
LOGGED BY:	K. Davis	LAT.: Not Measured	LONG.: Not Measured

DEPTH (FEET)	LITHOLOGIC SYMBOLS	USCS	SOIL DESCRIPTION	ANALYTICAL		PID (ppm)
				DEPTH	SAMPLE ID	
0						
-1		CL	CONCRETE		SB-3: 1-1.5'	3
-2		SM	SILTY CLAY: Red, tan, gray micaceous silty clay		SB-3: 2-2.5'	
-3			SILTY SAND: Silty sand mixed with Gray PWR and relic structures			

BORING LOG

BORING NO.: SB-4

TOTAL DEPTH: 25'

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	Apollo Industries, Inc.	DRILLING CO.:	EMServices
SITE LOCATION:	Apollo Industries, Inc. Smyrna, GA	DRILLING METHOD:	Direct Push
JOB NO.:	02.20140391.00	DATE:	11/1/2014
PROJECT MANAGER:	K. Rivera	GPS LOCATION	ACCURACY: N/A
LOGGED BY:	K. Davis	LAT.: Not Measured	LONG.: Not Measured

DEPTH (FEET)	LITHOLOGIC SYMBOLS	USCS	SOIL DESCRIPTION	ANALYTICAL		PID (ppm)
				DEPTH	SAMPLE ID	
0						
-1		CL	CONCRETE			
-2			SILTY CLAY: Red tan micaceous silty clay		SB-4: 1.5-2.0'	
-3			SILTY SAND: Tan gray micaceous silty sand with relic structures		SB-4: 3.5-4.0'	
-4						
-5						
-6						
-7					SB-4: 7-7.5'	
-8						
-9						
-10						
-11						
-12						
-13						
-14		SM			SB-4: 14-14.5'	
-15						
-16						
-17						
-18						
-19						
-20						
-21						
-22						
-23						
-24						
-25						

BORING LOG

BORING NO.: SB-5

TOTAL DEPTH: 20'

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	Apollo Industries, Inc.	DRILLING CO.:	EMServices
SITE LOCATION:	Apollo Industries, Inc. Smyrna, GA	DRILLING METHOD:	Direct Push
JOB NO.:	02.20140391.00	DATE:	11/1/2014
PROJECT MANAGER:	K. Rivera	GPS LOCATION	ACCURACY: N/A
LOGGED BY:	K. Davis	LAT.: Not Measured	LONG.: Not Measured

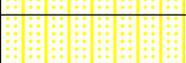
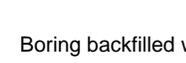
DEPTH (FEET)	LITHOLOGIC SYMBOLS	USCS	SOIL DESCRIPTION	ANALYTICAL		PID (ppm)
				DEPTH	SAMPLE ID	
0			CONCRETE			
-1		CL	SILTY CLAY: Red tan micaceous silty clay		SB-5: 1-1.5'	
-2						
-3			SILTY SAND: Tan gray micaceous silty sand with relic structures			
-4						
-5						
-6						
-7						
-8					SB-5: 7-7.5'	
-9						
-10						
-11		SM				
-12						
-13						
-14					SB-5: 14-14.5'	
-15						
-16						
-17						
-18					SB-5: 18-18.5'	
-19						
-20			SILTY SAND: Boring terminated at 20'			

BORING LOG

BORING NO.: MW-16

TOTAL DEPTH: 27.5'

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	Apollo Industries, Inc.	DRILLING CO.:	EMServices
SITE LOCATION:	Apollo Industries, Inc. Smyrna, GA	DRILLING METHOD:	Direct Push
JOB NO.:	02.20140391.00	DATE:	11/1/2014
PROJECT MANAGER:	K. Rivera	GPS LOCATION	ACCURACY: N/A
LOGGED BY:	K. Davis	LAT.: Not Measured	LONG.: Not Measured

DEPTH (FEET)	LITHOLOGIC SYMBOLS	USCS	SOIL DESCRIPTION	ANALYTICAL		PID (ppm)
				DEPTH	SAMPLE ID	
0						
-1		CL	CONCRETE		MW-16 0-1'	4
-2			SILTY CLAY: Red micaceous silty clay with rock fragments			4
-3			SILTY SAND: Red micaceous silty sand with rock fragments			4
-4			SILTY SAND: Gray white silty sand with rock fragments			
-5			SILTY SAND: PWR mixed with tan gray silty sand and rock fragments			
-6			SILTY SAND: Soil too hard to perform direct push, continued with solid stem; Dry and hard tan/brown silty sand with rock fragments			
-7						
-8						
-9						
-10						
-11						
-12						
-13						
-14		SM				
-15						
-16						
-17						
-18						
-19						
-20						
-21						
-22						
-23						
-24						
-25						
-26						
-27			Refusal, dry, no well installed			

APPENDIX C
LABORATORY ANALYTICAL REPORTS

SOIL LABORATORY ANALYTICAL REPORTS



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

April 29, 2015

Kristen Rivera
EarthCon Consultants, Inc.
1880 West Oak Parkway
Marietta GA 30062

TEL: (770) 973-2100
FAX: (770) 973-7395

RE: Apollo

Dear Kristen Rivera:

Order No: 1411027

Analytical Environmental Services, Inc. received 16 samples on 11/1/2014 1:47:00 PM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/14-06/30/15.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/15.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Chantelle Kanhai
Project Manager



3080 Presidential Drive, Atlanta GA 30340-3704

TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

Date: 11/11/14 Page 1 of 2

COMPANY: Kaiser Co. Consultants, Inc		ADDRESS: 1800 West Oak Ridge Bldg 100 STE 100 Marietta, GA 30062			ANALYSIS REQUESTED					Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.		No # of Containers
PHONE: 770-973-2100		FAX: 770-973-7395			PRESERVATION (See codes)					REMARKS		
SAMPLED BY: K. Davis		SIGNATURE: <i>Kristen Rivera</i>										
#	SAMPLE ID	SAMPLED		Grab	Composite	Matrix (See codes)						
		DATE	TIME									
1	MW-16 0-1'	11/11/14	0900	X			1					
2	SB-1 2-2.5'		1045	X			3					
3	SB-1 1-1.5'		1055	X			3					
4	SB-2 1.5-2.0		1106	X			3					
5	SB-2 3.5-4.0		1115	X			3					
6	SB-3 1.0-1.5'		1130	X			3					
7	SB-3 2.0-2.5'		1135	X			3					
8	SB-4 1.5-2.0		1200	X			3					
9	SB-4 3.5-4.0		1203	X			3					
10	SB-4 7.0-7.5		1205	X			3					
11	BP-1		-	X			3					
12	SB-4 14-14.5'		1215	X			3					
13	SB-5 1-1.5'		1245	X			3					
14	SB-5 7-7.5'		1248	X			3					
RELINQUISHED BY		DATE/TIME	RECEIVED BY		DATE/TIME	PROJECT INFORMATION					RECEIPT	
1: Kristen Rivera		11/11/14	1: <i>Kristen Rivera</i>		11/11/14	PROJECT NAME: Apollo					Total # of Containers	
2:			2:		1:47	PROJECT #: 02-20140391					Turnaround Time Request	
3:			3:			SITE ADDRESS:					Standard 5 Business Days	
SPECIAL INSTRUCTIONS/COMMENTS:		SHIPMENT METHOD				SEND REPORT TO: Kristen Rivera					2 Business Day Rush	
		OUT / / VIA:				INVOICE TO:					Next Business Day Rush	
		IN / / VIA:				(IF DIFFERENT FROM ABOVE)					Same Day Rush (auth req.)	
		CLIENT FedEx UPS MAIL COURIER				QUOTE #:					Other	
		GREYHOUND OTHER				PO#:					STATE PROGRAM (if any):	
											E-mail? Y/N; Fax? Y/N	
											DATA PACKAGE: I II III IV	

SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY. IF TURNAROUND TIME IS NOT INDICATED, AES WILL PROCEED WITH STANDARD TAT OF SAMPLES. SAMPLES ARE DISPOSED 30 DAYS AFTER REPORT COMPLETION UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water

PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None



ANALYTICAL ENVIRONMENTAL SERVICES, INC

3080 Presidential Drive, Atlanta GA 30340-3704

AES TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1411027

Date: 11/1/14 Page 2 of 2

COMPANY: <u>EARTHCON CONSULTANTS, Inc</u>		ADDRESS: <u>1800 WEST OAK PKWAY Bldg 100 STE 106 MARIETTA, GA 30062</u>		ANALYSIS REQUESTED				Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.		No # of Containers
PHONE: <u>770-973-2100</u>		FAX: <u>770-973-7395</u>								
SAMPLED BY: <u>R. JAVIS</u>		SIGNATURE: <u>[Signature]</u>		PRESERVATION (See codes)				REMARKS		
#	SAMPLE ID	DATE	TIME							
1	<u>SB-5 14-145'</u>	<u>11/1/14</u>	<u>1252</u>	<u>X</u>			<u>3</u>			
2	<u>SB-5 18-185'</u>	<u>↓</u>	<u>1255</u>	<u>X</u>			<u>3</u>			
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										

RELINQUISHED BY		DATE/TIME		RECEIVED BY		DATE/TIME		PROJECT INFORMATION		RECEIPT	
<u>Kristen Rivera</u>		<u>11/1/14</u>		<u>[Signature]</u>		<u>11/1/14</u>		<u>Apollo</u>		Total # of Containers	
2:				2:		<u>1:47</u>		PROJECT #: <u>02.20140391</u>		<input checked="" type="checkbox"/> Turnaround Time Request <input type="checkbox"/> Standard 5 Business Days <input type="checkbox"/> 2 Business Day Rush <input type="checkbox"/> Next Business Day Rush <input type="checkbox"/> Same Day Rush (auth req.) <input type="checkbox"/> Other _____	
3:				3:				SITE ADDRESS:			
								SEND REPORT TO: <u>Kristen Rivera</u>			
SPECIAL INSTRUCTIONS/COMMENTS:				SHIPMENT METHOD				INVOICE TO:			
				OUT / / VIA: IN / / VIA: CLIENT FedEx UPS MAIL COURIER GREYHOUND OTHER _____				(IF DIFFERENT FROM ABOVE)			
								QUOTE #: _____ PO#: _____			

SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY. IF TURNAROUND TIME IS NOT INDICATED, AES WILL PROCEED WITH STANDARD TAT OF SAMPLES. SAMPLES ARE DISPOSED 30 DAYS AFTER REPORT COMPLETION UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water
 PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

Client: EarthCon Consultants, Inc.

Project: Apollo

Lab ID: 1411027

Case Narrative

Volatiles Organic Compounds Analysis by Method 8260B:

Due to sample matrix, sample 1411027-003 required dilution during preparation and/or analysis resulting in elevated reporting limits.

Methylene Chloride value for sample 1411027-002 is "E" qualified indicating an estimated value over linear calibration range. Sample was diluted and reanalyzed with analyte being below reporting limit.

Client: EarthCon Consultants, Inc.	Client Sample ID: MW-16 0-1'
Project Name: Apollo	Collection Date: 11/1/2014 9:00:00 AM
Lab ID: 1411027-001	Matrix: Soil

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B						(SW5035)			
Methylene chloride	3.2	J	0.51	17	ug/Kg	198696	1	11/04/2014 12:35	MD
o-Xylene	BRL		0.27	4.2	ug/Kg	198696	1	11/04/2014 12:35	MD
Styrene	BRL		0.35	4.2	ug/Kg	198696	1	11/04/2014 12:35	MD
Tetrachloroethene	17		0.35	4.2	ug/Kg	198696	1	11/04/2014 12:35	MD
Toluene	BRL		0.89	4.2	ug/Kg	198696	1	11/04/2014 12:35	MD
trans-1,2-Dichloroethene	BRL		0.54	4.2	ug/Kg	198696	1	11/04/2014 12:35	MD
trans-1,3-Dichloropropene	BRL		0.33	4.2	ug/Kg	198696	1	11/04/2014 12:35	MD
Trichloroethene	8.4		0.61	4.2	ug/Kg	198696	1	11/04/2014 12:35	MD
Trichlorofluoromethane	BRL		0.84	4.2	ug/Kg	198696	1	11/04/2014 12:35	MD
Vinyl chloride	BRL		0.71	8.4	ug/Kg	198696	1	11/04/2014 12:35	MD
Surr: 4-Bromofluorobenzene	93		0	70-128	%REC	198696	1	11/04/2014 12:35	MD
Surr: Dibromofluoromethane	96.1		0	78.2-128	%REC	198696	1	11/04/2014 12:35	MD
Surr: Toluene-d8	93.9		0	76.5-116	%REC	198696	1	11/04/2014 12:35	MD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed

- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Client: EarthCon Consultants, Inc.	Client Sample ID: SB-1 2-2.5'
Project Name: Apollo	Collection Date: 11/1/2014 10:45:00 AM
Lab ID: 1411027-002	Matrix: Soil

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5035)					
1,1,1-Trichloroethane	2500		22	230	ug/Kg	198729	50	11/07/2014 17:37	MD
1,1,2,2-Tetrachloroethane	BRL		1.1	4.3	ug/Kg	198722	1	11/05/2014 17:50	MD
1,1,2-Trichloroethane	9.9		0.52	4.3	ug/Kg	198722	1	11/05/2014 17:50	MD
1,1-Dichloroethane	450		17	230	ug/Kg	198729	50	11/07/2014 17:37	MD
1,1-Dichloroethene	190		26	180	ug/Kg	198729	50	11/07/2014 17:37	MD
1,2,4-Trichlorobenzene	BRL		0.68	4.3	ug/Kg	198722	1	11/05/2014 17:50	MD
1,2-Dibromo-3-chloropropane	BRL		0.32	4.3	ug/Kg	198722	1	11/05/2014 17:50	MD
1,2-Dibromoethane	BRL		0.37	4.3	ug/Kg	198722	1	11/05/2014 17:50	MD
1,2-Dichlorobenzene	BRL		1.3	4.3	ug/Kg	198722	1	11/05/2014 17:50	MD
1,2-Dichloroethane	7.5		0.56	4.3	ug/Kg	198722	1	11/05/2014 17:50	MD
1,2-Dichloropropane	BRL		0.35	4.3	ug/Kg	198722	1	11/05/2014 17:50	MD
1,3-Dichlorobenzene	BRL		1.5	4.3	ug/Kg	198722	1	11/05/2014 17:50	MD
1,4-Dichlorobenzene	BRL		0.43	4.3	ug/Kg	198722	1	11/05/2014 17:50	MD
2-Butanone	68		8.7	43	ug/Kg	198722	1	11/05/2014 17:50	MD
2-Hexanone	BRL		1.3	8.5	ug/Kg	198722	1	11/05/2014 17:50	MD
4-Methyl-2-pentanone	BRL		0.73	8.5	ug/Kg	198722	1	11/05/2014 17:50	MD
Acetone	740		590	460	ug/Kg	198729	50	11/07/2014 17:37	MD
Benzene	BRL		1.2	4.3	ug/Kg	198722	1	11/05/2014 17:50	MD
Bromodichloromethane	BRL		0.42	4.3	ug/Kg	198722	1	11/05/2014 17:50	MD
Bromoform	BRL		0.63	4.3	ug/Kg	198722	1	11/05/2014 17:50	MD
Bromomethane	BRL		1.4	4.3	ug/Kg	198722	1	11/05/2014 17:50	MD
Carbon disulfide	BRL		3.2	8.5	ug/Kg	198722	1	11/05/2014 17:50	MD
Carbon tetrachloride	BRL		0.55	4.3	ug/Kg	198722	1	11/05/2014 17:50	MD
Chlorobenzene	BRL		0.36	4.3	ug/Kg	198722	1	11/05/2014 17:50	MD
Chloroethane	BRL		0.37	8.5	ug/Kg	198722	1	11/05/2014 17:50	MD
Chloroform	9.5		0.37	4.3	ug/Kg	198722	1	11/05/2014 17:50	MD
Chloromethane	BRL		0.40	8.5	ug/Kg	198722	1	11/05/2014 17:50	MD
cis-1,2-Dichloroethene	76		0.46	4.3	ug/Kg	198722	1	11/05/2014 17:50	MD
cis-1,3-Dichloropropene	BRL		0.36	4.3	ug/Kg	198722	1	11/05/2014 17:50	MD
Cyclohexane	59		1.2	4.3	ug/Kg	198722	1	11/05/2014 17:50	MD
Dibromochloromethane	BRL		0.41	4.3	ug/Kg	198722	1	11/05/2014 17:50	MD
Dichlorodifluoromethane	BRL		0.63	8.5	ug/Kg	198722	1	11/05/2014 17:50	MD
Ethylbenzene	1300		19	230	ug/Kg	198729	50	11/07/2014 17:37	MD
Freon-113	25		0.62	8.5	ug/Kg	198722	1	11/05/2014 17:50	MD
Isopropylbenzene	45		0.45	4.3	ug/Kg	198722	1	11/05/2014 17:50	MD
m,p-Xylene	6600		37	230	ug/Kg	198729	50	11/07/2014 17:37	MD
Methyl acetate	BRL		0.83	4.3	ug/Kg	198722	1	11/05/2014 17:50	MD
Methyl tert-butyl ether	BRL		0.52	4.3	ug/Kg	198722	1	11/05/2014 17:50	MD
Methylcyclohexane	39		0.65	4.3	ug/Kg	198722	1	11/05/2014 17:50	MD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed

- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Client: EarthCon Consultants, Inc.	Client Sample ID: SB-1 2-2.5'
Project Name: Apollo	Collection Date: 11/1/2014 10:45:00 AM
Lab ID: 1411027-002	Matrix: Soil

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)									
Methylene chloride	560	E	0.52	17	ug/Kg	198722	1	11/05/2014 17:50	MD
o-Xylene	2500		15	230	ug/Kg	198729	50	11/07/2014 17:37	MD
Styrene	BRL		0.36	4.3	ug/Kg	198722	1	11/05/2014 17:50	MD
Tetrachloroethene	99000		390	4600	ug/Kg	198729	1000	11/10/2014 13:14	NP
Toluene	2000		48	230	ug/Kg	198729	50	11/07/2014 17:37	MD
trans-1,2-Dichloroethene	BRL		0.55	4.3	ug/Kg	198722	1	11/05/2014 17:50	MD
trans-1,3-Dichloropropene	BRL		0.33	4.3	ug/Kg	198722	1	11/05/2014 17:50	MD
Trichloroethene	3100		33	230	ug/Kg	198729	50	11/07/2014 17:37	MD
Trichlorofluoromethane	BRL		0.85	4.3	ug/Kg	198722	1	11/05/2014 17:50	MD
Vinyl chloride	BRL		0.72	8.5	ug/Kg	198722	1	11/05/2014 17:50	MD
Surr: 4-Bromofluorobenzene	113		0	70-128	%REC	198729	50	11/07/2014 17:37	MD
Surr: 4-Bromofluorobenzene	89.1		0	70-128	%REC	198722	1	11/05/2014 17:50	MD
Surr: 4-Bromofluorobenzene	89.9		0	70-128	%REC	198729	1000	11/10/2014 13:14	NP
Surr: Dibromofluoromethane	93.5		0	78.2-128	%REC	198729	50	11/07/2014 17:37	MD
Surr: Dibromofluoromethane	103		0	78.2-128	%REC	198729	1000	11/10/2014 13:14	NP
Surr: Dibromofluoromethane	118		0	78.2-128	%REC	198722	1	11/05/2014 17:50	MD
Surr: Toluene-d8	107		0	76.5-116	%REC	198729	50	11/07/2014 17:37	MD
Surr: Toluene-d8	90		0	76.5-116	%REC	198722	1	11/05/2014 17:50	MD
Surr: Toluene-d8	99.6		0	76.5-116	%REC	198729	1000	11/10/2014 13:14	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed

- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Client: EarthCon Consultants, Inc.	Client Sample ID: SB-1 1-1.5'
Project Name: Apollo	Collection Date: 11/1/2014 10:55:00 AM
Lab ID: 1411027-003	Matrix: Soil

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5035)					
1,1,1-Trichloroethane	1100		19	200	ug/Kg	198729	50	11/07/2014 23:18	MD
1,1,2,2-Tetrachloroethane	BRL		49	200	ug/Kg	198729	50	11/07/2014 23:18	MD
1,1,2-Trichloroethane	BRL		24	200	ug/Kg	198729	50	11/07/2014 23:18	MD
1,1-Dichloroethane	670		15	200	ug/Kg	198729	50	11/07/2014 23:18	MD
1,1-Dichloroethene	310		23	200	ug/Kg	198729	50	11/07/2014 23:18	MD
1,2,4-Trichlorobenzene	BRL		31	200	ug/Kg	198729	50	11/07/2014 23:18	MD
1,2-Dibromo-3-chloropropane	BRL		15	200	ug/Kg	198729	50	11/07/2014 23:18	MD
1,2-Dibromoethane	BRL		17	200	ug/Kg	198729	50	11/07/2014 23:18	MD
1,2-Dichlorobenzene	BRL		61	200	ug/Kg	198729	50	11/07/2014 23:18	MD
1,2-Dichloroethane	BRL		26	200	ug/Kg	198729	50	11/07/2014 23:18	MD
1,2-Dichloropropane	BRL		16	200	ug/Kg	198729	50	11/07/2014 23:18	MD
1,3-Dichlorobenzene	BRL		70	200	ug/Kg	198729	50	11/07/2014 23:18	MD
1,4-Dichlorobenzene	BRL		20	200	ug/Kg	198729	50	11/07/2014 23:18	MD
2-Butanone	BRL		400	2000	ug/Kg	198729	50	11/07/2014 23:18	MD
2-Hexanone	BRL		61	390	ug/Kg	198729	50	11/07/2014 23:18	MD
4-Methyl-2-pentanone	BRL		34	390	ug/Kg	198729	50	11/07/2014 23:18	MD
Acetone	BRL		510	3900	ug/Kg	198729	50	11/07/2014 23:18	MD
Benzene	BRL		56	200	ug/Kg	198729	50	11/07/2014 23:18	MD
Bromodichloromethane	BRL		20	200	ug/Kg	198729	50	11/07/2014 23:18	MD
Bromoform	BRL		29	200	ug/Kg	198729	50	11/07/2014 23:18	MD
Bromomethane	BRL		66	200	ug/Kg	198729	50	11/07/2014 23:18	MD
Carbon disulfide	BRL		150	390	ug/Kg	198729	50	11/07/2014 23:18	MD
Carbon tetrachloride	BRL		26	200	ug/Kg	198729	50	11/07/2014 23:18	MD
Chlorobenzene	BRL		17	200	ug/Kg	198729	50	11/07/2014 23:18	MD
Chloroethane	BRL		17	390	ug/Kg	198729	50	11/07/2014 23:18	MD
Chloroform	BRL		17	200	ug/Kg	198729	50	11/07/2014 23:18	MD
Chloromethane	BRL		19	390	ug/Kg	198729	50	11/07/2014 23:18	MD
cis-1,2-Dichloroethene	84	J	21	200	ug/Kg	198729	50	11/07/2014 23:18	MD
cis-1,3-Dichloropropene	BRL		16	200	ug/Kg	198729	50	11/07/2014 23:18	MD
Cyclohexane	BRL		57	200	ug/Kg	198729	50	11/07/2014 23:18	MD
Dibromochloromethane	BRL		19	200	ug/Kg	198729	50	11/07/2014 23:18	MD
Dichlorodifluoromethane	BRL		29	390	ug/Kg	198729	50	11/07/2014 23:18	MD
Ethylbenzene	260		17	200	ug/Kg	198729	50	11/07/2014 23:18	MD
Freon-113	BRL		29	390	ug/Kg	198729	50	11/07/2014 23:18	MD
Isopropylbenzene	260		21	200	ug/Kg	198729	50	11/07/2014 23:18	MD
m,p-Xylene	980		32	200	ug/Kg	198729	50	11/07/2014 23:18	MD
Methyl acetate	BRL		38	200	ug/Kg	198729	50	11/07/2014 23:18	MD
Methyl tert-butyl ether	BRL		24	200	ug/Kg	198729	50	11/07/2014 23:18	MD
Methylcyclohexane	250		30	200	ug/Kg	198729	50	11/07/2014 23:18	MD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed

- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Client: EarthCon Consultants, Inc.	Client Sample ID: SB-1 1-1.5'
Project Name: Apollo	Collection Date: 11/1/2014 10:55:00 AM
Lab ID: 1411027-003	Matrix: Soil

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B						(SW5035)			
Methylene chloride	140	J	24	790	ug/Kg	198729	50	11/07/2014 23:18	MD
o-Xylene	430		13	200	ug/Kg	198729	50	11/07/2014 23:18	MD
Styrene	BRL		16	200	ug/Kg	198729	50	11/07/2014 23:18	MD
Tetrachloroethene	25000		170	2000	ug/Kg	198729	500	11/10/2014 00:14	NP
Toluene	600		42	200	ug/Kg	198729	50	11/07/2014 23:18	MD
trans-1,2-Dichloroethene	BRL		25	200	ug/Kg	198729	50	11/07/2014 23:18	MD
trans-1,3-Dichloropropene	BRL		15	200	ug/Kg	198729	50	11/07/2014 23:18	MD
Trichloroethene	1900		29	200	ug/Kg	198729	50	11/07/2014 23:18	MD
Trichlorofluoromethane	BRL		39	200	ug/Kg	198729	50	11/07/2014 23:18	MD
Vinyl chloride	BRL		33	390	ug/Kg	198729	50	11/07/2014 23:18	MD
Surr: 4-Bromofluorobenzene	89.3		0	70-128	%REC	198729	500	11/10/2014 00:14	NP
Surr: 4-Bromofluorobenzene	101		0	70-128	%REC	198729	50	11/07/2014 23:18	MD
Surr: Dibromofluoromethane	92.4		0	78.2-128	%REC	198729	50	11/07/2014 23:18	MD
Surr: Dibromofluoromethane	99.9		0	78.2-128	%REC	198729	500	11/10/2014 00:14	NP
Surr: Toluene-d8	93.4		0	76.5-116	%REC	198729	50	11/07/2014 23:18	MD
Surr: Toluene-d8	97.8		0	76.5-116	%REC	198729	500	11/10/2014 00:14	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed

- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Client: EarthCon Consultants, Inc.	Client Sample ID: SB-2 1.5-2.0'
Project Name: Apollo	Collection Date: 11/1/2014 11:06:00 AM
Lab ID: 1411027-004	Matrix: Soil

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)									
1,1,1-Trichloroethane	BRL		0.38	4.0	ug/Kg	198787	1	11/05/2014 21:16	MD
1,1,2,2-Tetrachloroethane	BRL		1.00	4.0	ug/Kg	198787	1	11/05/2014 21:16	MD
1,1,2-Trichloroethane	BRL		0.48	4.0	ug/Kg	198787	1	11/05/2014 21:16	MD
1,1-Dichloroethane	2.6	J	0.30	4.0	ug/Kg	198787	1	11/05/2014 21:16	MD
1,1-Dichloroethene	BRL		0.46	4.0	ug/Kg	198787	1	11/05/2014 21:16	MD
1,2,4-Trichlorobenzene	BRL		0.63	4.0	ug/Kg	198787	1	11/05/2014 21:16	MD
1,2-Dibromo-3-chloropropane	BRL		0.29	4.0	ug/Kg	198787	1	11/05/2014 21:16	MD
1,2-Dibromoethane	BRL		0.34	4.0	ug/Kg	198787	1	11/05/2014 21:16	MD
1,2-Dichlorobenzene	BRL		1.2	4.0	ug/Kg	198787	1	11/05/2014 21:16	MD
1,2-Dichloroethane	BRL		0.52	4.0	ug/Kg	198787	1	11/05/2014 21:16	MD
1,2-Dichloropropane	BRL		0.32	4.0	ug/Kg	198787	1	11/05/2014 21:16	MD
1,3-Dichlorobenzene	BRL		1.4	4.0	ug/Kg	198787	1	11/05/2014 21:16	MD
1,4-Dichlorobenzene	BRL		0.40	4.0	ug/Kg	198787	1	11/05/2014 21:16	MD
2-Butanone	BRL		8.1	40	ug/Kg	198787	1	11/05/2014 21:16	MD
2-Hexanone	BRL		1.2	8.0	ug/Kg	198787	1	11/05/2014 21:16	MD
4-Methyl-2-pentanone	BRL		0.68	8.0	ug/Kg	198787	1	11/05/2014 21:16	MD
Acetone	140		10	80	ug/Kg	198787	1	11/05/2014 21:16	MD
Benzene	BRL		1.1	4.0	ug/Kg	198787	1	11/05/2014 21:16	MD
Bromodichloromethane	BRL		0.40	4.0	ug/Kg	198787	1	11/05/2014 21:16	MD
Bromoform	BRL		0.59	4.0	ug/Kg	198787	1	11/05/2014 21:16	MD
Bromomethane	BRL		1.3	4.0	ug/Kg	198787	1	11/05/2014 21:16	MD
Carbon disulfide	BRL		3.0	8.0	ug/Kg	198787	1	11/05/2014 21:16	MD
Carbon tetrachloride	BRL		0.52	4.0	ug/Kg	198787	1	11/05/2014 21:16	MD
Chlorobenzene	BRL		0.34	4.0	ug/Kg	198787	1	11/05/2014 21:16	MD
Chloroethane	BRL		0.34	8.0	ug/Kg	198787	1	11/05/2014 21:16	MD
Chloroform	BRL		0.34	4.0	ug/Kg	198787	1	11/05/2014 21:16	MD
Chloromethane	BRL		0.38	8.0	ug/Kg	198787	1	11/05/2014 21:16	MD
cis-1,2-Dichloroethene	BRL		0.43	4.0	ug/Kg	198787	1	11/05/2014 21:16	MD
cis-1,3-Dichloropropene	BRL		0.33	4.0	ug/Kg	198787	1	11/05/2014 21:16	MD
Cyclohexane	BRL		1.2	4.0	ug/Kg	198787	1	11/05/2014 21:16	MD
Dibromochloromethane	BRL		0.38	4.0	ug/Kg	198787	1	11/05/2014 21:16	MD
Dichlorodifluoromethane	BRL		0.59	8.0	ug/Kg	198787	1	11/05/2014 21:16	MD
Ethylbenzene	BRL		0.33	4.0	ug/Kg	198787	1	11/05/2014 21:16	MD
Freon-113	BRL		0.58	8.0	ug/Kg	198787	1	11/05/2014 21:16	MD
Isopropylbenzene	BRL		0.42	4.0	ug/Kg	198787	1	11/05/2014 21:16	MD
m,p-Xylene	BRL		0.65	4.0	ug/Kg	198787	1	11/05/2014 21:16	MD
Methyl acetate	BRL		0.77	4.0	ug/Kg	198787	1	11/05/2014 21:16	MD
Methyl tert-butyl ether	BRL		0.48	4.0	ug/Kg	198787	1	11/05/2014 21:16	MD
Methylcyclohexane	BRL		0.61	4.0	ug/Kg	198787	1	11/05/2014 21:16	MD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed

- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Client: EarthCon Consultants, Inc.	Client Sample ID: SB-2 1.5-2.0'
Project Name: Apollo	Collection Date: 11/1/2014 11:06:00 AM
Lab ID: 1411027-004	Matrix: Soil

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B						(SW5035)			
Methylene chloride	2.8	J	0.49	16	ug/Kg	198787	1	11/05/2014 21:16	MD
o-Xylene	BRL		0.26	4.0	ug/Kg	198787	1	11/05/2014 21:16	MD
Styrene	BRL		0.33	4.0	ug/Kg	198787	1	11/05/2014 21:16	MD
Tetrachloroethene	49		0.34	4.0	ug/Kg	198787	1	11/05/2014 21:16	MD
Toluene	BRL		0.84	4.0	ug/Kg	198787	1	11/05/2014 21:16	MD
trans-1,2-Dichloroethene	BRL		0.51	4.0	ug/Kg	198787	1	11/05/2014 21:16	MD
trans-1,3-Dichloropropene	BRL		0.31	4.0	ug/Kg	198787	1	11/05/2014 21:16	MD
Trichloroethene	BRL		0.58	4.0	ug/Kg	198787	1	11/05/2014 21:16	MD
Trichlorofluoromethane	BRL		0.80	4.0	ug/Kg	198787	1	11/05/2014 21:16	MD
Vinyl chloride	BRL		0.67	8.0	ug/Kg	198787	1	11/05/2014 21:16	MD
Surr: 4-Bromofluorobenzene	93.9		0	70-128	%REC	198787	1	11/05/2014 21:16	MD
Surr: Dibromofluoromethane	93.2		0	78.2-128	%REC	198787	1	11/05/2014 21:16	MD
Surr: Toluene-d8	92.8		0	76.5-116	%REC	198787	1	11/05/2014 21:16	MD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed

- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Client: EarthCon Consultants, Inc.	Client Sample ID: SB-2 3.5-4.0'
Project Name: Apollo	Collection Date: 11/1/2014 11:15:00 AM
Lab ID: 1411027-005	Matrix: Soil

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5035)					
1,1,1-Trichloroethane	BRL		0.47	4.9	ug/Kg	198787	1	11/05/2014 21:46	MD
1,1,2,2-Tetrachloroethane	BRL		1.2	4.9	ug/Kg	198787	1	11/05/2014 21:46	MD
1,1,2-Trichloroethane	BRL		0.59	4.9	ug/Kg	198787	1	11/05/2014 21:46	MD
1,1-Dichloroethane	BRL		0.37	4.9	ug/Kg	198787	1	11/05/2014 21:46	MD
1,1-Dichloroethene	BRL		0.56	4.9	ug/Kg	198787	1	11/05/2014 21:46	MD
1,2,4-Trichlorobenzene	BRL		0.78	4.9	ug/Kg	198787	1	11/05/2014 21:46	MD
1,2-Dibromo-3-chloropropane	BRL		0.36	4.9	ug/Kg	198787	1	11/05/2014 21:46	MD
1,2-Dibromoethane	BRL		0.42	4.9	ug/Kg	198787	1	11/05/2014 21:46	MD
1,2-Dichlorobenzene	BRL		1.5	4.9	ug/Kg	198787	1	11/05/2014 21:46	MD
1,2-Dichloroethane	BRL		0.63	4.9	ug/Kg	198787	1	11/05/2014 21:46	MD
1,2-Dichloropropane	BRL		0.39	4.9	ug/Kg	198787	1	11/05/2014 21:46	MD
1,3-Dichlorobenzene	BRL		1.7	4.9	ug/Kg	198787	1	11/05/2014 21:46	MD
1,4-Dichlorobenzene	BRL		0.49	4.9	ug/Kg	198787	1	11/05/2014 21:46	MD
2-Butanone	BRL		10.0	49	ug/Kg	198787	1	11/05/2014 21:46	MD
2-Hexanone	BRL		1.5	9.7	ug/Kg	198787	1	11/05/2014 21:46	MD
4-Methyl-2-pentanone	BRL		0.83	9.7	ug/Kg	198787	1	11/05/2014 21:46	MD
Acetone	140		12	97	ug/Kg	198787	1	11/05/2014 21:46	MD
Benzene	BRL		1.4	4.9	ug/Kg	198787	1	11/05/2014 21:46	MD
Bromodichloromethane	BRL		0.48	4.9	ug/Kg	198787	1	11/05/2014 21:46	MD
Bromoform	BRL		0.72	4.9	ug/Kg	198787	1	11/05/2014 21:46	MD
Bromomethane	BRL		1.6	4.9	ug/Kg	198787	1	11/05/2014 21:46	MD
Carbon disulfide	BRL		3.6	9.7	ug/Kg	198787	1	11/05/2014 21:46	MD
Carbon tetrachloride	BRL		0.63	4.9	ug/Kg	198787	1	11/05/2014 21:46	MD
Chlorobenzene	BRL		0.41	4.9	ug/Kg	198787	1	11/05/2014 21:46	MD
Chloroethane	BRL		0.42	9.7	ug/Kg	198787	1	11/05/2014 21:46	MD
Chloroform	BRL		0.42	4.9	ug/Kg	198787	1	11/05/2014 21:46	MD
Chloromethane	BRL		0.46	9.7	ug/Kg	198787	1	11/05/2014 21:46	MD
cis-1,2-Dichloroethene	BRL		0.52	4.9	ug/Kg	198787	1	11/05/2014 21:46	MD
cis-1,3-Dichloropropene	BRL		0.41	4.9	ug/Kg	198787	1	11/05/2014 21:46	MD
Cyclohexane	BRL		1.4	4.9	ug/Kg	198787	1	11/05/2014 21:46	MD
Dibromochloromethane	BRL		0.47	4.9	ug/Kg	198787	1	11/05/2014 21:46	MD
Dichlorodifluoromethane	BRL		0.72	9.7	ug/Kg	198787	1	11/05/2014 21:46	MD
Ethylbenzene	BRL		0.41	4.9	ug/Kg	198787	1	11/05/2014 21:46	MD
Freon-113	BRL		0.71	9.7	ug/Kg	198787	1	11/05/2014 21:46	MD
Isopropylbenzene	BRL		0.52	4.9	ug/Kg	198787	1	11/05/2014 21:46	MD
m,p-Xylene	BRL		0.79	4.9	ug/Kg	198787	1	11/05/2014 21:46	MD
Methyl acetate	BRL		0.94	4.9	ug/Kg	198787	1	11/05/2014 21:46	MD
Methyl tert-butyl ether	BRL		0.59	4.9	ug/Kg	198787	1	11/05/2014 21:46	MD
Methylcyclohexane	BRL		0.75	4.9	ug/Kg	198787	1	11/05/2014 21:46	MD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed

- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Client: EarthCon Consultants, Inc.	Client Sample ID: SB-3 1.0-1.5'
Project Name: Apollo	Collection Date: 11/1/2014 11:30:00 AM
Lab ID: 1411027-006	Matrix: Soil

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5035)					
1,1,1-Trichloroethane	12		0.42	4.4	ug/Kg	198787	1	11/05/2014 22:15	MD
1,1,2,2-Tetrachloroethane	BRL		1.1	4.4	ug/Kg	198787	1	11/05/2014 22:15	MD
1,1,2-Trichloroethane	BRL		0.53	4.4	ug/Kg	198787	1	11/05/2014 22:15	MD
1,1-Dichloroethane	30		0.33	4.4	ug/Kg	198787	1	11/05/2014 22:15	MD
1,1-Dichloroethene	6.0		0.50	4.4	ug/Kg	198787	1	11/05/2014 22:15	MD
1,2,4-Trichlorobenzene	BRL		0.69	4.4	ug/Kg	198787	1	11/05/2014 22:15	MD
1,2-Dibromo-3-chloropropane	BRL		0.32	4.4	ug/Kg	198787	1	11/05/2014 22:15	MD
1,2-Dibromoethane	BRL		0.37	4.4	ug/Kg	198787	1	11/05/2014 22:15	MD
1,2-Dichlorobenzene	BRL		1.3	4.4	ug/Kg	198787	1	11/05/2014 22:15	MD
1,2-Dichloroethane	BRL		0.57	4.4	ug/Kg	198787	1	11/05/2014 22:15	MD
1,2-Dichloropropane	BRL		0.35	4.4	ug/Kg	198787	1	11/05/2014 22:15	MD
1,3-Dichlorobenzene	BRL		1.6	4.4	ug/Kg	198787	1	11/05/2014 22:15	MD
1,4-Dichlorobenzene	BRL		0.43	4.4	ug/Kg	198787	1	11/05/2014 22:15	MD
2-Butanone	BRL		8.9	44	ug/Kg	198787	1	11/05/2014 22:15	MD
2-Hexanone	BRL		1.3	8.7	ug/Kg	198787	1	11/05/2014 22:15	MD
4-Methyl-2-pentanone	BRL		0.75	8.7	ug/Kg	198787	1	11/05/2014 22:15	MD
Acetone	120		11	87	ug/Kg	198787	1	11/05/2014 22:15	MD
Benzene	BRL		1.2	4.4	ug/Kg	198787	1	11/05/2014 22:15	MD
Bromodichloromethane	BRL		0.43	4.4	ug/Kg	198787	1	11/05/2014 22:15	MD
Bromoform	BRL		0.64	4.4	ug/Kg	198787	1	11/05/2014 22:15	MD
Bromomethane	BRL		1.5	4.4	ug/Kg	198787	1	11/05/2014 22:15	MD
Carbon disulfide	BRL		3.2	8.7	ug/Kg	198787	1	11/05/2014 22:15	MD
Carbon tetrachloride	BRL		0.57	4.4	ug/Kg	198787	1	11/05/2014 22:15	MD
Chlorobenzene	BRL		0.37	4.4	ug/Kg	198787	1	11/05/2014 22:15	MD
Chloroethane	BRL		0.38	8.7	ug/Kg	198787	1	11/05/2014 22:15	MD
Chloroform	BRL		0.37	4.4	ug/Kg	198787	1	11/05/2014 22:15	MD
Chloromethane	BRL		0.41	8.7	ug/Kg	198787	1	11/05/2014 22:15	MD
cis-1,2-Dichloroethene	BRL		0.47	4.4	ug/Kg	198787	1	11/05/2014 22:15	MD
cis-1,3-Dichloropropene	BRL		0.36	4.4	ug/Kg	198787	1	11/05/2014 22:15	MD
Cyclohexane	BRL		1.3	4.4	ug/Kg	198787	1	11/05/2014 22:15	MD
Dibromochloromethane	BRL		0.42	4.4	ug/Kg	198787	1	11/05/2014 22:15	MD
Dichlorodifluoromethane	BRL		0.64	8.7	ug/Kg	198787	1	11/05/2014 22:15	MD
Ethylbenzene	BRL		0.37	4.4	ug/Kg	198787	1	11/05/2014 22:15	MD
Freon-113	3.3	J	0.64	8.7	ug/Kg	198787	1	11/05/2014 22:15	MD
Isopropylbenzene	BRL		0.46	4.4	ug/Kg	198787	1	11/05/2014 22:15	MD
m,p-Xylene	2.3	J	0.71	4.4	ug/Kg	198787	1	11/05/2014 22:15	MD
Methyl acetate	BRL		0.84	4.4	ug/Kg	198787	1	11/05/2014 22:15	MD
Methyl tert-butyl ether	BRL		0.53	4.4	ug/Kg	198787	1	11/05/2014 22:15	MD
Methylcyclohexane	BRL		0.67	4.4	ug/Kg	198787	1	11/05/2014 22:15	MD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed

- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Client: EarthCon Consultants, Inc.	Client Sample ID: SB-3 1.0-1.5'
Project Name: Apollo	Collection Date: 11/1/2014 11:30:00 AM
Lab ID: 1411027-006	Matrix: Soil

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B						(SW5035)			
Methylene chloride	4.0	J	0.53	17	ug/Kg	198787	1	11/05/2014 22:15	MD
o-Xylene	3.9	J	0.28	4.4	ug/Kg	198787	1	11/05/2014 22:15	MD
Styrene	BRL		0.36	4.4	ug/Kg	198787	1	11/05/2014 22:15	MD
Tetrachloroethene	1500		19	220	ug/Kg	198729	50	11/07/2014 23:47	MD
Toluene	BRL		0.92	4.4	ug/Kg	198787	1	11/05/2014 22:15	MD
trans-1,2-Dichloroethene	BRL		0.56	4.4	ug/Kg	198787	1	11/05/2014 22:15	MD
trans-1,3-Dichloropropene	BRL		0.34	4.4	ug/Kg	198787	1	11/05/2014 22:15	MD
Trichloroethene	3.1	J	0.63	4.4	ug/Kg	198787	1	11/05/2014 22:15	MD
Trichlorofluoromethane	BRL		0.87	4.4	ug/Kg	198787	1	11/05/2014 22:15	MD
Vinyl chloride	BRL		0.73	8.7	ug/Kg	198787	1	11/05/2014 22:15	MD
Surr: 4-Bromofluorobenzene	87.7		0	70-128	%REC	198729	50	11/07/2014 23:47	MD
Surr: 4-Bromofluorobenzene	93.3		0	70-128	%REC	198787	1	11/05/2014 22:15	MD
Surr: Dibromofluoromethane	89.8		0	78.2-128	%REC	198729	50	11/07/2014 23:47	MD
Surr: Dibromofluoromethane	96.1		0	78.2-128	%REC	198787	1	11/05/2014 22:15	MD
Surr: Toluene-d8	86.1		0	76.5-116	%REC	198729	50	11/07/2014 23:47	MD
Surr: Toluene-d8	95.7		0	76.5-116	%REC	198787	1	11/05/2014 22:15	MD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed

- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Client: EarthCon Consultants, Inc.	Client Sample ID: SB-3 2.0-2.5'
Project Name: Apollo	Collection Date: 11/1/2014 11:35:00 AM
Lab ID: 1411027-007	Matrix: Soil

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5035)					
1,1,1-Trichloroethane	BRL		0.43	4.5	ug/Kg	198787	1	11/05/2014 22:45	MD
1,1,2,2-Tetrachloroethane	BRL		1.1	4.5	ug/Kg	198787	1	11/05/2014 22:45	MD
1,1,2-Trichloroethane	BRL		0.54	4.5	ug/Kg	198787	1	11/05/2014 22:45	MD
1,1-Dichloroethane	BRL		0.34	4.5	ug/Kg	198787	1	11/05/2014 22:45	MD
1,1-Dichloroethene	BRL		0.52	4.5	ug/Kg	198787	1	11/05/2014 22:45	MD
1,2,4-Trichlorobenzene	BRL		0.71	4.5	ug/Kg	198787	1	11/05/2014 22:45	MD
1,2-Dibromo-3-chloropropane	BRL		0.33	4.5	ug/Kg	198787	1	11/05/2014 22:45	MD
1,2-Dibromoethane	BRL		0.39	4.5	ug/Kg	198787	1	11/05/2014 22:45	MD
1,2-Dichlorobenzene	BRL		1.4	4.5	ug/Kg	198787	1	11/05/2014 22:45	MD
1,2-Dichloroethane	BRL		0.58	4.5	ug/Kg	198787	1	11/05/2014 22:45	MD
1,2-Dichloropropane	BRL		0.36	4.5	ug/Kg	198787	1	11/05/2014 22:45	MD
1,3-Dichlorobenzene	BRL		1.6	4.5	ug/Kg	198787	1	11/05/2014 22:45	MD
1,4-Dichlorobenzene	BRL		0.45	4.5	ug/Kg	198787	1	11/05/2014 22:45	MD
2-Butanone	BRL		9.2	45	ug/Kg	198787	1	11/05/2014 22:45	MD
2-Hexanone	BRL		1.4	9.0	ug/Kg	198787	1	11/05/2014 22:45	MD
4-Methyl-2-pentanone	BRL		0.77	9.0	ug/Kg	198787	1	11/05/2014 22:45	MD
Acetone	280		12	90	ug/Kg	198787	1	11/05/2014 22:45	MD
Benzene	BRL		1.3	4.5	ug/Kg	198787	1	11/05/2014 22:45	MD
Bromodichloromethane	BRL		0.45	4.5	ug/Kg	198787	1	11/05/2014 22:45	MD
Bromoform	BRL		0.66	4.5	ug/Kg	198787	1	11/05/2014 22:45	MD
Bromomethane	BRL		1.5	4.5	ug/Kg	198787	1	11/05/2014 22:45	MD
Carbon disulfide	BRL		3.3	9.0	ug/Kg	198787	1	11/05/2014 22:45	MD
Carbon tetrachloride	BRL		0.58	4.5	ug/Kg	198787	1	11/05/2014 22:45	MD
Chlorobenzene	BRL		0.38	4.5	ug/Kg	198787	1	11/05/2014 22:45	MD
Chloroethane	BRL		0.39	9.0	ug/Kg	198787	1	11/05/2014 22:45	MD
Chloroform	BRL		0.39	4.5	ug/Kg	198787	1	11/05/2014 22:45	MD
Chloromethane	BRL		0.42	9.0	ug/Kg	198787	1	11/05/2014 22:45	MD
cis-1,2-Dichloroethene	BRL		0.48	4.5	ug/Kg	198787	1	11/05/2014 22:45	MD
cis-1,3-Dichloropropene	BRL		0.37	4.5	ug/Kg	198787	1	11/05/2014 22:45	MD
Cyclohexane	BRL		1.3	4.5	ug/Kg	198787	1	11/05/2014 22:45	MD
Dibromochloromethane	BRL		0.43	4.5	ug/Kg	198787	1	11/05/2014 22:45	MD
Dichlorodifluoromethane	BRL		0.66	9.0	ug/Kg	198787	1	11/05/2014 22:45	MD
Ethylbenzene	BRL		0.38	4.5	ug/Kg	198787	1	11/05/2014 22:45	MD
Freon-113	BRL		0.65	9.0	ug/Kg	198787	1	11/05/2014 22:45	MD
Isopropylbenzene	BRL		0.48	4.5	ug/Kg	198787	1	11/05/2014 22:45	MD
m,p-Xylene	BRL		0.73	4.5	ug/Kg	198787	1	11/05/2014 22:45	MD
Methyl acetate	BRL		0.87	4.5	ug/Kg	198787	1	11/05/2014 22:45	MD
Methyl tert-butyl ether	BRL		0.54	4.5	ug/Kg	198787	1	11/05/2014 22:45	MD
Methylcyclohexane	BRL		0.69	4.5	ug/Kg	198787	1	11/05/2014 22:45	MD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed

- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Client: EarthCon Consultants, Inc.	Client Sample ID: SB-3 2.0-2.5'
Project Name: Apollo	Collection Date: 11/1/2014 11:35:00 AM
Lab ID: 1411027-007	Matrix: Soil

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B						(SW5035)			
Methylene chloride	4.0	J	0.55	18	ug/Kg	198787	1	11/05/2014 22:45	MD
o-Xylene	BRL		0.29	4.5	ug/Kg	198787	1	11/05/2014 22:45	MD
Styrene	BRL		0.37	4.5	ug/Kg	198787	1	11/05/2014 22:45	MD
Tetrachloroethene	11		0.38	4.5	ug/Kg	198787	1	11/05/2014 22:45	MD
Toluene	BRL		0.95	4.5	ug/Kg	198787	1	11/05/2014 22:45	MD
trans-1,2-Dichloroethene	BRL		0.58	4.5	ug/Kg	198787	1	11/05/2014 22:45	MD
trans-1,3-Dichloropropene	BRL		0.35	4.5	ug/Kg	198787	1	11/05/2014 22:45	MD
Trichloroethene	BRL		0.65	4.5	ug/Kg	198787	1	11/05/2014 22:45	MD
Trichlorofluoromethane	BRL		0.90	4.5	ug/Kg	198787	1	11/05/2014 22:45	MD
Vinyl chloride	BRL		0.76	9.0	ug/Kg	198787	1	11/05/2014 22:45	MD
Surr: 4-Bromofluorobenzene	94.9		0	70-128	%REC	198787	1	11/05/2014 22:45	MD
Surr: Dibromofluoromethane	96		0	78.2-128	%REC	198787	1	11/05/2014 22:45	MD
Surr: Toluene-d8	92.8		0	76.5-116	%REC	198787	1	11/05/2014 22:45	MD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed

- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Client: EarthCon Consultants, Inc.	Client Sample ID: SB-4 1.5-2.0'
Project Name: Apollo	Collection Date: 11/1/2014 12:00:00 PM
Lab ID: 1411027-008	Matrix: Soil

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5035)					
1,1,1-Trichloroethane	BRL		0.44	4.6	ug/Kg	198787	1	11/05/2014 23:14	MD
1,1,2,2-Tetrachloroethane	BRL		1.2	4.6	ug/Kg	198787	1	11/05/2014 23:14	MD
1,1,2-Trichloroethane	BRL		0.56	4.6	ug/Kg	198787	1	11/05/2014 23:14	MD
1,1-Dichloroethane	BRL		0.35	4.6	ug/Kg	198787	1	11/05/2014 23:14	MD
1,1-Dichloroethene	BRL		0.54	4.6	ug/Kg	198787	1	11/05/2014 23:14	MD
1,2,4-Trichlorobenzene	BRL		0.74	4.6	ug/Kg	198787	1	11/05/2014 23:14	MD
1,2-Dibromo-3-chloropropane	BRL		0.34	4.6	ug/Kg	198787	1	11/05/2014 23:14	MD
1,2-Dibromoethane	BRL		0.40	4.6	ug/Kg	198787	1	11/05/2014 23:14	MD
1,2-Dichlorobenzene	BRL		1.4	4.6	ug/Kg	198787	1	11/05/2014 23:14	MD
1,2-Dichloroethane	BRL		0.60	4.6	ug/Kg	198787	1	11/05/2014 23:14	MD
1,2-Dichloropropane	BRL		0.37	4.6	ug/Kg	198787	1	11/05/2014 23:14	MD
1,3-Dichlorobenzene	BRL		1.6	4.6	ug/Kg	198787	1	11/05/2014 23:14	MD
1,4-Dichlorobenzene	BRL		0.46	4.6	ug/Kg	198787	1	11/05/2014 23:14	MD
2-Butanone	BRL		9.5	46	ug/Kg	198787	1	11/05/2014 23:14	MD
2-Hexanone	BRL		1.4	9.3	ug/Kg	198787	1	11/05/2014 23:14	MD
4-Methyl-2-pentanone	BRL		0.79	9.3	ug/Kg	198787	1	11/05/2014 23:14	MD
Acetone	120		12	93	ug/Kg	198787	1	11/05/2014 23:14	MD
Benzene	BRL		1.3	4.6	ug/Kg	198787	1	11/05/2014 23:14	MD
Bromodichloromethane	BRL		0.46	4.6	ug/Kg	198787	1	11/05/2014 23:14	MD
Bromoform	BRL		0.68	4.6	ug/Kg	198787	1	11/05/2014 23:14	MD
Bromomethane	BRL		1.5	4.6	ug/Kg	198787	1	11/05/2014 23:14	MD
Carbon disulfide	BRL		3.4	9.3	ug/Kg	198787	1	11/05/2014 23:14	MD
Carbon tetrachloride	BRL		0.60	4.6	ug/Kg	198787	1	11/05/2014 23:14	MD
Chlorobenzene	BRL		0.39	4.6	ug/Kg	198787	1	11/05/2014 23:14	MD
Chloroethane	BRL		0.40	9.3	ug/Kg	198787	1	11/05/2014 23:14	MD
Chloroform	BRL		0.40	4.6	ug/Kg	198787	1	11/05/2014 23:14	MD
Chloromethane	BRL		0.44	9.3	ug/Kg	198787	1	11/05/2014 23:14	MD
cis-1,2-Dichloroethene	BRL		0.50	4.6	ug/Kg	198787	1	11/05/2014 23:14	MD
cis-1,3-Dichloropropene	BRL		0.39	4.6	ug/Kg	198787	1	11/05/2014 23:14	MD
Cyclohexane	BRL		1.3	4.6	ug/Kg	198787	1	11/05/2014 23:14	MD
Dibromochloromethane	BRL		0.45	4.6	ug/Kg	198787	1	11/05/2014 23:14	MD
Dichlorodifluoromethane	BRL		0.68	9.3	ug/Kg	198787	1	11/05/2014 23:14	MD
Ethylbenzene	BRL		0.39	4.6	ug/Kg	198787	1	11/05/2014 23:14	MD
Freon-113	BRL		0.67	9.3	ug/Kg	198787	1	11/05/2014 23:14	MD
Isopropylbenzene	BRL		0.49	4.6	ug/Kg	198787	1	11/05/2014 23:14	MD
m,p-Xylene	BRL		0.75	4.6	ug/Kg	198787	1	11/05/2014 23:14	MD
Methyl acetate	BRL		0.90	4.6	ug/Kg	198787	1	11/05/2014 23:14	MD
Methyl tert-butyl ether	BRL		0.56	4.6	ug/Kg	198787	1	11/05/2014 23:14	MD
Methylcyclohexane	BRL		0.71	4.6	ug/Kg	198787	1	11/05/2014 23:14	MD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed

- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Client: EarthCon Consultants, Inc.	Client Sample ID: SB-4 1.5-2.0'
Project Name: Apollo	Collection Date: 11/1/2014 12:00:00 PM
Lab ID: 1411027-008	Matrix: Soil

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B						(SW5035)			
Methylene chloride	3.1	J	0.57	19	ug/Kg	198787	1	11/05/2014 23:14	MD
o-Xylene	BRL		0.30	4.6	ug/Kg	198787	1	11/05/2014 23:14	MD
Styrene	BRL		0.39	4.6	ug/Kg	198787	1	11/05/2014 23:14	MD
Tetrachloroethene	BRL		0.39	4.6	ug/Kg	198787	1	11/05/2014 23:14	MD
Toluene	BRL		0.98	4.6	ug/Kg	198787	1	11/05/2014 23:14	MD
trans-1,2-Dichloroethene	BRL		0.59	4.6	ug/Kg	198787	1	11/05/2014 23:14	MD
trans-1,3-Dichloropropene	BRL		0.36	4.6	ug/Kg	198787	1	11/05/2014 23:14	MD
Trichloroethene	BRL		0.67	4.6	ug/Kg	198787	1	11/05/2014 23:14	MD
Trichlorofluoromethane	BRL		0.92	4.6	ug/Kg	198787	1	11/05/2014 23:14	MD
Vinyl chloride	BRL		0.78	9.3	ug/Kg	198787	1	11/05/2014 23:14	MD
Surr: 4-Bromofluorobenzene	95.9		0	70-128	%REC	198787	1	11/05/2014 23:14	MD
Surr: Dibromofluoromethane	93.8		0	78.2-128	%REC	198787	1	11/05/2014 23:14	MD
Surr: Toluene-d8	93.5		0	76.5-116	%REC	198787	1	11/05/2014 23:14	MD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed

- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Client: EarthCon Consultants, Inc.	Client Sample ID: SB-4 3.5-4.0'
Project Name: Apollo	Collection Date: 11/1/2014 12:03:00 PM
Lab ID: 1411027-009	Matrix: Soil

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5035)					
1,1,1-Trichloroethane	BRL		0.51	5.4	ug/Kg	198787	1	11/05/2014 23:44	MD
1,1,2,2-Tetrachloroethane	BRL		1.3	5.4	ug/Kg	198787	1	11/05/2014 23:44	MD
1,1,2-Trichloroethane	BRL		0.65	5.4	ug/Kg	198787	1	11/05/2014 23:44	MD
1,1-Dichloroethane	BRL		0.40	5.4	ug/Kg	198787	1	11/05/2014 23:44	MD
1,1-Dichloroethene	BRL		0.62	5.4	ug/Kg	198787	1	11/05/2014 23:44	MD
1,2,4-Trichlorobenzene	BRL		0.85	5.4	ug/Kg	198787	1	11/05/2014 23:44	MD
1,2-Dibromo-3-chloropropane	BRL		0.39	5.4	ug/Kg	198787	1	11/05/2014 23:44	MD
1,2-Dibromoethane	BRL		0.46	5.4	ug/Kg	198787	1	11/05/2014 23:44	MD
1,2-Dichlorobenzene	BRL		1.6	5.4	ug/Kg	198787	1	11/05/2014 23:44	MD
1,2-Dichloroethane	BRL		0.70	5.4	ug/Kg	198787	1	11/05/2014 23:44	MD
1,2-Dichloropropane	BRL		0.43	5.4	ug/Kg	198787	1	11/05/2014 23:44	MD
1,3-Dichlorobenzene	BRL		1.9	5.4	ug/Kg	198787	1	11/05/2014 23:44	MD
1,4-Dichlorobenzene	BRL		0.53	5.4	ug/Kg	198787	1	11/05/2014 23:44	MD
2-Butanone	BRL		11	54	ug/Kg	198787	1	11/05/2014 23:44	MD
2-Hexanone	BRL		1.7	11	ug/Kg	198787	1	11/05/2014 23:44	MD
4-Methyl-2-pentanone	BRL		0.92	11	ug/Kg	198787	1	11/05/2014 23:44	MD
Acetone	220		14	110	ug/Kg	198787	1	11/05/2014 23:44	MD
Benzene	BRL		1.5	5.4	ug/Kg	198787	1	11/05/2014 23:44	MD
Bromodichloromethane	BRL		0.53	5.4	ug/Kg	198787	1	11/05/2014 23:44	MD
Bromoform	BRL		0.79	5.4	ug/Kg	198787	1	11/05/2014 23:44	MD
Bromomethane	BRL		1.8	5.4	ug/Kg	198787	1	11/05/2014 23:44	MD
Carbon disulfide	BRL		4.0	11	ug/Kg	198787	1	11/05/2014 23:44	MD
Carbon tetrachloride	BRL		0.69	5.4	ug/Kg	198787	1	11/05/2014 23:44	MD
Chlorobenzene	BRL		0.45	5.4	ug/Kg	198787	1	11/05/2014 23:44	MD
Chloroethane	BRL		0.46	11	ug/Kg	198787	1	11/05/2014 23:44	MD
Chloroform	BRL		0.46	5.4	ug/Kg	198787	1	11/05/2014 23:44	MD
Chloromethane	BRL		0.51	11	ug/Kg	198787	1	11/05/2014 23:44	MD
cis-1,2-Dichloroethene	BRL		0.57	5.4	ug/Kg	198787	1	11/05/2014 23:44	MD
cis-1,3-Dichloropropene	BRL		0.45	5.4	ug/Kg	198787	1	11/05/2014 23:44	MD
Cyclohexane	BRL		1.5	5.4	ug/Kg	198787	1	11/05/2014 23:44	MD
Dibromochloromethane	BRL		0.51	5.4	ug/Kg	198787	1	11/05/2014 23:44	MD
Dichlorodifluoromethane	BRL		0.79	11	ug/Kg	198787	1	11/05/2014 23:44	MD
Ethylbenzene	BRL		0.45	5.4	ug/Kg	198787	1	11/05/2014 23:44	MD
Freon-113	BRL		0.78	11	ug/Kg	198787	1	11/05/2014 23:44	MD
Isopropylbenzene	BRL		0.57	5.4	ug/Kg	198787	1	11/05/2014 23:44	MD
m,p-Xylene	BRL		0.87	5.4	ug/Kg	198787	1	11/05/2014 23:44	MD
Methyl acetate	BRL		1.0	5.4	ug/Kg	198787	1	11/05/2014 23:44	MD
Methyl tert-butyl ether	BRL		0.65	5.4	ug/Kg	198787	1	11/05/2014 23:44	MD
Methylcyclohexane	BRL		0.82	5.4	ug/Kg	198787	1	11/05/2014 23:44	MD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed

- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Client: EarthCon Consultants, Inc.	Client Sample ID: SB-4 3.5-4.0'
Project Name: Apollo	Collection Date: 11/1/2014 12:03:00 PM
Lab ID: 1411027-009	Matrix: Soil

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B						(SW5035)			
Methylene chloride	4.4	J	0.65	21	ug/Kg	198787	1	11/05/2014 23:44	MD
o-Xylene	BRL		0.35	5.4	ug/Kg	198787	1	11/05/2014 23:44	MD
Styrene	BRL		0.45	5.4	ug/Kg	198787	1	11/05/2014 23:44	MD
Tetrachloroethene	BRL		0.45	5.4	ug/Kg	198787	1	11/05/2014 23:44	MD
Toluene	BRL		1.1	5.4	ug/Kg	198787	1	11/05/2014 23:44	MD
trans-1,2-Dichloroethene	BRL		0.69	5.4	ug/Kg	198787	1	11/05/2014 23:44	MD
trans-1,3-Dichloropropene	BRL		0.41	5.4	ug/Kg	198787	1	11/05/2014 23:44	MD
Trichloroethene	BRL		0.78	5.4	ug/Kg	198787	1	11/05/2014 23:44	MD
Trichlorofluoromethane	BRL		1.1	5.4	ug/Kg	198787	1	11/05/2014 23:44	MD
Vinyl chloride	BRL		0.90	11	ug/Kg	198787	1	11/05/2014 23:44	MD
Surr: 4-Bromofluorobenzene	95.1		0	70-128	%REC	198787	1	11/05/2014 23:44	MD
Surr: Dibromofluoromethane	96.3		0	78.2-128	%REC	198787	1	11/05/2014 23:44	MD
Surr: Toluene-d8	95.3		0	76.5-116	%REC	198787	1	11/05/2014 23:44	MD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed

- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Client: EarthCon Consultants, Inc.	Client Sample ID: SB-4 7.0-7.5'
Project Name: Apollo	Collection Date: 11/1/2014 12:05:00 PM
Lab ID: 1411027-010	Matrix: Soil

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5035)					
1,1,1-Trichloroethane	BRL		0.48	5.0	ug/Kg	198787	1	11/06/2014 00:13	MD
1,1,2,2-Tetrachloroethane	BRL		1.3	5.0	ug/Kg	198787	1	11/06/2014 00:13	MD
1,1,2-Trichloroethane	BRL		0.61	5.0	ug/Kg	198787	1	11/06/2014 00:13	MD
1,1-Dichloroethane	BRL		0.38	5.0	ug/Kg	198787	1	11/06/2014 00:13	MD
1,1-Dichloroethene	BRL		0.58	5.0	ug/Kg	198787	1	11/06/2014 00:13	MD
1,2,4-Trichlorobenzene	BRL		0.80	5.0	ug/Kg	198787	1	11/06/2014 00:13	MD
1,2-Dibromo-3-chloropropane	BRL		0.37	5.0	ug/Kg	198787	1	11/06/2014 00:13	MD
1,2-Dibromoethane	BRL		0.43	5.0	ug/Kg	198787	1	11/06/2014 00:13	MD
1,2-Dichlorobenzene	BRL		1.5	5.0	ug/Kg	198787	1	11/06/2014 00:13	MD
1,2-Dichloroethane	BRL		0.66	5.0	ug/Kg	198787	1	11/06/2014 00:13	MD
1,2-Dichloropropane	BRL		0.41	5.0	ug/Kg	198787	1	11/06/2014 00:13	MD
1,3-Dichlorobenzene	BRL		1.8	5.0	ug/Kg	198787	1	11/06/2014 00:13	MD
1,4-Dichlorobenzene	BRL		0.50	5.0	ug/Kg	198787	1	11/06/2014 00:13	MD
2-Butanone	BRL		10	50	ug/Kg	198787	1	11/06/2014 00:13	MD
2-Hexanone	BRL		1.6	10	ug/Kg	198787	1	11/06/2014 00:13	MD
4-Methyl-2-pentanone	BRL		0.86	10	ug/Kg	198787	1	11/06/2014 00:13	MD
Acetone	140		13	100	ug/Kg	198787	1	11/06/2014 00:13	MD
Benzene	BRL		1.4	5.0	ug/Kg	198787	1	11/06/2014 00:13	MD
Bromodichloromethane	BRL		0.50	5.0	ug/Kg	198787	1	11/06/2014 00:13	MD
Bromoform	BRL		0.74	5.0	ug/Kg	198787	1	11/06/2014 00:13	MD
Bromomethane	BRL		1.7	5.0	ug/Kg	198787	1	11/06/2014 00:13	MD
Carbon disulfide	BRL		3.7	10	ug/Kg	198787	1	11/06/2014 00:13	MD
Carbon tetrachloride	BRL		0.65	5.0	ug/Kg	198787	1	11/06/2014 00:13	MD
Chlorobenzene	BRL		0.43	5.0	ug/Kg	198787	1	11/06/2014 00:13	MD
Chloroethane	BRL		0.43	10	ug/Kg	198787	1	11/06/2014 00:13	MD
Chloroform	BRL		0.43	5.0	ug/Kg	198787	1	11/06/2014 00:13	MD
Chloromethane	BRL		0.47	10	ug/Kg	198787	1	11/06/2014 00:13	MD
cis-1,2-Dichloroethene	BRL		0.54	5.0	ug/Kg	198787	1	11/06/2014 00:13	MD
cis-1,3-Dichloropropene	BRL		0.42	5.0	ug/Kg	198787	1	11/06/2014 00:13	MD
Cyclohexane	BRL		1.5	5.0	ug/Kg	198787	1	11/06/2014 00:13	MD
Dibromochloromethane	BRL		0.48	5.0	ug/Kg	198787	1	11/06/2014 00:13	MD
Dichlorodifluoromethane	BRL		0.74	10	ug/Kg	198787	1	11/06/2014 00:13	MD
Ethylbenzene	BRL		0.42	5.0	ug/Kg	198787	1	11/06/2014 00:13	MD
Freon-113	BRL		0.73	10	ug/Kg	198787	1	11/06/2014 00:13	MD
Isopropylbenzene	BRL		0.53	5.0	ug/Kg	198787	1	11/06/2014 00:13	MD
m,p-Xylene	BRL		0.82	5.0	ug/Kg	198787	1	11/06/2014 00:13	MD
Methyl acetate	BRL		0.97	5.0	ug/Kg	198787	1	11/06/2014 00:13	MD
Methyl tert-butyl ether	BRL		0.61	5.0	ug/Kg	198787	1	11/06/2014 00:13	MD
Methylcyclohexane	BRL		0.77	5.0	ug/Kg	198787	1	11/06/2014 00:13	MD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed

- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Client: EarthCon Consultants, Inc.	Client Sample ID: SB-4 7.0-7.5'
Project Name: Apollo	Collection Date: 11/1/2014 12:05:00 PM
Lab ID: 1411027-010	Matrix: Soil

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B						(SW5035)			
Methylene chloride	4.1	J	0.61	20	ug/Kg	198787	1	11/06/2014 00:13	MD
o-Xylene	BRL		0.33	5.0	ug/Kg	198787	1	11/06/2014 00:13	MD
Styrene	BRL		0.42	5.0	ug/Kg	198787	1	11/06/2014 00:13	MD
Tetrachloroethene	BRL		0.42	5.0	ug/Kg	198787	1	11/06/2014 00:13	MD
Toluene	BRL		1.1	5.0	ug/Kg	198787	1	11/06/2014 00:13	MD
trans-1,2-Dichloroethene	BRL		0.65	5.0	ug/Kg	198787	1	11/06/2014 00:13	MD
trans-1,3-Dichloropropene	BRL		0.39	5.0	ug/Kg	198787	1	11/06/2014 00:13	MD
Trichloroethene	BRL		0.73	5.0	ug/Kg	198787	1	11/06/2014 00:13	MD
Trichlorofluoromethane	BRL		1.0	5.0	ug/Kg	198787	1	11/06/2014 00:13	MD
Vinyl chloride	BRL		0.85	10	ug/Kg	198787	1	11/06/2014 00:13	MD
Surr: 4-Bromofluorobenzene	91.9		0	70-128	%REC	198787	1	11/06/2014 00:13	MD
Surr: Dibromofluoromethane	96.1		0	78.2-128	%REC	198787	1	11/06/2014 00:13	MD
Surr: Toluene-d8	96.1		0	76.5-116	%REC	198787	1	11/06/2014 00:13	MD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed

- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Client: EarthCon Consultants, Inc.	Client Sample ID: DUP-1
Project Name: Apollo	Collection Date: 11/1/2014
Lab ID: 1411027-011	Matrix: Soil

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5035)					
1,1,1-Trichloroethane	BRL		0.49	5.1	ug/Kg	198787	1	11/06/2014 00:43	MD
1,1,2,2-Tetrachloroethane	BRL		1.3	5.1	ug/Kg	198787	1	11/06/2014 00:43	MD
1,1,2-Trichloroethane	BRL		0.62	5.1	ug/Kg	198787	1	11/06/2014 00:43	MD
1,1-Dichloroethane	BRL		0.39	5.1	ug/Kg	198787	1	11/06/2014 00:43	MD
1,1-Dichloroethene	BRL		0.60	5.1	ug/Kg	198787	1	11/06/2014 00:43	MD
1,2,4-Trichlorobenzene	BRL		0.82	5.1	ug/Kg	198787	1	11/06/2014 00:43	MD
1,2-Dibromo-3-chloropropane	BRL		0.38	5.1	ug/Kg	198787	1	11/06/2014 00:43	MD
1,2-Dibromoethane	BRL		0.44	5.1	ug/Kg	198787	1	11/06/2014 00:43	MD
1,2-Dichlorobenzene	BRL		1.6	5.1	ug/Kg	198787	1	11/06/2014 00:43	MD
1,2-Dichloroethane	BRL		0.67	5.1	ug/Kg	198787	1	11/06/2014 00:43	MD
1,2-Dichloropropane	BRL		0.42	5.1	ug/Kg	198787	1	11/06/2014 00:43	MD
1,3-Dichlorobenzene	BRL		1.8	5.1	ug/Kg	198787	1	11/06/2014 00:43	MD
1,4-Dichlorobenzene	BRL		0.51	5.1	ug/Kg	198787	1	11/06/2014 00:43	MD
2-Butanone	BRL		11	51	ug/Kg	198787	1	11/06/2014 00:43	MD
2-Hexanone	BRL		1.6	10	ug/Kg	198787	1	11/06/2014 00:43	MD
4-Methyl-2-pentanone	BRL		0.88	10	ug/Kg	198787	1	11/06/2014 00:43	MD
Acetone	320		13	100	ug/Kg	198787	1	11/06/2014 00:43	MD
Benzene	BRL		1.4	5.1	ug/Kg	198787	1	11/06/2014 00:43	MD
Bromodichloromethane	BRL		0.51	5.1	ug/Kg	198787	1	11/06/2014 00:43	MD
Bromoform	BRL		0.76	5.1	ug/Kg	198787	1	11/06/2014 00:43	MD
Bromomethane	BRL		1.7	5.1	ug/Kg	198787	1	11/06/2014 00:43	MD
Carbon disulfide	BRL		3.8	10	ug/Kg	198787	1	11/06/2014 00:43	MD
Carbon tetrachloride	BRL		0.67	5.1	ug/Kg	198787	1	11/06/2014 00:43	MD
Chlorobenzene	BRL		0.44	5.1	ug/Kg	198787	1	11/06/2014 00:43	MD
Chloroethane	BRL		0.44	10	ug/Kg	198787	1	11/06/2014 00:43	MD
Chloroform	BRL		0.44	5.1	ug/Kg	198787	1	11/06/2014 00:43	MD
Chloromethane	BRL		0.49	10	ug/Kg	198787	1	11/06/2014 00:43	MD
cis-1,2-Dichloroethene	BRL		0.55	5.1	ug/Kg	198787	1	11/06/2014 00:43	MD
cis-1,3-Dichloropropene	BRL		0.43	5.1	ug/Kg	198787	1	11/06/2014 00:43	MD
Cyclohexane	BRL		1.5	5.1	ug/Kg	198787	1	11/06/2014 00:43	MD
Dibromochloromethane	BRL		0.49	5.1	ug/Kg	198787	1	11/06/2014 00:43	MD
Dichlorodifluoromethane	BRL		0.76	10	ug/Kg	198787	1	11/06/2014 00:43	MD
Ethylbenzene	BRL		0.43	5.1	ug/Kg	198787	1	11/06/2014 00:43	MD
Freon-113	BRL		0.75	10	ug/Kg	198787	1	11/06/2014 00:43	MD
Isopropylbenzene	BRL		0.55	5.1	ug/Kg	198787	1	11/06/2014 00:43	MD
m,p-Xylene	BRL		0.84	5.1	ug/Kg	198787	1	11/06/2014 00:43	MD
Methyl acetate	BRL		0.99	5.1	ug/Kg	198787	1	11/06/2014 00:43	MD
Methyl tert-butyl ether	BRL		0.62	5.1	ug/Kg	198787	1	11/06/2014 00:43	MD
Methylcyclohexane	BRL		0.79	5.1	ug/Kg	198787	1	11/06/2014 00:43	MD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed

- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Client: EarthCon Consultants, Inc.	Client Sample ID: DUP-1
Project Name: Apollo	Collection Date: 11/1/2014
Lab ID: 1411027-011	Matrix: Soil

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B						(SW5035)			
Methylene chloride	5.4	J	0.63	21	ug/Kg	198787	1	11/06/2014 00:43	MD
o-Xylene	BRL		0.33	5.1	ug/Kg	198787	1	11/06/2014 00:43	MD
Styrene	BRL		0.43	5.1	ug/Kg	198787	1	11/06/2014 00:43	MD
Tetrachloroethene	BRL		0.43	5.1	ug/Kg	198787	1	11/06/2014 00:43	MD
Toluene	BRL		1.1	5.1	ug/Kg	198787	1	11/06/2014 00:43	MD
trans-1,2-Dichloroethene	BRL		0.66	5.1	ug/Kg	198787	1	11/06/2014 00:43	MD
trans-1,3-Dichloropropene	BRL		0.40	5.1	ug/Kg	198787	1	11/06/2014 00:43	MD
Trichloroethene	BRL		0.75	5.1	ug/Kg	198787	1	11/06/2014 00:43	MD
Trichlorofluoromethane	BRL		1.0	5.1	ug/Kg	198787	1	11/06/2014 00:43	MD
Vinyl chloride	BRL		0.87	10	ug/Kg	198787	1	11/06/2014 00:43	MD
Surr: 4-Bromofluorobenzene	95.1		0	70-128	%REC	198787	1	11/06/2014 00:43	MD
Surr: Dibromofluoromethane	93.3		0	78.2-128	%REC	198787	1	11/06/2014 00:43	MD
Surr: Toluene-d8	96.2		0	76.5-116	%REC	198787	1	11/06/2014 00:43	MD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed

- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Client: EarthCon Consultants, Inc.	Client Sample ID: SB-4 14-14.5'
Project Name: Apollo	Collection Date: 11/1/2014 12:15:00 PM
Lab ID: 1411027-012	Matrix: Soil

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5035)					
1,1,1-Trichloroethane	BRL		0.51	5.3	ug/Kg	198787	1	11/06/2014 01:12	MD
1,1,2,2-Tetrachloroethane	BRL		1.3	5.3	ug/Kg	198787	1	11/06/2014 01:12	MD
1,1,2-Trichloroethane	BRL		0.64	5.3	ug/Kg	198787	1	11/06/2014 01:12	MD
1,1-Dichloroethane	BRL		0.40	5.3	ug/Kg	198787	1	11/06/2014 01:12	MD
1,1-Dichloroethene	BRL		0.62	5.3	ug/Kg	198787	1	11/06/2014 01:12	MD
1,2,4-Trichlorobenzene	BRL		0.85	5.3	ug/Kg	198787	1	11/06/2014 01:12	MD
1,2-Dibromo-3-chloropropane	BRL		0.39	5.3	ug/Kg	198787	1	11/06/2014 01:12	MD
1,2-Dibromoethane	BRL		0.46	5.3	ug/Kg	198787	1	11/06/2014 01:12	MD
1,2-Dichlorobenzene	BRL		1.6	5.3	ug/Kg	198787	1	11/06/2014 01:12	MD
1,2-Dichloroethane	BRL		0.70	5.3	ug/Kg	198787	1	11/06/2014 01:12	MD
1,2-Dichloropropane	BRL		0.43	5.3	ug/Kg	198787	1	11/06/2014 01:12	MD
1,3-Dichlorobenzene	BRL		1.9	5.3	ug/Kg	198787	1	11/06/2014 01:12	MD
1,4-Dichlorobenzene	BRL		0.53	5.3	ug/Kg	198787	1	11/06/2014 01:12	MD
2-Butanone	BRL		11	53	ug/Kg	198787	1	11/06/2014 01:12	MD
2-Hexanone	BRL		1.7	11	ug/Kg	198787	1	11/06/2014 01:12	MD
4-Methyl-2-pentanone	BRL		0.91	11	ug/Kg	198787	1	11/06/2014 01:12	MD
Acetone	230		14	110	ug/Kg	198787	1	11/06/2014 01:12	MD
Benzene	BRL		1.5	5.3	ug/Kg	198787	1	11/06/2014 01:12	MD
Bromodichloromethane	BRL		0.53	5.3	ug/Kg	198787	1	11/06/2014 01:12	MD
Bromoform	BRL		0.78	5.3	ug/Kg	198787	1	11/06/2014 01:12	MD
Bromomethane	BRL		1.8	5.3	ug/Kg	198787	1	11/06/2014 01:12	MD
Carbon disulfide	BRL		4.0	11	ug/Kg	198787	1	11/06/2014 01:12	MD
Carbon tetrachloride	BRL		0.69	5.3	ug/Kg	198787	1	11/06/2014 01:12	MD
Chlorobenzene	BRL		0.45	5.3	ug/Kg	198787	1	11/06/2014 01:12	MD
Chloroethane	BRL		0.46	11	ug/Kg	198787	1	11/06/2014 01:12	MD
Chloroform	BRL		0.46	5.3	ug/Kg	198787	1	11/06/2014 01:12	MD
Chloromethane	BRL		0.50	11	ug/Kg	198787	1	11/06/2014 01:12	MD
cis-1,2-Dichloroethene	BRL		0.57	5.3	ug/Kg	198787	1	11/06/2014 01:12	MD
cis-1,3-Dichloropropene	BRL		0.45	5.3	ug/Kg	198787	1	11/06/2014 01:12	MD
Cyclohexane	BRL		1.5	5.3	ug/Kg	198787	1	11/06/2014 01:12	MD
Dibromochloromethane	BRL		0.51	5.3	ug/Kg	198787	1	11/06/2014 01:12	MD
Dichlorodifluoromethane	BRL		0.78	11	ug/Kg	198787	1	11/06/2014 01:12	MD
Ethylbenzene	BRL		0.45	5.3	ug/Kg	198787	1	11/06/2014 01:12	MD
Freon-113	BRL		0.78	11	ug/Kg	198787	1	11/06/2014 01:12	MD
Isopropylbenzene	BRL		0.57	5.3	ug/Kg	198787	1	11/06/2014 01:12	MD
m,p-Xylene	BRL		0.87	5.3	ug/Kg	198787	1	11/06/2014 01:12	MD
Methyl acetate	BRL		1.0	5.3	ug/Kg	198787	1	11/06/2014 01:12	MD
Methyl tert-butyl ether	BRL		0.65	5.3	ug/Kg	198787	1	11/06/2014 01:12	MD
Methylcyclohexane	BRL		0.82	5.3	ug/Kg	198787	1	11/06/2014 01:12	MD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed

- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Client: EarthCon Consultants, Inc.	Client Sample ID: SB-5 1-1.5'
Project Name: Apollo	Collection Date: 11/1/2014 12:45:00 PM
Lab ID: 1411027-013	Matrix: Soil

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5035)					
1,1,1-Trichloroethane	BRL		0.43	4.5	ug/Kg	198787	1	11/06/2014 01:41	MD
1,1,2,2-Tetrachloroethane	BRL		1.1	4.5	ug/Kg	198787	1	11/06/2014 01:41	MD
1,1,2-Trichloroethane	BRL		0.55	4.5	ug/Kg	198787	1	11/06/2014 01:41	MD
1,1-Dichloroethane	BRL		0.34	4.5	ug/Kg	198787	1	11/06/2014 01:41	MD
1,1-Dichloroethene	BRL		0.52	4.5	ug/Kg	198787	1	11/06/2014 01:41	MD
1,2,4-Trichlorobenzene	BRL		0.72	4.5	ug/Kg	198787	1	11/06/2014 01:41	MD
1,2-Dibromo-3-chloropropane	BRL		0.33	4.5	ug/Kg	198787	1	11/06/2014 01:41	MD
1,2-Dibromoethane	BRL		0.39	4.5	ug/Kg	198787	1	11/06/2014 01:41	MD
1,2-Dichlorobenzene	BRL		1.4	4.5	ug/Kg	198787	1	11/06/2014 01:41	MD
1,2-Dichloroethane	BRL		0.59	4.5	ug/Kg	198787	1	11/06/2014 01:41	MD
1,2-Dichloropropane	BRL		0.37	4.5	ug/Kg	198787	1	11/06/2014 01:41	MD
1,3-Dichlorobenzene	BRL		1.6	4.5	ug/Kg	198787	1	11/06/2014 01:41	MD
1,4-Dichlorobenzene	BRL		0.45	4.5	ug/Kg	198787	1	11/06/2014 01:41	MD
2-Butanone	BRL		9.2	45	ug/Kg	198787	1	11/06/2014 01:41	MD
2-Hexanone	BRL		1.4	9.1	ug/Kg	198787	1	11/06/2014 01:41	MD
4-Methyl-2-pentanone	BRL		0.78	9.1	ug/Kg	198787	1	11/06/2014 01:41	MD
Acetone	BRL		12	91	ug/Kg	198787	1	11/06/2014 01:41	MD
Benzene	BRL		1.3	4.5	ug/Kg	198787	1	11/06/2014 01:41	MD
Bromodichloromethane	BRL		0.45	4.5	ug/Kg	198787	1	11/06/2014 01:41	MD
Bromoform	BRL		0.66	4.5	ug/Kg	198787	1	11/06/2014 01:41	MD
Bromomethane	BRL		1.5	4.5	ug/Kg	198787	1	11/06/2014 01:41	MD
Carbon disulfide	BRL		3.4	9.1	ug/Kg	198787	1	11/06/2014 01:41	MD
Carbon tetrachloride	BRL		0.59	4.5	ug/Kg	198787	1	11/06/2014 01:41	MD
Chlorobenzene	BRL		0.38	4.5	ug/Kg	198787	1	11/06/2014 01:41	MD
Chloroethane	BRL		0.39	9.1	ug/Kg	198787	1	11/06/2014 01:41	MD
Chloroform	BRL		0.39	4.5	ug/Kg	198787	1	11/06/2014 01:41	MD
Chloromethane	BRL		0.43	9.1	ug/Kg	198787	1	11/06/2014 01:41	MD
cis-1,2-Dichloroethene	BRL		0.49	4.5	ug/Kg	198787	1	11/06/2014 01:41	MD
cis-1,3-Dichloropropene	BRL		0.38	4.5	ug/Kg	198787	1	11/06/2014 01:41	MD
Cyclohexane	BRL		1.3	4.5	ug/Kg	198787	1	11/06/2014 01:41	MD
Dibromochloromethane	BRL		0.44	4.5	ug/Kg	198787	1	11/06/2014 01:41	MD
Dichlorodifluoromethane	BRL		0.66	9.1	ug/Kg	198787	1	11/06/2014 01:41	MD
Ethylbenzene	BRL		0.38	4.5	ug/Kg	198787	1	11/06/2014 01:41	MD
Freon-113	BRL		0.66	9.1	ug/Kg	198787	1	11/06/2014 01:41	MD
Isopropylbenzene	BRL		0.48	4.5	ug/Kg	198787	1	11/06/2014 01:41	MD
m,p-Xylene	BRL		0.74	4.5	ug/Kg	198787	1	11/06/2014 01:41	MD
Methyl acetate	BRL		0.88	4.5	ug/Kg	198787	1	11/06/2014 01:41	MD
Methyl tert-butyl ether	BRL		0.55	4.5	ug/Kg	198787	1	11/06/2014 01:41	MD
Methylcyclohexane	BRL		0.69	4.5	ug/Kg	198787	1	11/06/2014 01:41	MD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed

- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Client: EarthCon Consultants, Inc.	Client Sample ID: SB-5 1-1.5'
Project Name: Apollo	Collection Date: 11/1/2014 12:45:00 PM
Lab ID: 1411027-013	Matrix: Soil

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B						(SW5035)			
Methylene chloride	4.1	J	0.55	18	ug/Kg	198787	1	11/06/2014 01:41	MD
o-Xylene	BRL		0.29	4.5	ug/Kg	198787	1	11/06/2014 01:41	MD
Styrene	BRL		0.38	4.5	ug/Kg	198787	1	11/06/2014 01:41	MD
Tetrachloroethene	BRL		0.38	4.5	ug/Kg	198787	1	11/06/2014 01:41	MD
Toluene	BRL		0.95	4.5	ug/Kg	198787	1	11/06/2014 01:41	MD
trans-1,2-Dichloroethene	BRL		0.58	4.5	ug/Kg	198787	1	11/06/2014 01:41	MD
trans-1,3-Dichloropropene	BRL		0.35	4.5	ug/Kg	198787	1	11/06/2014 01:41	MD
Trichloroethene	BRL		0.66	4.5	ug/Kg	198787	1	11/06/2014 01:41	MD
Trichlorofluoromethane	BRL		0.90	4.5	ug/Kg	198787	1	11/06/2014 01:41	MD
Vinyl chloride	BRL		0.76	9.1	ug/Kg	198787	1	11/06/2014 01:41	MD
Surr: 4-Bromofluorobenzene	93.2		0	70-128	%REC	198787	1	11/06/2014 01:41	MD
Surr: Dibromofluoromethane	96		0	78.2-128	%REC	198787	1	11/06/2014 01:41	MD
Surr: Toluene-d8	94.9		0	76.5-116	%REC	198787	1	11/06/2014 01:41	MD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed

- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Client: EarthCon Consultants, Inc.	Client Sample ID: SB-5 7-7.5'
Project Name: Apollo	Collection Date: 11/1/2014 12:48:00 PM
Lab ID: 1411027-014	Matrix: Soil

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5035)					
1,1,1-Trichloroethane	BRL		0.48	5.0	ug/Kg	198787	1	11/06/2014 02:10	MD
1,1,2,2-Tetrachloroethane	BRL		1.3	5.0	ug/Kg	198787	1	11/06/2014 02:10	MD
1,1,2-Trichloroethane	BRL		0.60	5.0	ug/Kg	198787	1	11/06/2014 02:10	MD
1,1-Dichloroethane	BRL		0.38	5.0	ug/Kg	198787	1	11/06/2014 02:10	MD
1,1-Dichloroethene	BRL		0.58	5.0	ug/Kg	198787	1	11/06/2014 02:10	MD
1,2,4-Trichlorobenzene	BRL		0.80	5.0	ug/Kg	198787	1	11/06/2014 02:10	MD
1,2-Dibromo-3-chloropropane	BRL		0.37	5.0	ug/Kg	198787	1	11/06/2014 02:10	MD
1,2-Dibromoethane	BRL		0.43	5.0	ug/Kg	198787	1	11/06/2014 02:10	MD
1,2-Dichlorobenzene	BRL		1.5	5.0	ug/Kg	198787	1	11/06/2014 02:10	MD
1,2-Dichloroethane	BRL		0.65	5.0	ug/Kg	198787	1	11/06/2014 02:10	MD
1,2-Dichloropropane	BRL		0.40	5.0	ug/Kg	198787	1	11/06/2014 02:10	MD
1,3-Dichlorobenzene	BRL		1.8	5.0	ug/Kg	198787	1	11/06/2014 02:10	MD
1,4-Dichlorobenzene	BRL		0.50	5.0	ug/Kg	198787	1	11/06/2014 02:10	MD
2-Butanone	BRL		10	50	ug/Kg	198787	1	11/06/2014 02:10	MD
2-Hexanone	BRL		1.6	10	ug/Kg	198787	1	11/06/2014 02:10	MD
4-Methyl-2-pentanone	BRL		0.86	10	ug/Kg	198787	1	11/06/2014 02:10	MD
Acetone	51	J	13	100	ug/Kg	198787	1	11/06/2014 02:10	MD
Benzene	BRL		1.4	5.0	ug/Kg	198787	1	11/06/2014 02:10	MD
Bromodichloromethane	BRL		0.50	5.0	ug/Kg	198787	1	11/06/2014 02:10	MD
Bromoform	BRL		0.74	5.0	ug/Kg	198787	1	11/06/2014 02:10	MD
Bromomethane	BRL		1.7	5.0	ug/Kg	198787	1	11/06/2014 02:10	MD
Carbon disulfide	BRL		3.7	10	ug/Kg	198787	1	11/06/2014 02:10	MD
Carbon tetrachloride	BRL		0.65	5.0	ug/Kg	198787	1	11/06/2014 02:10	MD
Chlorobenzene	BRL		0.43	5.0	ug/Kg	198787	1	11/06/2014 02:10	MD
Chloroethane	BRL		0.43	10	ug/Kg	198787	1	11/06/2014 02:10	MD
Chloroform	BRL		0.43	5.0	ug/Kg	198787	1	11/06/2014 02:10	MD
Chloromethane	BRL		0.47	10	ug/Kg	198787	1	11/06/2014 02:10	MD
cis-1,2-Dichloroethene	BRL		0.54	5.0	ug/Kg	198787	1	11/06/2014 02:10	MD
cis-1,3-Dichloropropene	BRL		0.42	5.0	ug/Kg	198787	1	11/06/2014 02:10	MD
Cyclohexane	BRL		1.4	5.0	ug/Kg	198787	1	11/06/2014 02:10	MD
Dibromochloromethane	BRL		0.48	5.0	ug/Kg	198787	1	11/06/2014 02:10	MD
Dichlorodifluoromethane	BRL		0.74	10	ug/Kg	198787	1	11/06/2014 02:10	MD
Ethylbenzene	BRL		0.42	5.0	ug/Kg	198787	1	11/06/2014 02:10	MD
Freon-113	BRL		0.73	10	ug/Kg	198787	1	11/06/2014 02:10	MD
Isopropylbenzene	BRL		0.53	5.0	ug/Kg	198787	1	11/06/2014 02:10	MD
m,p-Xylene	BRL		0.81	5.0	ug/Kg	198787	1	11/06/2014 02:10	MD
Methyl acetate	BRL		0.97	5.0	ug/Kg	198787	1	11/06/2014 02:10	MD
Methyl tert-butyl ether	BRL		0.61	5.0	ug/Kg	198787	1	11/06/2014 02:10	MD
Methylcyclohexane	BRL		0.77	5.0	ug/Kg	198787	1	11/06/2014 02:10	MD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed

- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Client: EarthCon Consultants, Inc.	Client Sample ID: SB-5 7-7.5'
Project Name: Apollo	Collection Date: 11/1/2014 12:48:00 PM
Lab ID: 1411027-014	Matrix: Soil

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B						(SW5035)			
Methylene chloride	5.7	J	0.61	20	ug/Kg	198787	1	11/06/2014 02:10	MD
o-Xylene	BRL		0.33	5.0	ug/Kg	198787	1	11/06/2014 02:10	MD
Styrene	BRL		0.42	5.0	ug/Kg	198787	1	11/06/2014 02:10	MD
Tetrachloroethene	BRL		0.42	5.0	ug/Kg	198787	1	11/06/2014 02:10	MD
Toluene	BRL		1.1	5.0	ug/Kg	198787	1	11/06/2014 02:10	MD
trans-1,2-Dichloroethene	BRL		0.64	5.0	ug/Kg	198787	1	11/06/2014 02:10	MD
trans-1,3-Dichloropropene	BRL		0.39	5.0	ug/Kg	198787	1	11/06/2014 02:10	MD
Trichloroethene	BRL		0.73	5.0	ug/Kg	198787	1	11/06/2014 02:10	MD
Trichlorofluoromethane	BRL		1.0	5.0	ug/Kg	198787	1	11/06/2014 02:10	MD
Vinyl chloride	BRL		0.84	10	ug/Kg	198787	1	11/06/2014 02:10	MD
Surr: 4-Bromofluorobenzene	93.2		0	70-128	%REC	198787	1	11/06/2014 02:10	MD
Surr: Dibromofluoromethane	96.9		0	78.2-128	%REC	198787	1	11/06/2014 02:10	MD
Surr: Toluene-d8	96.2		0	76.5-116	%REC	198787	1	11/06/2014 02:10	MD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed

- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Client: EarthCon Consultants, Inc.	Client Sample ID: SB-5 14-14.5'
Project Name: Apollo	Collection Date: 11/1/2014 12:52:00 PM
Lab ID: 1411027-015	Matrix: Soil

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)									
1,1,1-Trichloroethane	BRL		0.48	5.0	ug/Kg	198787	1	11/06/2014 02:40	MD
1,1,2,2-Tetrachloroethane	BRL		1.2	5.0	ug/Kg	198787	1	11/06/2014 02:40	MD
1,1,2-Trichloroethane	BRL		0.60	5.0	ug/Kg	198787	1	11/06/2014 02:40	MD
1,1-Dichloroethane	BRL		0.37	5.0	ug/Kg	198787	1	11/06/2014 02:40	MD
1,1-Dichloroethene	BRL		0.58	5.0	ug/Kg	198787	1	11/06/2014 02:40	MD
1,2,4-Trichlorobenzene	BRL		0.79	5.0	ug/Kg	198787	1	11/06/2014 02:40	MD
1,2-Dibromo-3-chloropropane	BRL		0.37	5.0	ug/Kg	198787	1	11/06/2014 02:40	MD
1,2-Dibromoethane	BRL		0.43	5.0	ug/Kg	198787	1	11/06/2014 02:40	MD
1,2-Dichlorobenzene	BRL		1.5	5.0	ug/Kg	198787	1	11/06/2014 02:40	MD
1,2-Dichloroethane	BRL		0.65	5.0	ug/Kg	198787	1	11/06/2014 02:40	MD
1,2-Dichloropropane	BRL		0.40	5.0	ug/Kg	198787	1	11/06/2014 02:40	MD
1,3-Dichlorobenzene	BRL		1.8	5.0	ug/Kg	198787	1	11/06/2014 02:40	MD
1,4-Dichlorobenzene	BRL		0.50	5.0	ug/Kg	198787	1	11/06/2014 02:40	MD
2-Butanone	BRL		10	50	ug/Kg	198787	1	11/06/2014 02:40	MD
2-Hexanone	BRL		1.5	9.9	ug/Kg	198787	1	11/06/2014 02:40	MD
4-Methyl-2-pentanone	BRL		0.85	9.9	ug/Kg	198787	1	11/06/2014 02:40	MD
Acetone	79	J	13	99	ug/Kg	198787	1	11/06/2014 02:40	MD
Benzene	BRL		1.4	5.0	ug/Kg	198787	1	11/06/2014 02:40	MD
Bromodichloromethane	BRL		0.49	5.0	ug/Kg	198787	1	11/06/2014 02:40	MD
Bromoform	BRL		0.73	5.0	ug/Kg	198787	1	11/06/2014 02:40	MD
Bromomethane	BRL		1.7	5.0	ug/Kg	198787	1	11/06/2014 02:40	MD
Carbon disulfide	BRL		3.7	9.9	ug/Kg	198787	1	11/06/2014 02:40	MD
Carbon tetrachloride	BRL		0.65	5.0	ug/Kg	198787	1	11/06/2014 02:40	MD
Chlorobenzene	BRL		0.42	5.0	ug/Kg	198787	1	11/06/2014 02:40	MD
Chloroethane	BRL		0.43	9.9	ug/Kg	198787	1	11/06/2014 02:40	MD
Chloroform	BRL		0.43	5.0	ug/Kg	198787	1	11/06/2014 02:40	MD
Chloromethane	BRL		0.47	9.9	ug/Kg	198787	1	11/06/2014 02:40	MD
cis-1,2-Dichloroethene	BRL		0.53	5.0	ug/Kg	198787	1	11/06/2014 02:40	MD
cis-1,3-Dichloropropene	BRL		0.41	5.0	ug/Kg	198787	1	11/06/2014 02:40	MD
Cyclohexane	BRL		1.4	5.0	ug/Kg	198787	1	11/06/2014 02:40	MD
Dibromochloromethane	BRL		0.48	5.0	ug/Kg	198787	1	11/06/2014 02:40	MD
Dichlorodifluoromethane	BRL		0.73	9.9	ug/Kg	198787	1	11/06/2014 02:40	MD
Ethylbenzene	BRL		0.42	5.0	ug/Kg	198787	1	11/06/2014 02:40	MD
Freon-113	BRL		0.72	9.9	ug/Kg	198787	1	11/06/2014 02:40	MD
Isopropylbenzene	BRL		0.53	5.0	ug/Kg	198787	1	11/06/2014 02:40	MD
m,p-Xylene	BRL		0.81	5.0	ug/Kg	198787	1	11/06/2014 02:40	MD
Methyl acetate	BRL		0.96	5.0	ug/Kg	198787	1	11/06/2014 02:40	MD
Methyl tert-butyl ether	BRL		0.60	5.0	ug/Kg	198787	1	11/06/2014 02:40	MD
Methylcyclohexane	BRL		0.76	5.0	ug/Kg	198787	1	11/06/2014 02:40	MD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed

- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Client: EarthCon Consultants, Inc.	Client Sample ID: SB-5 14-14.5'
Project Name: Apollo	Collection Date: 11/1/2014 12:52:00 PM
Lab ID: 1411027-015	Matrix: Soil

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B						(SW5035)			
Methylene chloride	8.3	J	0.61	20	ug/Kg	198787	1	11/06/2014 02:40	MD
o-Xylene	BRL		0.32	5.0	ug/Kg	198787	1	11/06/2014 02:40	MD
Styrene	BRL		0.41	5.0	ug/Kg	198787	1	11/06/2014 02:40	MD
Tetrachloroethene	BRL		0.42	5.0	ug/Kg	198787	1	11/06/2014 02:40	MD
Toluene	BRL		1.0	5.0	ug/Kg	198787	1	11/06/2014 02:40	MD
trans-1,2-Dichloroethene	BRL		0.64	5.0	ug/Kg	198787	1	11/06/2014 02:40	MD
trans-1,3-Dichloropropene	BRL		0.38	5.0	ug/Kg	198787	1	11/06/2014 02:40	MD
Trichloroethene	BRL		0.72	5.0	ug/Kg	198787	1	11/06/2014 02:40	MD
Trichlorofluoromethane	BRL		0.99	5.0	ug/Kg	198787	1	11/06/2014 02:40	MD
Vinyl chloride	BRL		0.84	9.9	ug/Kg	198787	1	11/06/2014 02:40	MD
Surr: 4-Bromofluorobenzene	95.6		0	70-128	%REC	198787	1	11/06/2014 02:40	MD
Surr: Dibromofluoromethane	95.6		0	78.2-128	%REC	198787	1	11/06/2014 02:40	MD
Surr: Toluene-d8	96.4		0	76.5-116	%REC	198787	1	11/06/2014 02:40	MD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed

- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Client: EarthCon Consultants, Inc.	Client Sample ID: SB-5 18-18.5'
Project Name: Apollo	Collection Date: 11/1/2014 12:55:00 PM
Lab ID: 1411027-016	Matrix: Soil

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)									
1,1,1-Trichloroethane	BRL		0.47	4.9	ug/Kg	198787	1	11/06/2014 03:09	MD
1,1,2,2-Tetrachloroethane	BRL		1.2	4.9	ug/Kg	198787	1	11/06/2014 03:09	MD
1,1,2-Trichloroethane	BRL		0.59	4.9	ug/Kg	198787	1	11/06/2014 03:09	MD
1,1-Dichloroethane	BRL		0.37	4.9	ug/Kg	198787	1	11/06/2014 03:09	MD
1,1-Dichloroethene	BRL		0.57	4.9	ug/Kg	198787	1	11/06/2014 03:09	MD
1,2,4-Trichlorobenzene	BRL		0.78	4.9	ug/Kg	198787	1	11/06/2014 03:09	MD
1,2-Dibromo-3-chloropropane	BRL		0.36	4.9	ug/Kg	198787	1	11/06/2014 03:09	MD
1,2-Dibromoethane	BRL		0.42	4.9	ug/Kg	198787	1	11/06/2014 03:09	MD
1,2-Dichlorobenzene	BRL		1.5	4.9	ug/Kg	198787	1	11/06/2014 03:09	MD
1,2-Dichloroethane	BRL		0.64	4.9	ug/Kg	198787	1	11/06/2014 03:09	MD
1,2-Dichloropropane	BRL		0.40	4.9	ug/Kg	198787	1	11/06/2014 03:09	MD
1,3-Dichlorobenzene	BRL		1.7	4.9	ug/Kg	198787	1	11/06/2014 03:09	MD
1,4-Dichlorobenzene	BRL		0.49	4.9	ug/Kg	198787	1	11/06/2014 03:09	MD
2-Butanone	BRL		10	49	ug/Kg	198787	1	11/06/2014 03:09	MD
2-Hexanone	BRL		1.5	9.8	ug/Kg	198787	1	11/06/2014 03:09	MD
4-Methyl-2-pentanone	BRL		0.84	9.8	ug/Kg	198787	1	11/06/2014 03:09	MD
Acetone	32	J	13	98	ug/Kg	198787	1	11/06/2014 03:09	MD
Benzene	BRL		1.4	4.9	ug/Kg	198787	1	11/06/2014 03:09	MD
Bromodichloromethane	BRL		0.49	4.9	ug/Kg	198787	1	11/06/2014 03:09	MD
Bromoform	BRL		0.72	4.9	ug/Kg	198787	1	11/06/2014 03:09	MD
Bromomethane	BRL		1.6	4.9	ug/Kg	198787	1	11/06/2014 03:09	MD
Carbon disulfide	BRL		3.6	9.8	ug/Kg	198787	1	11/06/2014 03:09	MD
Carbon tetrachloride	BRL		0.64	4.9	ug/Kg	198787	1	11/06/2014 03:09	MD
Chlorobenzene	BRL		0.42	4.9	ug/Kg	198787	1	11/06/2014 03:09	MD
Chloroethane	BRL		0.42	9.8	ug/Kg	198787	1	11/06/2014 03:09	MD
Chloroform	BRL		0.42	4.9	ug/Kg	198787	1	11/06/2014 03:09	MD
Chloromethane	BRL		0.46	9.8	ug/Kg	198787	1	11/06/2014 03:09	MD
cis-1,2-Dichloroethene	BRL		0.53	4.9	ug/Kg	198787	1	11/06/2014 03:09	MD
cis-1,3-Dichloropropene	BRL		0.41	4.9	ug/Kg	198787	1	11/06/2014 03:09	MD
Cyclohexane	BRL		1.4	4.9	ug/Kg	198787	1	11/06/2014 03:09	MD
Dibromochloromethane	BRL		0.47	4.9	ug/Kg	198787	1	11/06/2014 03:09	MD
Dichlorodifluoromethane	BRL		0.72	9.8	ug/Kg	198787	1	11/06/2014 03:09	MD
Ethylbenzene	BRL		0.41	4.9	ug/Kg	198787	1	11/06/2014 03:09	MD
Freon-113	BRL		0.72	9.8	ug/Kg	198787	1	11/06/2014 03:09	MD
Isopropylbenzene	BRL		0.52	4.9	ug/Kg	198787	1	11/06/2014 03:09	MD
m,p-Xylene	BRL		0.80	4.9	ug/Kg	198787	1	11/06/2014 03:09	MD
Methyl acetate	BRL		0.95	4.9	ug/Kg	198787	1	11/06/2014 03:09	MD
Methyl tert-butyl ether	BRL		0.60	4.9	ug/Kg	198787	1	11/06/2014 03:09	MD
Methylcyclohexane	BRL		0.75	4.9	ug/Kg	198787	1	11/06/2014 03:09	MD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed

- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Client: EarthCon Consultants, Inc.	Client Sample ID: SB-5 18-18.5'
Project Name: Apollo	Collection Date: 11/1/2014 12:55:00 PM
Lab ID: 1411027-016	Matrix: Soil

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B						(SW5035)			
Methylene chloride	4.7	J	0.60	20	ug/Kg	198787	1	11/06/2014 03:09	MD
o-Xylene	BRL		0.32	4.9	ug/Kg	198787	1	11/06/2014 03:09	MD
Styrene	BRL		0.41	4.9	ug/Kg	198787	1	11/06/2014 03:09	MD
Tetrachloroethene	BRL		0.41	4.9	ug/Kg	198787	1	11/06/2014 03:09	MD
Toluene	BRL		1.0	4.9	ug/Kg	198787	1	11/06/2014 03:09	MD
trans-1,2-Dichloroethene	BRL		0.63	4.9	ug/Kg	198787	1	11/06/2014 03:09	MD
trans-1,3-Dichloropropene	BRL		0.38	4.9	ug/Kg	198787	1	11/06/2014 03:09	MD
Trichloroethene	BRL		0.71	4.9	ug/Kg	198787	1	11/06/2014 03:09	MD
Trichlorofluoromethane	BRL		0.98	4.9	ug/Kg	198787	1	11/06/2014 03:09	MD
Vinyl chloride	BRL		0.83	9.8	ug/Kg	198787	1	11/06/2014 03:09	MD
Surr: 4-Bromofluorobenzene	92.4		0	70-128	%REC	198787	1	11/06/2014 03:09	MD
Surr: Dibromofluoromethane	96.4		0	78.2-128	%REC	198787	1	11/06/2014 03:09	MD
Surr: Toluene-d8	96		0	76.5-116	%REC	198787	1	11/06/2014 03:09	MD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed

- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Earthcon Consultants Work Order Number 1411027

Checklist completed by Tara Martin Signature Date 1/1/14

Carrier name: FedEx UPS Courier Client US Mail Other

Shipping container/cooler in good condition? Yes No Not Present
Custody seals intact on shipping container/cooler? Yes No Not Present
Custody seals intact on sample bottles? Yes No Not Present
Container/Temp Blank temperature in compliance? (4°C±2)* Yes No

Cooler #1 3.7 Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Chain of custody present? Yes No
Chain of custody signed when relinquished and received? Yes No
Chain of custody agrees with sample labels? Yes No
Samples in proper container/bottle? Yes No
Sample containers intact? Yes No
Sufficient sample volume for indicated test? Yes No
All samples received within holding time? Yes No
Was TAT marked on the COC? Yes No
Proceed with Standard TAT as per project history? Yes No Not Applicable
Water - VOA vials have zero headspace? No VOA vials submitted Yes No
Water - pH acceptable upon receipt? Yes No Not Applicable

Adjusted? _____ Checked by _____
Sample Condition: Good Other(Explain) _____

(For diffusive samples or AIHA lead) Is a known blank included? Yes No

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

Client: EarthCon Consultants, Inc.
 Project Name: Apollo
 Lab Order: 1411027

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1411027-001A	MW-16 0-1'	11/1/2014 9:00:00AM	Soil	TCL VOLATILE ORGANICS		11/4/2014 9:28:00 AM	11/04/2014
1411027-002A	SB-1 2-2.5'	11/1/2014 10:45:00AM	Soil	TCL VOLATILE ORGANICS		11/4/2014 3:53:00 PM	11/07/2014
1411027-002A	SB-1 2-2.5'	11/1/2014 10:45:00AM	Soil	TCL VOLATILE ORGANICS		11/4/2014 3:53:00 PM	11/10/2014
1411027-002A	SB-1 2-2.5'	11/1/2014 10:45:00AM	Soil	TCL VOLATILE ORGANICS		11/4/2014 6:00:00 PM	11/05/2014
1411027-003A	SB-1 1-1.5'	11/1/2014 10:55:00AM	Soil	TCL VOLATILE ORGANICS		11/4/2014 3:53:00 PM	11/07/2014
1411027-003A	SB-1 1-1.5'	11/1/2014 10:55:00AM	Soil	TCL VOLATILE ORGANICS		11/4/2014 3:53:00 PM	11/10/2014
1411027-004A	SB-2 1.5-2.0'	11/1/2014 11:06:00AM	Soil	TCL VOLATILE ORGANICS		11/5/2014 6:49:00 PM	11/05/2014
1411027-005A	SB-2 3.5-4.0'	11/1/2014 11:15:00AM	Soil	TCL VOLATILE ORGANICS		11/5/2014 6:49:00 PM	11/05/2014
1411027-006A	SB-3 1.0-1.5'	11/1/2014 11:30:00AM	Soil	TCL VOLATILE ORGANICS		11/4/2014 3:53:00 PM	11/07/2014
1411027-006A	SB-3 1.0-1.5'	11/1/2014 11:30:00AM	Soil	TCL VOLATILE ORGANICS		11/5/2014 6:49:00 PM	11/05/2014
1411027-007A	SB-3 2.0-2.5'	11/1/2014 11:35:00AM	Soil	TCL VOLATILE ORGANICS		11/5/2014 6:49:00 PM	11/05/2014
1411027-008A	SB-4 1.5-2.0'	11/1/2014 12:00:00PM	Soil	TCL VOLATILE ORGANICS		11/5/2014 6:49:00 PM	11/05/2014
1411027-009A	SB-4 3.5-4.0'	11/1/2014 12:03:00PM	Soil	TCL VOLATILE ORGANICS		11/5/2014 6:49:00 PM	11/05/2014
1411027-010A	SB-4 7.0-7.5'	11/1/2014 12:05:00PM	Soil	TCL VOLATILE ORGANICS		11/5/2014 6:49:00 PM	11/06/2014
1411027-011A	DUP-1	11/1/2014 12:00:00AM	Soil	TCL VOLATILE ORGANICS		11/5/2014 6:49:00 PM	11/06/2014
1411027-012A	SB-4 14-14.5'	11/1/2014 12:15:00PM	Soil	TCL VOLATILE ORGANICS		11/5/2014 6:49:00 PM	11/06/2014
1411027-013A	SB-5 1-1.5'	11/1/2014 12:45:00PM	Soil	TCL VOLATILE ORGANICS		11/5/2014 6:49:00 PM	11/06/2014
1411027-014A	SB-5 7-7.5'	11/1/2014 12:48:00PM	Soil	TCL VOLATILE ORGANICS		11/5/2014 6:49:00 PM	11/06/2014
1411027-015A	SB-5 14-14.5'	11/1/2014 12:52:00PM	Soil	TCL VOLATILE ORGANICS		11/5/2014 6:49:00 PM	11/06/2014
1411027-016A	SB-5 18-18.5'	11/1/2014 12:55:00PM	Soil	TCL VOLATILE ORGANICS		11/5/2014 6:49:00 PM	11/06/2014

Client: EarthCon Consultants, Inc.
Project Name: Apollo
Workorder: 1411027

ANALYTICAL QC SUMMARY REPORT

BatchID: 198696

Sample ID: MB-198696	Client ID:	Units: ug/Kg	Prep Date: 11/04/2014	Run No: 279218							
Sample Type: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 198696	Analysis Date: 11/04/2014	Seq No: 5902961							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,2,4-Trichlorobenzene	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dibromoethane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,3-Dichlorobenzene	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
2-Butanone	BRL	50									
2-Hexanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	100									
Benzene	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Bromoform	BRL	5.0									
Bromomethane	BRL	5.0									
Carbon disulfide	BRL	10									
Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									
Chloroform	BRL	5.0									
Chloromethane	BRL	10									

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: Apollo
Workorder: 1411027

ANALYTICAL QC SUMMARY REPORT

BatchID: 198696

Sample ID: MB-198696	Client ID:	Units: ug/Kg	Prep Date: 11/04/2014	Run No: 279218							
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 198696	Analysis Date: 11/04/2014	Seq No: 5902961							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Freon-113	BRL	10									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	5.0									
Methyl acetate	BRL	5.0									
Methyl tert-butyl ether	BRL	5.0									
Methylcyclohexane	BRL	5.0									
Methylene chloride	BRL	20									
o-Xylene	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	10									
Surr: 4-Bromofluorobenzene	46.46	0	50.00		92.9	70	128				
Surr: Dibromofluoromethane	48.32	0	50.00		96.6	78.2	128				
Surr: Toluene-d8	48.05	0	50.00		96.1	76.5	116				

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: Apollo
Workorder: 1411027

ANALYTICAL QC SUMMARY REPORT

BatchID: 198696

Sample ID: LCS-198696	Client ID:	Units: ug/Kg	Prep Date: 11/04/2014	Run No: 279218							
SampleType: LCS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 198696	Analysis Date: 11/04/2014	Seq No: 5902958							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	53.59	5.0	50.00		107	69.9	145				
Benzene	52.17	5.0	50.00		104	72.3	130				
Chlorobenzene	51.04	5.0	50.00		102	69	130				
Toluene	51.10	5.0	50.00		102	71.1	130				
Trichloroethene	56.17	5.0	50.00		112	71.7	136				
Surr: 4-Bromofluorobenzene	47.70	0	50.00		95.4	70	128				
Surr: Dibromofluoromethane	48.85	0	50.00		97.7	78.2	128				
Surr: Toluene-d8	47.53	0	50.00		95.1	76.5	116				

Sample ID: 1411140-001AMS	Client ID:	Units: ug/Kg-dry	Prep Date: 11/04/2014	Run No: 279218							
SampleType: MS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 198696	Analysis Date: 11/04/2014	Seq No: 5902959							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	51.08	5.3	52.95		96.5	56.6	151				
Benzene	52.25	5.3	52.95		98.7	70.4	130				
Chlorobenzene	49.94	5.3	52.95		94.3	67.5	132				
Toluene	51.89	5.3	52.95		98.0	70.4	130				
Trichloroethene	56.15	5.3	52.95		106	70.1	137				
Surr: 4-Bromofluorobenzene	50.24	0	52.95		94.9	70	128				
Surr: Dibromofluoromethane	51.48	0	52.95		97.2	78.2	128				
Surr: Toluene-d8	51.11	0	52.95		96.5	76.5	116				

Sample ID: 1411140-001AMSD	Client ID:	Units: ug/Kg-dry	Prep Date: 11/04/2014	Run No: 279218							
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 198696	Analysis Date: 11/04/2014	Seq No: 5902960							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	49.17	5.3	52.95		92.9	56.6	151	51.08	3.80	20.4	
Benzene	51.94	5.3	52.95		98.1	70.4	130	52.25	0.589	16.9	

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: EarthCon Consultants, Inc.
Project Name: Apollo
Workorder: 1411027

ANALYTICAL QC SUMMARY REPORT

BatchID: 198696

Sample ID: 1411140-001AMSD	Client ID:	Units: ug/Kg-dry	Prep Date: 11/04/2014	Run No: 279218							
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 198696	Analysis Date: 11/04/2014	Seq No: 5902960							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chlorobenzene	48.58	5.3	52.95		91.7	67.5	132	49.94	2.77	14.6	
Toluene	50.72	5.3	52.95		95.8	70.4	130	51.89	2.29	16.6	
Trichloroethene	53.86	5.3	52.95		102	70.1	137	56.15	4.16	17	
Surr: 4-Bromofluorobenzene	49.72	0	52.95		93.9	70	128	50.24	0	0	
Surr: Dibromofluoromethane	51.77	0	52.95		97.8	78.2	128	51.48	0	0	
Surr: Toluene-d8	50.87	0	52.95		96.1	76.5	116	51.11	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: Apollo
Workorder: 1411027

ANALYTICAL QC SUMMARY REPORT

BatchID: 198722

Sample ID: MB-198722	Client ID:	Units: ug/Kg	Prep Date: 11/04/2014	Run No: 279294							
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 198722	Analysis Date: 11/04/2014	Seq No: 5904512							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,2,4-Trichlorobenzene	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dibromoethane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,3-Dichlorobenzene	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
2-Butanone	BRL	50									
2-Hexanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	100									
Benzene	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Bromoform	BRL	5.0									
Bromomethane	BRL	5.0									
Carbon disulfide	BRL	10									
Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									
Chloroform	BRL	5.0									
Chloromethane	BRL	10									

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: Apollo
Workorder: 1411027

ANALYTICAL QC SUMMARY REPORT

BatchID: 198722

Sample ID: MB-198722	Client ID:	Units: ug/Kg	Prep Date: 11/04/2014	Run No: 279294							
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 198722	Analysis Date: 11/04/2014	Seq No: 5904512							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Freon-113	BRL	10									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	5.0									
Methyl acetate	BRL	5.0									
Methyl tert-butyl ether	BRL	5.0									
Methylcyclohexane	BRL	5.0									
Methylene chloride	BRL	20									
o-Xylene	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	10									
Surr: 4-Bromofluorobenzene	47.20	0	50.00		94.4	70	128				
Surr: Dibromofluoromethane	45.54	0	50.00		91.1	78.2	128				
Surr: Toluene-d8	47.19	0	50.00		94.4	76.5	116				

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: Apollo
Workorder: 1411027

ANALYTICAL QC SUMMARY REPORT

BatchID: 198722

Sample ID: LCS-198722	Client ID:	Units: ug/Kg	Prep Date: 11/04/2014	Run No: 279294							
SampleType: LCS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 198722	Analysis Date: 11/04/2014	Seq No: 5904509							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	45.76	5.0	50.00		91.5	69.9	145				
Benzene	50.67	5.0	50.00		101	72.3	130				
Chlorobenzene	48.03	5.0	50.00		96.1	69	130				
Toluene	49.70	5.0	50.00		99.4	71.1	130				
Trichloroethene	53.57	5.0	50.00		107	71.7	136				
Surr: 4-Bromofluorobenzene	47.25	0	50.00		94.5	70	128				
Surr: Dibromofluoromethane	45.31	0	50.00		90.6	78.2	128				
Surr: Toluene-d8	47.69	0	50.00		95.4	76.5	116				

Sample ID: 1410R57-001AMS	Client ID:	Units: ug/Kg-dry	Prep Date: 11/04/2014	Run No: 279294							
SampleType: MS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 198722	Analysis Date: 11/04/2014	Seq No: 5904510							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	50.32	5.3	53.07		94.8	56.6	151				
Benzene	55.34	5.3	53.07		104	70.4	130				
Chlorobenzene	53.92	5.3	53.07		102	67.5	132				
Toluene	54.28	5.3	53.07		102	70.4	130				
Trichloroethene	59.29	5.3	53.07		112	70.1	137				
Surr: 4-Bromofluorobenzene	49.64	0	53.07		93.5	70	128				
Surr: Dibromofluoromethane	48.19	0	53.07		90.8	78.2	128				
Surr: Toluene-d8	49.12	0	53.07		92.6	76.5	116				

Sample ID: 1410R57-001AMSD	Client ID:	Units: ug/Kg-dry	Prep Date: 11/04/2014	Run No: 279294							
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 198722	Analysis Date: 11/04/2014	Seq No: 5904511							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	47.39	5.3	53.07		89.3	56.6	151	50.32	6.00	20.4	
Benzene	52.60	5.3	53.07		99.1	70.4	130	55.34	5.07	16.9	

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: EarthCon Consultants, Inc.
 Project Name: Apollo
 Workorder: 1411027

ANALYTICAL QC SUMMARY REPORT

BatchID: 198722

Sample ID: 1410R57-001AMSD	Client ID:	Units: ug/Kg-dry	Prep Date: 11/04/2014	Run No: 279294							
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 198722	Analysis Date: 11/04/2014	Seq No: 5904511							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chlorobenzene	51.38	5.3	53.07		96.8	67.5	132	53.92	4.82	14.6	
Toluene	50.67	5.3	53.07		95.5	70.4	130	54.28	6.88	16.6	
Trichloroethene	55.18	5.3	53.07		104	70.1	137	59.29	7.18	17	
Surr: 4-Bromofluorobenzene	48.73	0	53.07		91.8	70	128	49.64	0	0	
Surr: Dibromofluoromethane	48.18	0	53.07		90.8	78.2	128	48.19	0	0	
Surr: Toluene-d8	49.85	0	53.07		93.9	76.5	116	49.12	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: Apollo
Workorder: 1411027

ANALYTICAL QC SUMMARY REPORT

BatchID: 198729

Sample ID: MB-198729	Client ID:	Units: ug/Kg	Prep Date: 11/04/2014	Run No: 279258							
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 198729	Analysis Date: 11/04/2014	Seq No: 5904833							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,2,4-Trichlorobenzene	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dibromoethane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,3-Dichlorobenzene	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
2-Butanone	BRL	50									
2-Hexanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	100									
Benzene	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Bromoform	BRL	5.0									
Bromomethane	BRL	5.0									
Carbon disulfide	BRL	10									
Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									
Chloroform	BRL	5.0									
Chloromethane	BRL	10									

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: Apollo
Workorder: 1411027

ANALYTICAL QC SUMMARY REPORT

BatchID: 198729

Sample ID: MB-198729	Client ID:	Units: ug/Kg	Prep Date: 11/04/2014	Run No: 279258							
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 198729	Analysis Date: 11/04/2014	Seq No: 5904833							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Freon-113	BRL	10									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	5.0									
Methyl acetate	BRL	5.0									
Methyl tert-butyl ether	BRL	5.0									
Methylcyclohexane	BRL	5.0									
Methylene chloride	BRL	20									
o-Xylene	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	10									
Surr: 4-Bromofluorobenzene	45.42	0	50.00		90.8	70	128				
Surr: Dibromofluoromethane	48.48	0	50.00		97.0	78.2	128				
Surr: Toluene-d8	48.28	0	50.00		96.6	76.5	116				

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: Apollo
Workorder: 1411027

ANALYTICAL QC SUMMARY REPORT

BatchID: 198729

Sample ID: LCS-198729	Client ID:	Units: ug/Kg	Prep Date: 11/04/2014	Run No: 279258							
SampleType: LCS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 198729	Analysis Date: 11/04/2014	Seq No: 5904848							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	43.45	5.0	50.00		86.9	69.9	145				
Benzene	50.65	5.0	50.00		101	72.3	130				
Chlorobenzene	49.97	5.0	50.00		99.9	69	130				
Toluene	49.74	5.0	50.00		99.5	71.1	130				
Trichloroethene	49.02	5.0	50.00		98.0	71.7	136				
Surr: 4-Bromofluorobenzene	46.04	0	50.00		92.1	70	128				
Surr: Dibromofluoromethane	47.09	0	50.00		94.2	78.2	128				
Surr: Toluene-d8	48.74	0	50.00		97.5	76.5	116				

Sample ID: 1410S49-001AMS	Client ID:	Units: ug/Kg-dry	Prep Date: 11/04/2014	Run No: 279258							
SampleType: MS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 198729	Analysis Date: 11/04/2014	Seq No: 5904862							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	3197	340	3399		94.1	56.6	151				
Benzene	3397	340	3399		99.9	70.4	130				
Chlorobenzene	3432	340	3399		101	67.5	132				
Toluene	3331	340	3399		98.0	70.4	130				
Trichloroethene	3271	340	3399		96.2	70.1	137				
Surr: 4-Bromofluorobenzene	3175	0	3399		93.4	70	128				
Surr: Dibromofluoromethane	2988	0	3399		87.9	78.2	128				
Surr: Toluene-d8	3264	0	3399		96.0	76.5	116				

Sample ID: 1410S49-001AMSD	Client ID:	Units: ug/Kg-dry	Prep Date: 11/04/2014	Run No: 279258							
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 198729	Analysis Date: 11/04/2014	Seq No: 5904872							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	3096	340	3399		91.1	56.6	151	3197	3.20	20.4	
Benzene	3386	340	3399		99.6	70.4	130	3397	0.321	16.9	

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: EarthCon Consultants, Inc.
Project Name: Apollo
Workorder: 1411027

ANALYTICAL QC SUMMARY REPORT

BatchID: 198729

Sample ID: 1410S49-001AMSD	Client ID:	Units: ug/Kg-dry	Prep Date: 11/04/2014	Run No: 279258							
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 198729	Analysis Date: 11/04/2014	Seq No: 5904872							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chlorobenzene	3402	340	3399		100	67.5	132	3432	0.875	14.6	
Toluene	3336	340	3399		98.1	70.4	130	3331	0.143	16.6	
Trichloroethene	3268	340	3399		96.1	70.1	137	3271	0.104	17	
Surr: 4-Bromofluorobenzene	3104	0	3399		91.3	70	128	3175	0	0	
Surr: Dibromofluoromethane	2977	0	3399		87.6	78.2	128	2988	0	0	
Surr: Toluene-d8	3266	0	3399		96.1	76.5	116	3264	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: Apollo
Workorder: 1411027

ANALYTICAL QC SUMMARY REPORT

BatchID: 198787

Sample ID: MB-198787	Client ID:	Units: ug/Kg	Prep Date: 11/05/2014	Run No: 279394							
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 198787	Analysis Date: 11/05/2014	Seq No: 5906616							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,2,4-Trichlorobenzene	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dibromoethane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,3-Dichlorobenzene	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
2-Butanone	BRL	50									
2-Hexanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	100									
Benzene	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Bromoform	BRL	5.0									
Bromomethane	BRL	5.0									
Carbon disulfide	BRL	10									
Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									
Chloroform	BRL	5.0									
Chloromethane	BRL	10									

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: Apollo
Workorder: 1411027

ANALYTICAL QC SUMMARY REPORT

BatchID: 198787

Sample ID: MB-198787	Client ID:	Units: ug/Kg	Prep Date: 11/05/2014	Run No: 279394							
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 198787	Analysis Date: 11/05/2014	Seq No: 5906616							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Freon-113	BRL	10									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	5.0									
Methyl acetate	BRL	5.0									
Methyl tert-butyl ether	BRL	5.0									
Methylcyclohexane	BRL	5.0									
Methylene chloride	BRL	20									
o-Xylene	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	10									
Surr: 4-Bromofluorobenzene	47.23	0	50.00		94.5	70	128				
Surr: Dibromofluoromethane	45.99	0	50.00		92.0	78.2	128				
Surr: Toluene-d8	47.13	0	50.00		94.3	76.5	116				

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: Apollo
Workorder: 1411027

ANALYTICAL QC SUMMARY REPORT

BatchID: 198787

Sample ID: LCS-198787	Client ID:	Units: ug/Kg	Prep Date: 11/05/2014	Run No: 279394							
SampleType: LCS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 198787	Analysis Date: 11/05/2014	Seq No: 5906612							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	47.64	5.0	50.00		95.3	69.9	145				
Benzene	51.88	5.0	50.00		104	72.3	130				
Chlorobenzene	50.94	5.0	50.00		102	69	130				
Toluene	51.45	5.0	50.00		103	71.1	130				
Trichloroethene	57.68	5.0	50.00		115	71.7	136				
Surr: 4-Bromofluorobenzene	47.29	0	50.00		94.6	70	128				
Surr: Dibromofluoromethane	46.20	0	50.00		92.4	78.2	128				
Surr: Toluene-d8	47.29	0	50.00		94.6	76.5	116				

Sample ID: 1411027-005AMS	Client ID: SB-2 3.5-4.0'	Units: ug/Kg	Prep Date: 11/05/2014	Run No: 279394							
SampleType: MS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 198787	Analysis Date: 11/05/2014	Seq No: 5906613							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	44.17	4.9	48.73		90.6	56.6	151				
Benzene	48.40	4.9	48.73		99.3	70.4	130				
Chlorobenzene	47.00	4.9	48.73		96.4	67.5	132				
Toluene	47.26	4.9	48.73		97.0	70.4	130				
Trichloroethene	52.95	4.9	48.73		109	70.1	137				
Surr: 4-Bromofluorobenzene	45.92	0	48.73		94.2	70	128				
Surr: Dibromofluoromethane	45.51	0	48.73		93.4	78.2	128				
Surr: Toluene-d8	46.03	0	48.73		94.5	76.5	116				

Sample ID: 1411027-005AMSD	Client ID: SB-2 3.5-4.0'	Units: ug/Kg	Prep Date: 11/05/2014	Run No: 279394							
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 198787	Analysis Date: 11/05/2014	Seq No: 5906615							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	43.68	4.9	48.73		89.6	56.6	151	44.17	1.11	20.4	
Benzene	47.79	4.9	48.73		98.1	70.4	130	48.40	1.28	16.9	

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: EarthCon Consultants, Inc.
 Project Name: Apollo
 Workorder: 1411027

ANALYTICAL QC SUMMARY REPORT

BatchID: 198787

Sample ID: 1411027-005AMSD	Client ID: SB-2 3.5-4.0'	Units: ug/Kg	Prep Date: 11/05/2014	Run No: 279394
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 198787	Analysis Date: 11/05/2014	Seq No: 5906615

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorobenzene	47.62	4.9	48.73		97.7	67.5	132	47.00	1.32	14.6	
Toluene	47.47	4.9	48.73		97.4	70.4	130	47.26	0.432	16.6	
Trichloroethene	51.07	4.9	48.73		105	70.1	137	52.95	3.62	17	
Surr: 4-Bromofluorobenzene	46.64	0	48.73		95.7	70	128	45.92	0	0	
Surr: Dibromofluoromethane	45.62	0	48.73		93.6	78.2	128	45.51	0	0	
Surr: Toluene-d8	46.74	0	48.73		95.9	76.5	116	46.03	0	0	

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
	BRL Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
	J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
	Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	

**GROUNDWATER, SURFACE WATER, SEDIMENT
LABORATORY ANALYTICAL REPORTS**



October 16, 2014

Kristen Rivera
EarthCon Consultants, Inc.
1880 West Oak Parkway
Marietta GA 30062

TEL: (770) 973-2100
FAX: (770) 973-7395

RE: Apollo--Smyrna

Dear Kristen Rivera:

Order No: 1410761

Analytical Environmental Services, Inc. received 5 samples on 10/8/2014 2:32:00 PM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/14-06/30/15.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/15.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Chantelle Kanhai
Project Manager



ANALYTICAL ENVIRONMENTAL SERVICES, INC

3080 Presidential Drive, Atlanta GA 30340-3704

AES TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1410761

Date: 10/7/14 Page 1 of 1

COMPANY: <u>EarthCon</u>		ADDRESS: <u>1880 West Oak Pkwy Bldg 100 Ste 106 Marietta, GA 30062</u>			ANALYSIS REQUESTED										Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.		No # of Containers	
PHONE: <u>770 973 2100</u>		FAX:			TOC	Alkalinity	Sulfide	GC methanol	TCL VOC	ION SCAN								
SAMPLED BY: <u>Jmckuney / S. Woolf</u>		SIGNATURE: <u>[Signature]</u>			PRESERVATION (See codes)										REMARKS			
#	SAMPLE ID	DATE	TIME	Grab	Composite	Matrix (See codes)	H+	I	OH	H+	H+	I						
1	<u>MW6</u>	<u>10/7/14</u>	<u>1507</u>	<u>X</u>		<u>GW</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>2</u>	<u>2</u>	<u>1</u>						<u>8</u>
2	<u>MW8</u>	<u>10/7/14</u>	<u>1624</u>	<u>X</u>		<u>GW</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>2</u>	<u>2</u>	<u>1</u>						<u>8</u>
3	<u>MW9</u>	<u>10/7/14</u>	<u>1724</u>	<u>X</u>		<u>GW</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>2</u>	<u>2</u>	<u>1</u>						<u>7</u>
4	<u>MW13</u>	<u>10/7/14</u>	<u>1823</u>	<u>X</u>		<u>GW</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>2</u>	<u>2</u>	<u>1</u>						<u>8</u>
5	<u>MW7</u>	<u>10/7/14</u>	<u>1909</u>	<u>X</u>		<u>GW</u>	<u>1</u>	<u>1</u>	<u>2</u>	<u>2</u>	<u>2</u>	<u>1</u>						<u>8</u>
6																		
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9																		
10																		
11																		
12																		
13																		
14																		
RELINQUISHED BY: <u>[Signature]</u>		DATE/TIME: <u>10/7/14 2030</u>	RECEIVED BY: <u>[Signature]</u>		DATE/TIME: <u>10-8-14</u>	PROJECT INFORMATION										RECEIPT		
						PROJECT NAME: <u>Apollo - Smyrna</u>										Total # of Containers: <u>39</u>		
						PROJECT #: _____										Turnaround Time Request		
						SITE ADDRESS: _____										<input checked="" type="radio"/> Standard 5 Business Days		
						SEND REPORT TO: <u>Kristen Ruelka</u>										<input type="radio"/> 2 Business Day Rush		
						INVOICE TO: _____										<input type="radio"/> Next Business Day Rush		
						(IF DIFFERENT FROM ABOVE)										<input type="radio"/> Same Day Rush (auth req.)		
						QUOTE #: _____ PO#: _____										<input type="radio"/> Other _____		
SPECIAL INSTRUCTIONS/COMMENTS:		SHIPMENT METHOD													STATE PROGRAM (if any): _____			
		OUT <u>1/1</u> VIA: _____													E-mail? Y/N; Fax? Y/N			
		IN <u>10/8/14</u> VIA: _____													DATA PACKAGE: I II III IV			
		CLIENT FedEx UPS MAIL <u>COURIER</u>																
		GREYHOUND OTHER _____																

SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY. IF TURNAROUND TIME IS NOT INDICATED, AES WILL PROCEED WITH STANDARD TAT OF SAMPLES. SAMPLES ARE DISPOSED 30 DAYS AFTER REPORT COMPLETION UNLESS OTHER ARRANGEMENTS ARE MADE.

Analytical Environmental Services, Inc

Date: 16-Oct-14

Client: EarthCon Consultants, Inc.	Client Sample ID: MW6
Project Name: Apollo--Smyrna	Collection Date: 10/7/2014 3:07:00 PM
Lab ID: 1410761-001	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) SW9060A								
Organic Carbon, Total	3.10	1.00		mg/L	R277815	1	10/13/2014 19:05	JM
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	197454	1	10/10/2014 02:13	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	197454	1	10/10/2014 02:13	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	197454	1	10/10/2014 02:13	NP
1,1-Dichloroethane	15	5.0		ug/L	197454	1	10/10/2014 02:13	NP
1,1-Dichloroethene	110	5.0		ug/L	197454	1	10/10/2014 02:13	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	197454	1	10/10/2014 02:13	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	197454	1	10/10/2014 02:13	NP
1,2-Dibromoethane	BRL	5.0		ug/L	197454	1	10/10/2014 02:13	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	197454	1	10/10/2014 02:13	NP
1,2-Dichloroethane	BRL	5.0		ug/L	197454	1	10/10/2014 02:13	NP
1,2-Dichloropropane	BRL	5.0		ug/L	197454	1	10/10/2014 02:13	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	197454	1	10/10/2014 02:13	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	197454	1	10/10/2014 02:13	NP
2-Butanone	BRL	50		ug/L	197454	1	10/10/2014 02:13	NP
2-Hexanone	BRL	10		ug/L	197454	1	10/10/2014 02:13	NP
4-Methyl-2-pentanone	BRL	10		ug/L	197454	1	10/10/2014 02:13	NP
Acetone	BRL	50		ug/L	197454	1	10/10/2014 02:13	NP
Benzene	BRL	5.0		ug/L	197454	1	10/10/2014 02:13	NP
Bromodichloromethane	BRL	5.0		ug/L	197454	1	10/10/2014 02:13	NP
Bromoform	BRL	5.0		ug/L	197454	1	10/10/2014 02:13	NP
Bromomethane	BRL	5.0		ug/L	197454	1	10/10/2014 02:13	NP
Carbon disulfide	BRL	5.0		ug/L	197454	1	10/10/2014 02:13	NP
Carbon tetrachloride	BRL	5.0		ug/L	197454	1	10/10/2014 02:13	NP
Chlorobenzene	BRL	5.0		ug/L	197454	1	10/10/2014 02:13	NP
Chloroethane	BRL	10		ug/L	197454	1	10/10/2014 02:13	NP
Chloroform	BRL	5.0		ug/L	197454	1	10/10/2014 02:13	NP
Chloromethane	BRL	10		ug/L	197454	1	10/10/2014 02:13	NP
cis-1,2-Dichloroethene	5.8	5.0		ug/L	197454	1	10/10/2014 02:13	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	197454	1	10/10/2014 02:13	NP
Cyclohexane	BRL	5.0		ug/L	197454	1	10/10/2014 02:13	NP
Dibromochloromethane	BRL	5.0		ug/L	197454	1	10/10/2014 02:13	NP
Dichlorodifluoromethane	BRL	10		ug/L	197454	1	10/10/2014 02:13	NP
Ethylbenzene	BRL	5.0		ug/L	197454	1	10/10/2014 02:13	NP
Freon-113	11	10		ug/L	197454	1	10/10/2014 02:13	NP
Isopropylbenzene	BRL	5.0		ug/L	197454	1	10/10/2014 02:13	NP
m,p-Xylene	BRL	5.0		ug/L	197454	1	10/10/2014 02:13	NP
Methyl acetate	BRL	5.0		ug/L	197454	1	10/10/2014 02:13	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	197454	1	10/10/2014 02:13	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: EarthCon Consultants, Inc.	Client Sample ID: MW6
Project Name: Apollo--Smyrna	Collection Date: 10/7/2014 3:07:00 PM
Lab ID: 1410761-001	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B			(SW5030B)					
Methylcyclohexane	BRL	5.0		ug/L	197454	1	10/10/2014 02:13	NP
Methylene chloride	BRL	5.0		ug/L	197454	1	10/10/2014 02:13	NP
o-Xylene	BRL	5.0		ug/L	197454	1	10/10/2014 02:13	NP
Styrene	BRL	5.0		ug/L	197454	1	10/10/2014 02:13	NP
Tetrachloroethene	BRL	5.0		ug/L	197454	1	10/10/2014 02:13	NP
Toluene	BRL	5.0		ug/L	197454	1	10/10/2014 02:13	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	197454	1	10/10/2014 02:13	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	197454	1	10/10/2014 02:13	NP
Trichloroethene	BRL	5.0		ug/L	197454	1	10/10/2014 02:13	NP
Trichlorofluoromethane	BRL	5.0		ug/L	197454	1	10/10/2014 02:13	NP
Vinyl chloride	37	2.0		ug/L	197454	1	10/10/2014 02:13	NP
Surr: 4-Bromofluorobenzene	82.6	66.2-120		%REC	197454	1	10/10/2014 02:13	NP
Surr: Dibromofluoromethane	118	79.5-121		%REC	197454	1	10/10/2014 02:13	NP
Surr: Toluene-d8	95.7	77-117		%REC	197454	1	10/10/2014 02:13	NP
Sulfide by SW9030B/9034			(SW9030B)					
Sulfide	BRL	2.00		mg/L	197734	1	10/14/2014 09:35	AB
ION SCAN SW9056A								
Chloride	7.5	1.0		mg/L	R277601	1	10/08/2014 21:22	YS
Nitrate	BRL	0.25		mg/L	R277601	1	10/08/2014 21:22	YS
Sulfate	BRL	1.0		mg/L	R277601	1	10/08/2014 21:22	YS
GC Analysis of Gaseous Samples SOP-RSK 175			(RSK175)					
Ethane	20	9		ug/L	197404	1	10/10/2014 14:50	JM
Ethylene	BRL	7		ug/L	197404	1	10/10/2014 14:50	JM
Methane	2800	80		ug/L	197404	20	10/10/2014 15:09	JM
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	67.0	3.00		mg/L	R277885	1	10/14/2014 15:00	PF

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 16-Oct-14

Client: EarthCon Consultants, Inc.	Client Sample ID: MW8
Project Name: Apollo--Smyrna	Collection Date: 10/7/2014 4:24:00 PM
Lab ID: 1410761-002	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) SW9060A								
Organic Carbon, Total	1.51	1.00		mg/L	R277815	1	10/13/2014 19:26	JM
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	5.9	5.0		ug/L	197454	1	10/10/2014 02:37	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	197454	1	10/10/2014 02:37	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	197454	1	10/10/2014 02:37	NP
1,1-Dichloroethane	BRL	5.0		ug/L	197454	1	10/10/2014 02:37	NP
1,1-Dichloroethene	18	5.0		ug/L	197454	1	10/10/2014 02:37	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	197454	1	10/10/2014 02:37	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	197454	1	10/10/2014 02:37	NP
1,2-Dibromoethane	BRL	5.0		ug/L	197454	1	10/10/2014 02:37	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	197454	1	10/10/2014 02:37	NP
1,2-Dichloroethane	BRL	5.0		ug/L	197454	1	10/10/2014 02:37	NP
1,2-Dichloropropane	BRL	5.0		ug/L	197454	1	10/10/2014 02:37	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	197454	1	10/10/2014 02:37	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	197454	1	10/10/2014 02:37	NP
2-Butanone	BRL	50		ug/L	197454	1	10/10/2014 02:37	NP
2-Hexanone	BRL	10		ug/L	197454	1	10/10/2014 02:37	NP
4-Methyl-2-pentanone	BRL	10		ug/L	197454	1	10/10/2014 02:37	NP
Acetone	BRL	50		ug/L	197454	1	10/10/2014 02:37	NP
Benzene	BRL	5.0		ug/L	197454	1	10/10/2014 02:37	NP
Bromodichloromethane	BRL	5.0		ug/L	197454	1	10/10/2014 02:37	NP
Bromoform	BRL	5.0		ug/L	197454	1	10/10/2014 02:37	NP
Bromomethane	BRL	5.0		ug/L	197454	1	10/10/2014 02:37	NP
Carbon disulfide	BRL	5.0		ug/L	197454	1	10/10/2014 02:37	NP
Carbon tetrachloride	BRL	5.0		ug/L	197454	1	10/10/2014 02:37	NP
Chlorobenzene	BRL	5.0		ug/L	197454	1	10/10/2014 02:37	NP
Chloroethane	BRL	10		ug/L	197454	1	10/10/2014 02:37	NP
Chloroform	5.3	5.0		ug/L	197454	1	10/10/2014 02:37	NP
Chloromethane	BRL	10		ug/L	197454	1	10/10/2014 02:37	NP
cis-1,2-Dichloroethene	25	5.0		ug/L	197454	1	10/10/2014 02:37	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	197454	1	10/10/2014 02:37	NP
Cyclohexane	BRL	5.0		ug/L	197454	1	10/10/2014 02:37	NP
Dibromochloromethane	BRL	5.0		ug/L	197454	1	10/10/2014 02:37	NP
Dichlorodifluoromethane	BRL	10		ug/L	197454	1	10/10/2014 02:37	NP
Ethylbenzene	BRL	5.0		ug/L	197454	1	10/10/2014 02:37	NP
Freon-113	BRL	10		ug/L	197454	1	10/10/2014 02:37	NP
Isopropylbenzene	BRL	5.0		ug/L	197454	1	10/10/2014 02:37	NP
m,p-Xylene	BRL	5.0		ug/L	197454	1	10/10/2014 02:37	NP
Methyl acetate	BRL	5.0		ug/L	197454	1	10/10/2014 02:37	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	197454	1	10/10/2014 02:37	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: EarthCon Consultants, Inc.	Client Sample ID: MW8
Project Name: Apollo--Smyrna	Collection Date: 10/7/2014 4:24:00 PM
Lab ID: 1410761-002	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					(SW5030B)			
Methylcyclohexane	BRL	5.0		ug/L	197454	1	10/10/2014 02:37	NP
Methylene chloride	BRL	5.0		ug/L	197454	1	10/10/2014 02:37	NP
o-Xylene	BRL	5.0		ug/L	197454	1	10/10/2014 02:37	NP
Styrene	BRL	5.0		ug/L	197454	1	10/10/2014 02:37	NP
Tetrachloroethene	320	50		ug/L	197454	10	10/10/2014 17:18	NP
Toluene	BRL	5.0		ug/L	197454	1	10/10/2014 02:37	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	197454	1	10/10/2014 02:37	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	197454	1	10/10/2014 02:37	NP
Trichloroethene	670	50		ug/L	197454	10	10/10/2014 17:18	NP
Trichlorofluoromethane	BRL	5.0		ug/L	197454	1	10/10/2014 02:37	NP
Vinyl chloride	BRL	2.0		ug/L	197454	1	10/10/2014 02:37	NP
Surr: 4-Bromofluorobenzene	79.5	66.2-120		%REC	197454	1	10/10/2014 02:37	NP
Surr: 4-Bromofluorobenzene	83.1	66.2-120		%REC	197454	10	10/10/2014 17:18	NP
Surr: Dibromofluoromethane	111	79.5-121		%REC	197454	10	10/10/2014 17:18	NP
Surr: Dibromofluoromethane	117	79.5-121		%REC	197454	1	10/10/2014 02:37	NP
Surr: Toluene-d8	94.8	77-117		%REC	197454	10	10/10/2014 17:18	NP
Surr: Toluene-d8	98.1	77-117		%REC	197454	1	10/10/2014 02:37	NP
Sulfide by SW9030B/9034					(SW9030B)			
Sulfide	BRL	2.00		mg/L	197734	1	10/14/2014 09:35	AB
ION SCAN SW9056A								
Chloride	4.3	1.0		mg/L	R277601	1	10/08/2014 21:36	YS
Nitrate	BRL	0.25		mg/L	R277601	1	10/08/2014 21:36	YS
Sulfate	BRL	1.0		mg/L	R277601	1	10/08/2014 21:36	YS
GC Analysis of Gaseous Samples SOP-RSK 175					(RSK175)			
Ethane	BRL	9		ug/L	197404	1	10/10/2014 14:54	JM
Ethylene	BRL	7		ug/L	197404	1	10/10/2014 14:54	JM
Methane	140	4		ug/L	197404	1	10/10/2014 14:54	JM
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	19.0	3.00		mg/L	R277885	1	10/14/2014 15:00	PF

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 16-Oct-14

Client: EarthCon Consultants, Inc.	Client Sample ID: MW9
Project Name: Apollo--Smyrna	Collection Date: 10/7/2014 5:24:00 PM
Lab ID: 1410761-003	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) SW9060A								
Organic Carbon, Total	1.27	1.00		mg/L	R277815	1	10/13/2014 19:45	JM
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	197454	1	10/10/2014 03:02	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	197454	1	10/10/2014 03:02	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	197454	1	10/10/2014 03:02	NP
1,1-Dichloroethane	BRL	5.0		ug/L	197454	1	10/10/2014 03:02	NP
1,1-Dichloroethene	BRL	5.0		ug/L	197454	1	10/10/2014 03:02	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	197454	1	10/10/2014 03:02	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	197454	1	10/10/2014 03:02	NP
1,2-Dibromoethane	BRL	5.0		ug/L	197454	1	10/10/2014 03:02	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	197454	1	10/10/2014 03:02	NP
1,2-Dichloroethane	BRL	5.0		ug/L	197454	1	10/10/2014 03:02	NP
1,2-Dichloropropane	BRL	5.0		ug/L	197454	1	10/10/2014 03:02	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	197454	1	10/10/2014 03:02	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	197454	1	10/10/2014 03:02	NP
2-Butanone	BRL	50		ug/L	197454	1	10/10/2014 03:02	NP
2-Hexanone	BRL	10		ug/L	197454	1	10/10/2014 03:02	NP
4-Methyl-2-pentanone	BRL	10		ug/L	197454	1	10/10/2014 03:02	NP
Acetone	BRL	50		ug/L	197454	1	10/10/2014 03:02	NP
Benzene	BRL	5.0		ug/L	197454	1	10/10/2014 03:02	NP
Bromodichloromethane	BRL	5.0		ug/L	197454	1	10/10/2014 03:02	NP
Bromoform	BRL	5.0		ug/L	197454	1	10/10/2014 03:02	NP
Bromomethane	BRL	5.0		ug/L	197454	1	10/10/2014 03:02	NP
Carbon disulfide	BRL	5.0		ug/L	197454	1	10/10/2014 03:02	NP
Carbon tetrachloride	BRL	5.0		ug/L	197454	1	10/10/2014 03:02	NP
Chlorobenzene	BRL	5.0		ug/L	197454	1	10/10/2014 03:02	NP
Chloroethane	BRL	10		ug/L	197454	1	10/10/2014 03:02	NP
Chloroform	BRL	5.0		ug/L	197454	1	10/10/2014 03:02	NP
Chloromethane	BRL	10		ug/L	197454	1	10/10/2014 03:02	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	197454	1	10/10/2014 03:02	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	197454	1	10/10/2014 03:02	NP
Cyclohexane	BRL	5.0		ug/L	197454	1	10/10/2014 03:02	NP
Dibromochloromethane	BRL	5.0		ug/L	197454	1	10/10/2014 03:02	NP
Dichlorodifluoromethane	BRL	10		ug/L	197454	1	10/10/2014 03:02	NP
Ethylbenzene	BRL	5.0		ug/L	197454	1	10/10/2014 03:02	NP
Freon-113	BRL	10		ug/L	197454	1	10/10/2014 03:02	NP
Isopropylbenzene	BRL	5.0		ug/L	197454	1	10/10/2014 03:02	NP
m,p-Xylene	BRL	5.0		ug/L	197454	1	10/10/2014 03:02	NP
Methyl acetate	BRL	5.0		ug/L	197454	1	10/10/2014 03:02	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	197454	1	10/10/2014 03:02	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: EarthCon Consultants, Inc.	Client Sample ID: MW9
Project Name: Apollo--Smyrna	Collection Date: 10/7/2014 5:24:00 PM
Lab ID: 1410761-003	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					(SW5030B)			
Methylcyclohexane	BRL	5.0		ug/L	197454	1	10/10/2014 03:02	NP
Methylene chloride	BRL	5.0		ug/L	197454	1	10/10/2014 03:02	NP
o-Xylene	BRL	5.0		ug/L	197454	1	10/10/2014 03:02	NP
Styrene	BRL	5.0		ug/L	197454	1	10/10/2014 03:02	NP
Tetrachloroethene	BRL	5.0		ug/L	197454	1	10/10/2014 03:02	NP
Toluene	BRL	5.0		ug/L	197454	1	10/10/2014 03:02	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	197454	1	10/10/2014 03:02	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	197454	1	10/10/2014 03:02	NP
Trichloroethene	BRL	5.0		ug/L	197454	1	10/10/2014 03:02	NP
Trichlorofluoromethane	BRL	5.0		ug/L	197454	1	10/10/2014 03:02	NP
Vinyl chloride	BRL	2.0		ug/L	197454	1	10/10/2014 03:02	NP
Surr: 4-Bromofluorobenzene	81.1	66.2-120		%REC	197454	1	10/10/2014 03:02	NP
Surr: Dibromofluoromethane	116	79.5-121		%REC	197454	1	10/10/2014 03:02	NP
Surr: Toluene-d8	97.3	77-117		%REC	197454	1	10/10/2014 03:02	NP
Sulfide by SW9030B/9034					(SW9030B)			
Sulfide	BRL	2.00		mg/L	197734	1	10/14/2014 09:35	AB
ION SCAN SW9056A								
Chloride	5.3	1.0		mg/L	R277601	1	10/08/2014 21:51	YS
Nitrate	BRL	0.25		mg/L	R277601	1	10/08/2014 21:51	YS
Sulfate	2.9	1.0		mg/L	R277601	1	10/08/2014 21:51	YS
GC Analysis of Gaseous Samples SOP-RSK 175					(RSK175)			
Ethane	BRL	9		ug/L	197404	1	10/10/2014 14:59	JM
Ethylene	BRL	7		ug/L	197404	1	10/10/2014 14:59	JM
Methane	53	4		ug/L	197404	1	10/10/2014 14:59	JM
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	18.0	3.00		mg/L	R277885	1	10/14/2014 15:00	PF

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 16-Oct-14

Client: EarthCon Consultants, Inc.	Client Sample ID: MW13
Project Name: Apollo--Smyrna	Collection Date: 10/7/2014 6:23:00 PM
Lab ID: 1410761-004	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) SW9060A								
Organic Carbon, Total	2.03	1.00		mg/L	R277815	1	10/13/2014 20:06	JM
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	197454	1	10/10/2014 03:26	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	197454	1	10/10/2014 03:26	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	197454	1	10/10/2014 03:26	NP
1,1-Dichloroethane	BRL	5.0		ug/L	197454	1	10/10/2014 03:26	NP
1,1-Dichloroethene	BRL	5.0		ug/L	197454	1	10/10/2014 03:26	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	197454	1	10/10/2014 03:26	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	197454	1	10/10/2014 03:26	NP
1,2-Dibromoethane	BRL	5.0		ug/L	197454	1	10/10/2014 03:26	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	197454	1	10/10/2014 03:26	NP
1,2-Dichloroethane	BRL	5.0		ug/L	197454	1	10/10/2014 03:26	NP
1,2-Dichloropropane	BRL	5.0		ug/L	197454	1	10/10/2014 03:26	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	197454	1	10/10/2014 03:26	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	197454	1	10/10/2014 03:26	NP
2-Butanone	BRL	50		ug/L	197454	1	10/10/2014 03:26	NP
2-Hexanone	BRL	10		ug/L	197454	1	10/10/2014 03:26	NP
4-Methyl-2-pentanone	BRL	10		ug/L	197454	1	10/10/2014 03:26	NP
Acetone	BRL	50		ug/L	197454	1	10/10/2014 03:26	NP
Benzene	BRL	5.0		ug/L	197454	1	10/10/2014 03:26	NP
Bromodichloromethane	BRL	5.0		ug/L	197454	1	10/10/2014 03:26	NP
Bromoform	BRL	5.0		ug/L	197454	1	10/10/2014 03:26	NP
Bromomethane	BRL	5.0		ug/L	197454	1	10/10/2014 03:26	NP
Carbon disulfide	BRL	5.0		ug/L	197454	1	10/10/2014 03:26	NP
Carbon tetrachloride	BRL	5.0		ug/L	197454	1	10/10/2014 03:26	NP
Chlorobenzene	BRL	5.0		ug/L	197454	1	10/10/2014 03:26	NP
Chloroethane	BRL	10		ug/L	197454	1	10/10/2014 03:26	NP
Chloroform	BRL	5.0		ug/L	197454	1	10/10/2014 03:26	NP
Chloromethane	BRL	10		ug/L	197454	1	10/10/2014 03:26	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	197454	1	10/10/2014 03:26	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	197454	1	10/10/2014 03:26	NP
Cyclohexane	BRL	5.0		ug/L	197454	1	10/10/2014 03:26	NP
Dibromochloromethane	BRL	5.0		ug/L	197454	1	10/10/2014 03:26	NP
Dichlorodifluoromethane	BRL	10		ug/L	197454	1	10/10/2014 03:26	NP
Ethylbenzene	BRL	5.0		ug/L	197454	1	10/10/2014 03:26	NP
Freon-113	BRL	10		ug/L	197454	1	10/10/2014 03:26	NP
Isopropylbenzene	BRL	5.0		ug/L	197454	1	10/10/2014 03:26	NP
m,p-Xylene	BRL	5.0		ug/L	197454	1	10/10/2014 03:26	NP
Methyl acetate	BRL	5.0		ug/L	197454	1	10/10/2014 03:26	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	197454	1	10/10/2014 03:26	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: EarthCon Consultants, Inc.	Client Sample ID: MW13
Project Name: Apollo--Smyrna	Collection Date: 10/7/2014 6:23:00 PM
Lab ID: 1410761-004	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					(SW5030B)			
Methylcyclohexane	BRL	5.0		ug/L	197454	1	10/10/2014 03:26	NP
Methylene chloride	BRL	5.0		ug/L	197454	1	10/10/2014 03:26	NP
o-Xylene	BRL	5.0		ug/L	197454	1	10/10/2014 03:26	NP
Styrene	BRL	5.0		ug/L	197454	1	10/10/2014 03:26	NP
Tetrachloroethene	BRL	5.0		ug/L	197454	1	10/10/2014 03:26	NP
Toluene	BRL	5.0		ug/L	197454	1	10/10/2014 03:26	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	197454	1	10/10/2014 03:26	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	197454	1	10/10/2014 03:26	NP
Trichloroethene	BRL	5.0		ug/L	197454	1	10/10/2014 03:26	NP
Trichlorofluoromethane	BRL	5.0		ug/L	197454	1	10/10/2014 03:26	NP
Vinyl chloride	BRL	2.0		ug/L	197454	1	10/10/2014 03:26	NP
Surr: 4-Bromofluorobenzene	83.8	66.2-120		%REC	197454	1	10/10/2014 03:26	NP
Surr: Dibromofluoromethane	117	79.5-121		%REC	197454	1	10/10/2014 03:26	NP
Surr: Toluene-d8	97.7	77-117		%REC	197454	1	10/10/2014 03:26	NP
Sulfide by SW9030B/9034					(SW9030B)			
Sulfide	BRL	2.00		mg/L	197734	1	10/14/2014 09:35	AB
ION SCAN SW9056A								
Chloride	7.6	1.0		mg/L	R277601	1	10/08/2014 22:06	YS
Nitrate	BRL	0.25		mg/L	R277601	1	10/08/2014 22:06	YS
Sulfate	BRL	1.0		mg/L	R277601	1	10/08/2014 22:06	YS
GC Analysis of Gaseous Samples SOP-RSK 175					(RSK175)			
Ethane	200	9		ug/L	197404	1	10/10/2014 15:14	JM
Ethylene	BRL	7		ug/L	197404	1	10/10/2014 15:14	JM
Methane	4500	200		ug/L	197404	50	10/10/2014 16:58	JM
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	52.0	3.00		mg/L	R277885	1	10/14/2014 15:00	PF

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 16-Oct-14

Client: EarthCon Consultants, Inc.	Client Sample ID: MW7
Project Name: Apollo--Smyrna	Collection Date: 10/7/2014 7:09:00 PM
Lab ID: 1410761-005	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) SW9060A								
Organic Carbon, Total	2.87	1.00		mg/L	R277815	1	10/13/2014 20:26	JM
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	197454	1	10/10/2014 03:50	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	197454	1	10/10/2014 03:50	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	197454	1	10/10/2014 03:50	NP
1,1-Dichloroethane	BRL	5.0		ug/L	197454	1	10/10/2014 03:50	NP
1,1-Dichloroethene	8.7	5.0		ug/L	197454	1	10/10/2014 03:50	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	197454	1	10/10/2014 03:50	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	197454	1	10/10/2014 03:50	NP
1,2-Dibromoethane	BRL	5.0		ug/L	197454	1	10/10/2014 03:50	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	197454	1	10/10/2014 03:50	NP
1,2-Dichloroethane	BRL	5.0		ug/L	197454	1	10/10/2014 03:50	NP
1,2-Dichloropropane	BRL	5.0		ug/L	197454	1	10/10/2014 03:50	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	197454	1	10/10/2014 03:50	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	197454	1	10/10/2014 03:50	NP
2-Butanone	BRL	50		ug/L	197454	1	10/10/2014 03:50	NP
2-Hexanone	BRL	10		ug/L	197454	1	10/10/2014 03:50	NP
4-Methyl-2-pentanone	BRL	10		ug/L	197454	1	10/10/2014 03:50	NP
Acetone	BRL	50		ug/L	197454	1	10/10/2014 03:50	NP
Benzene	BRL	5.0		ug/L	197454	1	10/10/2014 03:50	NP
Bromodichloromethane	BRL	5.0		ug/L	197454	1	10/10/2014 03:50	NP
Bromoform	BRL	5.0		ug/L	197454	1	10/10/2014 03:50	NP
Bromomethane	BRL	5.0		ug/L	197454	1	10/10/2014 03:50	NP
Carbon disulfide	BRL	5.0		ug/L	197454	1	10/10/2014 03:50	NP
Carbon tetrachloride	BRL	5.0		ug/L	197454	1	10/10/2014 03:50	NP
Chlorobenzene	BRL	5.0		ug/L	197454	1	10/10/2014 03:50	NP
Chloroethane	BRL	10		ug/L	197454	1	10/10/2014 03:50	NP
Chloroform	BRL	5.0		ug/L	197454	1	10/10/2014 03:50	NP
Chloromethane	BRL	10		ug/L	197454	1	10/10/2014 03:50	NP
cis-1,2-Dichloroethene	1300	50		ug/L	197454	10	10/10/2014 17:42	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	197454	1	10/10/2014 03:50	NP
Cyclohexane	BRL	5.0		ug/L	197454	1	10/10/2014 03:50	NP
Dibromochloromethane	BRL	5.0		ug/L	197454	1	10/10/2014 03:50	NP
Dichlorodifluoromethane	BRL	10		ug/L	197454	1	10/10/2014 03:50	NP
Ethylbenzene	BRL	5.0		ug/L	197454	1	10/10/2014 03:50	NP
Freon-113	BRL	10		ug/L	197454	1	10/10/2014 03:50	NP
Isopropylbenzene	BRL	5.0		ug/L	197454	1	10/10/2014 03:50	NP
m,p-Xylene	7.8	5.0		ug/L	197454	1	10/10/2014 03:50	NP
Methyl acetate	BRL	5.0		ug/L	197454	1	10/10/2014 03:50	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	197454	1	10/10/2014 03:50	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: EarthCon Consultants, Inc.	Client Sample ID: MW7
Project Name: Apollo--Smyrna	Collection Date: 10/7/2014 7:09:00 PM
Lab ID: 1410761-005	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					(SW5030B)			
Methylcyclohexane	BRL	5.0		ug/L	197454	1	10/10/2014 03:50	NP
Methylene chloride	BRL	5.0		ug/L	197454	1	10/10/2014 03:50	NP
o-Xylene	BRL	5.0		ug/L	197454	1	10/10/2014 03:50	NP
Styrene	BRL	5.0		ug/L	197454	1	10/10/2014 03:50	NP
Tetrachloroethene	BRL	5.0		ug/L	197454	1	10/10/2014 03:50	NP
Toluene	12	5.0		ug/L	197454	1	10/10/2014 03:50	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	197454	1	10/10/2014 03:50	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	197454	1	10/10/2014 03:50	NP
Trichloroethene	BRL	5.0		ug/L	197454	1	10/10/2014 03:50	NP
Trichlorofluoromethane	BRL	5.0		ug/L	197454	1	10/10/2014 03:50	NP
Vinyl chloride	620	20		ug/L	197454	10	10/10/2014 17:42	NP
Surr: 4-Bromofluorobenzene	82.6	66.2-120		%REC	197454	10	10/10/2014 17:42	NP
Surr: 4-Bromofluorobenzene	84.6	66.2-120		%REC	197454	1	10/10/2014 03:50	NP
Surr: Dibromofluoromethane	112	79.5-121		%REC	197454	10	10/10/2014 17:42	NP
Surr: Dibromofluoromethane	113	79.5-121		%REC	197454	1	10/10/2014 03:50	NP
Surr: Toluene-d8	93.3	77-117		%REC	197454	10	10/10/2014 17:42	NP
Surr: Toluene-d8	94.3	77-117		%REC	197454	1	10/10/2014 03:50	NP
Sulfide by SW9030B/9034					(SW9030B)			
Sulfide	BRL	2.00		mg/L	197734	1	10/14/2014 09:35	AB
ION SCAN SW9056A								
Chloride	10.0	1.0		mg/L	R277601	1	10/08/2014 22:20	YS
Nitrate	BRL	0.25		mg/L	R277601	1	10/08/2014 22:20	YS
Sulfate	BRL	1.0		mg/L	R277601	1	10/08/2014 22:20	YS
GC Analysis of Gaseous Samples SOP-RSK 175					(RSK175)			
Ethane	34	9		ug/L	197404	1	10/10/2014 15:18	JM
Ethylene	210	7		ug/L	197404	1	10/10/2014 15:18	JM
Methane	3900	200		ug/L	197404	50	10/10/2014 17:03	JM
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	104	3.00		mg/L	R277885	1	10/14/2014 15:00	PF

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client EarthCon

Work Order Number 1410761

Checklist completed by Jenna Pacuvar 10/8/14
Signature Date

Carrier name: FedEx UPS Courier Client US Mail Other

Shipping container/cooler in good condition? Yes No Not Present

Custody seals intact on shipping container/cooler? Yes No Not Present

Custody seals intact on sample bottles? Yes No Not Present

Container/Temp Blank temperature in compliance? ($0^{\circ} \leq 6^{\circ}C$)* Yes No

Cooler #1 3.1°C Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler #5 _____ Cooler #6 _____

Chain of custody present? Yes No

Chain of custody signed when relinquished and received? Yes No

Chain of custody agrees with sample labels? Yes No

Samples in proper container/bottle? Yes No

Sample containers intact? Yes No

Sufficient sample volume for indicated test? Yes No

All samples received within holding time? Yes No

Was TAT marked on the COC? Yes No

Proceed with Standard TAT as per project history? Yes No Not Applicable

Water - VOA vials have zero headspace? No VOA vials submitted Yes No

Water - pH acceptable upon receipt? Yes No Not Applicable

Adjusted? _____ Checked by JH

Sample Condition: Good Other(Explain) _____

(For diffusive samples or AIHA lead) Is a known blank included? Yes No

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

Client: EarthCon Consultants, Inc.
 Project: Apollo--Smyrna
 Lab Order: 1410761

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1410761-001A	MW6	10/7/2014 3:07:00PM	Groundwater	TCL VOLATILE ORGANICS		10/09/2014	10/10/2014
1410761-001B	MW6	10/7/2014 3:07:00PM	Groundwater	GC Analysis of Gaseous Samples		10/10/2014	10/10/2014
1410761-001C	MW6	10/7/2014 3:07:00PM	Groundwater	Total Organic Carbon (TOC)			10/13/2014
1410761-001D	MW6	10/7/2014 3:07:00PM	Groundwater	Alkalinity by SM2320B			10/14/2014
1410761-001E	MW6	10/7/2014 3:07:00PM	Groundwater	Sulfide by SW9030/9034		10/14/2014	10/14/2014
1410761-001F	MW6	10/7/2014 3:07:00PM	Groundwater	ION SCAN			10/08/2014
1410761-002A	MW8	10/7/2014 4:24:00PM	Groundwater	TCL VOLATILE ORGANICS		10/09/2014	10/10/2014
1410761-002B	MW8	10/7/2014 4:24:00PM	Groundwater	GC Analysis of Gaseous Samples		10/10/2014	10/10/2014
1410761-002C	MW8	10/7/2014 4:24:00PM	Groundwater	Total Organic Carbon (TOC)			10/13/2014
1410761-002D	MW8	10/7/2014 4:24:00PM	Groundwater	Alkalinity by SM2320B			10/14/2014
1410761-002E	MW8	10/7/2014 4:24:00PM	Groundwater	Sulfide by SW9030/9034		10/14/2014	10/14/2014
1410761-002F	MW8	10/7/2014 4:24:00PM	Groundwater	ION SCAN			10/08/2014
1410761-003A	MW9	10/7/2014 5:24:00PM	Groundwater	TCL VOLATILE ORGANICS		10/09/2014	10/10/2014
1410761-003B	MW9	10/7/2014 5:24:00PM	Groundwater	GC Analysis of Gaseous Samples		10/10/2014	10/10/2014
1410761-003C	MW9	10/7/2014 5:24:00PM	Groundwater	Total Organic Carbon (TOC)			10/13/2014
1410761-003D	MW9	10/7/2014 5:24:00PM	Groundwater	Alkalinity by SM2320B			10/14/2014
1410761-003E	MW9	10/7/2014 5:24:00PM	Groundwater	Sulfide by SW9030/9034		10/14/2014	10/14/2014
1410761-003F	MW9	10/7/2014 5:24:00PM	Groundwater	ION SCAN			10/08/2014
1410761-004A	MW13	10/7/2014 6:23:00PM	Groundwater	TCL VOLATILE ORGANICS		10/09/2014	10/10/2014
1410761-004B	MW13	10/7/2014 6:23:00PM	Groundwater	GC Analysis of Gaseous Samples		10/10/2014	10/10/2014
1410761-004C	MW13	10/7/2014 6:23:00PM	Groundwater	Total Organic Carbon (TOC)			10/13/2014
1410761-004D	MW13	10/7/2014 6:23:00PM	Groundwater	Alkalinity by SM2320B			10/14/2014
1410761-004E	MW13	10/7/2014 6:23:00PM	Groundwater	Sulfide by SW9030/9034		10/14/2014	10/14/2014
1410761-004F	MW13	10/7/2014 6:23:00PM	Groundwater	ION SCAN			10/08/2014
1410761-005A	MW7	10/7/2014 7:09:00PM	Groundwater	TCL VOLATILE ORGANICS		10/09/2014	10/10/2014
1410761-005B	MW7	10/7/2014 7:09:00PM	Groundwater	GC Analysis of Gaseous Samples		10/10/2014	10/10/2014
1410761-005C	MW7	10/7/2014 7:09:00PM	Groundwater	Total Organic Carbon (TOC)			10/13/2014
1410761-005D	MW7	10/7/2014 7:09:00PM	Groundwater	Alkalinity by SM2320B			10/14/2014
1410761-005E	MW7	10/7/2014 7:09:00PM	Groundwater	Sulfide by SW9030/9034		10/14/2014	10/14/2014

Client: EarthCon Consultants, Inc.
Project: Apollo--Smyrna
Lab Order: 1410761

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1410761-005F	MW7	10/7/2014 7:09:00PM	Groundwater	ION SCAN			10/08/2014

Client: EarthCon Consultants, Inc.
Project Name: Apollo--Smyrna
Workorder: 1410761

ANALYTICAL QC SUMMARY REPORT

BatchID: 197404

Sample ID: MB-197404	Client ID:	Units: ug/L	Prep Date: 10/10/2014	Run No: 277573							
SampleType: MBLK	TestCode: GC Analysis of Gaseous Samples SOP-RSK 175	BatchID: 197404	Analysis Date: 10/10/2014	Seq No: 5867198							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethane	BRL	9									
Ethylene	BRL	7									
Methane	BRL	4									

Sample ID: LCS-197404	Client ID:	Units: ug/L	Prep Date: 10/10/2014	Run No: 277573							
SampleType: LCS	TestCode: GC Analysis of Gaseous Samples SOP-RSK 175	BatchID: 197404	Analysis Date: 10/10/2014	Seq No: 5867199							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethane	102.1	9	200.0		51.1	41.6	115				
Ethylene	69.41	7	200.0		34.7	26.9	115				
Methane	113.9	4	200.0		57.0	45.2	115				

Sample ID: LCSD-197404	Client ID:	Units: ug/L	Prep Date: 10/10/2014	Run No: 277573							
SampleType: LCSD	TestCode: GC Analysis of Gaseous Samples SOP-RSK 175	BatchID: 197404	Analysis Date: 10/10/2014	Seq No: 5867200							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethane	99.19	9	200.0		49.6	41.6	115	102.1	2.93	20	
Ethylene	67.34	7	200.0		33.7	26.9	115	69.41	3.02	20	
Methane	111.5	4	200.0		55.7	45.2	115	113.9	2.17	20	

Sample ID: 1410789-004BMS	Client ID:	Units: ug/L	Prep Date: 10/10/2014	Run No: 277573							
SampleType: MS	TestCode: GC Analysis of Gaseous Samples SOP-RSK 175	BatchID: 197404	Analysis Date: 10/10/2014	Seq No: 5867255							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethane	109.0	9	200.0		54.5	40.1	115				
Ethylene	86.44	7	200.0	8.749	38.8	24.5	115				
Methane	173.7	4	200.0	26.46	73.6	41.1	115				

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: EarthCon Consultants, Inc.
Project Name: Apollo--Smyrna
Workorder: 1410761

ANALYTICAL QC SUMMARY REPORT

BatchID: 197404

Sample ID: 1410789-004BMSD	Client ID:	Units: ug/L	Prep Date: 10/10/2014	Run No: 277573							
SampleType: MSD	TestCode: GC Analysis of Gaseous Samples SOP-RSK 175	BatchID: 197404	Analysis Date: 10/10/2014	Seq No: 5867256							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethane	111.2	9	200.0		55.6	40.1	115	109.0	2.02	20	
Ethylene	88.05	7	200.0	8.749	39.6	24.5	115	86.44	1.84	20	
Methane	177.8	4	200.0	26.46	75.7	41.1	115	173.7	2.36	20	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: Apollo--Smyrna
Workorder: 1410761

ANALYTICAL QC SUMMARY REPORT

BatchID: 197454

Sample ID: MB-197454	Client ID:	Units: ug/L	Prep Date: 10/09/2014	Run No: 277431							
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 197454	Analysis Date: 10/09/2014	Seq No: 5863606							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,2,4-Trichlorobenzene	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dibromoethane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,3-Dichlorobenzene	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
2-Butanone	BRL	50									
2-Hexanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	50									
Benzene	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Bromoform	BRL	5.0									
Bromomethane	BRL	5.0									
Carbon disulfide	BRL	5.0									
Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									
Chloroform	BRL	5.0									
Chloromethane	BRL	10									

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: Apollo--Smyrna
Workorder: 1410761

ANALYTICAL QC SUMMARY REPORT

BatchID: 197454

Sample ID: MB-197454	Client ID:	Units: ug/L	Prep Date: 10/09/2014	Run No: 277431							
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 197454	Analysis Date: 10/09/2014	Seq No: 5863606							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Freon-113	BRL	10									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	5.0									
Methyl acetate	BRL	5.0									
Methyl tert-butyl ether	BRL	5.0									
Methylcyclohexane	BRL	5.0									
Methylene chloride	BRL	5.0									
o-Xylene	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	2.0									
Surr: 4-Bromofluorobenzene	42.82	0	50.00		85.6	66.2	120				
Surr: Dibromofluoromethane	55.53	0	50.00		111	79.5	121				
Surr: Toluene-d8	47.58	0	50.00		95.2	77	117				

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: Apollo--Smyrna
Workorder: 1410761

ANALYTICAL QC SUMMARY REPORT

BatchID: 197454

Sample ID: LCS-197454	Client ID:	Units: ug/L	Prep Date: 10/09/2014	Run No: 277431							
SampleType: LCS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 197454	Analysis Date: 10/09/2014	Seq No: 5863607							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	57.38	5.0	50.00		115	63.1	140				
Benzene	51.20	5.0	50.00		102	74.2	129				
Chlorobenzene	52.79	5.0	50.00		106	70	129				
Toluene	51.51	5.0	50.00		103	74.2	129				
Trichloroethene	49.93	5.0	50.00		99.9	71.2	135				
Surr: 4-Bromofluorobenzene	42.01	0	50.00		84.0	66.2	120				
Surr: Dibromofluoromethane	53.60	0	50.00		107	79.5	121				
Surr: Toluene-d8	47.03	0	50.00		94.1	77	117				

Sample ID: 1410751-003AMS	Client ID:	Units: ug/L	Prep Date: 10/09/2014	Run No: 277431							
SampleType: MS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 197454	Analysis Date: 10/09/2014	Seq No: 5863610							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	2662	250	2500		106	60.2	159				
Benzene	2668	250	2500		107	70.2	138				
Chlorobenzene	2746	250	2500		110	70.1	133				
Toluene	2726	250	2500		109	70	139				
Trichloroethene	2672	250	2500		107	70.1	144				
Surr: 4-Bromofluorobenzene	2071	0	2500		82.8	66.2	120				
Surr: Dibromofluoromethane	2738	0	2500		110	79.5	121				
Surr: Toluene-d8	2294	0	2500		91.7	77	117				

Sample ID: 1410751-003AMSD	Client ID:	Units: ug/L	Prep Date: 10/09/2014	Run No: 277431							
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 197454	Analysis Date: 10/09/2014	Seq No: 5863611							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	2738	250	2500		110	60.2	159	2662	2.83	19.2	
Benzene	2654	250	2500		106	70.2	138	2668	0.526	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: Apollo--Smyrna
Workorder: 1410761

ANALYTICAL QC SUMMARY REPORT

BatchID: 197454

Sample ID: 1410751-003AMSD	Client ID:	Units: ug/L	Prep Date: 10/09/2014	Run No: 277431							
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 197454	Analysis Date: 10/09/2014	Seq No: 5863611							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chlorobenzene	2754	250	2500		110	70.1	133	2746	0.291	20	
Toluene	2721	250	2500		109	70	139	2726	0.184	20	
Trichloroethene	2644	250	2500		106	70.1	144	2672	1.03	20	
Surr: 4-Bromofluorobenzene	2078	0	2500		83.1	66.2	120	2071	0	0	
Surr: Dibromofluoromethane	2696	0	2500		108	79.5	121	2738	0	0	
Surr: Toluene-d8	2288	0	2500		91.5	77	117	2294	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: Apollo--Smyrna
Workorder: 1410761

ANALYTICAL QC SUMMARY REPORT

BatchID: 197734

Sample ID: MB-197734	Client ID:	Units: mg/L	Prep Date: 10/14/2014	Run No: 277926							
SampleType: MBLK	TestCode: Sulfide by SW9030B/9034	BatchID: 197734	Analysis Date: 10/14/2014	Seq No: 5873351							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Sulfide BRL 2.00

Sample ID: LCS-197734	Client ID:	Units: mg/L	Prep Date: 10/14/2014	Run No: 277926							
SampleType: LCS	TestCode: Sulfide by SW9030B/9034	BatchID: 197734	Analysis Date: 10/14/2014	Seq No: 5873352							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Sulfide 328.0 2.00 328.0 100 40 120

Sample ID: 1410708-001FMS	Client ID:	Units: mg/L	Prep Date: 10/14/2014	Run No: 277926							
SampleType: MS	TestCode: Sulfide by SW9030B/9034	BatchID: 197734	Analysis Date: 10/14/2014	Seq No: 5873367							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Sulfide 15.20 2.00 16.40 92.7 76.7 120

Sample ID: 1410708-001FMSD	Client ID:	Units: mg/L	Prep Date: 10/14/2014	Run No: 277926							
SampleType: MSD	TestCode: Sulfide by SW9030B/9034	BatchID: 197734	Analysis Date: 10/14/2014	Seq No: 5873368							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Sulfide 15.40 2.00 16.40 93.9 76.7 120 15.20 1.31 20

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
	BRL Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
	J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
	Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	

Client: EarthCon Consultants, Inc.
Project Name: Apollo--Smyrna
Workorder: 1410761

ANALYTICAL QC SUMMARY REPORT

BatchID: R277601

Sample ID: MB-R277601	Client ID:	Units: mg/L	Prep Date:	Run No: 277601							
SampleType: MBLK	TestCode: ION SCAN SW9056A	BatchID: R277601	Analysis Date: 10/08/2014	Seq No: 5867519							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride	BRL	1.0									
Nitrate	BRL	0.25									
Sulfate	BRL	1.0									

Sample ID: LCS-R277601	Client ID:	Units: mg/L	Prep Date:	Run No: 277601							
SampleType: LCS	TestCode: ION SCAN SW9056A	BatchID: R277601	Analysis Date: 10/08/2014	Seq No: 5867520							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride	9.904	1.0	10.00		99.0	90	110				
Nitrate	4.873	0.25	5.000		97.5	90	110				
Sulfate	27.33	1.0	25.00		109	90	110				

Sample ID: 1410658-002EMS	Client ID:	Units: mg/L	Prep Date:	Run No: 277601							
SampleType: MS	TestCode: ION SCAN SW9056A	BatchID: R277601	Analysis Date: 10/08/2014	Seq No: 5867529							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride	14.27	1.0	10.00	4.403	98.7	90	110				
Nitrate	7.663	0.25	5.000	2.571	102	90	110				
Sulfate	24.87	1.0	25.00	1.322	94.2	90	110				

Sample ID: 141708-001DMS	Client ID:	Units: mg/L	Prep Date:	Run No: 277601							
SampleType: MS	TestCode: ION SCAN SW9056A	BatchID: R277601	Analysis Date: 10/08/2014	Seq No: 5867564							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride	27.32	1.0	10.00	18.27	90.5	90	110				
Nitrate	4.761	0.25	5.000		95.2	90	110				
Sulfate	36.80	1.0	25.00	12.91	95.6	90	110				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: Apollo--Smyrna
Workorder: 1410761

ANALYTICAL QC SUMMARY REPORT

BatchID: R277601

Sample ID: 1410658-002EMSD	Client ID:	Units: mg/L	Prep Date:	Run No: 277601							
SampleType: MSD	TestCode: ION SCAN SW9056A	BatchID: R277601	Analysis Date: 10/08/2014	Seq No: 5867531							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride	14.60	1.0	10.00	4.403	102	90	110	14.27	2.28	20	
Nitrate	7.671	0.25	5.000	2.571	102	90	110	7.663	0.102	20	
Sulfate	25.32	1.0	25.00	1.322	96.0	90	110	24.87	1.80	20	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: Apollo--Smyrna
Workorder: 1410761

ANALYTICAL QC SUMMARY REPORT

BatchID: R277815

Sample ID: MB-R277815	Client ID:	Units: mg/L	Prep Date:	Run No: 277815							
SampleType: MBLK	TestCode: Total Organic Carbon (TOC) SW9060A	BatchID: R277815	Analysis Date: 10/13/2014	Seq No: 5870407							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Organic Carbon, Total

BRL 1.00

Sample ID: LCS-R277815	Client ID:	Units: mg/L	Prep Date:	Run No: 277815							
SampleType: LCS	TestCode: Total Organic Carbon (TOC) SW9060A	BatchID: R277815	Analysis Date: 10/13/2014	Seq No: 5870406							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Organic Carbon, Total

23.86 1.00 25.00 95.4 90 110

Sample ID: 1410751-001FMS	Client ID:	Units: mg/L	Prep Date:	Run No: 277815							
SampleType: MS	TestCode: Total Organic Carbon (TOC) SW9060A	BatchID: R277815	Analysis Date: 10/13/2014	Seq No: 5870427							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Organic Carbon, Total

50.16 1.00 25.00 26.52 94.6 80 120

Sample ID: 1410751-001FMSD	Client ID:	Units: mg/L	Prep Date:	Run No: 277815							
SampleType: MSD	TestCode: Total Organic Carbon (TOC) SW9060A	BatchID: R277815	Analysis Date: 10/13/2014	Seq No: 5870428							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Organic Carbon, Total

51.82 1.00 25.00 26.52 101 80 120 50.16 3.26 20

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
	BRL Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
	J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
	Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	

Client: EarthCon Consultants, Inc.
Project Name: Apollo--Smyrna
Workorder: 1410761

ANALYTICAL QC SUMMARY REPORT

BatchID: R277885

Sample ID: MB-R277885	Client ID:	Units: mg/L	Prep Date:	Run No: 277885							
SampleType: MBLK	TestCode: Alkalinity by SM2320B	BatchID: R277885	Analysis Date: 10/14/2014	Seq No: 5872234							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Alkalinity, Total (As CaCO3)

BRL 3.00

Sample ID: LCS-R277885	Client ID:	Units: mg/L	Prep Date:	Run No: 277885							
SampleType: LCS	TestCode: Alkalinity by SM2320B	BatchID: R277885	Analysis Date: 10/14/2014	Seq No: 5872235							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Alkalinity, Total (As CaCO3)

116.0 3.00 125.0 1.000 92.0 75 125

Sample ID: 1410689-007FDUP	Client ID:	Units: mg/L	Prep Date:	Run No: 277885							
SampleType: DUP	TestCode: Alkalinity by SM2320B	BatchID: R277885	Analysis Date: 10/14/2014	Seq No: 5872256							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Alkalinity, Total (As CaCO3)

109.0 3.00 111.0 1.82 30

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
	BRL Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
	J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
	Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	



October 20, 2014

Kristen Rivera
EarthCon Consultants, Inc.
1880 West Oak Parkway
Marietta GA 30062

TEL: (770) 973-2100
FAX: (770) 973-7395

RE: Apollo Smyrna

Dear Kristen Rivera:

Order No: 1410789

Analytical Environmental Services, Inc. received 6 samples on 10/8/2014 4:30:00 PM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/14-06/30/15.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/15.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Chantelle Kanhai
Project Manager

Analytical Environmental Services, Inc

Date: 20-Oct-14

Client: EarthCon Consultants, Inc.	Client Sample ID: RW2
Project Name: Apollo Smyrna	Collection Date: 10/8/2014 10:45:00 AM
Lab ID: 1410789-001	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) SW9060A								
Organic Carbon, Total	1.54	1.00		mg/L	R277878	1	10/14/2014 16:28	JM
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	14	5.0		ug/L	197550	1	10/13/2014 14:50	GC
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	197550	1	10/13/2014 14:50	GC
1,1,2-Trichloroethane	BRL	5.0		ug/L	197550	1	10/13/2014 14:50	GC
1,1-Dichloroethane	36	5.0		ug/L	197550	1	10/13/2014 14:50	GC
1,1-Dichloroethene	27	5.0		ug/L	197550	1	10/13/2014 14:50	GC
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	197550	1	10/13/2014 14:50	GC
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	197550	1	10/13/2014 14:50	GC
1,2-Dibromoethane	BRL	5.0		ug/L	197550	1	10/13/2014 14:50	GC
1,2-Dichlorobenzene	BRL	5.0		ug/L	197550	1	10/13/2014 14:50	GC
1,2-Dichloroethane	BRL	5.0		ug/L	197550	1	10/13/2014 14:50	GC
1,2-Dichloropropane	BRL	5.0		ug/L	197550	1	10/13/2014 14:50	GC
1,3-Dichlorobenzene	BRL	5.0		ug/L	197550	1	10/13/2014 14:50	GC
1,4-Dichlorobenzene	BRL	5.0		ug/L	197550	1	10/13/2014 14:50	GC
2-Butanone	BRL	50		ug/L	197550	1	10/13/2014 14:50	GC
2-Hexanone	BRL	10		ug/L	197550	1	10/13/2014 14:50	GC
4-Methyl-2-pentanone	BRL	10		ug/L	197550	1	10/13/2014 14:50	GC
Acetone	BRL	50		ug/L	197550	1	10/13/2014 14:50	GC
Benzene	BRL	5.0		ug/L	197550	1	10/13/2014 14:50	GC
Bromodichloromethane	BRL	5.0		ug/L	197550	1	10/13/2014 14:50	GC
Bromoform	BRL	5.0		ug/L	197550	1	10/13/2014 14:50	GC
Bromomethane	BRL	5.0		ug/L	197550	1	10/13/2014 14:50	GC
Carbon disulfide	BRL	5.0		ug/L	197550	1	10/13/2014 14:50	GC
Carbon tetrachloride	BRL	5.0		ug/L	197550	1	10/13/2014 14:50	GC
Chlorobenzene	BRL	5.0		ug/L	197550	1	10/13/2014 14:50	GC
Chloroethane	22	10		ug/L	197550	1	10/13/2014 14:50	GC
Chloroform	BRL	5.0		ug/L	197550	1	10/13/2014 14:50	GC
Chloromethane	BRL	10		ug/L	197550	1	10/13/2014 14:50	GC
cis-1,2-Dichloroethene	360	50		ug/L	197550	10	10/13/2014 20:12	GC
cis-1,3-Dichloropropene	BRL	5.0		ug/L	197550	1	10/13/2014 14:50	GC
Cyclohexane	BRL	5.0		ug/L	197550	1	10/13/2014 14:50	GC
Dibromochloromethane	75	5.0		ug/L	197550	1	10/13/2014 14:50	GC
Dichlorodifluoromethane	BRL	10		ug/L	197550	1	10/13/2014 14:50	GC
Ethylbenzene	BRL	5.0		ug/L	197550	1	10/13/2014 14:50	GC
Freon-113	BRL	10		ug/L	197550	1	10/13/2014 14:50	GC
Isopropylbenzene	BRL	5.0		ug/L	197550	1	10/13/2014 14:50	GC
m,p-Xylene	BRL	5.0		ug/L	197550	1	10/13/2014 14:50	GC
Methyl acetate	BRL	5.0		ug/L	197550	1	10/13/2014 14:50	GC
Methyl tert-butyl ether	BRL	5.0		ug/L	197550	1	10/13/2014 14:50	GC

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 20-Oct-14

Client: EarthCon Consultants, Inc.	Client Sample ID: RW2
Project Name: Apollo Smyrna	Collection Date: 10/8/2014 10:45:00 AM
Lab ID: 1410789-001	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
Methylcyclohexane	BRL	5.0		ug/L	197550	1	10/13/2014 14:50	GC
Methylene chloride	BRL	5.0		ug/L	197550	1	10/13/2014 14:50	GC
o-Xylene	BRL	5.0		ug/L	197550	1	10/13/2014 14:50	GC
Styrene	BRL	5.0		ug/L	197550	1	10/13/2014 14:50	GC
Tetrachloroethene	130	5.0		ug/L	197550	1	10/13/2014 14:50	GC
Toluene	BRL	5.0		ug/L	197550	1	10/13/2014 14:50	GC
trans-1,2-Dichloroethene	BRL	5.0		ug/L	197550	1	10/13/2014 14:50	GC
trans-1,3-Dichloropropene	BRL	5.0		ug/L	197550	1	10/13/2014 14:50	GC
Trichloroethene	180	50		ug/L	197550	10	10/13/2014 20:12	GC
Trichlorofluoromethane	BRL	5.0		ug/L	197550	1	10/13/2014 14:50	GC
Vinyl chloride	8.8	2.0		ug/L	197550	1	10/13/2014 14:50	GC
Surr: 4-Bromofluorobenzene	81	66.2-120		%REC	197550	1	10/13/2014 14:50	GC
Surr: 4-Bromofluorobenzene	82.6	66.2-120		%REC	197550	10	10/13/2014 20:12	GC
Surr: Dibromofluoromethane	105	79.5-121		%REC	197550	1	10/13/2014 14:50	GC
Surr: Dibromofluoromethane	107	79.5-121		%REC	197550	10	10/13/2014 20:12	GC
Surr: Toluene-d8	96.8	77-117		%REC	197550	10	10/13/2014 20:12	GC
Surr: Toluene-d8	93.7	77-117		%REC	197550	1	10/13/2014 14:50	GC
Sulfide by SW9030B/9034 (SW9030B)								
Sulfide	BRL	2.00		mg/L	197735	1	10/15/2014 08:55	AB
ION SCAN SW9056A								
Chloride	37	1.0		mg/L	R277816	1	10/09/2014 10:20	YS
Nitrate	BRL	0.25		mg/L	R277816	1	10/09/2014 10:20	YS
Sulfate	4.4	1.0		mg/L	R277816	1	10/09/2014 10:20	YS
GC Analysis of Gaseous Samples SOP-RSK 175 (RSK175)								
Ethane	BRL	9		ug/L	197404	1	10/10/2014 17:45	JM
Ethylene	8	7		ug/L	197404	1	10/10/2014 17:45	JM
Methane	26	4		ug/L	197404	1	10/10/2014 17:45	JM
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	44.0	3.00		mg/L	R277885	1	10/14/2014 15:00	PF

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 20-Oct-14

Client: EarthCon Consultants, Inc.	Client Sample ID: RW1
Project Name: Apollo Smyrna	Collection Date: 10/8/2014 1:30:00 PM
Lab ID: 1410789-002	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) SW9060A								
Organic Carbon, Total	47.9	5.00		mg/L	R277878	5	10/14/2014 16:52	JM
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	300	50		ug/L	197550	10	10/13/2014 19:15	GC
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	197550	1	10/11/2014 02:58	GC
1,1,2-Trichloroethane	BRL	5.0		ug/L	197550	1	10/11/2014 02:58	GC
1,1-Dichloroethane	1800	50		ug/L	197550	10	10/13/2014 19:15	GC
1,1-Dichloroethene	1200	50		ug/L	197550	10	10/13/2014 19:15	GC
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	197550	1	10/11/2014 02:58	GC
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	197550	1	10/11/2014 02:58	GC
1,2-Dibromoethane	BRL	5.0		ug/L	197550	1	10/11/2014 02:58	GC
1,2-Dichlorobenzene	BRL	5.0		ug/L	197550	1	10/11/2014 02:58	GC
1,2-Dichloroethane	15	5.0		ug/L	197550	1	10/11/2014 02:58	GC
1,2-Dichloropropane	BRL	5.0		ug/L	197550	1	10/11/2014 02:58	GC
1,3-Dichlorobenzene	BRL	5.0		ug/L	197550	1	10/11/2014 02:58	GC
1,4-Dichlorobenzene	BRL	5.0		ug/L	197550	1	10/11/2014 02:58	GC
2-Butanone	BRL	50		ug/L	197550	1	10/11/2014 02:58	GC
2-Hexanone	BRL	10		ug/L	197550	1	10/11/2014 02:58	GC
4-Methyl-2-pentanone	BRL	10		ug/L	197550	1	10/11/2014 02:58	GC
Acetone	1700	500		ug/L	197550	10	10/13/2014 19:15	GC
Benzene	BRL	5.0		ug/L	197550	1	10/11/2014 02:58	GC
Bromodichloromethane	BRL	5.0		ug/L	197550	1	10/11/2014 02:58	GC
Bromoform	BRL	5.0		ug/L	197550	1	10/11/2014 02:58	GC
Bromomethane	BRL	5.0		ug/L	197550	1	10/11/2014 02:58	GC
Carbon disulfide	BRL	5.0		ug/L	197550	1	10/11/2014 02:58	GC
Carbon tetrachloride	BRL	5.0		ug/L	197550	1	10/11/2014 02:58	GC
Chlorobenzene	BRL	5.0		ug/L	197550	1	10/11/2014 02:58	GC
Chloroethane	780	100		ug/L	197550	10	10/13/2014 19:15	GC
Chloroform	BRL	5.0		ug/L	197550	1	10/11/2014 02:58	GC
Chloromethane	BRL	10		ug/L	197550	1	10/11/2014 02:58	GC
cis-1,2-Dichloroethene	150	5.0		ug/L	197550	1	10/11/2014 02:58	GC
cis-1,3-Dichloropropene	BRL	5.0		ug/L	197550	1	10/11/2014 02:58	GC
Cyclohexane	BRL	5.0		ug/L	197550	1	10/11/2014 02:58	GC
Dibromochloromethane	BRL	5.0		ug/L	197550	1	10/11/2014 02:58	GC
Dichlorodifluoromethane	BRL	10		ug/L	197550	1	10/11/2014 02:58	GC
Ethylbenzene	6.5	5.0		ug/L	197550	1	10/11/2014 02:58	GC
Freon-113	130	10		ug/L	197550	1	10/11/2014 02:58	GC
Isopropylbenzene	BRL	5.0		ug/L	197550	1	10/11/2014 02:58	GC
m,p-Xylene	38	5.0		ug/L	197550	1	10/11/2014 02:58	GC
Methyl acetate	BRL	5.0		ug/L	197550	1	10/11/2014 02:58	GC
Methyl tert-butyl ether	BRL	5.0		ug/L	197550	1	10/11/2014 02:58	GC

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: EarthCon Consultants, Inc.	Client Sample ID: RW1
Project Name: Apollo Smyrna	Collection Date: 10/8/2014 1:30:00 PM
Lab ID: 1410789-002	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					(SW5030B)			
Methylcyclohexane	BRL	5.0		ug/L	197550	1	10/11/2014 02:58	GC
Methylene chloride	200	5.0		ug/L	197550	1	10/11/2014 02:58	GC
o-Xylene	61	5.0		ug/L	197550	1	10/11/2014 02:58	GC
Styrene	BRL	5.0		ug/L	197550	1	10/11/2014 02:58	GC
Tetrachloroethene	7.2	5.0		ug/L	197550	1	10/11/2014 02:58	GC
Toluene	450	50		ug/L	197550	10	10/13/2014 19:15	GC
trans-1,2-Dichloroethene	BRL	5.0		ug/L	197550	1	10/11/2014 02:58	GC
trans-1,3-Dichloropropene	BRL	5.0		ug/L	197550	1	10/11/2014 02:58	GC
Trichloroethene	14	5.0		ug/L	197550	1	10/11/2014 02:58	GC
Trichlorofluoromethane	BRL	5.0		ug/L	197550	1	10/11/2014 02:58	GC
Vinyl chloride	610	20		ug/L	197550	10	10/13/2014 19:15	GC
Surr: 4-Bromofluorobenzene	88.6	66.2-120		%REC	197550	10	10/13/2014 19:15	GC
Surr: 4-Bromofluorobenzene	105	66.2-120		%REC	197550	1	10/11/2014 02:58	GC
Surr: Dibromofluoromethane	109	79.5-121		%REC	197550	10	10/13/2014 19:15	GC
Surr: Dibromofluoromethane	113	79.5-121		%REC	197550	1	10/11/2014 02:58	GC
Surr: Toluene-d8	98.3	77-117		%REC	197550	10	10/13/2014 19:15	GC
Surr: Toluene-d8	101	77-117		%REC	197550	1	10/11/2014 02:58	GC
Sulfide by SW9030B/9034					(SW9030B)			
Sulfide	BRL	2.00		mg/L	197735	1	10/15/2014 08:55	AB
ION SCAN SW9056A								
Chloride	150	10		mg/L	R277816	10	10/09/2014 15:00	YS
Nitrate	BRL	0.25		mg/L	R277816	1	10/09/2014 10:35	YS
Sulfate	BRL	1.0		mg/L	R277816	1	10/09/2014 10:35	YS
GC Analysis of Gaseous Samples SOP-RSK 175					(RSK175)			
Ethane	BRL	9		ug/L	197404	1	10/10/2014 18:04	JM
Ethylene	770	140		ug/L	197404	20	10/10/2014 18:26	JM
Methane	3600	80		ug/L	197404	20	10/10/2014 18:26	JM
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	290	30.0		mg/L	R277885	10	10/14/2014 15:00	PF

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 20-Oct-14

Client: EarthCon Consultants, Inc.	Client Sample ID: DW1
Project Name: Apollo Smyrna	Collection Date: 10/8/2014 2:55:00 PM
Lab ID: 1410789-003	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) SW9060A								
Organic Carbon, Total	25.8	5.00		mg/L	R277878	5	10/14/2014 17:15	JM
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	200	50		ug/L	197550	10	10/13/2014 17:22	GC
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	197550	1	10/11/2014 02:31	GC
1,1,2-Trichloroethane	BRL	5.0		ug/L	197550	1	10/11/2014 02:31	GC
1,1-Dichloroethane	500	50		ug/L	197550	10	10/13/2014 17:22	GC
1,1-Dichloroethene	760	50		ug/L	197550	10	10/13/2014 17:22	GC
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	197550	1	10/11/2014 02:31	GC
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	197550	1	10/11/2014 02:31	GC
1,2-Dibromoethane	BRL	5.0		ug/L	197550	1	10/11/2014 02:31	GC
1,2-Dichlorobenzene	BRL	5.0		ug/L	197550	1	10/11/2014 02:31	GC
1,2-Dichloroethane	9.1	5.0		ug/L	197550	1	10/11/2014 02:31	GC
1,2-Dichloropropane	BRL	5.0		ug/L	197550	1	10/11/2014 02:31	GC
1,3-Dichlorobenzene	BRL	5.0		ug/L	197550	1	10/11/2014 02:31	GC
1,4-Dichlorobenzene	BRL	5.0		ug/L	197550	1	10/11/2014 02:31	GC
2-Butanone	BRL	50		ug/L	197550	1	10/11/2014 02:31	GC
2-Hexanone	BRL	10		ug/L	197550	1	10/11/2014 02:31	GC
4-Methyl-2-pentanone	BRL	10		ug/L	197550	1	10/11/2014 02:31	GC
Acetone	360	50		ug/L	197550	1	10/11/2014 02:31	GC
Benzene	BRL	5.0		ug/L	197550	1	10/11/2014 02:31	GC
Bromodichloromethane	BRL	5.0		ug/L	197550	1	10/11/2014 02:31	GC
Bromoform	BRL	5.0		ug/L	197550	1	10/11/2014 02:31	GC
Bromomethane	BRL	5.0		ug/L	197550	1	10/11/2014 02:31	GC
Carbon disulfide	BRL	5.0		ug/L	197550	1	10/11/2014 02:31	GC
Carbon tetrachloride	BRL	5.0		ug/L	197550	1	10/11/2014 02:31	GC
Chlorobenzene	BRL	5.0		ug/L	197550	1	10/11/2014 02:31	GC
Chloroethane	890	100		ug/L	197550	10	10/13/2014 17:22	GC
Chloroform	BRL	5.0		ug/L	197550	1	10/11/2014 02:31	GC
Chloromethane	BRL	10		ug/L	197550	1	10/11/2014 02:31	GC
cis-1,2-Dichloroethene	290	50		ug/L	197550	10	10/13/2014 17:22	GC
cis-1,3-Dichloropropene	BRL	5.0		ug/L	197550	1	10/11/2014 02:31	GC
Cyclohexane	BRL	5.0		ug/L	197550	1	10/11/2014 02:31	GC
Dibromochloromethane	BRL	5.0		ug/L	197550	1	10/11/2014 02:31	GC
Dichlorodifluoromethane	BRL	10		ug/L	197550	1	10/11/2014 02:31	GC
Ethylbenzene	5.1	5.0		ug/L	197550	1	10/11/2014 02:31	GC
Freon-113	100	10		ug/L	197550	1	10/11/2014 02:31	GC
Isopropylbenzene	BRL	5.0		ug/L	197550	1	10/11/2014 02:31	GC
m,p-Xylene	17	5.0		ug/L	197550	1	10/11/2014 02:31	GC
Methyl acetate	BRL	5.0		ug/L	197550	1	10/11/2014 02:31	GC
Methyl tert-butyl ether	BRL	5.0		ug/L	197550	1	10/11/2014 02:31	GC

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: EarthCon Consultants, Inc.	Client Sample ID: DW1
Project Name: Apollo Smyrna	Collection Date: 10/8/2014 2:55:00 PM
Lab ID: 1410789-003	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					(SW5030B)			
Methylcyclohexane	BRL	5.0		ug/L	197550	1	10/11/2014 02:31	GC
Methylene chloride	22	5.0		ug/L	197550	1	10/11/2014 02:31	GC
o-Xylene	7.2	5.0		ug/L	197550	1	10/11/2014 02:31	GC
Styrene	BRL	5.0		ug/L	197550	1	10/11/2014 02:31	GC
Tetrachloroethene	97	5.0		ug/L	197550	1	10/11/2014 02:31	GC
Toluene	500	50		ug/L	197550	10	10/13/2014 17:22	GC
trans-1,2-Dichloroethene	BRL	5.0		ug/L	197550	1	10/11/2014 02:31	GC
trans-1,3-Dichloropropene	BRL	5.0		ug/L	197550	1	10/11/2014 02:31	GC
Trichloroethene	67	5.0		ug/L	197550	1	10/11/2014 02:31	GC
Trichlorofluoromethane	BRL	5.0		ug/L	197550	1	10/11/2014 02:31	GC
Vinyl chloride	110	2.0		ug/L	197550	1	10/11/2014 02:31	GC
Surr: 4-Bromofluorobenzene	84.6	66.2-120		%REC	197550	10	10/13/2014 17:22	GC
Surr: 4-Bromofluorobenzene	96.9	66.2-120		%REC	197550	1	10/11/2014 02:31	GC
Surr: Dibromofluoromethane	107	79.5-121		%REC	197550	10	10/13/2014 17:22	GC
Surr: Dibromofluoromethane	112	79.5-121		%REC	197550	1	10/11/2014 02:31	GC
Surr: Toluene-d8	98.9	77-117		%REC	197550	1	10/11/2014 02:31	GC
Surr: Toluene-d8	98.3	77-117		%REC	197550	10	10/13/2014 17:22	GC
Sulfide by SW9030B/9034					(SW9030B)			
Sulfide	BRL	2.00		mg/L	197735	1	10/15/2014 08:55	AB
ION SCAN SW9056A								
Chloride	52	2.0		mg/L	R277816	2	10/09/2014 19:08	YS
Nitrate	BRL	0.25		mg/L	R277816	1	10/09/2014 10:49	YS
Sulfate	BRL	1.0		mg/L	R277816	1	10/09/2014 10:49	YS
GC Analysis of Gaseous Samples SOP-RSK 175					(RSK175)			
Ethane	BRL	9		ug/L	197404	1	10/10/2014 18:08	JM
Ethylene	350	7		ug/L	197404	1	10/10/2014 18:08	JM
Methane	980	20		ug/L	197404	5	10/10/2014 18:32	JM
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	115	3.00		mg/L	R277885	1	10/14/2014 15:00	PF

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 20-Oct-14

Client: EarthCon Consultants, Inc.	Client Sample ID: DUP 1
Project Name: Apollo Smyrna	Collection Date: 10/8/2014 12:00:00 PM
Lab ID: 1410789-004	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) SW9060A								
Organic Carbon, Total	3.66	1.00		mg/L	R277878	1	10/14/2014 17:38	JM
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	19	5.0		ug/L	197550	1	10/11/2014 02:03	GC
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	197550	1	10/11/2014 02:03	GC
1,1,2-Trichloroethane	BRL	5.0		ug/L	197550	1	10/11/2014 02:03	GC
1,1-Dichloroethane	38	5.0		ug/L	197550	1	10/11/2014 02:03	GC
1,1-Dichloroethene	31	5.0		ug/L	197550	1	10/11/2014 02:03	GC
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	197550	1	10/11/2014 02:03	GC
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	197550	1	10/11/2014 02:03	GC
1,2-Dibromoethane	BRL	5.0		ug/L	197550	1	10/11/2014 02:03	GC
1,2-Dichlorobenzene	BRL	5.0		ug/L	197550	1	10/11/2014 02:03	GC
1,2-Dichloroethane	BRL	5.0		ug/L	197550	1	10/11/2014 02:03	GC
1,2-Dichloropropane	BRL	5.0		ug/L	197550	1	10/11/2014 02:03	GC
1,3-Dichlorobenzene	BRL	5.0		ug/L	197550	1	10/11/2014 02:03	GC
1,4-Dichlorobenzene	BRL	5.0		ug/L	197550	1	10/11/2014 02:03	GC
2-Butanone	BRL	50		ug/L	197550	1	10/11/2014 02:03	GC
2-Hexanone	BRL	10		ug/L	197550	1	10/11/2014 02:03	GC
4-Methyl-2-pentanone	BRL	10		ug/L	197550	1	10/11/2014 02:03	GC
Acetone	BRL	50		ug/L	197550	1	10/11/2014 02:03	GC
Benzene	BRL	5.0		ug/L	197550	1	10/11/2014 02:03	GC
Bromodichloromethane	BRL	5.0		ug/L	197550	1	10/11/2014 02:03	GC
Bromoform	BRL	5.0		ug/L	197550	1	10/11/2014 02:03	GC
Bromomethane	BRL	5.0		ug/L	197550	1	10/11/2014 02:03	GC
Carbon disulfide	BRL	5.0		ug/L	197550	1	10/11/2014 02:03	GC
Carbon tetrachloride	BRL	5.0		ug/L	197550	1	10/11/2014 02:03	GC
Chlorobenzene	BRL	5.0		ug/L	197550	1	10/11/2014 02:03	GC
Chloroethane	26	10		ug/L	197550	1	10/11/2014 02:03	GC
Chloroform	BRL	5.0		ug/L	197550	1	10/11/2014 02:03	GC
Chloromethane	BRL	10		ug/L	197550	1	10/11/2014 02:03	GC
cis-1,2-Dichloroethene	360	50		ug/L	197550	10	10/13/2014 17:51	GC
cis-1,3-Dichloropropene	BRL	5.0		ug/L	197550	1	10/11/2014 02:03	GC
Cyclohexane	BRL	5.0		ug/L	197550	1	10/11/2014 02:03	GC
Dibromochloromethane	BRL	5.0		ug/L	197550	1	10/11/2014 02:03	GC
Dichlorodifluoromethane	BRL	10		ug/L	197550	1	10/11/2014 02:03	GC
Ethylbenzene	BRL	5.0		ug/L	197550	1	10/11/2014 02:03	GC
Freon-113	BRL	10		ug/L	197550	1	10/11/2014 02:03	GC
Isopropylbenzene	BRL	5.0		ug/L	197550	1	10/11/2014 02:03	GC
m,p-Xylene	BRL	5.0		ug/L	197550	1	10/11/2014 02:03	GC
Methyl acetate	BRL	5.0		ug/L	197550	1	10/11/2014 02:03	GC
Methyl tert-butyl ether	BRL	5.0		ug/L	197550	1	10/11/2014 02:03	GC

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 20-Oct-14

Client: EarthCon Consultants, Inc.	Client Sample ID: DUP 1
Project Name: Apollo Smyrna	Collection Date: 10/8/2014 12:00:00 PM
Lab ID: 1410789-004	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					(SW5030B)			
Methylcyclohexane	BRL	5.0		ug/L	197550	1	10/11/2014 02:03	GC
Methylene chloride	BRL	5.0		ug/L	197550	1	10/11/2014 02:03	GC
o-Xylene	BRL	5.0		ug/L	197550	1	10/11/2014 02:03	GC
Styrene	BRL	5.0		ug/L	197550	1	10/11/2014 02:03	GC
Tetrachloroethene	120	5.0		ug/L	197550	1	10/11/2014 02:03	GC
Toluene	BRL	5.0		ug/L	197550	1	10/11/2014 02:03	GC
trans-1,2-Dichloroethene	BRL	5.0		ug/L	197550	1	10/11/2014 02:03	GC
trans-1,3-Dichloropropene	BRL	5.0		ug/L	197550	1	10/11/2014 02:03	GC
Trichloroethene	200	50		ug/L	197550	10	10/13/2014 17:51	GC
Trichlorofluoromethane	BRL	5.0		ug/L	197550	1	10/11/2014 02:03	GC
Vinyl chloride	9.4	2.0		ug/L	197550	1	10/11/2014 02:03	GC
Surr: 4-Bromofluorobenzene	83.3	66.2-120		%REC	197550	10	10/13/2014 17:51	GC
Surr: 4-Bromofluorobenzene	90.7	66.2-120		%REC	197550	1	10/11/2014 02:03	GC
Surr: Dibromofluoromethane	106	79.5-121		%REC	197550	10	10/13/2014 17:51	GC
Surr: Dibromofluoromethane	112	79.5-121		%REC	197550	1	10/11/2014 02:03	GC
Surr: Toluene-d8	95.3	77-117		%REC	197550	1	10/11/2014 02:03	GC
Surr: Toluene-d8	97.6	77-117		%REC	197550	10	10/13/2014 17:51	GC
Sulfide by SW9030B/9034					(SW9030B)			
Sulfide	BRL	2.00		mg/L	197735	1	10/15/2014 08:55	AB
ION SCAN SW9056A								
Chloride	37	1.0		mg/L	R277816	1	10/09/2014 11:04	YS
Nitrate	BRL	0.25		mg/L	R277816	1	10/09/2014 11:04	YS
Sulfate	4.4	1.0		mg/L	R277816	1	10/09/2014 11:04	YS
GC Analysis of Gaseous Samples SOP-RSK 175					(RSK175)			
Ethane	BRL	9		ug/L	197404	1	10/10/2014 18:13	JM
Ethylene	9	7		ug/L	197404	1	10/10/2014 18:13	JM
Methane	26	4		ug/L	197404	1	10/10/2014 18:13	JM
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	42.0	3.00		mg/L	R277885	1	10/14/2014 15:00	PF

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: EarthCon Consultants, Inc.	Client Sample ID: TRIP BLANK
Project Name: Apollo Smyrna	Collection Date: 10/8/2014
Lab ID: 1410789-005	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	197550	1	10/10/2014 17:41	GC
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	197550	1	10/10/2014 17:41	GC
1,1,2-Trichloroethane	BRL	5.0		ug/L	197550	1	10/10/2014 17:41	GC
1,1-Dichloroethane	BRL	5.0		ug/L	197550	1	10/10/2014 17:41	GC
1,1-Dichloroethene	BRL	5.0		ug/L	197550	1	10/10/2014 17:41	GC
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	197550	1	10/10/2014 17:41	GC
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	197550	1	10/10/2014 17:41	GC
1,2-Dibromoethane	BRL	5.0		ug/L	197550	1	10/10/2014 17:41	GC
1,2-Dichlorobenzene	BRL	5.0		ug/L	197550	1	10/10/2014 17:41	GC
1,2-Dichloroethane	BRL	5.0		ug/L	197550	1	10/10/2014 17:41	GC
1,2-Dichloropropane	BRL	5.0		ug/L	197550	1	10/10/2014 17:41	GC
1,3-Dichlorobenzene	BRL	5.0		ug/L	197550	1	10/10/2014 17:41	GC
1,4-Dichlorobenzene	BRL	5.0		ug/L	197550	1	10/10/2014 17:41	GC
2-Butanone	BRL	50		ug/L	197550	1	10/10/2014 17:41	GC
2-Hexanone	BRL	10		ug/L	197550	1	10/10/2014 17:41	GC
4-Methyl-2-pentanone	BRL	10		ug/L	197550	1	10/10/2014 17:41	GC
Acetone	BRL	50		ug/L	197550	1	10/10/2014 17:41	GC
Benzene	BRL	5.0		ug/L	197550	1	10/10/2014 17:41	GC
Bromodichloromethane	BRL	5.0		ug/L	197550	1	10/10/2014 17:41	GC
Bromoform	BRL	5.0		ug/L	197550	1	10/10/2014 17:41	GC
Bromomethane	BRL	5.0		ug/L	197550	1	10/10/2014 17:41	GC
Carbon disulfide	BRL	5.0		ug/L	197550	1	10/10/2014 17:41	GC
Carbon tetrachloride	BRL	5.0		ug/L	197550	1	10/10/2014 17:41	GC
Chlorobenzene	BRL	5.0		ug/L	197550	1	10/10/2014 17:41	GC
Chloroethane	BRL	10		ug/L	197550	1	10/10/2014 17:41	GC
Chloroform	BRL	5.0		ug/L	197550	1	10/10/2014 17:41	GC
Chloromethane	BRL	10		ug/L	197550	1	10/10/2014 17:41	GC
cis-1,2-Dichloroethene	BRL	5.0		ug/L	197550	1	10/10/2014 17:41	GC
cis-1,3-Dichloropropene	BRL	5.0		ug/L	197550	1	10/10/2014 17:41	GC
Cyclohexane	BRL	5.0		ug/L	197550	1	10/10/2014 17:41	GC
Dibromochloromethane	BRL	5.0		ug/L	197550	1	10/10/2014 17:41	GC
Dichlorodifluoromethane	BRL	10		ug/L	197550	1	10/10/2014 17:41	GC
Ethylbenzene	BRL	5.0		ug/L	197550	1	10/10/2014 17:41	GC
Freon-113	BRL	10		ug/L	197550	1	10/10/2014 17:41	GC
Isopropylbenzene	BRL	5.0		ug/L	197550	1	10/10/2014 17:41	GC
m,p-Xylene	BRL	5.0		ug/L	197550	1	10/10/2014 17:41	GC
Methyl acetate	BRL	5.0		ug/L	197550	1	10/10/2014 17:41	GC
Methyl tert-butyl ether	BRL	5.0		ug/L	197550	1	10/10/2014 17:41	GC
Methylcyclohexane	BRL	5.0		ug/L	197550	1	10/10/2014 17:41	GC
Methylene chloride	BRL	5.0		ug/L	197550	1	10/10/2014 17:41	GC
o-Xylene	BRL	5.0		ug/L	197550	1	10/10/2014 17:41	GC

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: EarthCon Consultants, Inc.	Client Sample ID: TRIP BLANK
Project Name: Apollo Smyrna	Collection Date: 10/8/2014
Lab ID: 1410789-005	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					(SW5030B)			
Styrene	BRL	5.0		ug/L	197550	1	10/10/2014 17:41	GC
Tetrachloroethene	BRL	5.0		ug/L	197550	1	10/10/2014 17:41	GC
Toluene	BRL	5.0		ug/L	197550	1	10/10/2014 17:41	GC
trans-1,2-Dichloroethene	BRL	5.0		ug/L	197550	1	10/10/2014 17:41	GC
trans-1,3-Dichloropropene	BRL	5.0		ug/L	197550	1	10/10/2014 17:41	GC
Trichloroethene	BRL	5.0		ug/L	197550	1	10/10/2014 17:41	GC
Trichlorofluoromethane	BRL	5.0		ug/L	197550	1	10/10/2014 17:41	GC
Vinyl chloride	BRL	2.0		ug/L	197550	1	10/10/2014 17:41	GC
Surr: 4-Bromofluorobenzene	95.8	66.2-120		%REC	197550	1	10/10/2014 17:41	GC
Surr: Dibromofluoromethane	107	79.5-121		%REC	197550	1	10/10/2014 17:41	GC
Surr: Toluene-d8	95.6	77-117		%REC	197550	1	10/10/2014 17:41	GC

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 20-Oct-14

Client: EarthCon Consultants, Inc.	Client Sample ID: MW 1
Project Name: Apollo Smyrna	Collection Date: 10/8/2014 4:10:00 PM
Lab ID: 1410789-006	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) SW9060A								
Organic Carbon, Total	22.3	5.00		mg/L	R277878	5	10/14/2014 18:04	JM
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	90	5.0		ug/L	197550	1	10/11/2014 01:35	GC
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	197550	1	10/11/2014 01:35	GC
1,1,2-Trichloroethane	BRL	5.0		ug/L	197550	1	10/11/2014 01:35	GC
1,1-Dichloroethane	190	5.0		ug/L	197550	1	10/11/2014 01:35	GC
1,1-Dichloroethene	12	5.0		ug/L	197550	1	10/11/2014 01:35	GC
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	197550	1	10/11/2014 01:35	GC
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	197550	1	10/11/2014 01:35	GC
1,2-Dibromoethane	BRL	5.0		ug/L	197550	1	10/11/2014 01:35	GC
1,2-Dichlorobenzene	BRL	5.0		ug/L	197550	1	10/11/2014 01:35	GC
1,2-Dichloroethane	BRL	5.0		ug/L	197550	1	10/11/2014 01:35	GC
1,2-Dichloropropane	BRL	5.0		ug/L	197550	1	10/11/2014 01:35	GC
1,3-Dichlorobenzene	BRL	5.0		ug/L	197550	1	10/11/2014 01:35	GC
1,4-Dichlorobenzene	BRL	5.0		ug/L	197550	1	10/11/2014 01:35	GC
2-Butanone	BRL	50		ug/L	197550	1	10/11/2014 01:35	GC
2-Hexanone	10	10		ug/L	197550	1	10/11/2014 01:35	GC
4-Methyl-2-pentanone	BRL	10		ug/L	197550	1	10/11/2014 01:35	GC
Acetone	170	50		ug/L	197550	1	10/11/2014 01:35	GC
Benzene	BRL	5.0		ug/L	197550	1	10/11/2014 01:35	GC
Bromodichloromethane	BRL	5.0		ug/L	197550	1	10/11/2014 01:35	GC
Bromoform	BRL	5.0		ug/L	197550	1	10/11/2014 01:35	GC
Bromomethane	BRL	5.0		ug/L	197550	1	10/11/2014 01:35	GC
Carbon disulfide	13	5.0		ug/L	197550	1	10/11/2014 01:35	GC
Carbon tetrachloride	BRL	5.0		ug/L	197550	1	10/11/2014 01:35	GC
Chlorobenzene	BRL	5.0		ug/L	197550	1	10/11/2014 01:35	GC
Chloroethane	BRL	10		ug/L	197550	1	10/11/2014 01:35	GC
Chloroform	BRL	5.0		ug/L	197550	1	10/11/2014 01:35	GC
Chloromethane	BRL	10		ug/L	197550	1	10/11/2014 01:35	GC
cis-1,2-Dichloroethene	160	5.0		ug/L	197550	1	10/11/2014 01:35	GC
cis-1,3-Dichloropropene	BRL	5.0		ug/L	197550	1	10/11/2014 01:35	GC
Cyclohexane	BRL	5.0		ug/L	197550	1	10/11/2014 01:35	GC
Dibromochloromethane	BRL	5.0		ug/L	197550	1	10/11/2014 01:35	GC
Dichlorodifluoromethane	BRL	10		ug/L	197550	1	10/11/2014 01:35	GC
Ethylbenzene	BRL	5.0		ug/L	197550	1	10/11/2014 01:35	GC
Freon-113	BRL	10		ug/L	197550	1	10/11/2014 01:35	GC
Isopropylbenzene	BRL	5.0		ug/L	197550	1	10/11/2014 01:35	GC
m,p-Xylene	BRL	5.0		ug/L	197550	1	10/11/2014 01:35	GC
Methyl acetate	BRL	5.0		ug/L	197550	1	10/11/2014 01:35	GC
Methyl tert-butyl ether	BRL	5.0		ug/L	197550	1	10/11/2014 01:35	GC

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: EarthCon Consultants, Inc.	Client Sample ID: MW 1
Project Name: Apollo Smyrna	Collection Date: 10/8/2014 4:10:00 PM
Lab ID: 1410789-006	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					(SW5030B)			
Methylcyclohexane	BRL	5.0		ug/L	197550	1	10/11/2014 01:35	GC
Methylene chloride	BRL	5.0		ug/L	197550	1	10/11/2014 01:35	GC
o-Xylene	BRL	5.0		ug/L	197550	1	10/11/2014 01:35	GC
Styrene	BRL	5.0		ug/L	197550	1	10/11/2014 01:35	GC
Tetrachloroethene	BRL	5.0		ug/L	197550	1	10/11/2014 01:35	GC
Toluene	18	5.0		ug/L	197550	1	10/11/2014 01:35	GC
trans-1,2-Dichloroethene	BRL	5.0		ug/L	197550	1	10/11/2014 01:35	GC
trans-1,3-Dichloropropene	BRL	5.0		ug/L	197550	1	10/11/2014 01:35	GC
Trichloroethene	47	5.0		ug/L	197550	1	10/11/2014 01:35	GC
Trichlorofluoromethane	BRL	5.0		ug/L	197550	1	10/11/2014 01:35	GC
Vinyl chloride	82	2.0		ug/L	197550	1	10/11/2014 01:35	GC
Surr: 4-Bromofluorobenzene	94.5	66.2-120		%REC	197550	1	10/11/2014 01:35	GC
Surr: Dibromofluoromethane	112	79.5-121		%REC	197550	1	10/11/2014 01:35	GC
Surr: Toluene-d8	99.7	77-117		%REC	197550	1	10/11/2014 01:35	GC
Sulfide by SW9030B/9034					(SW9030B)			
Sulfide	BRL	2.00		mg/L	197735	1	10/15/2014 08:55	AB
ION SCAN SW9056A								
Chloride	58	2.0		mg/L	R277816	2	10/09/2014 19:22	YS
Nitrate	BRL	0.25		mg/L	R277816	1	10/09/2014 11:19	YS
Sulfate	15	1.0		mg/L	R277816	1	10/09/2014 11:19	YS
GC Analysis of Gaseous Samples SOP-RSK 175					(RSK175)			
Ethane	BRL	9		ug/L	197643	1	10/14/2014 15:01	JM
Ethylene	25	7		ug/L	197643	1	10/14/2014 15:01	JM
Methane	55	4		ug/L	197643	1	10/14/2014 15:01	JM
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	84.0	3.00		mg/L	R277885	1	10/14/2014 15:00	PF

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
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- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Earth Con

Work Order Number 1410789

Checklist completed by MJ Signature 10/8/14 Date

Carrier name: FedEx UPS Courier Client US Mail Other

Shipping container/cooler in good condition? Yes No Not Present

Custody seals intact on shipping container/cooler? Yes No Not Present

Custody seals intact on sample bottles? Yes No Not Present

Container/Temp Blank temperature in compliance? (0°≤6°C)* Yes No

Cooler #1 3.1' Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Chain of custody present? Yes No

Chain of custody signed when relinquished and received? Yes No

Chain of custody agrees with sample labels? Yes No

Samples in proper container/bottle? Yes No

Sample containers intact? Yes No

Sufficient sample volume for indicated test? Yes No

All samples received within holding time? Yes No

Was TAT marked on the COC? Yes No

Proceed with Standard TAT as per project history? Yes No Not Applicable

Water - VOA vials have zero headspace? No VOA vials submitted Yes No

Water - pH acceptable upon receipt? Yes No Not Applicable

Sample Condition: Good Adjusted? _____ Other(Explain) _____ Checked by MJ

(For diffusive samples or AIHA lead) Is a known blank included? Yes No

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

Client: EarthCon Consultants, Inc.
 Project: Apollo Smyrna
 Lab Order: 1410789

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1410789-001A	RW2	10/8/2014 10:45:00AM	Groundwater	TCL VOLATILE ORGANICS		10/10/2014	10/13/2014
1410789-001B	RW2	10/8/2014 10:45:00AM	Groundwater	GC Analysis of Gaseous Samples		10/10/2014	10/10/2014
1410789-001C	RW2	10/8/2014 10:45:00AM	Groundwater	Total Organic Carbon (TOC)			10/14/2014
1410789-001D	RW2	10/8/2014 10:45:00AM	Groundwater	Alkalinity by SM2320B			10/14/2014
1410789-001E	RW2	10/8/2014 10:45:00AM	Groundwater	Sulfide by SW9030/9034		10/15/2014	10/15/2014
1410789-001F	RW2	10/8/2014 10:45:00AM	Groundwater	ION SCAN			10/09/2014
1410789-002A	RW1	10/8/2014 1:30:00PM	Groundwater	TCL VOLATILE ORGANICS		10/10/2014	10/11/2014
1410789-002A	RW1	10/8/2014 1:30:00PM	Groundwater	TCL VOLATILE ORGANICS		10/10/2014	10/13/2014
1410789-002B	RW1	10/8/2014 1:30:00PM	Groundwater	GC Analysis of Gaseous Samples		10/10/2014	10/10/2014
1410789-002C	RW1	10/8/2014 1:30:00PM	Groundwater	Total Organic Carbon (TOC)			10/14/2014
1410789-002D	RW1	10/8/2014 1:30:00PM	Groundwater	Alkalinity by SM2320B			10/14/2014
1410789-002E	RW1	10/8/2014 1:30:00PM	Groundwater	Sulfide by SW9030/9034		10/15/2014	10/15/2014
1410789-002F	RW1	10/8/2014 1:30:00PM	Groundwater	ION SCAN			10/09/2014
1410789-003A	DW1	10/8/2014 2:55:00PM	Groundwater	TCL VOLATILE ORGANICS		10/10/2014	10/11/2014
1410789-003A	DW1	10/8/2014 2:55:00PM	Groundwater	TCL VOLATILE ORGANICS		10/10/2014	10/13/2014
1410789-003B	DW1	10/8/2014 2:55:00PM	Groundwater	GC Analysis of Gaseous Samples		10/10/2014	10/10/2014
1410789-003C	DW1	10/8/2014 2:55:00PM	Groundwater	Total Organic Carbon (TOC)			10/14/2014
1410789-003D	DW1	10/8/2014 2:55:00PM	Groundwater	Alkalinity by SM2320B			10/14/2014
1410789-003E	DW1	10/8/2014 2:55:00PM	Groundwater	Sulfide by SW9030/9034		10/15/2014	10/15/2014
1410789-003F	DW1	10/8/2014 2:55:00PM	Groundwater	ION SCAN			10/09/2014
1410789-004A	DUP 1	10/8/2014 12:00:00PM	Groundwater	TCL VOLATILE ORGANICS		10/10/2014	10/11/2014
1410789-004A	DUP 1	10/8/2014 12:00:00PM	Groundwater	TCL VOLATILE ORGANICS		10/10/2014	10/13/2014
1410789-004B	DUP 1	10/8/2014 12:00:00PM	Groundwater	GC Analysis of Gaseous Samples		10/10/2014	10/10/2014
1410789-004C	DUP 1	10/8/2014 12:00:00PM	Groundwater	Total Organic Carbon (TOC)			10/14/2014
1410789-004D	DUP 1	10/8/2014 12:00:00PM	Groundwater	Alkalinity by SM2320B			10/14/2014
1410789-004E	DUP 1	10/8/2014 12:00:00PM	Groundwater	Sulfide by SW9030/9034		10/15/2014	10/15/2014
1410789-004F	DUP 1	10/8/2014 12:00:00PM	Groundwater	ION SCAN			10/09/2014
1410789-005A	TRIP BLANK	10/8/2014 12:00:00AM	Aqueous	TCL VOLATILE ORGANICS		10/10/2014	10/10/2014
1410789-006A	MW 1	10/8/2014 4:10:00PM	Groundwater	TCL VOLATILE ORGANICS		10/10/2014	10/11/2014

Client: EarthCon Consultants, Inc.
 Project: Apollo Smyrna
 Lab Order: 1410789

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1410789-006B	MW 1	10/8/2014 4:10:00PM	Groundwater	GC Analysis of Gaseous Samples		10/14/2014	10/14/2014
1410789-006C	MW 1	10/8/2014 4:10:00PM	Groundwater	Total Organic Carbon (TOC)			10/14/2014
1410789-006D	MW 1	10/8/2014 4:10:00PM	Groundwater	Alkalinity by SM2320B			10/14/2014
1410789-006E	MW 1	10/8/2014 4:10:00PM	Groundwater	Sulfide by SW9030/9034		10/15/2014	10/15/2014
1410789-006F	MW 1	10/8/2014 4:10:00PM	Groundwater	ION SCAN			10/09/2014

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1410789

ANALYTICAL QC SUMMARY REPORT

BatchID: 197404

Sample ID: MB-197404	Client ID:	Units: ug/L	Prep Date: 10/10/2014	Run No: 277573							
SampleType: MBLK	TestCode: GC Analysis of Gaseous Samples SOP-RSK 175	BatchID: 197404	Analysis Date: 10/10/2014	Seq No: 5867198							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethane	BRL	9									
Ethylene	BRL	7									
Methane	BRL	4									

Sample ID: LCS-197404	Client ID:	Units: ug/L	Prep Date: 10/10/2014	Run No: 277573							
SampleType: LCS	TestCode: GC Analysis of Gaseous Samples SOP-RSK 175	BatchID: 197404	Analysis Date: 10/10/2014	Seq No: 5867199							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethane	102.1	9	200.0		51.1	41.6	115				
Ethylene	69.41	7	200.0		34.7	26.9	115				
Methane	113.9	4	200.0		57.0	45.2	115				

Sample ID: LCSD-197404	Client ID:	Units: ug/L	Prep Date: 10/10/2014	Run No: 277573							
SampleType: LCSD	TestCode: GC Analysis of Gaseous Samples SOP-RSK 175	BatchID: 197404	Analysis Date: 10/10/2014	Seq No: 5867200							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethane	99.19	9	200.0		49.6	41.6	115	102.1	2.93	20	
Ethylene	67.34	7	200.0		33.7	26.9	115	69.41	3.02	20	
Methane	111.5	4	200.0		55.7	45.2	115	113.9	2.17	20	

Sample ID: 1410789-004BMS	Client ID: DUP 1	Units: ug/L	Prep Date: 10/10/2014	Run No: 277573							
SampleType: MS	TestCode: GC Analysis of Gaseous Samples SOP-RSK 175	BatchID: 197404	Analysis Date: 10/10/2014	Seq No: 5867255							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethane	109.0	9	200.0		54.5	40.1	115				
Ethylene	86.44	7	200.0	8.749	38.8	24.5	115				
Methane	173.7	4	200.0	26.46	73.6	41.1	115				

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1410789

ANALYTICAL QC SUMMARY REPORT

BatchID: 197404

Sample ID: 1410789-004BMSD	Client ID: DUP 1	Units: ug/L	Prep Date: 10/10/2014	Run No: 277573							
SampleType: MSD	TestCode: GC Analysis of Gaseous Samples SOP-RSK 175	BatchID: 197404	Analysis Date: 10/10/2014	Seq No: 5867256							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethane	111.2	9	200.0		55.6	40.1	115	109.0	2.02	20	
Ethylene	88.05	7	200.0	8.749	39.6	24.5	115	86.44	1.84	20	
Methane	177.8	4	200.0	26.46	75.7	41.1	115	173.7	2.36	20	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1410789

ANALYTICAL QC SUMMARY REPORT

BatchID: 197550

Sample ID: MB-197550	Client ID:	Units: ug/L	Prep Date: 10/10/2014	Run No: 277603							
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 197550	Analysis Date: 10/10/2014	Seq No: 5869632							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,2,4-Trichlorobenzene	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dibromoethane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,3-Dichlorobenzene	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
2-Butanone	BRL	50									
2-Hexanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	50									
Benzene	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Bromoform	BRL	5.0									
Bromomethane	BRL	5.0									
Carbon disulfide	BRL	5.0									
Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									
Chloroform	BRL	5.0									
Chloromethane	BRL	10									

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1410789

ANALYTICAL QC SUMMARY REPORT

BatchID: 197550

Sample ID: MB-197550	Client ID:	Units: ug/L	Prep Date: 10/10/2014	Run No: 277603							
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 197550	Analysis Date: 10/10/2014	Seq No: 5869632							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Freon-113	BRL	10									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	5.0									
Methyl acetate	BRL	5.0									
Methyl tert-butyl ether	BRL	5.0									
Methylcyclohexane	BRL	5.0									
Methylene chloride	BRL	5.0									
o-Xylene	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	2.0									
Surr: 4-Bromofluorobenzene	49.08	0	50.00		98.2	66.2	120				
Surr: Dibromofluoromethane	53.98	0	50.00		108	79.5	121				
Surr: Toluene-d8	47.40	0	50.00		94.8	77	117				

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1410789

ANALYTICAL QC SUMMARY REPORT

BatchID: 197550

Sample ID: LCS-197550	Client ID:	Units: ug/L	Prep Date: 10/10/2014	Run No: 277603							
SampleType: LCS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 197550	Analysis Date: 10/10/2014	Seq No: 5869645							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	56.31	5.0	50.00		113	63.1	140				
Benzene	54.39	5.0	50.00		109	74.2	129				
Chlorobenzene	49.80	5.0	50.00		99.6	70	129				
Toluene	52.39	5.0	50.00		105	74.2	129				
Trichloroethene	57.71	5.0	50.00		115	71.2	135				
Surr: 4-Bromofluorobenzene	53.70	0	50.00		107	66.2	120				
Surr: Dibromofluoromethane	52.84	0	50.00		106	79.5	121				
Surr: Toluene-d8	48.52	0	50.00		97.0	77	117				

Sample ID: 1410658-003AMS	Client ID:	Units: ug/L	Prep Date: 10/10/2014	Run No: 277672							
SampleType: MS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 197550	Analysis Date: 10/13/2014	Seq No: 5868812							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	65.68	5.0	50.00		131	60.2	159				
Benzene	66.21	5.0	50.00		132	70.2	138				
Chlorobenzene	65.98	5.0	50.00		132	70.1	133				
Toluene	65.70	5.0	50.00		131	70	139				
Trichloroethene	63.92	5.0	50.00		128	70.1	144				
Surr: 4-Bromofluorobenzene	44.68	0	50.00		89.4	66.2	120				
Surr: Dibromofluoromethane	50.51	0	50.00		101	79.5	121				
Surr: Toluene-d8	45.96	0	50.00		91.9	77	117				

Sample ID: 1410658-003AMSD	Client ID:	Units: ug/L	Prep Date: 10/10/2014	Run No: 277672							
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 197550	Analysis Date: 10/13/2014	Seq No: 5868923							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	65.13	5.0	50.00		130	60.2	159	65.68	0.841	19.2	
Benzene	65.87	5.0	50.00		132	70.2	138	66.21	0.515	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1410789

ANALYTICAL QC SUMMARY REPORT

BatchID: 197550

Sample ID: 1410658-003AMSD	Client ID:	Units: ug/L	Prep Date: 10/10/2014	Run No: 277672							
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 197550	Analysis Date: 10/13/2014	Seq No: 5868923							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chlorobenzene	65.04	5.0	50.00		130	70.1	133	65.98	1.43	20	
Toluene	64.64	5.0	50.00		129	70	139	65.70	1.63	20	
Trichloroethene	63.51	5.0	50.00		127	70.1	144	63.92	0.643	20	
Surr: 4-Bromofluorobenzene	44.88	0	50.00		89.8	66.2	120	44.68	0	0	
Surr: Dibromofluoromethane	50.99	0	50.00		102	79.5	121	50.51	0	0	
Surr: Toluene-d8	46.23	0	50.00		92.5	77	117	45.96	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1410789

ANALYTICAL QC SUMMARY REPORT

BatchID: 197643

Sample ID: MB-197643	Client ID:	Units: ug/L	Prep Date: 10/14/2014	Run No: 277831							
SampleType: MBLK	TestCode: GC Analysis of Gaseous Samples SOP-RSK 175	BatchID: 197643	Analysis Date: 10/14/2014	Seq No: 5870907							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethane	BRL	9									
Ethylene	BRL	7									
Methane	BRL	4									

Sample ID: LCS-197643	Client ID:	Units: ug/L	Prep Date: 10/14/2014	Run No: 277831							
SampleType: LCS	TestCode: GC Analysis of Gaseous Samples SOP-RSK 175	BatchID: 197643	Analysis Date: 10/14/2014	Seq No: 5870908							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethane	92.51	9	200.0		46.3	41.6	115				
Ethylene	62.91	7	200.0		31.5	26.9	115				
Methane	105.3	4	200.0		52.6	45.2	115				

Sample ID: LCSD-197643	Client ID:	Units: ug/L	Prep Date: 10/14/2014	Run No: 277831							
SampleType: LCSD	TestCode: GC Analysis of Gaseous Samples SOP-RSK 175	BatchID: 197643	Analysis Date: 10/14/2014	Seq No: 5870909							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethane	93.00	9	200.0		46.5	41.6	115	92.51	0.527	20	
Ethylene	63.43	7	200.0		31.7	26.9	115	62.91	0.817	20	
Methane	104.7	4	200.0		52.4	45.2	115	105.3	0.531	20	

Sample ID: 1410922-004BMS	Client ID:	Units: ug/L	Prep Date: 10/14/2014	Run No: 277831							
SampleType: MS	TestCode: GC Analysis of Gaseous Samples SOP-RSK 175	BatchID: 197643	Analysis Date: 10/14/2014	Seq No: 5870914							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethane	99.61	9	200.0		49.8	40.1	115				
Ethylene	68.06	7	200.0		34.0	24.5	115				
Methane	114.2	4	200.0		57.1	41.1	115				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
 Project Name: Apollo Smyrna
 Workorder: 1410789

ANALYTICAL QC SUMMARY REPORT

BatchID: 197643

Sample ID: 1410922-004BMSD	Client ID:	Units: ug/L	Prep Date: 10/14/2014	Run No: 277831							
SampleType: MSD	TestCode: GC Analysis of Gaseous Samples SOP-RSK 175	BatchID: 197643	Analysis Date: 10/14/2014	Seq No: 5870917							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethane	101.6	9	200.0		50.8	40.1	115	99.61	1.95	20	
Ethylene	69.35	7	200.0		34.7	24.5	115	68.06	1.88	20	
Methane	116.9	4	200.0		58.4	41.1	115	114.2	2.33	20	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1410789

ANALYTICAL QC SUMMARY REPORT

BatchID: 197735

Sample ID: MB-197735	Client ID:	Units: mg/L	Prep Date: 10/15/2014	Run No: 277927							
SampleType: MBLK	TestCode: Sulfide by SW9030B/9034	BatchID: 197735	Analysis Date: 10/15/2014	Seq No: 5873371							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Sulfide BRL 2.00

Sample ID: LCS-197735	Client ID:	Units: mg/L	Prep Date: 10/15/2014	Run No: 277927							
SampleType: LCS	TestCode: Sulfide by SW9030B/9034	BatchID: 197735	Analysis Date: 10/15/2014	Seq No: 5873372							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Sulfide 368.0 2.00 368.0 100 40 120

Sample ID: 1410771-002DMS	Client ID:	Units: mg/L	Prep Date: 10/15/2014	Run No: 277927							
SampleType: MS	TestCode: Sulfide by SW9030B/9034	BatchID: 197735	Analysis Date: 10/15/2014	Seq No: 5873392							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Sulfide 18.20 2.00 18.40 98.9 76.7 120

Sample ID: 1410771-002DMSD	Client ID:	Units: mg/L	Prep Date: 10/15/2014	Run No: 277927							
SampleType: MSD	TestCode: Sulfide by SW9030B/9034	BatchID: 197735	Analysis Date: 10/15/2014	Seq No: 5873394							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Sulfide 17.80 2.00 18.40 96.7 76.7 120 18.20 2.22 20

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1410789

ANALYTICAL QC SUMMARY REPORT

BatchID: R277816

Sample ID: MB-R277816	Client ID:	Units: mg/L	Prep Date:	Run No: 277816							
SampleType: MBLK	TestCode: ION SCAN SW9056A	BatchID: R277816	Analysis Date: 10/09/2014	Seq No: 5870447							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride	BRL	1.0									
Nitrate	BRL	0.25									
Sulfate	BRL	1.0									

Sample ID: LCS-R277816	Client ID:	Units: mg/L	Prep Date:	Run No: 277816							
SampleType: LCS	TestCode: ION SCAN SW9056A	BatchID: R277816	Analysis Date: 10/09/2014	Seq No: 5870446							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride	9.865	1.0	10.00		98.6	90	110				
Nitrate	4.784	0.25	5.000		95.7	90	110				
Sulfate	23.75	1.0	25.00		95.0	90	110				

Sample ID: 1410805-002DMS	Client ID:	Units: mg/L	Prep Date:	Run No: 277816							
SampleType: MS	TestCode: ION SCAN SW9056A	BatchID: R277816	Analysis Date: 10/09/2014	Seq No: 5870458							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride	17.86	1.0	10.00	7.639	102	90	110				
Nitrate	8.267	0.25	5.000	3.028	105	90	110				
Sulfate	46.86	1.0	25.00	24.07	91.2	90	110				

Sample ID: 1410805-002DMSD	Client ID:	Units: mg/L	Prep Date:	Run No: 277816							
SampleType: MSD	TestCode: ION SCAN SW9056A	BatchID: R277816	Analysis Date: 10/09/2014	Seq No: 5870459							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride	18.16	1.0	10.00	7.639	105	90	110	17.86	1.67	20	
Nitrate	8.281	0.25	5.000	3.028	105	90	110	8.267	0.173	20	
Sulfate	47.35	1.0	25.00	24.07	93.1	90	110	46.86	1.03	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1410789

ANALYTICAL QC SUMMARY REPORT

BatchID: R277878

Sample ID: MB-R277878	Client ID:	Units: mg/L	Prep Date:	Run No: 277878							
SampleType: MBLK	TestCode: Total Organic Carbon (TOC) SW9060A	BatchID: R277878	Analysis Date: 10/14/2014	Seq No: 5872121							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Organic Carbon, Total

BRL 1.00

Sample ID: LCS-R277878	Client ID:	Units: mg/L	Prep Date:	Run No: 277878							
SampleType: LCS	TestCode: Total Organic Carbon (TOC) SW9060A	BatchID: R277878	Analysis Date: 10/14/2014	Seq No: 5872119							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Organic Carbon, Total

24.09 1.00 25.00 96.4 90 110

Sample ID: 1410789-001CMS	Client ID: RW2	Units: mg/L	Prep Date:	Run No: 277878							
SampleType: MS	TestCode: Total Organic Carbon (TOC) SW9060A	BatchID: R277878	Analysis Date: 10/14/2014	Seq No: 5872149							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Organic Carbon, Total

26.59 1.00 25.00 1.537 100 80 120

Sample ID: 1410789-001CMSD	Client ID: RW2	Units: mg/L	Prep Date:	Run No: 277878							
SampleType: MSD	TestCode: Total Organic Carbon (TOC) SW9060A	BatchID: R277878	Analysis Date: 10/14/2014	Seq No: 5872151							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Organic Carbon, Total

27.42 1.00 25.00 1.537 104 80 120 26.59 3.07 20

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
	BRL Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
	J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
	Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1410789

ANALYTICAL QC SUMMARY REPORT

BatchID: R277885

Sample ID: MB-R277885	Client ID:	Units: mg/L	Prep Date:	Run No: 277885							
SampleType: MBLK	TestCode: Alkalinity by SM2320B	BatchID: R277885	Analysis Date: 10/14/2014	Seq No: 5872234							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Alkalinity, Total (As CaCO3)

BRL 3.00

Sample ID: LCS-R277885	Client ID:	Units: mg/L	Prep Date:	Run No: 277885							
SampleType: LCS	TestCode: Alkalinity by SM2320B	BatchID: R277885	Analysis Date: 10/14/2014	Seq No: 5872235							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Alkalinity, Total (As CaCO3)

116.0 3.00 125.0 1.000 92.0 75 125

Sample ID: 1410689-007FDUP	Client ID:	Units: mg/L	Prep Date:	Run No: 277885							
SampleType: DUP	TestCode: Alkalinity by SM2320B	BatchID: R277885	Analysis Date: 10/14/2014	Seq No: 5872256							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Alkalinity, Total (As CaCO3)

109.0 3.00 111.0 1.82 30

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
	BRL Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
	J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
	Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	



October 20, 2014

Kristen Rivera
EarthCon Consultants, Inc.
1880 West Oak Parkway
Marietta GA 30062

TEL: (770) 973-2100
FAX: (770) 973-7395

RE: Apollo Smyrna

Dear Kristen Rivera:

Order No: 1410922

Analytical Environmental Services, Inc. received 4 samples on 10/9/2014 4:04:00 PM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/14-06/30/15.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/15.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Chantelle Kanhai
Project Manager

Client: EarthCon Consultants, Inc.

Project: Apollo Smyrna

Lab ID: 1410922

Case Narrative

Ion Chromatography Analysis by Method 9056A:

Due to sample matrix, samples 1410922-001 and -002 required a dilution during preparation and/or analysis resulting in elevated reporting limits.

Analytical Environmental Services, Inc

Date: 20-Oct-14

Client: EarthCon Consultants, Inc.	Client Sample ID: MW3
Project Name: Apollo Smyrna	Collection Date: 10/8/2014 5:30:00 PM
Lab ID: 1410922-001	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) SW9060A								
Organic Carbon, Total	54.8	5.00		mg/L	R277878	5	10/14/2014 18:24	JM
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	1600	50		ug/L	197537	10	10/13/2014 12:00	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	197537	1	10/12/2014 18:04	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	197537	1	10/12/2014 18:04	NP
1,1-Dichloroethane	3000	500		ug/L	197537	100	10/13/2014 14:04	NP
1,1-Dichloroethene	1500	50		ug/L	197537	10	10/13/2014 12:00	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	197537	1	10/12/2014 18:04	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	197537	1	10/12/2014 18:04	NP
1,2-Dibromoethane	BRL	5.0		ug/L	197537	1	10/12/2014 18:04	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	197537	1	10/12/2014 18:04	NP
1,2-Dichloroethane	9.3	5.0		ug/L	197537	1	10/12/2014 18:04	NP
1,2-Dichloropropane	BRL	5.0		ug/L	197537	1	10/12/2014 18:04	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	197537	1	10/12/2014 18:04	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	197537	1	10/12/2014 18:04	NP
2-Butanone	BRL	50		ug/L	197537	1	10/12/2014 18:04	NP
2-Hexanone	BRL	10		ug/L	197537	1	10/12/2014 18:04	NP
4-Methyl-2-pentanone	23	10		ug/L	197537	1	10/12/2014 18:04	NP
Acetone	53000	25000		ug/L	197537	500	10/13/2014 15:18	NP
Benzene	BRL	5.0		ug/L	197537	1	10/12/2014 18:04	NP
Bromodichloromethane	BRL	5.0		ug/L	197537	1	10/12/2014 18:04	NP
Bromoform	BRL	5.0		ug/L	197537	1	10/12/2014 18:04	NP
Bromomethane	BRL	5.0		ug/L	197537	1	10/12/2014 18:04	NP
Carbon disulfide	BRL	5.0		ug/L	197537	1	10/12/2014 18:04	NP
Carbon tetrachloride	BRL	5.0		ug/L	197537	1	10/12/2014 18:04	NP
Chlorobenzene	BRL	5.0		ug/L	197537	1	10/12/2014 18:04	NP
Chloroethane	240	100		ug/L	197537	10	10/13/2014 12:00	NP
Chloroform	BRL	5.0		ug/L	197537	1	10/12/2014 18:04	NP
Chloromethane	BRL	10		ug/L	197537	1	10/12/2014 18:04	NP
cis-1,2-Dichloroethene	5000	500		ug/L	197537	100	10/13/2014 14:04	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	197537	1	10/12/2014 18:04	NP
Cyclohexane	13	5.0		ug/L	197537	1	10/12/2014 18:04	NP
Dibromochloromethane	BRL	5.0		ug/L	197537	1	10/12/2014 18:04	NP
Dichlorodifluoromethane	BRL	10		ug/L	197537	1	10/12/2014 18:04	NP
Ethylbenzene	33	5.0		ug/L	197537	1	10/12/2014 18:04	NP
Freon-113	BRL	10		ug/L	197537	1	10/12/2014 18:04	NP
Isopropylbenzene	BRL	5.0		ug/L	197537	1	10/12/2014 18:04	NP
m,p-Xylene	160	5.0		ug/L	197537	1	10/12/2014 18:04	NP
Methyl acetate	BRL	5.0		ug/L	197537	1	10/12/2014 18:04	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	197537	1	10/12/2014 18:04	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: EarthCon Consultants, Inc.	Client Sample ID: MW3
Project Name: Apollo Smyrna	Collection Date: 10/8/2014 5:30:00 PM
Lab ID: 1410922-001	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					(SW5030B)			
Methylcyclohexane	9.3	5.0		ug/L	197537	1	10/12/2014 18:04	NP
Methylene chloride	BRL	5.0		ug/L	197537	1	10/12/2014 18:04	NP
o-Xylene	51	5.0		ug/L	197537	1	10/12/2014 18:04	NP
Styrene	BRL	5.0		ug/L	197537	1	10/12/2014 18:04	NP
Tetrachloroethene	5.7	5.0		ug/L	197537	1	10/12/2014 18:04	NP
Toluene	880	50		ug/L	197537	10	10/13/2014 12:00	NP
trans-1,2-Dichloroethene	6.5	5.0		ug/L	197537	1	10/12/2014 18:04	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	197537	1	10/12/2014 18:04	NP
Trichloroethene	73	5.0		ug/L	197537	1	10/12/2014 18:04	NP
Trichlorofluoromethane	BRL	5.0		ug/L	197537	1	10/12/2014 18:04	NP
Vinyl chloride	1400	20		ug/L	197537	10	10/13/2014 12:00	NP
Surr: 4-Bromofluorobenzene	90.2	66.2-120		%REC	197537	500	10/13/2014 15:18	NP
Surr: 4-Bromofluorobenzene	88.3	66.2-120		%REC	197537	100	10/13/2014 14:04	NP
Surr: 4-Bromofluorobenzene	93.5	66.2-120		%REC	197537	10	10/13/2014 12:00	NP
Surr: 4-Bromofluorobenzene	99.6	66.2-120		%REC	197537	1	10/12/2014 18:04	NP
Surr: Dibromofluoromethane	109	79.5-121		%REC	197537	500	10/13/2014 15:18	NP
Surr: Dibromofluoromethane	112	79.5-121		%REC	197537	100	10/13/2014 14:04	NP
Surr: Dibromofluoromethane	114	79.5-121		%REC	197537	10	10/13/2014 12:00	NP
Surr: Dibromofluoromethane	118	79.5-121		%REC	197537	1	10/12/2014 18:04	NP
Surr: Toluene-d8	94.5	77-117		%REC	197537	500	10/13/2014 15:18	NP
Surr: Toluene-d8	96.2	77-117		%REC	197537	100	10/13/2014 14:04	NP
Surr: Toluene-d8	96.8	77-117		%REC	197537	10	10/13/2014 12:00	NP
Surr: Toluene-d8	104	77-117		%REC	197537	1	10/12/2014 18:04	NP
Sulfide by SW9030B/9034					(SW9030B)			
Sulfide	BRL	2.00		mg/L	197735	1	10/15/2014 08:55	AB
ION SCAN SW9056A								
Chloride	110	10		mg/L	R277825	10	10/09/2014 23:03	YS
Nitrate	BRL	2.5		mg/L	R277825	10	10/09/2014 23:03	YS
Sulfate	BRL	10		mg/L	R277825	10	10/09/2014 23:03	YS
GC Analysis of Gaseous Samples SOP-RSK 175					(RSK175)			
Ethane	40	9		ug/L	197643	1	10/14/2014 15:19	JM
Ethylene	260	7		ug/L	197643	1	10/14/2014 15:19	JM
Methane	640	20		ug/L	197643	5	10/14/2014 17:05	JM
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	186	3.00		mg/L	R277889	1	10/15/2014 10:25	PF

Qualifiers:

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- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 20-Oct-14

Client: EarthCon Consultants, Inc.	Client Sample ID: MW4
Project Name: Apollo Smyrna	Collection Date: 10/8/2014 7:10:00 PM
Lab ID: 1410922-002	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) SW9060A								
Organic Carbon, Total	1.12	1.00		mg/L	R277878	1	10/14/2014 18:47	JM
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	2400	500		ug/L	197537	100	10/13/2014 11:33	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	197537	1	10/13/2014 13:14	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	197537	1	10/13/2014 13:14	NP
1,1-Dichloroethane	75	5.0		ug/L	197537	1	10/13/2014 13:14	NP
1,1-Dichloroethene	16000	500		ug/L	197537	100	10/13/2014 11:33	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	197537	1	10/13/2014 13:14	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	197537	1	10/13/2014 13:14	NP
1,2-Dibromoethane	BRL	5.0		ug/L	197537	1	10/13/2014 13:14	NP
1,2-Dichlorobenzene	5.7	5.0		ug/L	197537	1	10/13/2014 13:14	NP
1,2-Dichloroethane	BRL	5.0		ug/L	197537	1	10/13/2014 13:14	NP
1,2-Dichloropropane	BRL	5.0		ug/L	197537	1	10/13/2014 13:14	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	197537	1	10/13/2014 13:14	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	197537	1	10/13/2014 13:14	NP
2-Butanone	BRL	50		ug/L	197537	1	10/13/2014 13:14	NP
2-Hexanone	BRL	10		ug/L	197537	1	10/13/2014 13:14	NP
4-Methyl-2-pentanone	BRL	10		ug/L	197537	1	10/13/2014 13:14	NP
Acetone	BRL	50		ug/L	197537	1	10/13/2014 13:14	NP
Benzene	BRL	5.0		ug/L	197537	1	10/13/2014 13:14	NP
Bromodichloromethane	BRL	5.0		ug/L	197537	1	10/13/2014 13:14	NP
Bromoform	BRL	5.0		ug/L	197537	1	10/13/2014 13:14	NP
Bromomethane	BRL	5.0		ug/L	197537	1	10/13/2014 13:14	NP
Carbon disulfide	BRL	5.0		ug/L	197537	1	10/13/2014 13:14	NP
Carbon tetrachloride	BRL	5.0		ug/L	197537	1	10/13/2014 13:14	NP
Chlorobenzene	BRL	5.0		ug/L	197537	1	10/13/2014 13:14	NP
Chloroethane	BRL	10		ug/L	197537	1	10/13/2014 13:14	NP
Chloroform	BRL	5.0		ug/L	197537	1	10/13/2014 13:14	NP
Chloromethane	BRL	10		ug/L	197537	1	10/13/2014 13:14	NP
cis-1,2-Dichloroethene	11	5.0		ug/L	197537	1	10/13/2014 13:14	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	197537	1	10/13/2014 13:14	NP
Cyclohexane	11	5.0		ug/L	197537	1	10/13/2014 13:14	NP
Dibromochloromethane	BRL	5.0		ug/L	197537	1	10/13/2014 13:14	NP
Dichlorodifluoromethane	BRL	10		ug/L	197537	1	10/13/2014 13:14	NP
Ethylbenzene	BRL	5.0		ug/L	197537	1	10/13/2014 13:14	NP
Freon-113	2400	1000		ug/L	197537	100	10/13/2014 11:33	NP
Isopropylbenzene	BRL	5.0		ug/L	197537	1	10/13/2014 13:14	NP
m,p-Xylene	BRL	5.0		ug/L	197537	1	10/13/2014 13:14	NP
Methyl acetate	BRL	5.0		ug/L	197537	1	10/13/2014 13:14	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	197537	1	10/13/2014 13:14	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: EarthCon Consultants, Inc.	Client Sample ID: MW4
Project Name: Apollo Smyrna	Collection Date: 10/8/2014 7:10:00 PM
Lab ID: 1410922-002	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					(SW5030B)			
Methylcyclohexane	9.8	5.0		ug/L	197537	1	10/13/2014 13:14	NP
Methylene chloride	BRL	5.0		ug/L	197537	1	10/13/2014 13:14	NP
o-Xylene	6.1	5.0		ug/L	197537	1	10/13/2014 13:14	NP
Styrene	BRL	5.0		ug/L	197537	1	10/13/2014 13:14	NP
Tetrachloroethene	2100	500		ug/L	197537	100	10/13/2014 11:33	NP
Toluene	BRL	5.0		ug/L	197537	1	10/13/2014 13:14	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	197537	1	10/13/2014 13:14	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	197537	1	10/13/2014 13:14	NP
Trichloroethene	140	5.0		ug/L	197537	1	10/13/2014 13:14	NP
Trichlorofluoromethane	BRL	5.0		ug/L	197537	1	10/13/2014 13:14	NP
Vinyl chloride	BRL	2.0		ug/L	197537	1	10/13/2014 13:14	NP
Surr: 4-Bromofluorobenzene	85.4	66.2-120		%REC	197537	100	10/13/2014 11:33	NP
Surr: 4-Bromofluorobenzene	89.8	66.2-120		%REC	197537	1	10/13/2014 13:14	NP
Surr: Dibromofluoromethane	111	79.5-121		%REC	197537	100	10/13/2014 11:33	NP
Surr: Dibromofluoromethane	127	79.5-121	S	%REC	197537	1	10/13/2014 13:14	NP
Surr: Toluene-d8	95	77-117		%REC	197537	100	10/13/2014 11:33	NP
Surr: Toluene-d8	97.6	77-117		%REC	197537	1	10/13/2014 13:14	NP
Sulfide by SW9030B/9034					(SW9030B)			
Sulfide	BRL	2.00		mg/L	197735	1	10/15/2014 08:55	AB
ION SCAN SW9056A								
Chloride	51	2.0		mg/L	R277825	2	10/09/2014 23:18	YS
Nitrate	BRL	0.50		mg/L	R277825	2	10/09/2014 23:18	YS
Sulfate	BRL	2.0		mg/L	R277825	2	10/09/2014 23:18	YS
GC Analysis of Gaseous Samples SOP-RSK 175					(RSK175)			
Ethane	BRL	9		ug/L	197643	1	10/14/2014 15:24	JM
Ethylene	BRL	7		ug/L	197643	1	10/14/2014 15:24	JM
Methane	44	4		ug/L	197643	1	10/14/2014 15:24	JM
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	51.0	3.00		mg/L	R277889	1	10/15/2014 10:25	PF

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: EarthCon Consultants, Inc.	Client Sample ID: TRIP BLANK
Project Name: Apollo Smyrna	Collection Date: 10/9/2014
Lab ID: 1410922-003	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	197537	1	10/12/2014 10:39	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	197537	1	10/12/2014 10:39	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	197537	1	10/12/2014 10:39	NP
1,1-Dichloroethane	BRL	5.0		ug/L	197537	1	10/12/2014 10:39	NP
1,1-Dichloroethene	BRL	5.0		ug/L	197537	1	10/12/2014 10:39	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	197537	1	10/12/2014 10:39	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	197537	1	10/12/2014 10:39	NP
1,2-Dibromoethane	BRL	5.0		ug/L	197537	1	10/12/2014 10:39	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	197537	1	10/12/2014 10:39	NP
1,2-Dichloroethane	BRL	5.0		ug/L	197537	1	10/12/2014 10:39	NP
1,2-Dichloropropane	BRL	5.0		ug/L	197537	1	10/12/2014 10:39	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	197537	1	10/12/2014 10:39	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	197537	1	10/12/2014 10:39	NP
2-Butanone	BRL	50		ug/L	197537	1	10/12/2014 10:39	NP
2-Hexanone	BRL	10		ug/L	197537	1	10/12/2014 10:39	NP
4-Methyl-2-pentanone	BRL	10		ug/L	197537	1	10/12/2014 10:39	NP
Acetone	BRL	50		ug/L	197537	1	10/12/2014 10:39	NP
Benzene	BRL	5.0		ug/L	197537	1	10/12/2014 10:39	NP
Bromodichloromethane	BRL	5.0		ug/L	197537	1	10/12/2014 10:39	NP
Bromoform	BRL	5.0		ug/L	197537	1	10/12/2014 10:39	NP
Bromomethane	BRL	5.0		ug/L	197537	1	10/12/2014 10:39	NP
Carbon disulfide	BRL	5.0		ug/L	197537	1	10/12/2014 10:39	NP
Carbon tetrachloride	BRL	5.0		ug/L	197537	1	10/12/2014 10:39	NP
Chlorobenzene	BRL	5.0		ug/L	197537	1	10/12/2014 10:39	NP
Chloroethane	BRL	10		ug/L	197537	1	10/12/2014 10:39	NP
Chloroform	BRL	5.0		ug/L	197537	1	10/12/2014 10:39	NP
Chloromethane	BRL	10		ug/L	197537	1	10/12/2014 10:39	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	197537	1	10/12/2014 10:39	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	197537	1	10/12/2014 10:39	NP
Cyclohexane	BRL	5.0		ug/L	197537	1	10/12/2014 10:39	NP
Dibromochloromethane	BRL	5.0		ug/L	197537	1	10/12/2014 10:39	NP
Dichlorodifluoromethane	BRL	10		ug/L	197537	1	10/12/2014 10:39	NP
Ethylbenzene	BRL	5.0		ug/L	197537	1	10/12/2014 10:39	NP
Freon-113	BRL	10		ug/L	197537	1	10/12/2014 10:39	NP
Isopropylbenzene	BRL	5.0		ug/L	197537	1	10/12/2014 10:39	NP
m,p-Xylene	BRL	5.0		ug/L	197537	1	10/12/2014 10:39	NP
Methyl acetate	BRL	5.0		ug/L	197537	1	10/12/2014 10:39	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	197537	1	10/12/2014 10:39	NP
Methylcyclohexane	BRL	5.0		ug/L	197537	1	10/12/2014 10:39	NP
Methylene chloride	BRL	5.0		ug/L	197537	1	10/12/2014 10:39	NP
o-Xylene	BRL	5.0		ug/L	197537	1	10/12/2014 10:39	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
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- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: EarthCon Consultants, Inc.	Client Sample ID: TRIP BLANK
Project Name: Apollo Smyrna	Collection Date: 10/9/2014
Lab ID: 1410922-003	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	197537	1	10/12/2014 10:39	NP
Tetrachloroethene	BRL	5.0		ug/L	197537	1	10/12/2014 10:39	NP
Toluene	BRL	5.0		ug/L	197537	1	10/12/2014 10:39	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	197537	1	10/12/2014 10:39	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	197537	1	10/12/2014 10:39	NP
Trichloroethene	BRL	5.0		ug/L	197537	1	10/12/2014 10:39	NP
Trichlorofluoromethane	BRL	5.0		ug/L	197537	1	10/12/2014 10:39	NP
Vinyl chloride	BRL	2.0		ug/L	197537	1	10/12/2014 10:39	NP
Surr: 4-Bromofluorobenzene	86.7	66.2-120		%REC	197537	1	10/12/2014 10:39	NP
Surr: Dibromofluoromethane	110	79.5-121		%REC	197537	1	10/12/2014 10:39	NP
Surr: Toluene-d8	96	77-117		%REC	197537	1	10/12/2014 10:39	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 20-Oct-14

Client: EarthCon Consultants, Inc.	Client Sample ID: RINS 1
Project Name: Apollo Smyrna	Collection Date: 10/8/2014 7:45:00 PM
Lab ID: 1410922-004	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) SW9060A								
Organic Carbon, Total	1.51	1.00		mg/L	R277878	1	10/14/2014 19:08	JM
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	197537	1	10/13/2014 10:44	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	197537	1	10/13/2014 10:44	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	197537	1	10/13/2014 10:44	NP
1,1-Dichloroethane	BRL	5.0		ug/L	197537	1	10/13/2014 10:44	NP
1,1-Dichloroethene	BRL	5.0		ug/L	197537	1	10/13/2014 10:44	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	197537	1	10/13/2014 10:44	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	197537	1	10/13/2014 10:44	NP
1,2-Dibromoethane	BRL	5.0		ug/L	197537	1	10/13/2014 10:44	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	197537	1	10/13/2014 10:44	NP
1,2-Dichloroethane	BRL	5.0		ug/L	197537	1	10/13/2014 10:44	NP
1,2-Dichloropropane	BRL	5.0		ug/L	197537	1	10/13/2014 10:44	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	197537	1	10/13/2014 10:44	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	197537	1	10/13/2014 10:44	NP
2-Butanone	BRL	50		ug/L	197537	1	10/13/2014 10:44	NP
2-Hexanone	BRL	10		ug/L	197537	1	10/13/2014 10:44	NP
4-Methyl-2-pentanone	BRL	10		ug/L	197537	1	10/13/2014 10:44	NP
Acetone	BRL	50		ug/L	197537	1	10/13/2014 10:44	NP
Benzene	BRL	5.0		ug/L	197537	1	10/13/2014 10:44	NP
Bromodichloromethane	BRL	5.0		ug/L	197537	1	10/13/2014 10:44	NP
Bromoform	BRL	5.0		ug/L	197537	1	10/13/2014 10:44	NP
Bromomethane	BRL	5.0		ug/L	197537	1	10/13/2014 10:44	NP
Carbon disulfide	BRL	5.0		ug/L	197537	1	10/13/2014 10:44	NP
Carbon tetrachloride	BRL	5.0		ug/L	197537	1	10/13/2014 10:44	NP
Chlorobenzene	BRL	5.0		ug/L	197537	1	10/13/2014 10:44	NP
Chloroethane	BRL	10		ug/L	197537	1	10/13/2014 10:44	NP
Chloroform	BRL	5.0		ug/L	197537	1	10/13/2014 10:44	NP
Chloromethane	BRL	10		ug/L	197537	1	10/13/2014 10:44	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	197537	1	10/13/2014 10:44	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	197537	1	10/13/2014 10:44	NP
Cyclohexane	BRL	5.0		ug/L	197537	1	10/13/2014 10:44	NP
Dibromochloromethane	BRL	5.0		ug/L	197537	1	10/13/2014 10:44	NP
Dichlorodifluoromethane	BRL	10		ug/L	197537	1	10/13/2014 10:44	NP
Ethylbenzene	BRL	5.0		ug/L	197537	1	10/13/2014 10:44	NP
Freon-113	BRL	10		ug/L	197537	1	10/13/2014 10:44	NP
Isopropylbenzene	BRL	5.0		ug/L	197537	1	10/13/2014 10:44	NP
m,p-Xylene	BRL	5.0		ug/L	197537	1	10/13/2014 10:44	NP
Methyl acetate	BRL	5.0		ug/L	197537	1	10/13/2014 10:44	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	197537	1	10/13/2014 10:44	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: EarthCon Consultants, Inc.	Client Sample ID: RINS 1
Project Name: Apollo Smyrna	Collection Date: 10/8/2014 7:45:00 PM
Lab ID: 1410922-004	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					(SW5030B)			
Methylcyclohexane	BRL	5.0		ug/L	197537	1	10/13/2014 10:44	NP
Methylene chloride	BRL	5.0		ug/L	197537	1	10/13/2014 10:44	NP
o-Xylene	BRL	5.0		ug/L	197537	1	10/13/2014 10:44	NP
Styrene	BRL	5.0		ug/L	197537	1	10/13/2014 10:44	NP
Tetrachloroethene	BRL	5.0		ug/L	197537	1	10/13/2014 10:44	NP
Toluene	BRL	5.0		ug/L	197537	1	10/13/2014 10:44	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	197537	1	10/13/2014 10:44	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	197537	1	10/13/2014 10:44	NP
Trichloroethene	BRL	5.0		ug/L	197537	1	10/13/2014 10:44	NP
Trichlorofluoromethane	BRL	5.0		ug/L	197537	1	10/13/2014 10:44	NP
Vinyl chloride	BRL	2.0		ug/L	197537	1	10/13/2014 10:44	NP
Surr: 4-Bromofluorobenzene	87.2	66.2-120		%REC	197537	1	10/13/2014 10:44	NP
Surr: Dibromofluoromethane	106	79.5-121		%REC	197537	1	10/13/2014 10:44	NP
Surr: Toluene-d8	95.1	77-117		%REC	197537	1	10/13/2014 10:44	NP
Sulfide by SW9030B/9034					(SW9030B)			
Sulfide	BRL	2.00		mg/L	197735	1	10/15/2014 08:55	AB
ION SCAN SW9056A								
Chloride	BRL	1.0		mg/L	R277825	1	10/09/2014 23:32	YS
Nitrate	BRL	0.25		mg/L	R277825	1	10/09/2014 23:32	YS
Sulfate	BRL	1.0		mg/L	R277825	1	10/09/2014 23:32	YS
GC Analysis of Gaseous Samples SOP-RSK 175					(RSK175)			
Ethane	BRL	9		ug/L	197643	1	10/14/2014 15:05	JM
Ethylene	BRL	7		ug/L	197643	1	10/14/2014 15:05	JM
Methane	BRL	4		ug/L	197643	1	10/14/2014 15:05	JM
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	7.00	3.00		mg/L	R277889	1	10/15/2014 10:25	PF

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Earthcon

Work Order Number 1410922

Checklist completed by Jan B 10/9/14
Signature Date

Carrier name: FedEx UPS Courier Client US Mail Other

Shipping container/cooler in good condition? Yes No Not Present

Custody seals intact on shipping container/cooler? Yes No Not Present

Custody seals intact on sample bottles? Yes No Not Present

Container/Temp Blank temperature in compliance? (0°≤6°C)* Yes No

Cooler #1 3.2° Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler #5 _____ Cooler #6 _____

Chain of custody present? Yes No

Chain of custody signed when relinquished and received? Yes No

Chain of custody agrees with sample labels? Yes No

Samples in proper container/bottle? Yes No

Sample containers intact? Yes No

Sufficient sample volume for indicated test? Yes No

All samples received within holding time? Yes No

Was TAT marked on the COC? Yes No

Proceed with Standard TAT as per project history? Yes No Not Applicable

Water - VOA vials have zero headspace? No VOA vials submitted Yes No

Water - pH acceptable upon receipt? Yes No Not Applicable

Adjusted? _____ Checked by JB
Sample Condition: Good Other(Explain) _____

(For diffusive samples or AIHA lead) Is a known blank included? Yes No

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

Client: EarthCon Consultants, Inc.
 Project: Apollo Smyrna
 Lab Order: 1410922

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1410922-001A	MW3	10/8/2014 5:30:00PM	Groundwater	TCL VOLATILE ORGANICS		10/12/2014	10/12/2014
1410922-001A	MW3	10/8/2014 5:30:00PM	Groundwater	TCL VOLATILE ORGANICS		10/12/2014	10/13/2014
1410922-001B	MW3	10/8/2014 5:30:00PM	Groundwater	GC Analysis of Gaseous Samples		10/14/2014	10/14/2014
1410922-001C	MW3	10/8/2014 5:30:00PM	Groundwater	Total Organic Carbon (TOC)			10/14/2014
1410922-001D	MW3	10/8/2014 5:30:00PM	Groundwater	Sulfide by SW9030/9034		10/15/2014	10/15/2014
1410922-001E	MW3	10/8/2014 5:30:00PM	Groundwater	Alkalinity by SM2320B			10/15/2014
1410922-001F	MW3	10/8/2014 5:30:00PM	Groundwater	ION SCAN			10/09/2014
1410922-002A	MW4	10/8/2014 7:10:00PM	Groundwater	TCL VOLATILE ORGANICS		10/12/2014	10/13/2014
1410922-002B	MW4	10/8/2014 7:10:00PM	Groundwater	GC Analysis of Gaseous Samples		10/14/2014	10/14/2014
1410922-002C	MW4	10/8/2014 7:10:00PM	Groundwater	Total Organic Carbon (TOC)			10/14/2014
1410922-002D	MW4	10/8/2014 7:10:00PM	Groundwater	Sulfide by SW9030/9034		10/15/2014	10/15/2014
1410922-002E	MW4	10/8/2014 7:10:00PM	Groundwater	Alkalinity by SM2320B			10/15/2014
1410922-002F	MW4	10/8/2014 7:10:00PM	Groundwater	ION SCAN			10/09/2014
1410922-003A	TRIP BLANK	10/9/2014 12:00:00AM	Aqueous	TCL VOLATILE ORGANICS		10/12/2014	10/12/2014
1410922-004A	RINS 1	10/8/2014 7:45:00PM	Aqueous	TCL VOLATILE ORGANICS		10/12/2014	10/13/2014
1410922-004B	RINS 1	10/8/2014 7:45:00PM	Aqueous	GC Analysis of Gaseous Samples		10/14/2014	10/14/2014
1410922-004C	RINS 1	10/8/2014 7:45:00PM	Aqueous	Total Organic Carbon (TOC)			10/14/2014
1410922-004D	RINS 1	10/8/2014 7:45:00PM	Aqueous	Sulfide by SW9030/9034		10/15/2014	10/15/2014
1410922-004E	RINS 1	10/8/2014 7:45:00PM	Aqueous	Alkalinity by SM2320B			10/15/2014
1410922-004F	RINS 1	10/8/2014 7:45:00PM	Aqueous	ION SCAN			10/09/2014

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1410922

ANALYTICAL QC SUMMARY REPORT

BatchID: 197537

Sample ID: MB-197537	Client ID:	Units: ug/L	Prep Date: 10/12/2014	Run No: 277650							
Sample Type: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 197537	Analysis Date: 10/12/2014	Seq No: 5867012							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,2,4-Trichlorobenzene	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dibromoethane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,3-Dichlorobenzene	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
2-Butanone	BRL	50									
2-Hexanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	50									
Benzene	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Bromoform	BRL	5.0									
Bromomethane	BRL	5.0									
Carbon disulfide	BRL	5.0									
Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									
Chloroform	BRL	5.0									
Chloromethane	BRL	10									

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1410922

ANALYTICAL QC SUMMARY REPORT

BatchID: 197537

Sample ID: MB-197537	Client ID:	Units: ug/L	Prep Date: 10/12/2014	Run No: 277650							
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 197537	Analysis Date: 10/12/2014	Seq No: 5867012							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Freon-113	BRL	10									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	5.0									
Methyl acetate	BRL	5.0									
Methyl tert-butyl ether	BRL	5.0									
Methylcyclohexane	BRL	5.0									
Methylene chloride	BRL	5.0									
o-Xylene	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	2.0									
Surr: 4-Bromofluorobenzene	44.14	0	50.00		88.3	66.2	120				
Surr: Dibromofluoromethane	51.99	0	50.00		104	79.5	121				
Surr: Toluene-d8	47.15	0	50.00		94.3	77	117				

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1410922

ANALYTICAL QC SUMMARY REPORT

BatchID: 197537

Sample ID: LCS-197537	Client ID:	Units: ug/L	Prep Date: 10/12/2014	Run No: 277650							
SampleType: LCS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 197537	Analysis Date: 10/12/2014	Seq No: 5867011							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	52.67	5.0	50.00		105	63.1	140				
Benzene	52.98	5.0	50.00		106	74.2	129				
Chlorobenzene	52.83	5.0	50.00		106	70	129				
Toluene	52.52	5.0	50.00		105	74.2	129				
Trichloroethene	52.61	5.0	50.00		105	71.2	135				
Surr: 4-Bromofluorobenzene	45.81	0	50.00		91.6	66.2	120				
Surr: Dibromofluoromethane	48.74	0	50.00		97.5	79.5	121				
Surr: Toluene-d8	45.49	0	50.00		91.0	77	117				

Sample ID: 1410929-002AMS	Client ID:	Units: ug/L	Prep Date: 10/12/2014	Run No: 277650							
SampleType: MS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 197537	Analysis Date: 10/12/2014	Seq No: 5867021							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	61.85	5.0	50.00		124	60.2	159				
Benzene	60.32	5.0	50.00		121	70.2	138				
Chlorobenzene	60.70	5.0	50.00		121	70.1	133				
Toluene	60.50	5.0	50.00		121	70	139				
Trichloroethene	58.68	5.0	50.00		117	70.1	144				
Surr: 4-Bromofluorobenzene	44.10	0	50.00		88.2	66.2	120				
Surr: Dibromofluoromethane	51.79	0	50.00		104	79.5	121				
Surr: Toluene-d8	45.45	0	50.00		90.9	77	117				

Sample ID: 1410929-002AMSD	Client ID:	Units: ug/L	Prep Date: 10/12/2014	Run No: 277650							
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 197537	Analysis Date: 10/12/2014	Seq No: 5867023							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	62.17	5.0	50.00		124	60.2	159	61.85	0.516	19.2	
Benzene	61.10	5.0	50.00		122	70.2	138	60.32	1.28	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1410922

ANALYTICAL QC SUMMARY REPORT

BatchID: 197537

Sample ID: 1410929-002AMSD	Client ID:	Units: ug/L	Prep Date: 10/12/2014	Run No: 277650
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 197537	Analysis Date: 10/12/2014	Seq No: 5867023

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorobenzene	61.57	5.0	50.00		123	70.1	133	60.70	1.42	20	
Toluene	62.10	5.0	50.00		124	70	139	60.50	2.61	20	
Trichloroethene	59.79	5.0	50.00		120	70.1	144	58.68	1.87	20	
Surr: 4-Bromofluorobenzene	44.79	0	50.00		89.6	66.2	120	44.10	0	0	
Surr: Dibromofluoromethane	53.58	0	50.00		107	79.5	121	51.79	0	0	
Surr: Toluene-d8	46.91	0	50.00		93.8	77	117	45.45	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1410922

ANALYTICAL QC SUMMARY REPORT

BatchID: 197643

Sample ID: MB-197643	Client ID:	Units: ug/L	Prep Date: 10/14/2014	Run No: 277831							
SampleType: MBLK	TestCode: GC Analysis of Gaseous Samples SOP-RSK 175	BatchID: 197643	Analysis Date: 10/14/2014	Seq No: 5870907							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethane	BRL	9									
Ethylene	BRL	7									
Methane	BRL	4									

Sample ID: LCS-197643	Client ID:	Units: ug/L	Prep Date: 10/14/2014	Run No: 277831							
SampleType: LCS	TestCode: GC Analysis of Gaseous Samples SOP-RSK 175	BatchID: 197643	Analysis Date: 10/14/2014	Seq No: 5870908							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethane	92.51	9	200.0		46.3	41.6	115				
Ethylene	62.91	7	200.0		31.5	26.9	115				
Methane	105.3	4	200.0		52.6	45.2	115				

Sample ID: LCSD-197643	Client ID:	Units: ug/L	Prep Date: 10/14/2014	Run No: 277831							
SampleType: LCSD	TestCode: GC Analysis of Gaseous Samples SOP-RSK 175	BatchID: 197643	Analysis Date: 10/14/2014	Seq No: 5870909							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethane	93.00	9	200.0		46.5	41.6	115	92.51	0.527	20	
Ethylene	63.43	7	200.0		31.7	26.9	115	62.91	0.817	20	
Methane	104.7	4	200.0		52.4	45.2	115	105.3	0.531	20	

Sample ID: 1410922-004BMS	Client ID: RINS 1	Units: ug/L	Prep Date: 10/14/2014	Run No: 277831							
SampleType: MS	TestCode: GC Analysis of Gaseous Samples SOP-RSK 175	BatchID: 197643	Analysis Date: 10/14/2014	Seq No: 5870914							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethane	99.61	9	200.0		49.8	40.1	115				
Ethylene	68.06	7	200.0		34.0	24.5	115				
Methane	114.2	4	200.0		57.1	41.1	115				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1410922

ANALYTICAL QC SUMMARY REPORT

BatchID: 197643

Sample ID: 1410922-004BMSD	Client ID: RINS 1	Units: ug/L	Prep Date: 10/14/2014	Run No: 277831							
SampleType: MSD	TestCode: GC Analysis of Gaseous Samples SOP-RSK 175	BatchID: 197643	Analysis Date: 10/14/2014	Seq No: 5870917							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethane	101.6	9	200.0		50.8	40.1	115	99.61	1.95	20	
Ethylene	69.35	7	200.0		34.7	24.5	115	68.06	1.88	20	
Methane	116.9	4	200.0		58.4	41.1	115	114.2	2.33	20	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1410922

ANALYTICAL QC SUMMARY REPORT

BatchID: 197735

Sample ID: MB-197735	Client ID:	Units: mg/L	Prep Date: 10/15/2014	Run No: 277927							
SampleType: MBLK	TestCode: Sulfide by SW9030B/9034	BatchID: 197735	Analysis Date: 10/15/2014	Seq No: 5873371							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Sulfide BRL 2.00

Sample ID: LCS-197735	Client ID:	Units: mg/L	Prep Date: 10/15/2014	Run No: 277927							
SampleType: LCS	TestCode: Sulfide by SW9030B/9034	BatchID: 197735	Analysis Date: 10/15/2014	Seq No: 5873372							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Sulfide 368.0 2.00 368.0 100 40 120

Sample ID: 1410771-002DMS	Client ID:	Units: mg/L	Prep Date: 10/15/2014	Run No: 277927							
SampleType: MS	TestCode: Sulfide by SW9030B/9034	BatchID: 197735	Analysis Date: 10/15/2014	Seq No: 5873392							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Sulfide 18.20 2.00 18.40 98.9 76.7 120

Sample ID: 1410771-002DMSD	Client ID:	Units: mg/L	Prep Date: 10/15/2014	Run No: 277927							
SampleType: MSD	TestCode: Sulfide by SW9030B/9034	BatchID: 197735	Analysis Date: 10/15/2014	Seq No: 5873394							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Sulfide 17.80 2.00 18.40 96.7 76.7 120 18.20 2.22 20

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
	BRL Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
	J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
	Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1410922

ANALYTICAL QC SUMMARY REPORT

BatchID: R277825

Sample ID: MB-R277825	Client ID:	Units: mg/L	Prep Date:	Run No: 277825							
SampleType: MBLK	TestCode: ION SCAN SW9056A	BatchID: R277825	Analysis Date: 10/09/2014	Seq No: 5870722							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride	BRL	1.0									
Nitrate	BRL	0.25									
Sulfate	BRL	1.0									

Sample ID: LCS-R277825	Client ID:	Units: mg/L	Prep Date:	Run No: 277825							
SampleType: LCS	TestCode: ION SCAN SW9056A	BatchID: R277825	Analysis Date: 10/09/2014	Seq No: 5870721							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride	9.865	1.0	10.00		98.6	90	110				
Nitrate	4.784	0.25	5.000		95.7	90	110				
Sulfate	23.75	1.0	25.00		95.0	90	110				

Sample ID: 1410784-007CMS	Client ID:	Units: mg/L	Prep Date:	Run No: 277825							
SampleType: MS	TestCode: ION SCAN SW9056A	BatchID: R277825	Analysis Date: 10/09/2014	Seq No: 5870733							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride	16.15	1.0	10.00	6.011	101	90	110				
Nitrate	4.870	0.25	5.000		97.4	90	110				
Sulfate	24.01	1.0	25.00		96.0	90	110				

Sample ID: 1410784-007CMSD	Client ID:	Units: mg/L	Prep Date:	Run No: 277825							
SampleType: MSD	TestCode: ION SCAN SW9056A	BatchID: R277825	Analysis Date: 10/09/2014	Seq No: 5870892							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride	16.05	1.0	10.00	6.011	100	90	110	16.15	0.663	20	
Nitrate	5.897	0.25	5.000		118	90	110	4.870	19.1	20	S
Sulfate	27.14	1.0	25.00		109	90	110	24.01	12.3	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1410922

ANALYTICAL QC SUMMARY REPORT

BatchID: R277878

Sample ID: MB-R277878	Client ID:	Units: mg/L	Prep Date:	Run No: 277878							
SampleType: MBLK	TestCode: Total Organic Carbon (TOC) SW9060A	BatchID: R277878	Analysis Date: 10/14/2014	Seq No: 5872121							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Organic Carbon, Total

BRL 1.00

Sample ID: LCS-R277878	Client ID:	Units: mg/L	Prep Date:	Run No: 277878							
SampleType: LCS	TestCode: Total Organic Carbon (TOC) SW9060A	BatchID: R277878	Analysis Date: 10/14/2014	Seq No: 5872119							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Organic Carbon, Total

24.09 1.00 25.00 96.4 90 110

Sample ID: 1410789-001CMS	Client ID:	Units: mg/L	Prep Date:	Run No: 277878							
SampleType: MS	TestCode: Total Organic Carbon (TOC) SW9060A	BatchID: R277878	Analysis Date: 10/14/2014	Seq No: 5872149							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Organic Carbon, Total

26.59 1.00 25.00 1.537 100 80 120

Sample ID: 1410789-001CMSD	Client ID:	Units: mg/L	Prep Date:	Run No: 277878							
SampleType: MSD	TestCode: Total Organic Carbon (TOC) SW9060A	BatchID: R277878	Analysis Date: 10/14/2014	Seq No: 5872151							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Organic Carbon, Total

27.42 1.00 25.00 1.537 104 80 120 26.59 3.07 20

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
	BRL Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
	J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
	Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1410922

ANALYTICAL QC SUMMARY REPORT

BatchID: R277889

Sample ID: MB-R277889	Client ID:	Units: mg/L	Prep Date:	Run No: 277889							
SampleType: MBLK	TestCode: Alkalinity by SM2320B	BatchID: R277889	Analysis Date: 10/15/2014	Seq No: 5872274							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Alkalinity, Total (As CaCO3)

BRL 3.00

Sample ID: LCS-R277889	Client ID:	Units: mg/L	Prep Date:	Run No: 277889							
SampleType: LCS	TestCode: Alkalinity by SM2320B	BatchID: R277889	Analysis Date: 10/15/2014	Seq No: 5872275							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Alkalinity, Total (As CaCO3)

116.0 3.00 125.0 1.000 92.0 75 125

Sample ID: 1410922-001EDUP	Client ID: MW3	Units: mg/L	Prep Date:	Run No: 277889							
SampleType: DUP	TestCode: Alkalinity by SM2320B	BatchID: R277889	Analysis Date: 10/15/2014	Seq No: 5872280							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Alkalinity, Total (As CaCO3)

177.0 3.00 186.0 4.96 30

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
	BRL Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
	J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
	Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

January 27, 2015

Kristen Rivera
EarthCon Consultants, Inc.
1880 West Oak Parkway
Marietta GA 30062

TEL: (770) 973-2100
FAX: (770) 973-7395

RE: Apollo Smyrna

Dear Kristen Rivera:

Order No: 1501A83

Analytical Environmental Services, Inc. received 4 samples on 1/15/2015 11:20:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/14-06/30/15.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/15.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Chantelle Kanhai
Project Manager



ANALYTICAL ENVIRONMENTAL SERVICES, INC

3080 Presidential Drive, Atlanta GA 30340-3704

TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1501A83

Date: 1/14/15 Page 1 of 1

COMPANY: EALTHCON		ADDRESS: 1880 WEST OAK PKWY BLDG 100, STE 106 MARIETTA GA 30062				ANALYSIS REQUESTED						Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.		No # of Containers												
PHONE: 770-973-2100		FAX:				<table border="1"> <tr> <td>TOC</td> <td>Alkalinity</td> <td>Sulfide</td> <td>Total Sulfur</td> <td>MEE (GC)</td> <td>VOC</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>						TOC	Alkalinity		Sulfide	Total Sulfur	MEE (GC)	VOC								
TOC	Alkalinity	Sulfide	Total Sulfur	MEE (GC)	VOC																					
SAMPLED BY: P. Frix		SIGNATURE:				PRESERVATION (See codes)																				
#	SAMPLE ID	SAMPLED		Grab	Composite	Matrix (See codes)	PRESERVATION (See codes)						REMARKS	No # of Containers												
		DATE	TIME				SE	I	NH	I	H+	H+														
1	MW-9	1/14/15	1230	X		GW	1	1	1	1	2	2		8												
2	MW-13	↓	1445	X		GW	1	1	1	1	2	2		8												
3	MW-7	↓	1735	X		GW	1	1	1	1	2	2		8												
4	Trip Blank											2		2												
5																										
6																										
7																										
8																										
9																										
10																										
11																										
12																										
13																										
14																										

RELINQUISHED BY:	DATE/TIME: 1/14/15 2020	RECEIVED BY:	DATE/TIME: 1/15/2015 11:20 AM
1:		1:	
2: Samuel Woolf	1/15/2015 11:20	2:	1/15/14 11:20 AM
3:		3:	15

PROJECT INFORMATION		RECEIPT
PROJECT NAME: Apollo Symptom		Total # of Containers: 26
PROJECT #:		<input checked="" type="radio"/> Turnaround Time Request <input type="radio"/> Standard 5 Business Days <input type="radio"/> 2 Business Day Rush <input type="radio"/> Next Business Day Rush <input type="radio"/> Same Day Rush (auth req.) <input type="radio"/> Other _____
SITE ADDRESS:		
SEND REPORT TO: Kristen Rivera		STATE PROGRAM (if any): _____
INVOICE TO: (IF DIFFERENT FROM ABOVE)		E-mail? Y/N; Fax? Y/N
QUOTE #: _____ PO#: _____		DATA PACKAGE: I II III IV

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD

OUT VIA: _____

IN VIA: _____

CLIENT FedEx UPS MAIL COURIER

GREYHOUND OTHER _____

SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY. IF TURNAROUND TIME IS NOT INDICATED, AES WILL PROCEED WITH STANDARD TAT OF SAMPLES.

SAMPLES ARE DISPOSED 30 DAYS AFTER REPORT COMPLETION UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water

PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

Client: EarthCon Consultants, Inc.

Project: Apollo Smyrna

Lab ID: 1501A83

Case Narrative

TOC Analysis by Method 9060A:

Due to sample matrix, samples 1501A83-001 and -002 required a dilution during preparation and/or analysis resulting in elevated reporting limits.

Analytical Environmental Services, Inc

Date: 27-Jan-15

Client: EarthCon Consultants, Inc.	Client Sample ID: MW-9
Project Name: Apollo Smyrna	Collection Date: 1/14/2015 12:30:00 PM
Lab ID: 1501A83-001	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) SW9060A								
Organic Carbon, Total	BRL	5.00		mg/L	R283845	5	01/16/2015 18:37	YS
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	201828	1	01/19/2015 13:35	GC
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	201828	1	01/19/2015 13:35	GC
1,1,2-Trichloroethane	BRL	5.0		ug/L	201828	1	01/19/2015 13:35	GC
1,1-Dichloroethane	BRL	5.0		ug/L	201828	1	01/19/2015 13:35	GC
1,1-Dichloroethene	BRL	5.0		ug/L	201828	1	01/19/2015 13:35	GC
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	201828	1	01/19/2015 13:35	GC
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	201828	1	01/19/2015 13:35	GC
1,2-Dibromoethane	BRL	5.0		ug/L	201828	1	01/19/2015 13:35	GC
1,2-Dichlorobenzene	BRL	5.0		ug/L	201828	1	01/19/2015 13:35	GC
1,2-Dichloroethane	BRL	5.0		ug/L	201828	1	01/19/2015 13:35	GC
1,2-Dichloropropane	BRL	5.0		ug/L	201828	1	01/19/2015 13:35	GC
1,3-Dichlorobenzene	BRL	5.0		ug/L	201828	1	01/19/2015 13:35	GC
1,4-Dichlorobenzene	BRL	5.0		ug/L	201828	1	01/19/2015 13:35	GC
2-Butanone	BRL	50		ug/L	201828	1	01/19/2015 13:35	GC
2-Hexanone	BRL	10		ug/L	201828	1	01/19/2015 13:35	GC
4-Methyl-2-pentanone	BRL	10		ug/L	201828	1	01/19/2015 13:35	GC
Acetone	BRL	50		ug/L	201828	1	01/19/2015 13:35	GC
Benzene	BRL	5.0		ug/L	201828	1	01/19/2015 13:35	GC
Bromodichloromethane	BRL	5.0		ug/L	201828	1	01/19/2015 13:35	GC
Bromoform	BRL	5.0		ug/L	201828	1	01/19/2015 13:35	GC
Bromomethane	BRL	5.0		ug/L	201828	1	01/19/2015 13:35	GC
Carbon disulfide	BRL	5.0		ug/L	201828	1	01/19/2015 13:35	GC
Carbon tetrachloride	BRL	5.0		ug/L	201828	1	01/19/2015 13:35	GC
Chlorobenzene	BRL	5.0		ug/L	201828	1	01/19/2015 13:35	GC
Chloroethane	BRL	10		ug/L	201828	1	01/19/2015 13:35	GC
Chloroform	BRL	5.0		ug/L	201828	1	01/19/2015 13:35	GC
Chloromethane	BRL	10		ug/L	201828	1	01/19/2015 13:35	GC
cis-1,2-Dichloroethene	BRL	5.0		ug/L	201828	1	01/19/2015 13:35	GC
cis-1,3-Dichloropropene	BRL	5.0		ug/L	201828	1	01/19/2015 13:35	GC
Cyclohexane	BRL	5.0		ug/L	201828	1	01/19/2015 13:35	GC
Dibromochloromethane	BRL	5.0		ug/L	201828	1	01/19/2015 13:35	GC
Dichlorodifluoromethane	BRL	10		ug/L	201828	1	01/19/2015 13:35	GC
Ethylbenzene	BRL	5.0		ug/L	201828	1	01/19/2015 13:35	GC
Freon-113	BRL	10		ug/L	201828	1	01/19/2015 13:35	GC
Isopropylbenzene	BRL	5.0		ug/L	201828	1	01/19/2015 13:35	GC
m,p-Xylene	BRL	5.0		ug/L	201828	1	01/19/2015 13:35	GC
Methyl acetate	BRL	5.0		ug/L	201828	1	01/19/2015 13:35	GC
Methyl tert-butyl ether	BRL	5.0		ug/L	201828	1	01/19/2015 13:35	GC

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: EarthCon Consultants, Inc.	Client Sample ID: MW-9
Project Name: Apollo Smyrna	Collection Date: 1/14/2015 12:30:00 PM
Lab ID: 1501A83-001	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
Methylcyclohexane	BRL	5.0		ug/L	201828	1	01/19/2015 13:35	GC
Methylene chloride	BRL	10		ug/L	201828	1	01/19/2015 13:35	GC
o-Xylene	BRL	5.0		ug/L	201828	1	01/19/2015 13:35	GC
Styrene	BRL	5.0		ug/L	201828	1	01/19/2015 13:35	GC
Tetrachloroethene	BRL	5.0		ug/L	201828	1	01/19/2015 13:35	GC
Toluene	BRL	5.0		ug/L	201828	1	01/19/2015 13:35	GC
trans-1,2-Dichloroethene	BRL	5.0		ug/L	201828	1	01/19/2015 13:35	GC
trans-1,3-Dichloropropene	BRL	5.0		ug/L	201828	1	01/19/2015 13:35	GC
Trichloroethene	BRL	5.0		ug/L	201828	1	01/19/2015 13:35	GC
Trichlorofluoromethane	BRL	5.0		ug/L	201828	1	01/19/2015 13:35	GC
Vinyl chloride	BRL	2.0		ug/L	201828	1	01/19/2015 13:35	GC
Surr: 4-Bromofluorobenzene	93.7	70.6-123		%REC	201828	1	01/19/2015 13:35	GC
Surr: Dibromofluoromethane	103	78.7-124		%REC	201828	1	01/19/2015 13:35	GC
Surr: Toluene-d8	99.1	81.3-120		%REC	201828	1	01/19/2015 13:35	GC
Sulfide by SW9030B/9034 (SW9030B)								
Sulfide	BRL	2.00		mg/L	202011	1	01/21/2015 10:40	AB
ION SCAN SW9056A								
Chloride	7.2	1.0		mg/L	R283941	1	01/16/2015 02:58	JW
Nitrate	BRL	0.25		mg/L	R283941	1	01/16/2015 02:58	JW
Sulfate	19	1.0		mg/L	R283941	1	01/16/2015 02:58	JW
GC Analysis of Gaseous Samples SOP-RSK 175 (RSK175)								
Ethane	BRL	9		ug/L	201751	1	01/16/2015 13:32	JM
Ethylene	BRL	7		ug/L	201751	1	01/16/2015 13:32	JM
Methane	680	40		ug/L	201751	10	01/16/2015 13:58	JM
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	29.0	3.00		mg/L	R283805	1	01/16/2015 12:00	PF

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 27-Jan-15

Client: EarthCon Consultants, Inc.	Client Sample ID: MW-13
Project Name: Apollo Smyrna	Collection Date: 1/14/2015 2:45:00 PM
Lab ID: 1501A83-002	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) SW9060A								
Organic Carbon, Total	BRL	5.00		mg/L	R283845	5	01/16/2015 18:57	YS
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	201828	1	01/19/2015 14:00	GC
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	201828	1	01/19/2015 14:00	GC
1,1,2-Trichloroethane	BRL	5.0		ug/L	201828	1	01/19/2015 14:00	GC
1,1-Dichloroethane	BRL	5.0		ug/L	201828	1	01/19/2015 14:00	GC
1,1-Dichloroethene	BRL	5.0		ug/L	201828	1	01/19/2015 14:00	GC
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	201828	1	01/19/2015 14:00	GC
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	201828	1	01/19/2015 14:00	GC
1,2-Dibromoethane	BRL	5.0		ug/L	201828	1	01/19/2015 14:00	GC
1,2-Dichlorobenzene	BRL	5.0		ug/L	201828	1	01/19/2015 14:00	GC
1,2-Dichloroethane	BRL	5.0		ug/L	201828	1	01/19/2015 14:00	GC
1,2-Dichloropropane	BRL	5.0		ug/L	201828	1	01/19/2015 14:00	GC
1,3-Dichlorobenzene	BRL	5.0		ug/L	201828	1	01/19/2015 14:00	GC
1,4-Dichlorobenzene	BRL	5.0		ug/L	201828	1	01/19/2015 14:00	GC
2-Butanone	BRL	50		ug/L	201828	1	01/19/2015 14:00	GC
2-Hexanone	BRL	10		ug/L	201828	1	01/19/2015 14:00	GC
4-Methyl-2-pentanone	BRL	10		ug/L	201828	1	01/19/2015 14:00	GC
Acetone	BRL	50		ug/L	201828	1	01/19/2015 14:00	GC
Benzene	BRL	5.0		ug/L	201828	1	01/19/2015 14:00	GC
Bromodichloromethane	BRL	5.0		ug/L	201828	1	01/19/2015 14:00	GC
Bromoform	BRL	5.0		ug/L	201828	1	01/19/2015 14:00	GC
Bromomethane	BRL	5.0		ug/L	201828	1	01/19/2015 14:00	GC
Carbon disulfide	BRL	5.0		ug/L	201828	1	01/19/2015 14:00	GC
Carbon tetrachloride	BRL	5.0		ug/L	201828	1	01/19/2015 14:00	GC
Chlorobenzene	BRL	5.0		ug/L	201828	1	01/19/2015 14:00	GC
Chloroethane	BRL	10		ug/L	201828	1	01/19/2015 14:00	GC
Chloroform	BRL	5.0		ug/L	201828	1	01/19/2015 14:00	GC
Chloromethane	BRL	10		ug/L	201828	1	01/19/2015 14:00	GC
cis-1,2-Dichloroethene	BRL	5.0		ug/L	201828	1	01/19/2015 14:00	GC
cis-1,3-Dichloropropene	BRL	5.0		ug/L	201828	1	01/19/2015 14:00	GC
Cyclohexane	BRL	5.0		ug/L	201828	1	01/19/2015 14:00	GC
Dibromochloromethane	BRL	5.0		ug/L	201828	1	01/19/2015 14:00	GC
Dichlorodifluoromethane	BRL	10		ug/L	201828	1	01/19/2015 14:00	GC
Ethylbenzene	BRL	5.0		ug/L	201828	1	01/19/2015 14:00	GC
Freon-113	BRL	10		ug/L	201828	1	01/19/2015 14:00	GC
Isopropylbenzene	BRL	5.0		ug/L	201828	1	01/19/2015 14:00	GC
m,p-Xylene	BRL	5.0		ug/L	201828	1	01/19/2015 14:00	GC
Methyl acetate	BRL	5.0		ug/L	201828	1	01/19/2015 14:00	GC
Methyl tert-butyl ether	BRL	5.0		ug/L	201828	1	01/19/2015 14:00	GC

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: EarthCon Consultants, Inc.	Client Sample ID: MW-13
Project Name: Apollo Smyrna	Collection Date: 1/14/2015 2:45:00 PM
Lab ID: 1501A83-002	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
Methylcyclohexane	BRL	5.0		ug/L	201828	1	01/19/2015 14:00	GC
Methylene chloride	BRL	10		ug/L	201828	1	01/19/2015 14:00	GC
o-Xylene	BRL	5.0		ug/L	201828	1	01/19/2015 14:00	GC
Styrene	BRL	5.0		ug/L	201828	1	01/19/2015 14:00	GC
Tetrachloroethene	BRL	5.0		ug/L	201828	1	01/19/2015 14:00	GC
Toluene	BRL	5.0		ug/L	201828	1	01/19/2015 14:00	GC
trans-1,2-Dichloroethene	BRL	5.0		ug/L	201828	1	01/19/2015 14:00	GC
trans-1,3-Dichloropropene	BRL	5.0		ug/L	201828	1	01/19/2015 14:00	GC
Trichloroethene	BRL	5.0		ug/L	201828	1	01/19/2015 14:00	GC
Trichlorofluoromethane	BRL	5.0		ug/L	201828	1	01/19/2015 14:00	GC
Vinyl chloride	BRL	2.0		ug/L	201828	1	01/19/2015 14:00	GC
Surr: 4-Bromofluorobenzene	94.4	70.6-123		%REC	201828	1	01/19/2015 14:00	GC
Surr: Dibromofluoromethane	102	78.7-124		%REC	201828	1	01/19/2015 14:00	GC
Surr: Toluene-d8	99	81.3-120		%REC	201828	1	01/19/2015 14:00	GC
Sulfide by SW9030B/9034 (SW9030B)								
Sulfide	BRL	2.00		mg/L	202011	1	01/21/2015 10:40	AB
ION SCAN SW9056A								
Chloride	9.0	1.0		mg/L	R283941	1	01/16/2015 03:13	JW
Nitrate	BRL	0.25		mg/L	R283941	1	01/16/2015 03:13	JW
Sulfate	BRL	1.0		mg/L	R283941	1	01/16/2015 03:13	JW
GC Analysis of Gaseous Samples SOP-RSK 175 (RSK175)								
Ethane	220	9		ug/L	201751	1	01/16/2015 13:38	JM
Ethylene	BRL	7		ug/L	201751	1	01/16/2015 13:38	JM
Methane	4500	400		ug/L	201751	100	01/16/2015 14:03	JM
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	73.0	3.00		mg/L	R283805	1	01/16/2015 12:00	PF

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 27-Jan-15

Client: EarthCon Consultants, Inc.	Client Sample ID: MW-7
Project Name: Apollo Smyrna	Collection Date: 1/14/2015 5:35:00 PM
Lab ID: 1501A83-003	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) SW9060A								
Organic Carbon, Total	6.28	5.00		mg/L	R283845	5	01/16/2015 18:17	YS
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	201828	1	01/19/2015 14:24	GC
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	201828	1	01/19/2015 14:24	GC
1,1,2-Trichloroethane	BRL	5.0		ug/L	201828	1	01/19/2015 14:24	GC
1,1-Dichloroethane	BRL	5.0		ug/L	201828	1	01/19/2015 14:24	GC
1,1-Dichloroethene	BRL	5.0		ug/L	201828	1	01/19/2015 14:24	GC
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	201828	1	01/19/2015 14:24	GC
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	201828	1	01/19/2015 14:24	GC
1,2-Dibromoethane	BRL	5.0		ug/L	201828	1	01/19/2015 14:24	GC
1,2-Dichlorobenzene	BRL	5.0		ug/L	201828	1	01/19/2015 14:24	GC
1,2-Dichloroethane	BRL	5.0		ug/L	201828	1	01/19/2015 14:24	GC
1,2-Dichloropropane	BRL	5.0		ug/L	201828	1	01/19/2015 14:24	GC
1,3-Dichlorobenzene	BRL	5.0		ug/L	201828	1	01/19/2015 14:24	GC
1,4-Dichlorobenzene	BRL	5.0		ug/L	201828	1	01/19/2015 14:24	GC
2-Butanone	BRL	50		ug/L	201828	1	01/19/2015 14:24	GC
2-Hexanone	BRL	10		ug/L	201828	1	01/19/2015 14:24	GC
4-Methyl-2-pentanone	BRL	10		ug/L	201828	1	01/19/2015 14:24	GC
Acetone	BRL	50		ug/L	201828	1	01/19/2015 14:24	GC
Benzene	BRL	5.0		ug/L	201828	1	01/19/2015 14:24	GC
Bromodichloromethane	BRL	5.0		ug/L	201828	1	01/19/2015 14:24	GC
Bromoform	BRL	5.0		ug/L	201828	1	01/19/2015 14:24	GC
Bromomethane	BRL	5.0		ug/L	201828	1	01/19/2015 14:24	GC
Carbon disulfide	BRL	5.0		ug/L	201828	1	01/19/2015 14:24	GC
Carbon tetrachloride	BRL	5.0		ug/L	201828	1	01/19/2015 14:24	GC
Chlorobenzene	BRL	5.0		ug/L	201828	1	01/19/2015 14:24	GC
Chloroethane	BRL	10		ug/L	201828	1	01/19/2015 14:24	GC
Chloroform	BRL	5.0		ug/L	201828	1	01/19/2015 14:24	GC
Chloromethane	BRL	10		ug/L	201828	1	01/19/2015 14:24	GC
cis-1,2-Dichloroethene	250	50		ug/L	201828	10	01/19/2015 16:52	GC
cis-1,3-Dichloropropene	BRL	5.0		ug/L	201828	1	01/19/2015 14:24	GC
Cyclohexane	BRL	5.0		ug/L	201828	1	01/19/2015 14:24	GC
Dibromochloromethane	BRL	5.0		ug/L	201828	1	01/19/2015 14:24	GC
Dichlorodifluoromethane	BRL	10		ug/L	201828	1	01/19/2015 14:24	GC
Ethylbenzene	BRL	5.0		ug/L	201828	1	01/19/2015 14:24	GC
Freon-113	BRL	10		ug/L	201828	1	01/19/2015 14:24	GC
Isopropylbenzene	BRL	5.0		ug/L	201828	1	01/19/2015 14:24	GC
m,p-Xylene	BRL	5.0		ug/L	201828	1	01/19/2015 14:24	GC
Methyl acetate	BRL	5.0		ug/L	201828	1	01/19/2015 14:24	GC
Methyl tert-butyl ether	BRL	5.0		ug/L	201828	1	01/19/2015 14:24	GC

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: EarthCon Consultants, Inc.	Client Sample ID: MW-7
Project Name: Apollo Smyrna	Collection Date: 1/14/2015 5:35:00 PM
Lab ID: 1501A83-003	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
Methylcyclohexane	BRL	5.0		ug/L	201828	1	01/19/2015 14:24	GC
Methylene chloride	BRL	10		ug/L	201828	1	01/19/2015 14:24	GC
o-Xylene	BRL	5.0		ug/L	201828	1	01/19/2015 14:24	GC
Styrene	BRL	5.0		ug/L	201828	1	01/19/2015 14:24	GC
Tetrachloroethene	BRL	5.0		ug/L	201828	1	01/19/2015 14:24	GC
Toluene	5.0	5.0		ug/L	201828	1	01/19/2015 14:24	GC
trans-1,2-Dichloroethene	BRL	5.0		ug/L	201828	1	01/19/2015 14:24	GC
trans-1,3-Dichloropropene	BRL	5.0		ug/L	201828	1	01/19/2015 14:24	GC
Trichloroethene	BRL	5.0		ug/L	201828	1	01/19/2015 14:24	GC
Trichlorofluoromethane	BRL	5.0		ug/L	201828	1	01/19/2015 14:24	GC
Vinyl chloride	160	2.0		ug/L	201828	1	01/19/2015 14:24	GC
Surr: 4-Bromofluorobenzene	93	70.6-123		%REC	201828	10	01/19/2015 16:52	GC
Surr: 4-Bromofluorobenzene	94.8	70.6-123		%REC	201828	1	01/19/2015 14:24	GC
Surr: Dibromofluoromethane	101	78.7-124		%REC	201828	1	01/19/2015 14:24	GC
Surr: Dibromofluoromethane	104	78.7-124		%REC	201828	10	01/19/2015 16:52	GC
Surr: Toluene-d8	97.9	81.3-120		%REC	201828	10	01/19/2015 16:52	GC
Surr: Toluene-d8	98.2	81.3-120		%REC	201828	1	01/19/2015 14:24	GC
Sulfide by SW9030B/9034 (SW9030B)								
Sulfide	BRL	2.00		mg/L	202011	1	01/21/2015 10:40	AB
ION SCAN SW9056A								
Chloride	10	1.0		mg/L	R283941	1	01/16/2015 03:27	JW
Nitrate	BRL	0.25		mg/L	R283941	1	01/16/2015 03:27	JW
Sulfate	BRL	1.0		mg/L	R283941	1	01/16/2015 03:27	JW
GC Analysis of Gaseous Samples SOP-RSK 175 (RSK175)								
Ethane	60	9		ug/L	201751	1	01/16/2015 13:43	JM
Ethylene	140	7		ug/L	201751	1	01/16/2015 13:43	JM
Methane	3500	80		ug/L	201751	20	01/16/2015 14:08	JM
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	98.0	3.00		mg/L	R283805	1	01/16/2015 12:00	PF

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: EarthCon Consultants, Inc.	Client Sample ID: TRIP BLANK
Project Name: Apollo Smyrna	Collection Date: 1/15/2015
Lab ID: 1501A83-004	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	201828	1	01/19/2015 12:21	GC
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	201828	1	01/19/2015 12:21	GC
1,1,2-Trichloroethane	BRL	5.0		ug/L	201828	1	01/19/2015 12:21	GC
1,1-Dichloroethane	BRL	5.0		ug/L	201828	1	01/19/2015 12:21	GC
1,1-Dichloroethene	BRL	5.0		ug/L	201828	1	01/19/2015 12:21	GC
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	201828	1	01/19/2015 12:21	GC
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	201828	1	01/19/2015 12:21	GC
1,2-Dibromoethane	BRL	5.0		ug/L	201828	1	01/19/2015 12:21	GC
1,2-Dichlorobenzene	BRL	5.0		ug/L	201828	1	01/19/2015 12:21	GC
1,2-Dichloroethane	BRL	5.0		ug/L	201828	1	01/19/2015 12:21	GC
1,2-Dichloropropane	BRL	5.0		ug/L	201828	1	01/19/2015 12:21	GC
1,3-Dichlorobenzene	BRL	5.0		ug/L	201828	1	01/19/2015 12:21	GC
1,4-Dichlorobenzene	BRL	5.0		ug/L	201828	1	01/19/2015 12:21	GC
2-Butanone	BRL	50		ug/L	201828	1	01/19/2015 12:21	GC
2-Hexanone	BRL	10		ug/L	201828	1	01/19/2015 12:21	GC
4-Methyl-2-pentanone	BRL	10		ug/L	201828	1	01/19/2015 12:21	GC
Acetone	BRL	50		ug/L	201828	1	01/19/2015 12:21	GC
Benzene	BRL	5.0		ug/L	201828	1	01/19/2015 12:21	GC
Bromodichloromethane	BRL	5.0		ug/L	201828	1	01/19/2015 12:21	GC
Bromoform	BRL	5.0		ug/L	201828	1	01/19/2015 12:21	GC
Bromomethane	BRL	5.0		ug/L	201828	1	01/19/2015 12:21	GC
Carbon disulfide	BRL	5.0		ug/L	201828	1	01/19/2015 12:21	GC
Carbon tetrachloride	BRL	5.0		ug/L	201828	1	01/19/2015 12:21	GC
Chlorobenzene	BRL	5.0		ug/L	201828	1	01/19/2015 12:21	GC
Chloroethane	BRL	10		ug/L	201828	1	01/19/2015 12:21	GC
Chloroform	BRL	5.0		ug/L	201828	1	01/19/2015 12:21	GC
Chloromethane	BRL	10		ug/L	201828	1	01/19/2015 12:21	GC
cis-1,2-Dichloroethene	BRL	5.0		ug/L	201828	1	01/19/2015 12:21	GC
cis-1,3-Dichloropropene	BRL	5.0		ug/L	201828	1	01/19/2015 12:21	GC
Cyclohexane	BRL	5.0		ug/L	201828	1	01/19/2015 12:21	GC
Dibromochloromethane	BRL	5.0		ug/L	201828	1	01/19/2015 12:21	GC
Dichlorodifluoromethane	BRL	10		ug/L	201828	1	01/19/2015 12:21	GC
Ethylbenzene	BRL	5.0		ug/L	201828	1	01/19/2015 12:21	GC
Freon-113	BRL	10		ug/L	201828	1	01/19/2015 12:21	GC
Isopropylbenzene	BRL	5.0		ug/L	201828	1	01/19/2015 12:21	GC
m,p-Xylene	BRL	5.0		ug/L	201828	1	01/19/2015 12:21	GC
Methyl acetate	BRL	5.0		ug/L	201828	1	01/19/2015 12:21	GC
Methyl tert-butyl ether	BRL	5.0		ug/L	201828	1	01/19/2015 12:21	GC
Methylcyclohexane	BRL	5.0		ug/L	201828	1	01/19/2015 12:21	GC
Methylene chloride	BRL	10		ug/L	201828	1	01/19/2015 12:21	GC
o-Xylene	BRL	5.0		ug/L	201828	1	01/19/2015 12:21	GC

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: EarthCon Consultants, Inc.	Client Sample ID: TRIP BLANK
Project Name: Apollo Smyrna	Collection Date: 1/15/2015
Lab ID: 1501A83-004	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	201828	1	01/19/2015 12:21	GC
Tetrachloroethene	BRL	5.0		ug/L	201828	1	01/19/2015 12:21	GC
Toluene	BRL	5.0		ug/L	201828	1	01/19/2015 12:21	GC
trans-1,2-Dichloroethene	BRL	5.0		ug/L	201828	1	01/19/2015 12:21	GC
trans-1,3-Dichloropropene	BRL	5.0		ug/L	201828	1	01/19/2015 12:21	GC
Trichloroethene	BRL	5.0		ug/L	201828	1	01/19/2015 12:21	GC
Trichlorofluoromethane	BRL	5.0		ug/L	201828	1	01/19/2015 12:21	GC
Vinyl chloride	BRL	2.0		ug/L	201828	1	01/19/2015 12:21	GC
Surr: 4-Bromofluorobenzene	94.1	70.6-123		%REC	201828	1	01/19/2015 12:21	GC
Surr: Dibromofluoromethane	102	78.7-124		%REC	201828	1	01/19/2015 12:21	GC
Surr: Toluene-d8	98	81.3-120		%REC	201828	1	01/19/2015 12:21	GC

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client EarthCon

Work Order Number 1501A83

Checklist completed by M. J. Clark Signature Date 1/15/15

Carrier name: FedEx UPS Courier Client US Mail Other

Shipping container/cooler in good condition? Yes No Not Present

Custody seals intact on shipping container/cooler? Yes No Not Present

Custody seals intact on sample bottles? Yes No Not Present

Container/Temp Blank temperature in compliance? (0°≤6°C)* Yes No

Cooler #1 3A Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Chain of custody present? Yes No

Chain of custody signed when relinquished and received? Yes No

Chain of custody agrees with sample labels? Yes No

Samples in proper container/bottle? Yes No

Sample containers intact? Yes No

Sufficient sample volume for indicated test? Yes No

All samples received within holding time? Yes No

Was TAT marked on the COC? Yes No

Proceed with Standard TAT as per project history? Yes No Not Applicable

Water - VOA vials have zero headspace? No VOA vials submitted Yes No

Water - pH acceptable upon receipt? Yes No Not Applicable

Adjusted? _____ Checked by David

Sample Condition: Good Other(Explain) _____

(For diffusive samples or AIIA lead) Is a known blank included? Yes No

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

Client: EarthCon Consultants, Inc.
 Project Name: Apollo Smyrna
 Lab Order: 1501A83

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1501A83-001A	MW-9	1/14/2015 12:30:00PM	Groundwater	TCL VOLATILE ORGANICS		1/16/2015 12:38:00PM	01/19/2015
1501A83-001B	MW-9	1/14/2015 12:30:00PM	Groundwater	GC Analysis of Gaseous Samples		1/15/2015 12:52:41PM	01/16/2015
1501A83-001C	MW-9	1/14/2015 12:30:00PM	Groundwater	Total Organic Carbon (TOC)			01/16/2015
1501A83-001D	MW-9	1/14/2015 12:30:00PM	Groundwater	Sulfide by SW9030/9034		1/21/2015 10:40:00AM	01/21/2015
1501A83-001E	MW-9	1/14/2015 12:30:00PM	Groundwater	Alkalinity by SM2320B			01/16/2015
1501A83-001F	MW-9	1/14/2015 12:30:00PM	Groundwater	ION SCAN			01/16/2015
1501A83-002A	MW-13	1/14/2015 2:45:00PM	Groundwater	TCL VOLATILE ORGANICS		1/16/2015 12:38:00PM	01/19/2015
1501A83-002B	MW-13	1/14/2015 2:45:00PM	Groundwater	GC Analysis of Gaseous Samples		1/15/2015 12:52:41PM	01/16/2015
1501A83-002C	MW-13	1/14/2015 2:45:00PM	Groundwater	Total Organic Carbon (TOC)			01/16/2015
1501A83-002D	MW-13	1/14/2015 2:45:00PM	Groundwater	Sulfide by SW9030/9034		1/21/2015 10:40:00AM	01/21/2015
1501A83-002E	MW-13	1/14/2015 2:45:00PM	Groundwater	Alkalinity by SM2320B			01/16/2015
1501A83-002F	MW-13	1/14/2015 2:45:00PM	Groundwater	ION SCAN			01/16/2015
1501A83-003A	MW-7	1/14/2015 5:35:00PM	Groundwater	TCL VOLATILE ORGANICS		1/16/2015 12:38:00PM	01/19/2015
1501A83-003B	MW-7	1/14/2015 5:35:00PM	Groundwater	GC Analysis of Gaseous Samples		1/15/2015 12:52:41PM	01/16/2015
1501A83-003C	MW-7	1/14/2015 5:35:00PM	Groundwater	Total Organic Carbon (TOC)			01/16/2015
1501A83-003D	MW-7	1/14/2015 5:35:00PM	Groundwater	Sulfide by SW9030/9034		1/21/2015 10:40:00AM	01/21/2015
1501A83-003E	MW-7	1/14/2015 5:35:00PM	Groundwater	Alkalinity by SM2320B			01/16/2015
1501A83-003F	MW-7	1/14/2015 5:35:00PM	Groundwater	ION SCAN			01/16/2015
1501A83-004A	TRIP BLANK	1/15/2015 12:00:00AM	Aqueous	TCL VOLATILE ORGANICS		1/16/2015 12:38:00PM	01/19/2015

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1501A83

ANALYTICAL QC SUMMARY REPORT

BatchID: 201751

Sample ID: MB-201751	Client ID:	Units: ug/L	Prep Date: 01/15/2015	Run No: 283955							
SampleType: MBLK	TestCode: GC Analysis of Gaseous Samples SOP-RSK 175	BatchID: 201751	Analysis Date: 01/16/2015	Seq No: 6019659							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethane	BRL	9									
Ethylene	BRL	7									
Methane	BRL	4									

Sample ID: LCS-201751	Client ID:	Units: ug/L	Prep Date: 01/15/2015	Run No: 283955							
SampleType: LCS	TestCode: GC Analysis of Gaseous Samples SOP-RSK 175	BatchID: 201751	Analysis Date: 01/16/2015	Seq No: 6019660							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethane	100.4	9	200.0		50.2	41.2	115				
Ethylene	69.26	7	200.0		34.6	26.5	115				
Methane	110.0	4	200.0		55.0	45.1	115				

Sample ID: LCSD-201751	Client ID:	Units: ug/L	Prep Date: 01/15/2015	Run No: 283955							
SampleType: LCSD	TestCode: GC Analysis of Gaseous Samples SOP-RSK 175	BatchID: 201751	Analysis Date: 01/16/2015	Seq No: 6019661							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethane	101.1	9	200.0		50.5	41.2	115	100.4	0.629	20	
Ethylene	69.93	7	200.0		35.0	26.5	115	69.26	0.958	20	
Methane	111.8	4	200.0		55.9	45.1	115	110.0	1.63	20	

Sample ID: 1501A32-017BMS	Client ID:	Units: ug/L	Prep Date: 01/15/2015	Run No: 283955							
SampleType: MS	TestCode: GC Analysis of Gaseous Samples SOP-RSK 175	BatchID: 201751	Analysis Date: 01/16/2015	Seq No: 6019695							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethane	113.0	9	200.0		56.5	40.5	115				
Ethylene	76.43	7	200.0		38.2	25.1	115				
Methane	146.0	4	200.0		73.0	40.4	115				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
 Project Name: Apollo Smyrna
 Workorder: 1501A83

ANALYTICAL QC SUMMARY REPORT

BatchID: 201751

Sample ID: 1501A32-017BMSD	Client ID:	Units: ug/L	Prep Date: 01/15/2015	Run No: 283955							
SampleType: MSD	TestCode: GC Analysis of Gaseous Samples SOP-RSK 175	BatchID: 201751	Analysis Date: 01/16/2015	Seq No: 6019696							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethane	112.9	9	200.0		56.5	40.5	115	113.0	0.027	20	
Ethylene	76.74	7	200.0		38.4	25.1	115	76.43	0.406	20	
Methane	126.2	4	200.0		63.1	40.4	115	146.0	14.5	20	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1501A83

ANALYTICAL QC SUMMARY REPORT

BatchID: 201828

Sample ID: MB-201828	Client ID:	Units: ug/L	Prep Date: 01/16/2015	Run No: 283794							
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 201828	Analysis Date: 01/16/2015	Seq No: 6015637							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,2,4-Trichlorobenzene	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dibromoethane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,3-Dichlorobenzene	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
2-Butanone	BRL	50									
2-Hexanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	50									
Benzene	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Bromoform	BRL	5.0									
Bromomethane	BRL	5.0									
Carbon disulfide	BRL	5.0									
Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									
Chloroform	BRL	5.0									
Chloromethane	BRL	10									

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1501A83

ANALYTICAL QC SUMMARY REPORT

BatchID: 201828

Sample ID: MB-201828	Client ID:	Units: ug/L	Prep Date: 01/16/2015	Run No: 283794							
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 201828	Analysis Date: 01/16/2015	Seq No: 6015637							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Freon-113	BRL	10									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	5.0									
Methyl acetate	BRL	5.0									
Methyl tert-butyl ether	BRL	5.0									
Methylcyclohexane	BRL	5.0									
Methylene chloride	BRL	5.0									
o-Xylene	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	2.0									
Surr: 4-Bromofluorobenzene	48.03	0	50.00		96.1	70.6	123				
Surr: Dibromofluoromethane	50.56	0	50.00		101	78.7	124				
Surr: Toluene-d8	47.55	0	50.00		95.1	81.3	120				

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1501A83

ANALYTICAL QC SUMMARY REPORT

BatchID: 201828

Sample ID: LCS-201828	Client ID:	Units: ug/L	Prep Date: 01/16/2015	Run No: 283794							
SampleType: LCS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 201828	Analysis Date: 01/16/2015	Seq No: 6015638							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	55.59	5.0	50.00		111	64.2	137				
Benzene	51.68	5.0	50.00		103	72.8	128				
Chlorobenzene	50.48	5.0	50.00		101	72.3	126				
Toluene	53.18	5.0	50.00		106	74.9	127				
Trichloroethene	50.70	5.0	50.00		101	70.5	134				
Surr: 4-Bromofluorobenzene	48.22	0	50.00		96.4	70.6	123				
Surr: Dibromofluoromethane	48.49	0	50.00		97.0	78.7	124				
Surr: Toluene-d8	46.93	0	50.00		93.9	81.3	120				

Sample ID: 1501823-003AMS	Client ID:	Units: ug/L	Prep Date: 01/16/2015	Run No: 283794							
SampleType: MS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 201828	Analysis Date: 01/16/2015	Seq No: 6016738							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	70.82	5.0	50.00		142	60.5	156				
Benzene	61.26	5.0	50.00		123	70	135				
Chlorobenzene	55.91	5.0	50.00		112	70.5	132				
Toluene	62.75	5.0	50.00		126	70.5	137				
Trichloroethene	68.63	5.0	50.00	6.090	125	71.8	139				
Surr: 4-Bromofluorobenzene	46.36	0	50.00		92.7	70.6	123				
Surr: Dibromofluoromethane	49.90	0	50.00		99.8	78.7	124				
Surr: Toluene-d8	47.98	0	50.00		96.0	81.3	120				

Sample ID: 1501823-003AMSD	Client ID:	Units: ug/L	Prep Date: 01/16/2015	Run No: 283794							
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 201828	Analysis Date: 01/16/2015	Seq No: 6016739							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	59.70	5.0	50.00		119	60.5	156	70.82	17.0	20	
Benzene	53.41	5.0	50.00		107	70	135	61.26	13.7	20	

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1501A83

ANALYTICAL QC SUMMARY REPORT

BatchID: 201828

Sample ID: 1501823-003AMSD	Client ID:	Units: ug/L	Prep Date: 01/16/2015	Run No: 283794							
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 201828	Analysis Date: 01/16/2015	Seq No: 6016739							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chlorobenzene	48.55	5.0	50.00		97.1	70.5	132	55.91	14.1	20	
Toluene	55.13	5.0	50.00		110	70.5	137	62.75	12.9	20	
Trichloroethene	59.02	5.0	50.00	6.090	106	71.8	139	68.63	15.1	20	
Surr: 4-Bromofluorobenzene	45.28	0	50.00		90.6	70.6	123	46.36	0	0	
Surr: Dibromofluoromethane	48.12	0	50.00		96.2	78.7	124	49.90	0	0	
Surr: Toluene-d8	47.45	0	50.00		94.9	81.3	120	47.98	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1501A83

ANALYTICAL QC SUMMARY REPORT

BatchID: 202011

Sample ID: MB-202011	Client ID:	Units: mg/L	Prep Date: 01/21/2015	Run No: 284087							
SampleType: MBLK	TestCode: Sulfide by SW9030B/9034	BatchID: 202011	Analysis Date: 01/21/2015	Seq No: 6022771							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Sulfide BRL 2.00

Sample ID: LCS-202011	Client ID:	Units: mg/L	Prep Date: 01/21/2015	Run No: 284087							
SampleType: LCS	TestCode: Sulfide by SW9030B/9034	BatchID: 202011	Analysis Date: 01/21/2015	Seq No: 6022772							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Sulfide 336.0 2.00 336.0 100 40 120

Sample ID: 1501A83-001DMS	Client ID: MW-9	Units: mg/L	Prep Date: 01/21/2015	Run No: 284087							
SampleType: MS	TestCode: Sulfide by SW9030B/9034	BatchID: 202011	Analysis Date: 01/21/2015	Seq No: 6022790							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Sulfide 16.20 2.00 16.80 96.4 73.7 120

Sample ID: 1501A83-001DMSD	Client ID: MW-9	Units: mg/L	Prep Date: 01/21/2015	Run No: 284087							
SampleType: MSD	TestCode: Sulfide by SW9030B/9034	BatchID: 202011	Analysis Date: 01/21/2015	Seq No: 6022791							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Sulfide 16.60 2.00 16.80 98.8 73.7 120 16.20 2.44 20

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1501A83

ANALYTICAL QC SUMMARY REPORT

BatchID: R283805

Sample ID: MB-R283805	Client ID:	Units: mg/L	Prep Date:	Run No: 283805							
SampleType: MBLK	TestCode: Alkalinity by SM2320B	BatchID: R283805	Analysis Date: 01/16/2015	Seq No: 6015848							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Alkalinity, Total (As CaCO3)

BRL 3.00

Sample ID: LCS-R283805	Client ID:	Units: mg/L	Prep Date:	Run No: 283805							
SampleType: LCS	TestCode: Alkalinity by SM2320B	BatchID: R283805	Analysis Date: 01/16/2015	Seq No: 6015849							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Alkalinity, Total (As CaCO3)

125.0 3.00 125.0 100 75 125

Sample ID: 1501A83-001EDUP	Client ID: MW-9	Units: mg/L	Prep Date:	Run No: 283805							
SampleType: DUP	TestCode: Alkalinity by SM2320B	BatchID: R283805	Analysis Date: 01/16/2015	Seq No: 6015853							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Alkalinity, Total (As CaCO3)

30.00 3.00 29.00 3.39 30

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
	BRL Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
	J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
	Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1501A83

ANALYTICAL QC SUMMARY REPORT

BatchID: R283845

Sample ID: MB-R283845	Client ID:	Units: mg/L	Prep Date:	Run No: 283845							
SampleType: MBLK	TestCode: Total Organic Carbon (TOC) SW9060A	BatchID: R283845	Analysis Date: 01/16/2015	Seq No: 6016807							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Organic Carbon, Total

BRL 1.00

Sample ID: LCS-R283845	Client ID:	Units: mg/L	Prep Date:	Run No: 283845							
SampleType: LCS	TestCode: Total Organic Carbon (TOC) SW9060A	BatchID: R283845	Analysis Date: 01/16/2015	Seq No: 6016806							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Organic Carbon, Total

25.45 1.00 25.00 102 90 110

Sample ID: 1501A98-007CMS	Client ID:	Units: mg/L	Prep Date:	Run No: 283845							
SampleType: MS	TestCode: Total Organic Carbon (TOC) SW9060A	BatchID: R283845	Analysis Date: 01/16/2015	Seq No: 6016823							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Organic Carbon, Total

128.9 5.00 125.0 103 80 120

Sample ID: 1501A98-007CMSD	Client ID:	Units: mg/L	Prep Date:	Run No: 283845							
SampleType: MSD	TestCode: Total Organic Carbon (TOC) SW9060A	BatchID: R283845	Analysis Date: 01/16/2015	Seq No: 6016824							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Organic Carbon, Total

124.9 5.00 125.0 99.9 80 120 128.9 3.15 20

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
	BRL Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
	J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
	Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1501A83

ANALYTICAL QC SUMMARY REPORT

BatchID: R283941

Sample ID: MB-R283941	Client ID:	Units: mg/L	Prep Date:	Run No: 283941							
SampleType: MBLK	TestCode: ION SCAN SW9056A	BatchID: R283941	Analysis Date: 01/16/2015	Seq No: 6019104							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride
Nitrate
Sulfate

BRL
BRL
BRL

1.0
0.25
1.0

Sample ID: LCS-R283941	Client ID:	Units: mg/L	Prep Date:	Run No: 283941							
SampleType: LCS	TestCode: ION SCAN SW9056A	BatchID: R283941	Analysis Date: 01/16/2015	Seq No: 6019103							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride
Nitrate
Sulfate

10.38
5.115
27.33

1.0
0.25
1.0

10.00
5.000
25.00

104
102
109

90
90
90

110
110
110

Sample ID: 1501A80-001EMS	Client ID:	Units: mg/L	Prep Date:	Run No: 283941							
SampleType: MS	TestCode: ION SCAN SW9056A	BatchID: R283941	Analysis Date: 01/16/2015	Seq No: 6019106							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride
Nitrate
Sulfate

22.72
5.200
46.91

1.0
0.25
1.0

10.00
5.000
25.00

14.28
0.6976
23.14

84.4
90.1
95.1

90
90
90

110
110
110

S

Sample ID: 1501A80-001EMSD	Client ID:	Units: mg/L	Prep Date:	Run No: 283941							
SampleType: MSD	TestCode: ION SCAN SW9056A	BatchID: R283941	Analysis Date: 01/16/2015	Seq No: 6019107							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride
Nitrate
Sulfate

22.62
5.241
46.86

1.0
0.25
1.0

10.00
5.000
25.00

14.28
0.6976
23.14

83.4
90.9
94.9

90
90
90

110
110
110

22.72
5.200
46.91

0.427
0.789
0.109

20
20
20

S

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
	BRL Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
	J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
	Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	



January 27, 2015

Kristen Rivera
EarthCon Consultants, Inc.
1880 West Oak Parkway
Marietta GA 30062

TEL: (770) 973-2100
FAX: (770) 973-7395

RE: Apollo Smyrna

Dear Kristen Rivera:

Order No: 1501A98

Analytical Environmental Services, Inc. received 7 samples on 1/16/2015 7:30:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/14-06/30/15.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/15.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Chantelle Kanhai
Project Manager



ANALYTICAL ENVIRONMENTAL SERVICES, INC

3080 Presidential Drive, Atlanta GA 30340-3704

TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1501A98

Date: 1/15/15 Page 2 of 2

COMPANY: EARTHCON		ADDRESS: 1880 West Oak Pkwy Bldg 100, Ste 106 Marietta GA 30067			ANALYSIS REQUESTED								Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.		No # of Containers
PHONE: 770-973-2100		FAX:			TOC	Alkalinity	Sulfide	Iron	Iron	Nitrate	Nitrite	Nitrogen			
SAMPLED BY: Ray Felix, Krista Henry		SIGNATURE: <i>[Signature]</i>			PRESERVATION (See codes)								REMARKS		
#	SAMPLE ID	DATE	TIME	Grab	Composite	Matrix (See codes)	SE	I	NA	I	H	H			
1	MW-6	1-15-15	1135	X		GW	1	1	1	1	2	2			
2															
3															
4															
5															
6															
7															
8															
9															
10															
11															
12															
13															
14															
RELINQUISHED BY		DATE/TIME	RECEIVED BY		DATE/TIME	PROJECT INFORMATION								RECEIPT	
1: <i>[Signature]</i>		1-15-15 2:30	1: <i>[Signature]</i>		1/16/15 7:30	PROJECT NAME: Apollo Springs								Total # of Containers: 8	
2:			3:			PROJECT #:								<input checked="" type="radio"/> Turnaround Time Request <input type="radio"/> Standard 5 Business Days <input type="radio"/> 2 Business Day Rush <input type="radio"/> Next Business Day Rush <input type="radio"/> Same Day Rush (auth req.) <input type="radio"/> Other _____	
3:			3:			SITE ADDRESS:									
SPECIAL INSTRUCTIONS/COMMENTS:		SHIPMENT METHOD				INVOICE TO:								STATE PROGRAM (if any): _____	
Pls report MW-6 separate from remainder of data set.		OUT 1 1 VIA:				(IF DIFFERENT FROM ABOVE)								E-mail? Y/N; Fax? Y/N	
		IN <i>[Signature]</i> VIA:				SEND REPORT TO: Krista Henry								DATA PACKAGE: I II III IV	
		CLIENT FedEx UPS MAIL COURIER				QUOTE #: _____ PO#: _____									
		GREYHOUND OTHER _____													

SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY. IF TURNAROUND TIME IS NOT INDICATED, AES WILL PROCEED WITH STANDARD TAT OF SAMPLES. SAMPLES ARE DISPOSED 30 DAYS AFTER REPORT COMPLETION UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

Client: EarthCon Consultants, Inc.

Project: Apollo Smyrna

Lab ID: 1501A98

Case Narrative

TOC Analysis by Method 9060A:

Due to sample matrix, sample 1501A98-007 required a dilution during preparation and/or analysis resulting in elevated reporting limits.

Analytical Environmental Services, Inc

Date: 27-Jan-15

Client: EarthCon Consultants, Inc.	Client Sample ID: MW-1
Project Name: Apollo Smyrna	Collection Date: 1/15/2015 11:13:00 AM
Lab ID: 1501A98-001	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) SW9060A								
Organic Carbon, Total	20.2	5.00		mg/L	R283845	5	01/16/2015 19:18	YS
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	110	5.0		ug/L	201867	1	01/21/2015 02:43	GC
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	201867	1	01/21/2015 02:43	GC
1,1,2-Trichloroethane	BRL	5.0		ug/L	201867	1	01/21/2015 02:43	GC
1,1-Dichloroethane	570	250		ug/L	201867	50	01/20/2015 04:11	GC
1,1-Dichloroethene	19	5.0		ug/L	201867	1	01/21/2015 02:43	GC
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	201867	1	01/21/2015 02:43	GC
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	201867	1	01/21/2015 02:43	GC
1,2-Dibromoethane	BRL	5.0		ug/L	201867	1	01/21/2015 02:43	GC
1,2-Dichlorobenzene	BRL	5.0		ug/L	201867	1	01/21/2015 02:43	GC
1,2-Dichloroethane	BRL	5.0		ug/L	201867	1	01/21/2015 02:43	GC
1,2-Dichloropropane	BRL	5.0		ug/L	201867	1	01/21/2015 02:43	GC
1,3-Dichlorobenzene	BRL	5.0		ug/L	201867	1	01/21/2015 02:43	GC
1,4-Dichlorobenzene	BRL	5.0		ug/L	201867	1	01/21/2015 02:43	GC
2-Butanone	BRL	50		ug/L	201867	1	01/21/2015 02:43	GC
2-Hexanone	BRL	10		ug/L	201867	1	01/21/2015 02:43	GC
4-Methyl-2-pentanone	BRL	10		ug/L	201867	1	01/21/2015 02:43	GC
Acetone	4500	2500		ug/L	201867	50	01/20/2015 04:11	GC
Benzene	BRL	5.0		ug/L	201867	1	01/21/2015 02:43	GC
Bromodichloromethane	BRL	5.0		ug/L	201867	1	01/21/2015 02:43	GC
Bromoform	BRL	5.0		ug/L	201867	1	01/21/2015 02:43	GC
Bromomethane	BRL	5.0		ug/L	201867	1	01/21/2015 02:43	GC
Carbon disulfide	BRL	5.0		ug/L	201867	1	01/21/2015 02:43	GC
Carbon tetrachloride	BRL	5.0		ug/L	201867	1	01/21/2015 02:43	GC
Chlorobenzene	BRL	5.0		ug/L	201867	1	01/21/2015 02:43	GC
Chloroethane	57	10		ug/L	201867	1	01/21/2015 02:43	GC
Chloroform	BRL	5.0		ug/L	201867	1	01/21/2015 02:43	GC
Chloromethane	BRL	10		ug/L	201867	1	01/21/2015 02:43	GC
cis-1,2-Dichloroethene	190	100		ug/L	201867	50	01/20/2015 04:11	GC
cis-1,3-Dichloropropene	BRL	5.0		ug/L	201867	1	01/21/2015 02:43	GC
Cyclohexane	11	5.0		ug/L	201867	1	01/21/2015 02:43	GC
Dibromochloromethane	BRL	5.0		ug/L	201867	1	01/21/2015 02:43	GC
Dichlorodifluoromethane	BRL	10		ug/L	201867	1	01/21/2015 02:43	GC
Ethylbenzene	BRL	5.0		ug/L	201867	1	01/21/2015 02:43	GC
Freon-113	BRL	10		ug/L	201867	1	01/21/2015 02:43	GC
Isopropylbenzene	BRL	5.0		ug/L	201867	1	01/21/2015 02:43	GC
m,p-Xylene	BRL	5.0		ug/L	201867	1	01/21/2015 02:43	GC
Methyl acetate	BRL	5.0		ug/L	201867	1	01/21/2015 02:43	GC
Methyl tert-butyl ether	BRL	5.0		ug/L	201867	1	01/21/2015 02:43	GC

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: EarthCon Consultants, Inc.	Client Sample ID: MW-1
Project Name: Apollo Smyrna	Collection Date: 1/15/2015 11:13:00 AM
Lab ID: 1501A98-001	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
Methylcyclohexane	BRL	5.0		ug/L	201867	1	01/21/2015 02:43	GC
Methylene chloride	BRL	5.0		ug/L	201867	1	01/21/2015 02:43	GC
o-Xylene	BRL	5.0		ug/L	201867	1	01/21/2015 02:43	GC
Styrene	BRL	5.0		ug/L	201867	1	01/21/2015 02:43	GC
Tetrachloroethene	21	5.0		ug/L	201867	1	01/21/2015 02:43	GC
Toluene	55	5.0		ug/L	201867	1	01/21/2015 02:43	GC
trans-1,2-Dichloroethene	BRL	5.0		ug/L	201867	1	01/21/2015 02:43	GC
trans-1,3-Dichloropropene	BRL	5.0		ug/L	201867	1	01/21/2015 02:43	GC
Trichloroethene	100	5.0		ug/L	201867	1	01/21/2015 02:43	GC
Trichlorofluoromethane	BRL	5.0		ug/L	201867	1	01/21/2015 02:43	GC
Vinyl chloride	160	100		ug/L	201867	50	01/20/2015 04:11	GC
Surr: 4-Bromofluorobenzene	93.5	70.6-123		%REC	201867	50	01/20/2015 04:11	GC
Surr: 4-Bromofluorobenzene	94.9	70.6-123		%REC	201867	1	01/21/2015 02:43	GC
Surr: Dibromofluoromethane	108	78.7-124		%REC	201867	50	01/20/2015 04:11	GC
Surr: Dibromofluoromethane	106	78.7-124		%REC	201867	1	01/21/2015 02:43	GC
Surr: Toluene-d8	101	81.3-120		%REC	201867	50	01/20/2015 04:11	GC
Surr: Toluene-d8	101	81.3-120		%REC	201867	1	01/21/2015 02:43	GC
Sulfide by SW9030B/9034 (SW9030B)								
Sulfide	BRL	2.00		mg/L	202011	1	01/21/2015 10:40	AB
ION SCAN SW9056A								
Chloride	76	2.0		mg/L	R283956	2	01/16/2015 20:32	JW
Nitrate	BRL	0.25		mg/L	R283956	1	01/16/2015 14:49	JW
Sulfate	5.2	1.0		mg/L	R283956	1	01/16/2015 14:49	JW
GC Analysis of Gaseous Samples SOP-RSK 175 (RSK175)								
Ethane	BRL	9		ug/L	201798	1	01/16/2015 15:49	JM
Ethylene	55	7		ug/L	201798	1	01/16/2015 15:49	JM
Methane	37	4		ug/L	201798	1	01/16/2015 15:49	JM
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	132	3.00		mg/L	R283805	1	01/16/2015 12:00	PF

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 27-Jan-15

Client: EarthCon Consultants, Inc.	Client Sample ID: MW-3
Project Name: Apollo Smyrna	Collection Date: 1/15/2015 1:42:00 PM
Lab ID: 1501A98-002	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) SW9060A								
Organic Carbon, Total	24.8	5.00		mg/L	R283845	5	01/16/2015 19:38	YS
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	370	250		ug/L	201867	50	01/20/2015 03:46	GC
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	201867	1	01/21/2015 02:19	GC
1,1,2-Trichloroethane	BRL	5.0		ug/L	201867	1	01/21/2015 02:19	GC
1,1-Dichloroethane	760	250		ug/L	201867	50	01/20/2015 03:46	GC
1,1-Dichloroethene	390	250		ug/L	201867	50	01/20/2015 03:46	GC
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	201867	1	01/21/2015 02:19	GC
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	201867	1	01/21/2015 02:19	GC
1,2-Dibromoethane	BRL	5.0		ug/L	201867	1	01/21/2015 02:19	GC
1,2-Dichlorobenzene	BRL	5.0		ug/L	201867	1	01/21/2015 02:19	GC
1,2-Dichloroethane	BRL	5.0		ug/L	201867	1	01/21/2015 02:19	GC
1,2-Dichloropropane	BRL	5.0		ug/L	201867	1	01/21/2015 02:19	GC
1,3-Dichlorobenzene	BRL	5.0		ug/L	201867	1	01/21/2015 02:19	GC
1,4-Dichlorobenzene	BRL	5.0		ug/L	201867	1	01/21/2015 02:19	GC
2-Butanone	BRL	50		ug/L	201867	1	01/21/2015 02:19	GC
2-Hexanone	BRL	10		ug/L	201867	1	01/21/2015 02:19	GC
4-Methyl-2-pentanone	BRL	10		ug/L	201867	1	01/21/2015 02:19	GC
Acetone	18000	2500		ug/L	201867	50	01/20/2015 03:46	GC
Benzene	BRL	5.0		ug/L	201867	1	01/21/2015 02:19	GC
Bromodichloromethane	BRL	5.0		ug/L	201867	1	01/21/2015 02:19	GC
Bromoform	BRL	5.0		ug/L	201867	1	01/21/2015 02:19	GC
Bromomethane	BRL	5.0		ug/L	201867	1	01/21/2015 02:19	GC
Carbon disulfide	BRL	5.0		ug/L	201867	1	01/21/2015 02:19	GC
Carbon tetrachloride	BRL	5.0		ug/L	201867	1	01/21/2015 02:19	GC
Chlorobenzene	BRL	5.0		ug/L	201867	1	01/21/2015 02:19	GC
Chloroethane	290	250		ug/L	201867	50	01/20/2015 03:46	GC
Chloroform	BRL	5.0		ug/L	201867	1	01/21/2015 02:19	GC
Chloromethane	BRL	10		ug/L	201867	1	01/21/2015 02:19	GC
cis-1,2-Dichloroethene	550	250		ug/L	201867	50	01/20/2015 03:46	GC
cis-1,3-Dichloropropene	BRL	5.0		ug/L	201867	1	01/21/2015 02:19	GC
Cyclohexane	5.5	5.0		ug/L	201867	1	01/21/2015 02:19	GC
Dibromochloromethane	BRL	5.0		ug/L	201867	1	01/21/2015 02:19	GC
Dichlorodifluoromethane	BRL	10		ug/L	201867	1	01/21/2015 02:19	GC
Ethylbenzene	5.7	5.0		ug/L	201867	1	01/21/2015 02:19	GC
Freon-113	BRL	10		ug/L	201867	1	01/21/2015 02:19	GC
Isopropylbenzene	BRL	5.0		ug/L	201867	1	01/21/2015 02:19	GC
m,p-Xylene	5.6	5.0		ug/L	201867	1	01/21/2015 02:19	GC
Methyl acetate	BRL	5.0		ug/L	201867	1	01/21/2015 02:19	GC
Methyl tert-butyl ether	BRL	5.0		ug/L	201867	1	01/21/2015 02:19	GC

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: EarthCon Consultants, Inc.	Client Sample ID: MW-3
Project Name: Apollo Smyrna	Collection Date: 1/15/2015 1:42:00 PM
Lab ID: 1501A98-002	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
Methylcyclohexane	BRL	5.0		ug/L	201867	1	01/21/2015 02:19	GC
Methylene chloride	18	5.0		ug/L	201867	1	01/21/2015 02:19	GC
o-Xylene	BRL	5.0		ug/L	201867	1	01/21/2015 02:19	GC
Styrene	BRL	5.0		ug/L	201867	1	01/21/2015 02:19	GC
Tetrachloroethene	BRL	5.0		ug/L	201867	1	01/21/2015 02:19	GC
Toluene	180	5.0		ug/L	201867	1	01/21/2015 02:19	GC
trans-1,2-Dichloroethene	6.7	5.0		ug/L	201867	1	01/21/2015 02:19	GC
trans-1,3-Dichloropropene	BRL	5.0		ug/L	201867	1	01/21/2015 02:19	GC
Trichloroethene	BRL	5.0		ug/L	201867	1	01/21/2015 02:19	GC
Trichlorofluoromethane	BRL	5.0		ug/L	201867	1	01/21/2015 02:19	GC
Vinyl chloride	380	100		ug/L	201867	50	01/20/2015 03:46	GC
Surr: 4-Bromofluorobenzene	93.9	70.6-123		%REC	201867	50	01/20/2015 03:46	GC
Surr: 4-Bromofluorobenzene	93.5	70.6-123		%REC	201867	1	01/21/2015 02:19	GC
Surr: Dibromofluoromethane	106	78.7-124		%REC	201867	50	01/20/2015 03:46	GC
Surr: Dibromofluoromethane	112	78.7-124		%REC	201867	1	01/21/2015 02:19	GC
Surr: Toluene-d8	99.6	81.3-120		%REC	201867	50	01/20/2015 03:46	GC
Surr: Toluene-d8	77.2	81.3-120	S	%REC	201867	1	01/21/2015 02:19	GC
Sulfide by SW9030B/9034 (SW9030B)								
Sulfide	BRL	2.00		mg/L	202011	1	01/21/2015 10:40	AB
ION SCAN SW9056A								
Chloride	37	1.0		mg/L	R283956	1	01/16/2015 15:04	JW
Nitrate	BRL	0.25		mg/L	R283956	1	01/16/2015 15:04	JW
Sulfate	1.1	1.0		mg/L	R283956	1	01/16/2015 15:04	JW
GC Analysis of Gaseous Samples SOP-RSK 175 (RSK175)								
Ethane	94	9		ug/L	201798	1	01/16/2015 15:54	JM
Ethylene	120	7		ug/L	201798	1	01/16/2015 15:54	JM
Methane	1800	40		ug/L	201798	10	01/16/2015 16:34	JM
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	26.0	3.00		mg/L	R283805	1	01/16/2015 12:00	PF

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 27-Jan-15

Client: EarthCon Consultants, Inc.	Client Sample ID: MW-4
Project Name: Apollo Smyrna	Collection Date: 1/15/2015 5:30:00 PM
Lab ID: 1501A98-003	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) SW9060A								
Organic Carbon, Total	BRL	1.00		mg/L	R283845	1	01/16/2015 23:32	YS
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	2600	500		ug/L	201867	100	01/20/2015 16:50	GC
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	201867	1	01/20/2015 01:42	GC
1,1,2-Trichloroethane	BRL	5.0		ug/L	201867	1	01/20/2015 01:42	GC
1,1-Dichloroethane	83	5.0		ug/L	201867	1	01/20/2015 01:42	GC
1,1-Dichloroethene	36000	2500		ug/L	201867	500	01/20/2015 20:35	GC
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	201867	1	01/20/2015 01:42	GC
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	201867	1	01/20/2015 01:42	GC
1,2-Dibromoethane	BRL	5.0		ug/L	201867	1	01/20/2015 01:42	GC
1,2-Dichlorobenzene	6.3	5.0		ug/L	201867	1	01/20/2015 01:42	GC
1,2-Dichloroethane	BRL	5.0		ug/L	201867	1	01/20/2015 01:42	GC
1,2-Dichloropropane	BRL	5.0		ug/L	201867	1	01/20/2015 01:42	GC
1,3-Dichlorobenzene	BRL	5.0		ug/L	201867	1	01/20/2015 01:42	GC
1,4-Dichlorobenzene	BRL	5.0		ug/L	201867	1	01/20/2015 01:42	GC
2-Butanone	BRL	50		ug/L	201867	1	01/20/2015 01:42	GC
2-Hexanone	BRL	10		ug/L	201867	1	01/20/2015 01:42	GC
4-Methyl-2-pentanone	BRL	10		ug/L	201867	1	01/20/2015 01:42	GC
Acetone	BRL	50		ug/L	201867	1	01/20/2015 01:42	GC
Benzene	BRL	5.0		ug/L	201867	1	01/20/2015 01:42	GC
Bromodichloromethane	BRL	5.0		ug/L	201867	1	01/20/2015 01:42	GC
Bromoform	BRL	5.0		ug/L	201867	1	01/20/2015 01:42	GC
Bromomethane	BRL	5.0		ug/L	201867	1	01/20/2015 01:42	GC
Carbon disulfide	BRL	5.0		ug/L	201867	1	01/20/2015 01:42	GC
Carbon tetrachloride	BRL	5.0		ug/L	201867	1	01/20/2015 01:42	GC
Chlorobenzene	BRL	5.0		ug/L	201867	1	01/20/2015 01:42	GC
Chloroethane	BRL	10		ug/L	201867	1	01/20/2015 01:42	GC
Chloroform	BRL	5.0		ug/L	201867	1	01/20/2015 01:42	GC
Chloromethane	BRL	10		ug/L	201867	1	01/20/2015 01:42	GC
cis-1,2-Dichloroethene	37	5.0		ug/L	201867	1	01/20/2015 01:42	GC
cis-1,3-Dichloropropene	BRL	5.0		ug/L	201867	1	01/20/2015 01:42	GC
Cyclohexane	16	5.0		ug/L	201867	1	01/20/2015 01:42	GC
Dibromochloromethane	BRL	5.0		ug/L	201867	1	01/20/2015 01:42	GC
Dichlorodifluoromethane	BRL	10		ug/L	201867	1	01/20/2015 01:42	GC
Ethylbenzene	BRL	5.0		ug/L	201867	1	01/20/2015 01:42	GC
Freon-113	BRL	10		ug/L	201867	1	01/20/2015 01:42	GC
Isopropylbenzene	BRL	5.0		ug/L	201867	1	01/20/2015 01:42	GC
m,p-Xylene	BRL	5.0		ug/L	201867	1	01/20/2015 01:42	GC
Methyl acetate	BRL	5.0		ug/L	201867	1	01/20/2015 01:42	GC
Methyl tert-butyl ether	BRL	5.0		ug/L	201867	1	01/20/2015 01:42	GC

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: EarthCon Consultants, Inc.	Client Sample ID: MW-4
Project Name: Apollo Smyrna	Collection Date: 1/15/2015 5:30:00 PM
Lab ID: 1501A98-003	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
Methylcyclohexane	8.0	5.0		ug/L	201867	1	01/20/2015 01:42	GC
Methylene chloride	BRL	5.0		ug/L	201867	1	01/20/2015 01:42	GC
o-Xylene	BRL	5.0		ug/L	201867	1	01/20/2015 01:42	GC
Styrene	BRL	5.0		ug/L	201867	1	01/20/2015 01:42	GC
Tetrachloroethene	2600	500		ug/L	201867	100	01/20/2015 16:50	GC
Toluene	BRL	5.0		ug/L	201867	1	01/20/2015 01:42	GC
trans-1,2-Dichloroethene	BRL	5.0		ug/L	201867	1	01/20/2015 01:42	GC
trans-1,3-Dichloropropene	BRL	5.0		ug/L	201867	1	01/20/2015 01:42	GC
Trichloroethene	120	5.0		ug/L	201867	1	01/20/2015 01:42	GC
Trichlorofluoromethane	BRL	5.0		ug/L	201867	1	01/20/2015 01:42	GC
Vinyl chloride	BRL	2.0		ug/L	201867	1	01/20/2015 01:42	GC
Surr: 4-Bromofluorobenzene	94.2	70.6-123		%REC	201867	500	01/20/2015 20:35	GC
Surr: 4-Bromofluorobenzene	90.2	70.6-123		%REC	201867	1	01/20/2015 01:42	GC
Surr: 4-Bromofluorobenzene	92.7	70.6-123		%REC	201867	100	01/20/2015 16:50	GC
Surr: Dibromofluoromethane	109	78.7-124		%REC	201867	500	01/20/2015 20:35	GC
Surr: Dibromofluoromethane	104	78.7-124		%REC	201867	1	01/20/2015 01:42	GC
Surr: Dibromofluoromethane	106	78.7-124		%REC	201867	100	01/20/2015 16:50	GC
Surr: Toluene-d8	101	81.3-120		%REC	201867	500	01/20/2015 20:35	GC
Surr: Toluene-d8	99.3	81.3-120		%REC	201867	1	01/20/2015 01:42	GC
Surr: Toluene-d8	99.9	81.3-120		%REC	201867	100	01/20/2015 16:50	GC
Sulfide by SW9030B/9034 (SW9030B)								
Sulfide	BRL	2.00		mg/L	202011	1	01/21/2015 10:40	AB
ION SCAN SW9056A								
Chloride	56	2.0		mg/L	R283956	2	01/16/2015 20:46	JW
Nitrate	BRL	0.25		mg/L	R283956	1	01/16/2015 15:19	JW
Sulfate	BRL	1.0		mg/L	R283956	1	01/16/2015 15:19	JW
GC Analysis of Gaseous Samples SOP-RSK 175 (RSK175)								
Ethane	BRL	9		ug/L	201798	1	01/16/2015 15:59	JM
Ethylene	BRL	7		ug/L	201798	1	01/16/2015 15:59	JM
Methane	5	4		ug/L	201798	1	01/16/2015 15:59	JM
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	59.0	3.00		mg/L	R283805	1	01/16/2015 12:00	PF

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 27-Jan-15

Client: EarthCon Consultants, Inc.	Client Sample ID: MW-8
Project Name: Apollo Smyrna	Collection Date: 1/15/2015 4:30:00 PM
Lab ID: 1501A98-004	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) SW9060A								
Organic Carbon, Total	BRL	1.00		mg/L	R283845	1	01/16/2015 23:52	YS
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	6.7	5.0		ug/L	201867	1	01/20/2015 01:18	GC
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	201867	1	01/20/2015 01:18	GC
1,1,2-Trichloroethane	BRL	5.0		ug/L	201867	1	01/20/2015 01:18	GC
1,1-Dichloroethane	BRL	5.0		ug/L	201867	1	01/20/2015 01:18	GC
1,1-Dichloroethene	30	5.0		ug/L	201867	1	01/20/2015 01:18	GC
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	201867	1	01/20/2015 01:18	GC
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	201867	1	01/20/2015 01:18	GC
1,2-Dibromoethane	BRL	5.0		ug/L	201867	1	01/20/2015 01:18	GC
1,2-Dichlorobenzene	BRL	5.0		ug/L	201867	1	01/20/2015 01:18	GC
1,2-Dichloroethane	BRL	5.0		ug/L	201867	1	01/20/2015 01:18	GC
1,2-Dichloropropane	BRL	5.0		ug/L	201867	1	01/20/2015 01:18	GC
1,3-Dichlorobenzene	BRL	5.0		ug/L	201867	1	01/20/2015 01:18	GC
1,4-Dichlorobenzene	BRL	5.0		ug/L	201867	1	01/20/2015 01:18	GC
2-Butanone	BRL	50		ug/L	201867	1	01/20/2015 01:18	GC
2-Hexanone	BRL	10		ug/L	201867	1	01/20/2015 01:18	GC
4-Methyl-2-pentanone	BRL	10		ug/L	201867	1	01/20/2015 01:18	GC
Acetone	BRL	50		ug/L	201867	1	01/20/2015 01:18	GC
Benzene	BRL	5.0		ug/L	201867	1	01/20/2015 01:18	GC
Bromodichloromethane	BRL	5.0		ug/L	201867	1	01/20/2015 01:18	GC
Bromoform	BRL	5.0		ug/L	201867	1	01/20/2015 01:18	GC
Bromomethane	BRL	5.0		ug/L	201867	1	01/20/2015 01:18	GC
Carbon disulfide	BRL	5.0		ug/L	201867	1	01/20/2015 01:18	GC
Carbon tetrachloride	BRL	5.0		ug/L	201867	1	01/20/2015 01:18	GC
Chlorobenzene	BRL	5.0		ug/L	201867	1	01/20/2015 01:18	GC
Chloroethane	BRL	10		ug/L	201867	1	01/20/2015 01:18	GC
Chloroform	5.9	5.0		ug/L	201867	1	01/20/2015 01:18	GC
Chloromethane	BRL	10		ug/L	201867	1	01/20/2015 01:18	GC
cis-1,2-Dichloroethene	37	5.0		ug/L	201867	1	01/20/2015 01:18	GC
cis-1,3-Dichloropropene	BRL	5.0		ug/L	201867	1	01/20/2015 01:18	GC
Cyclohexane	BRL	5.0		ug/L	201867	1	01/20/2015 01:18	GC
Dibromochloromethane	BRL	5.0		ug/L	201867	1	01/20/2015 01:18	GC
Dichlorodifluoromethane	BRL	10		ug/L	201867	1	01/20/2015 01:18	GC
Ethylbenzene	BRL	5.0		ug/L	201867	1	01/20/2015 01:18	GC
Freon-113	BRL	10		ug/L	201867	1	01/20/2015 01:18	GC
Isopropylbenzene	BRL	5.0		ug/L	201867	1	01/20/2015 01:18	GC
m,p-Xylene	BRL	5.0		ug/L	201867	1	01/20/2015 01:18	GC
Methyl acetate	BRL	5.0		ug/L	201867	1	01/20/2015 01:18	GC
Methyl tert-butyl ether	BRL	5.0		ug/L	201867	1	01/20/2015 01:18	GC

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: EarthCon Consultants, Inc.	Client Sample ID: MW-8
Project Name: Apollo Smyrna	Collection Date: 1/15/2015 4:30:00 PM
Lab ID: 1501A98-004	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B			(SW5030B)					
Methylcyclohexane	BRL	5.0		ug/L	201867	1	01/20/2015 01:18	GC
Methylene chloride	BRL	5.0		ug/L	201867	1	01/20/2015 01:18	GC
o-Xylene	BRL	5.0		ug/L	201867	1	01/20/2015 01:18	GC
Styrene	BRL	5.0		ug/L	201867	1	01/20/2015 01:18	GC
Tetrachloroethene	520	50		ug/L	201867	10	01/20/2015 19:22	GC
Toluene	BRL	5.0		ug/L	201867	1	01/20/2015 01:18	GC
trans-1,2-Dichloroethene	BRL	5.0		ug/L	201867	1	01/20/2015 01:18	GC
trans-1,3-Dichloropropene	BRL	5.0		ug/L	201867	1	01/20/2015 01:18	GC
Trichloroethene	960	50		ug/L	201867	10	01/20/2015 19:22	GC
Trichlorofluoromethane	BRL	5.0		ug/L	201867	1	01/20/2015 01:18	GC
Vinyl chloride	BRL	2.0		ug/L	201867	1	01/20/2015 01:18	GC
Surr: 4-Bromofluorobenzene	90.8	70.6-123		%REC	201867	1	01/20/2015 01:18	GC
Surr: 4-Bromofluorobenzene	90.9	70.6-123		%REC	201867	10	01/20/2015 19:22	GC
Surr: Dibromofluoromethane	104	78.7-124		%REC	201867	1	01/20/2015 01:18	GC
Surr: Dibromofluoromethane	105	78.7-124		%REC	201867	10	01/20/2015 19:22	GC
Surr: Toluene-d8	99.1	81.3-120		%REC	201867	1	01/20/2015 01:18	GC
Surr: Toluene-d8	98.5	81.3-120		%REC	201867	10	01/20/2015 19:22	GC
Sulfide by SW9030B/9034			(SW9030B)					
Sulfide	BRL	2.00		mg/L	202011	1	01/21/2015 10:40	AB
ION SCAN SW9056A								
Chloride	4.3	1.0		mg/L	R283956	1	01/16/2015 15:34	JW
Nitrate	BRL	0.25		mg/L	R283956	1	01/16/2015 15:34	JW
Sulfate	BRL	1.0		mg/L	R283956	1	01/16/2015 15:34	JW
GC Analysis of Gaseous Samples SOP-RSK 175			(RSK175)					
Ethane	BRL	9		ug/L	201798	1	01/16/2015 16:05	JM
Ethylene	BRL	7		ug/L	201798	1	01/16/2015 16:05	JM
Methane	210	4		ug/L	201798	1	01/16/2015 16:05	JM
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	27.0	3.00		mg/L	R283805	1	01/16/2015 12:00	PF

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: EarthCon Consultants, Inc.	Client Sample ID: DUP 1
Project Name: Apollo Smyrna	Collection Date: 1/15/2015 12:00:00 PM
Lab ID: 1501A98-005	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	2100	500		ug/L	201867	100	01/20/2015 19:46	GC
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	201867	1	01/20/2015 02:07	GC
1,1,2-Trichloroethane	BRL	5.0		ug/L	201867	1	01/20/2015 02:07	GC
1,1-Dichloroethane	82	5.0		ug/L	201867	1	01/20/2015 02:07	GC
1,1-Dichloroethene	17000	500		ug/L	201867	100	01/20/2015 19:46	GC
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	201867	1	01/20/2015 02:07	GC
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	201867	1	01/20/2015 02:07	GC
1,2-Dibromoethane	BRL	5.0		ug/L	201867	1	01/20/2015 02:07	GC
1,2-Dichlorobenzene	6.0	5.0		ug/L	201867	1	01/20/2015 02:07	GC
1,2-Dichloroethane	BRL	5.0		ug/L	201867	1	01/20/2015 02:07	GC
1,2-Dichloropropane	BRL	5.0		ug/L	201867	1	01/20/2015 02:07	GC
1,3-Dichlorobenzene	BRL	5.0		ug/L	201867	1	01/20/2015 02:07	GC
1,4-Dichlorobenzene	BRL	5.0		ug/L	201867	1	01/20/2015 02:07	GC
2-Butanone	BRL	50		ug/L	201867	1	01/20/2015 02:07	GC
2-Hexanone	BRL	10		ug/L	201867	1	01/20/2015 02:07	GC
4-Methyl-2-pentanone	BRL	10		ug/L	201867	1	01/20/2015 02:07	GC
Acetone	BRL	50		ug/L	201867	1	01/20/2015 02:07	GC
Benzene	BRL	5.0		ug/L	201867	1	01/20/2015 02:07	GC
Bromodichloromethane	BRL	5.0		ug/L	201867	1	01/20/2015 02:07	GC
Bromoform	BRL	5.0		ug/L	201867	1	01/20/2015 02:07	GC
Bromomethane	BRL	5.0		ug/L	201867	1	01/20/2015 02:07	GC
Carbon disulfide	BRL	5.0		ug/L	201867	1	01/20/2015 02:07	GC
Carbon tetrachloride	BRL	5.0		ug/L	201867	1	01/20/2015 02:07	GC
Chlorobenzene	BRL	5.0		ug/L	201867	1	01/20/2015 02:07	GC
Chloroethane	BRL	10		ug/L	201867	1	01/20/2015 02:07	GC
Chloroform	BRL	5.0		ug/L	201867	1	01/20/2015 02:07	GC
Chloromethane	BRL	10		ug/L	201867	1	01/20/2015 02:07	GC
cis-1,2-Dichloroethene	37	5.0		ug/L	201867	1	01/20/2015 02:07	GC
cis-1,3-Dichloropropene	BRL	5.0		ug/L	201867	1	01/20/2015 02:07	GC
Cyclohexane	16	5.0		ug/L	201867	1	01/20/2015 02:07	GC
Dibromochloromethane	BRL	5.0		ug/L	201867	1	01/20/2015 02:07	GC
Dichlorodifluoromethane	BRL	10		ug/L	201867	1	01/20/2015 02:07	GC
Ethylbenzene	BRL	5.0		ug/L	201867	1	01/20/2015 02:07	GC
Freon-113	BRL	10		ug/L	201867	1	01/20/2015 02:07	GC
Isopropylbenzene	BRL	5.0		ug/L	201867	1	01/20/2015 02:07	GC
m,p-Xylene	BRL	5.0		ug/L	201867	1	01/20/2015 02:07	GC
Methyl acetate	BRL	5.0		ug/L	201867	1	01/20/2015 02:07	GC
Methyl tert-butyl ether	BRL	5.0		ug/L	201867	1	01/20/2015 02:07	GC
Methylcyclohexane	6.8	5.0		ug/L	201867	1	01/20/2015 02:07	GC
Methylene chloride	BRL	5.0		ug/L	201867	1	01/20/2015 02:07	GC
o-Xylene	BRL	5.0		ug/L	201867	1	01/20/2015 02:07	GC

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: EarthCon Consultants, Inc.	Client Sample ID: DUP 1
Project Name: Apollo Smyrna	Collection Date: 1/15/2015 12:00:00 PM
Lab ID: 1501A98-005	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	201867	1	01/20/2015 02:07	GC
Tetrachloroethene	2200	500		ug/L	201867	100	01/20/2015 19:46	GC
Toluene	BRL	5.0		ug/L	201867	1	01/20/2015 02:07	GC
trans-1,2-Dichloroethene	BRL	5.0		ug/L	201867	1	01/20/2015 02:07	GC
trans-1,3-Dichloropropene	BRL	5.0		ug/L	201867	1	01/20/2015 02:07	GC
Trichloroethene	120	5.0		ug/L	201867	1	01/20/2015 02:07	GC
Trichlorofluoromethane	BRL	5.0		ug/L	201867	1	01/20/2015 02:07	GC
Vinyl chloride	BRL	2.0		ug/L	201867	1	01/20/2015 02:07	GC
Surr: 4-Bromofluorobenzene	93.5	70.6-123		%REC	201867	1	01/20/2015 02:07	GC
Surr: 4-Bromofluorobenzene	93.6	70.6-123		%REC	201867	100	01/20/2015 19:46	GC
Surr: Dibromofluoromethane	103	78.7-124		%REC	201867	1	01/20/2015 02:07	GC
Surr: Dibromofluoromethane	106	78.7-124		%REC	201867	100	01/20/2015 19:46	GC
Surr: Toluene-d8	99.7	81.3-120		%REC	201867	1	01/20/2015 02:07	GC
Surr: Toluene-d8	99.6	81.3-120		%REC	201867	100	01/20/2015 19:46	GC

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
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- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: EarthCon Consultants, Inc.	Client Sample ID: TRIP BLANK
Project Name: Apollo Smyrna	Collection Date: 1/15/2015
Lab ID: 1501A98-006	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	201867	1	01/19/2015 19:58	GC
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	201867	1	01/19/2015 19:58	GC
1,1,2-Trichloroethane	BRL	5.0		ug/L	201867	1	01/19/2015 19:58	GC
1,1-Dichloroethane	BRL	5.0		ug/L	201867	1	01/19/2015 19:58	GC
1,1-Dichloroethene	BRL	5.0		ug/L	201867	1	01/19/2015 19:58	GC
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	201867	1	01/19/2015 19:58	GC
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	201867	1	01/19/2015 19:58	GC
1,2-Dibromoethane	BRL	5.0		ug/L	201867	1	01/19/2015 19:58	GC
1,2-Dichlorobenzene	BRL	5.0		ug/L	201867	1	01/19/2015 19:58	GC
1,2-Dichloroethane	BRL	5.0		ug/L	201867	1	01/19/2015 19:58	GC
1,2-Dichloropropane	BRL	5.0		ug/L	201867	1	01/19/2015 19:58	GC
1,3-Dichlorobenzene	BRL	5.0		ug/L	201867	1	01/19/2015 19:58	GC
1,4-Dichlorobenzene	BRL	5.0		ug/L	201867	1	01/19/2015 19:58	GC
2-Butanone	BRL	50		ug/L	201867	1	01/19/2015 19:58	GC
2-Hexanone	BRL	10		ug/L	201867	1	01/19/2015 19:58	GC
4-Methyl-2-pentanone	BRL	10		ug/L	201867	1	01/19/2015 19:58	GC
Acetone	BRL	50		ug/L	201867	1	01/19/2015 19:58	GC
Benzene	BRL	5.0		ug/L	201867	1	01/19/2015 19:58	GC
Bromodichloromethane	BRL	5.0		ug/L	201867	1	01/19/2015 19:58	GC
Bromoform	BRL	5.0		ug/L	201867	1	01/19/2015 19:58	GC
Bromomethane	BRL	5.0		ug/L	201867	1	01/19/2015 19:58	GC
Carbon disulfide	BRL	5.0		ug/L	201867	1	01/19/2015 19:58	GC
Carbon tetrachloride	BRL	5.0		ug/L	201867	1	01/19/2015 19:58	GC
Chlorobenzene	BRL	5.0		ug/L	201867	1	01/19/2015 19:58	GC
Chloroethane	BRL	10		ug/L	201867	1	01/19/2015 19:58	GC
Chloroform	BRL	5.0		ug/L	201867	1	01/19/2015 19:58	GC
Chloromethane	BRL	10		ug/L	201867	1	01/19/2015 19:58	GC
cis-1,2-Dichloroethene	BRL	5.0		ug/L	201867	1	01/19/2015 19:58	GC
cis-1,3-Dichloropropene	BRL	5.0		ug/L	201867	1	01/19/2015 19:58	GC
Cyclohexane	BRL	5.0		ug/L	201867	1	01/19/2015 19:58	GC
Dibromochloromethane	BRL	5.0		ug/L	201867	1	01/19/2015 19:58	GC
Dichlorodifluoromethane	BRL	10		ug/L	201867	1	01/19/2015 19:58	GC
Ethylbenzene	BRL	5.0		ug/L	201867	1	01/19/2015 19:58	GC
Freon-113	BRL	10		ug/L	201867	1	01/19/2015 19:58	GC
Isopropylbenzene	BRL	5.0		ug/L	201867	1	01/19/2015 19:58	GC
m,p-Xylene	BRL	5.0		ug/L	201867	1	01/19/2015 19:58	GC
Methyl acetate	BRL	5.0		ug/L	201867	1	01/19/2015 19:58	GC
Methyl tert-butyl ether	BRL	5.0		ug/L	201867	1	01/19/2015 19:58	GC
Methylcyclohexane	BRL	5.0		ug/L	201867	1	01/19/2015 19:58	GC
Methylene chloride	BRL	5.0		ug/L	201867	1	01/19/2015 19:58	GC
o-Xylene	BRL	5.0		ug/L	201867	1	01/19/2015 19:58	GC

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: EarthCon Consultants, Inc.	Client Sample ID: TRIP BLANK
Project Name: Apollo Smyrna	Collection Date: 1/15/2015
Lab ID: 1501A98-006	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	201867	1	01/19/2015 19:58	GC
Tetrachloroethene	BRL	5.0		ug/L	201867	1	01/19/2015 19:58	GC
Toluene	BRL	5.0		ug/L	201867	1	01/19/2015 19:58	GC
trans-1,2-Dichloroethene	BRL	5.0		ug/L	201867	1	01/19/2015 19:58	GC
trans-1,3-Dichloropropene	BRL	5.0		ug/L	201867	1	01/19/2015 19:58	GC
Trichloroethene	BRL	5.0		ug/L	201867	1	01/19/2015 19:58	GC
Trichlorofluoromethane	BRL	5.0		ug/L	201867	1	01/19/2015 19:58	GC
Vinyl chloride	BRL	2.0		ug/L	201867	1	01/19/2015 19:58	GC
Surr: 4-Bromofluorobenzene	94	70.6-123		%REC	201867	1	01/19/2015 19:58	GC
Surr: Dibromofluoromethane	104	78.7-124		%REC	201867	1	01/19/2015 19:58	GC
Surr: Toluene-d8	99.4	81.3-120		%REC	201867	1	01/19/2015 19:58	GC

Qualifiers:

- * Value exceeds maximum contaminant level
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- E Estimated (value above quantitation range)
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Analytical Environmental Services, Inc

Date: 27-Jan-15

Client: EarthCon Consultants, Inc.	Client Sample ID: MW-6
Project Name: Apollo Smyrna	Collection Date: 1/15/2015 11:35:00 AM
Lab ID: 1501A98-007	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) SW9060A								
Organic Carbon, Total	BRL	5.00		mg/L	R283845	5	01/16/2015 20:37	YS
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	201867	1	01/21/2015 14:48	GC
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	201867	1	01/21/2015 14:48	GC
1,1,2-Trichloroethane	BRL	5.0		ug/L	201867	1	01/21/2015 14:48	GC
1,1-Dichloroethane	14	5.0		ug/L	201867	1	01/21/2015 14:48	GC
1,1-Dichloroethene	170	5.0		ug/L	201867	1	01/21/2015 14:48	GC
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	201867	1	01/21/2015 14:48	GC
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	201867	1	01/21/2015 14:48	GC
1,2-Dibromoethane	BRL	5.0		ug/L	201867	1	01/21/2015 14:48	GC
1,2-Dichlorobenzene	BRL	5.0		ug/L	201867	1	01/21/2015 14:48	GC
1,2-Dichloroethane	BRL	5.0		ug/L	201867	1	01/21/2015 14:48	GC
1,2-Dichloropropane	BRL	5.0		ug/L	201867	1	01/21/2015 14:48	GC
1,3-Dichlorobenzene	BRL	5.0		ug/L	201867	1	01/21/2015 14:48	GC
1,4-Dichlorobenzene	BRL	5.0		ug/L	201867	1	01/21/2015 14:48	GC
2-Butanone	BRL	50		ug/L	201867	1	01/21/2015 14:48	GC
2-Hexanone	BRL	10		ug/L	201867	1	01/21/2015 14:48	GC
4-Methyl-2-pentanone	BRL	10		ug/L	201867	1	01/21/2015 14:48	GC
Acetone	BRL	50		ug/L	201867	1	01/21/2015 14:48	GC
Benzene	BRL	5.0		ug/L	201867	1	01/21/2015 14:48	GC
Bromodichloromethane	BRL	5.0		ug/L	201867	1	01/21/2015 14:48	GC
Bromoform	BRL	5.0		ug/L	201867	1	01/21/2015 14:48	GC
Bromomethane	BRL	5.0		ug/L	201867	1	01/21/2015 14:48	GC
Carbon disulfide	BRL	5.0		ug/L	201867	1	01/21/2015 14:48	GC
Carbon tetrachloride	BRL	5.0		ug/L	201867	1	01/21/2015 14:48	GC
Chlorobenzene	BRL	5.0		ug/L	201867	1	01/21/2015 14:48	GC
Chloroethane	BRL	10		ug/L	201867	1	01/21/2015 14:48	GC
Chloroform	BRL	5.0		ug/L	201867	1	01/21/2015 14:48	GC
Chloromethane	BRL	10		ug/L	201867	1	01/21/2015 14:48	GC
cis-1,2-Dichloroethene	6.4	5.0		ug/L	201867	1	01/21/2015 14:48	GC
cis-1,3-Dichloropropene	BRL	5.0		ug/L	201867	1	01/21/2015 14:48	GC
Cyclohexane	BRL	5.0		ug/L	201867	1	01/21/2015 14:48	GC
Dibromochloromethane	BRL	5.0		ug/L	201867	1	01/21/2015 14:48	GC
Dichlorodifluoromethane	BRL	10		ug/L	201867	1	01/21/2015 14:48	GC
Ethylbenzene	BRL	5.0		ug/L	201867	1	01/21/2015 14:48	GC
Freon-113	BRL	10		ug/L	201867	1	01/21/2015 14:48	GC
Isopropylbenzene	BRL	5.0		ug/L	201867	1	01/21/2015 14:48	GC
m,p-Xylene	BRL	5.0		ug/L	201867	1	01/21/2015 14:48	GC
Methyl acetate	BRL	5.0		ug/L	201867	1	01/21/2015 14:48	GC
Methyl tert-butyl ether	BRL	5.0		ug/L	201867	1	01/21/2015 14:48	GC

Qualifiers:

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- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: EarthCon Consultants, Inc.	Client Sample ID: MW-6
Project Name: Apollo Smyrna	Collection Date: 1/15/2015 11:35:00 AM
Lab ID: 1501A98-007	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
Methylcyclohexane	BRL	5.0		ug/L	201867	1	01/21/2015 14:48	GC
Methylene chloride	BRL	5.0		ug/L	201867	1	01/21/2015 14:48	GC
o-Xylene	BRL	5.0		ug/L	201867	1	01/21/2015 14:48	GC
Styrene	BRL	5.0		ug/L	201867	1	01/21/2015 14:48	GC
Tetrachloroethene	10	5.0		ug/L	201867	1	01/21/2015 14:48	GC
Toluene	BRL	5.0		ug/L	201867	1	01/21/2015 14:48	GC
trans-1,2-Dichloroethene	BRL	5.0		ug/L	201867	1	01/21/2015 14:48	GC
trans-1,3-Dichloropropene	BRL	5.0		ug/L	201867	1	01/21/2015 14:48	GC
Trichloroethene	5.2	5.0		ug/L	201867	1	01/21/2015 14:48	GC
Trichlorofluoromethane	BRL	5.0		ug/L	201867	1	01/21/2015 14:48	GC
Vinyl chloride	32	2.0		ug/L	201867	1	01/21/2015 14:48	GC
Surr: 4-Bromofluorobenzene	91.1	70.6-123		%REC	201867	1	01/21/2015 14:48	GC
Surr: Dibromofluoromethane	106	78.7-124		%REC	201867	1	01/21/2015 14:48	GC
Surr: Toluene-d8	98.8	81.3-120		%REC	201867	1	01/21/2015 14:48	GC
Sulfide by SW9030B/9034 (SW9030B)								
Sulfide	BRL	2.00		mg/L	202011	1	01/21/2015 10:40	AB
ION SCAN SW9056A								
Chloride	6.3	1.0		mg/L	R283956	1	01/16/2015 15:48	JW
Nitrate	BRL	0.25		mg/L	R283956	1	01/16/2015 15:48	JW
Sulfate	BRL	1.0		mg/L	R283956	1	01/16/2015 15:48	JW
GC Analysis of Gaseous Samples SOP-RSK 175 (RSK175)								
Ethane	13	9		ug/L	201798	1	01/16/2015 16:10	JM
Ethylene	BRL	7		ug/L	201798	1	01/16/2015 16:10	JM
Methane	1700	40		ug/L	201798	10	01/16/2015 16:39	JM
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	63.0	3.00		mg/L	R283805	1	01/16/2015 12:00	PF

Qualifiers:

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- Narr See case narrative
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Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Fartheon

Work Order Number 1501498

Checklist completed by Jam B Signature Date 11/6/15

Carrier name: FedEx ___ UPS ___ Courier ___ Client US Mail ___ Other ___

Shipping container/cooler in good condition? Yes No ___ Not Present ___

Custody seals intact on shipping container/cooler? Yes ___ No ___ Not Present

Custody seals intact on sample bottles? Yes ___ No ___ Not Present

Container/Temp Blank temperature in compliance? (0°≤6°C)* Yes No ___

Cooler #1 3.1' Cooler #2 ___ Cooler #3 ___ Cooler #4 ___ Cooler#5 ___ Cooler #6 ___

Chain of custody present? Yes No ___

Chain of custody signed when relinquished and received? Yes No ___

Chain of custody agrees with sample labels? Yes No ___

Samples in proper container/bottle? Yes No ___

Sample containers intact? Yes No ___

Sufficient sample volume for indicated test? Yes No ___

All samples received within holding time? Yes No ___

Was TAT marked on the COC? Yes No ___

Proceed with Standard TAT as per project history? Yes ___ No ___ Not Applicable

Water - VOA vials have zero headspace? No VOA vials submitted ___ Yes No ___

Water - pH acceptable upon receipt? Yes No ___ Not Applicable ___

Adjusted? ___ Checked by JB

Sample Condition: Good Other(Explain) ___

(For diffusive samples or AIHA lead) Is a known blank included? Yes ___ No

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

Client: EarthCon Consultants, Inc.
 Project Name: Apollo Smyrna
 Lab Order: 1501A98

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1501A98-001A	MW-1	1/15/2015 11:13:00AM	Aqueous	TCL VOLATILE ORGANICS		1/19/2015 11:05:05AM	01/20/2015
1501A98-001A	MW-1	1/15/2015 11:13:00AM	Aqueous	TCL VOLATILE ORGANICS		1/19/2015 11:05:05AM	01/21/2015
1501A98-001B	MW-1	1/15/2015 11:13:00AM	Aqueous	GC Analysis of Gaseous Samples		1/16/2015 10:48:55AM	01/16/2015
1501A98-001C	MW-1	1/15/2015 11:13:00AM	Aqueous	Total Organic Carbon (TOC)			01/16/2015
1501A98-001D	MW-1	1/15/2015 11:13:00AM	Aqueous	Alkalinity by SM2320B			01/16/2015
1501A98-001E	MW-1	1/15/2015 11:13:00AM	Aqueous	ION SCAN			01/16/2015
1501A98-001F	MW-1	1/15/2015 11:13:00AM	Aqueous	Sulfide by SW9030/9034		1/21/2015 10:40:00AM	01/21/2015
1501A98-002A	MW-3	1/15/2015 1:42:00PM	Aqueous	TCL VOLATILE ORGANICS		1/19/2015 11:05:05AM	01/20/2015
1501A98-002A	MW-3	1/15/2015 1:42:00PM	Aqueous	TCL VOLATILE ORGANICS		1/19/2015 11:05:05AM	01/21/2015
1501A98-002B	MW-3	1/15/2015 1:42:00PM	Aqueous	GC Analysis of Gaseous Samples		1/16/2015 10:48:55AM	01/16/2015
1501A98-002C	MW-3	1/15/2015 1:42:00PM	Aqueous	Total Organic Carbon (TOC)			01/16/2015
1501A98-002D	MW-3	1/15/2015 1:42:00PM	Aqueous	Alkalinity by SM2320B			01/16/2015
1501A98-002E	MW-3	1/15/2015 1:42:00PM	Aqueous	ION SCAN			01/16/2015
1501A98-002F	MW-3	1/15/2015 1:42:00PM	Aqueous	Sulfide by SW9030/9034		1/21/2015 10:40:00AM	01/21/2015
1501A98-003A	MW-4	1/15/2015 5:30:00PM	Aqueous	TCL VOLATILE ORGANICS		1/19/2015 11:05:05AM	01/20/2015
1501A98-003B	MW-4	1/15/2015 5:30:00PM	Aqueous	GC Analysis of Gaseous Samples		1/16/2015 10:48:55AM	01/16/2015
1501A98-003C	MW-4	1/15/2015 5:30:00PM	Aqueous	Total Organic Carbon (TOC)			01/16/2015
1501A98-003D	MW-4	1/15/2015 5:30:00PM	Aqueous	Alkalinity by SM2320B			01/16/2015
1501A98-003E	MW-4	1/15/2015 5:30:00PM	Aqueous	ION SCAN			01/16/2015
1501A98-003F	MW-4	1/15/2015 5:30:00PM	Aqueous	Sulfide by SW9030/9034		1/21/2015 10:40:00AM	01/21/2015
1501A98-004A	MW-8	1/15/2015 4:30:00PM	Aqueous	TCL VOLATILE ORGANICS		1/19/2015 11:05:05AM	01/20/2015
1501A98-004B	MW-8	1/15/2015 4:30:00PM	Aqueous	GC Analysis of Gaseous Samples		1/16/2015 10:48:55AM	01/16/2015
1501A98-004C	MW-8	1/15/2015 4:30:00PM	Aqueous	Total Organic Carbon (TOC)			01/16/2015
1501A98-004D	MW-8	1/15/2015 4:30:00PM	Aqueous	Alkalinity by SM2320B			01/16/2015
1501A98-004E	MW-8	1/15/2015 4:30:00PM	Aqueous	ION SCAN			01/16/2015
1501A98-004F	MW-8	1/15/2015 4:30:00PM	Aqueous	Sulfide by SW9030/9034		1/21/2015 10:40:00AM	01/21/2015
1501A98-005A	DUP 1	1/15/2015 12:00:00PM	Aqueous	TCL VOLATILE ORGANICS		1/19/2015 11:05:05AM	01/20/2015
1501A98-006A	TRIP BLANK	1/15/2015 12:00:00AM	Aqueous	TCL VOLATILE ORGANICS		1/19/2015 11:05:05AM	01/19/2015
1501A98-007A	MW-6	1/15/2015 11:35:00AM	Groundwater	TCL VOLATILE ORGANICS		1/19/2015 11:05:05AM	01/21/2015

Client: EarthCon Consultants, Inc.
 Project Name: Apollo Smyrna
 Lab Order: 1501A98

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1501A98-007B	MW-6	1/15/2015 11:35:00AM	Groundwater	GC Analysis of Gaseous Samples		1/16/2015 10:48:55AM	01/16/2015
1501A98-007C	MW-6	1/15/2015 11:35:00AM	Groundwater	Total Organic Carbon (TOC)			01/16/2015
1501A98-007D	MW-6	1/15/2015 11:35:00AM	Groundwater	Alkalinity by SM2320B			01/16/2015
1501A98-007E	MW-6	1/15/2015 11:35:00AM	Groundwater	ION SCAN			01/16/2015
1501A98-007F	MW-6	1/15/2015 11:35:00AM	Groundwater	Sulfide by SW9030/9034		1/21/2015 10:40:00AM	01/21/2015

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1501A98

ANALYTICAL QC SUMMARY REPORT

BatchID: 201798

Sample ID: MB-201798	Client ID:	Units: ug/L	Prep Date: 01/16/2015	Run No: 283955							
SampleType: MBLK	TestCode: GC Analysis of Gaseous Samples SOP-RSK 175	BatchID: 201798	Analysis Date: 01/16/2015	Seq No: 6019704							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethane	BRL	9									
Ethylene	BRL	7									
Methane	BRL	4									

Sample ID: LCS-201798	Client ID:	Units: ug/L	Prep Date: 01/16/2015	Run No: 283955							
SampleType: LCS	TestCode: GC Analysis of Gaseous Samples SOP-RSK 175	BatchID: 201798	Analysis Date: 01/16/2015	Seq No: 6019703							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethane	129.4	9	200.0		64.7	41.2	115				
Ethylene	89.09	7	200.0		44.5	26.5	115				
Methane	144.9	4	200.0		72.5	45.1	115				

Sample ID: LCSD-201798	Client ID:	Units: ug/L	Prep Date: 01/16/2015	Run No: 283955							
SampleType: LCSD	TestCode: GC Analysis of Gaseous Samples SOP-RSK 175	BatchID: 201798	Analysis Date: 01/16/2015	Seq No: 6019705							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethane	128.0	9	200.0		64.0	41.2	115	129.4	1.14	20	
Ethylene	85.21	7	200.0		42.6	26.5	115	89.09	4.45	20	
Methane	145.3	4	200.0		72.7	45.1	115	144.9	0.278	20	

Sample ID: 1501A98-003BMS	Client ID: MW-4	Units: ug/L	Prep Date: 01/16/2015	Run No: 283955							
SampleType: MS	TestCode: GC Analysis of Gaseous Samples SOP-RSK 175	BatchID: 201798	Analysis Date: 01/16/2015	Seq No: 6019718							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethane	114.9	9	200.0		57.4	40.5	115				
Ethylene	70.18	7	200.0		35.1	25.1	115				
Methane	132.3	4	200.0	11.60	60.4	40.4	115				

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1501A98

ANALYTICAL QC SUMMARY REPORT

BatchID: 201798

Sample ID: 1501A98-003BMSD	Client ID: MW-4	Units: ug/L	Prep Date: 01/16/2015	Run No: 283955							
SampleType: MSD	TestCode: GC Analysis of Gaseous Samples SOP-RSK 175	BatchID: 201798	Analysis Date: 01/16/2015	Seq No: 6019719							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethane	110.3	9	200.0		55.1	40.5	115	114.9	4.06	20	
Ethylene	67.48	7	200.0		33.7	25.1	115	70.18	3.91	20	
Methane	127.4	4	200.0	11.60	57.9	40.4	115	132.3	3.83	20	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1501A98

ANALYTICAL QC SUMMARY REPORT

BatchID: 201867

Sample ID: MB-201867	Client ID:	Units: ug/L	Prep Date: 01/19/2015	Run No: 283847							
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 201867	Analysis Date: 01/19/2015	Seq No: 6017143							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,2,4-Trichlorobenzene	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dibromoethane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,3-Dichlorobenzene	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
2-Butanone	BRL	50									
2-Hexanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	50									
Benzene	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Bromoform	BRL	5.0									
Bromomethane	BRL	5.0									
Carbon disulfide	BRL	5.0									
Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									
Chloroform	BRL	5.0									
Chloromethane	BRL	10									

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1501A98

ANALYTICAL QC SUMMARY REPORT

BatchID: 201867

Sample ID: MB-201867	Client ID:	Units: ug/L	Prep Date: 01/19/2015	Run No: 283847							
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 201867	Analysis Date: 01/19/2015	Seq No: 6017143							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Freon-113	BRL	10									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	5.0									
Methyl acetate	BRL	5.0									
Methyl tert-butyl ether	BRL	5.0									
Methylcyclohexane	BRL	5.0									
Methylene chloride	BRL	5.0									
o-Xylene	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	2.0									
Surr: 4-Bromofluorobenzene	47.18	0	50.00		94.4	70.6	123				
Surr: Dibromofluoromethane	51.32	0	50.00		103	78.7	124				
Surr: Toluene-d8	48.33	0	50.00		96.7	81.3	120				

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1501A98

ANALYTICAL QC SUMMARY REPORT

BatchID: 201867

Sample ID: LCS-201867	Client ID:	Units: ug/L	Prep Date: 01/19/2015	Run No: 283847							
SampleType: LCS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 201867	Analysis Date: 01/19/2015	Seq No: 6017149							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	59.52	5.0	50.00		119	64.2	137				
Benzene	53.22	5.0	50.00		106	72.8	128				
Chlorobenzene	48.91	5.0	50.00		97.8	72.3	126				
Toluene	54.39	5.0	50.00		109	74.9	127				
Trichloroethene	56.14	5.0	50.00		112	70.5	134				
Surr: 4-Bromofluorobenzene	46.23	0	50.00		92.5	70.6	123				
Surr: Dibromofluoromethane	51.41	0	50.00		103	78.7	124				
Surr: Toluene-d8	49.40	0	50.00		98.8	81.3	120				

Sample ID: 1501991-003AMS	Client ID:	Units: ug/L	Prep Date: 01/19/2015	Run No: 283968							
SampleType: MS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 201867	Analysis Date: 01/20/2015	Seq No: 6020549							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	73.90	5.0	50.00		148	60.5	156				
Benzene	60.16	5.0	50.00		120	70	135				
Chlorobenzene	55.10	5.0	50.00		110	70.5	132				
Toluene	61.59	5.0	50.00		123	70.5	137				
Trichloroethene	65.48	5.0	50.00		131	71.8	139				
Surr: 4-Bromofluorobenzene	45.52	0	50.00		91.0	70.6	123				
Surr: Dibromofluoromethane	52.13	0	50.00		104	78.7	124				
Surr: Toluene-d8	48.88	0	50.00		97.8	81.3	120				

Sample ID: 1501991-003AMSD	Client ID:	Units: ug/L	Prep Date: 01/19/2015	Run No: 283968							
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 201867	Analysis Date: 01/20/2015	Seq No: 6020550							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	73.55	5.0	50.00		147	60.5	156	73.90	0.475	20	
Benzene	60.34	5.0	50.00		121	70	135	60.16	0.299	20	

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: EarthCon Consultants, Inc.
 Project Name: Apollo Smyrna
 Workorder: 1501A98

ANALYTICAL QC SUMMARY REPORT

BatchID: 201867

Sample ID: 1501991-003AMSD	Client ID:	Units: ug/L	Prep Date: 01/19/2015	Run No: 283968							
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 201867	Analysis Date: 01/20/2015	Seq No: 6020550							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chlorobenzene	54.92	5.0	50.00		110	70.5	132	55.10	0.327	20	
Toluene	62.41	5.0	50.00		125	70.5	137	61.59	1.32	20	
Trichloroethene	65.43	5.0	50.00		131	71.8	139	65.48	0.076	20	
Surr: 4-Bromofluorobenzene	46.73	0	50.00		93.5	70.6	123	45.52	0	0	
Surr: Dibromofluoromethane	51.30	0	50.00		103	78.7	124	52.13	0	0	
Surr: Toluene-d8	49.50	0	50.00		99.0	81.3	120	48.88	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1501A98

ANALYTICAL QC SUMMARY REPORT

BatchID: 202011

Sample ID: MB-202011	Client ID:	Units: mg/L	Prep Date: 01/21/2015	Run No: 284087							
SampleType: MBLK	TestCode: Sulfide by SW9030B/9034	BatchID: 202011	Analysis Date: 01/21/2015	Seq No: 6022771							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Sulfide BRL 2.00

Sample ID: LCS-202011	Client ID:	Units: mg/L	Prep Date: 01/21/2015	Run No: 284087							
SampleType: LCS	TestCode: Sulfide by SW9030B/9034	BatchID: 202011	Analysis Date: 01/21/2015	Seq No: 6022772							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Sulfide 336.0 2.00 336.0 100 40 120

Sample ID: 1501A83-001DMS	Client ID:	Units: mg/L	Prep Date: 01/21/2015	Run No: 284087							
SampleType: MS	TestCode: Sulfide by SW9030B/9034	BatchID: 202011	Analysis Date: 01/21/2015	Seq No: 6022790							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Sulfide 16.20 2.00 16.80 96.4 73.7 120

Sample ID: 1501A83-001DMSD	Client ID:	Units: mg/L	Prep Date: 01/21/2015	Run No: 284087							
SampleType: MSD	TestCode: Sulfide by SW9030B/9034	BatchID: 202011	Analysis Date: 01/21/2015	Seq No: 6022791							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Sulfide 16.60 2.00 16.80 98.8 73.7 120 16.20 2.44 20

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1501A98

ANALYTICAL QC SUMMARY REPORT

BatchID: R283805

Sample ID: MB-R283805	Client ID:	Units: mg/L	Prep Date:	Run No: 283805							
SampleType: MBLK	TestCode: Alkalinity by SM2320B	BatchID: R283805	Analysis Date: 01/16/2015	Seq No: 6015848							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Alkalinity, Total (As CaCO3)

BRL 3.00

Sample ID: LCS-R283805	Client ID:	Units: mg/L	Prep Date:	Run No: 283805							
SampleType: LCS	TestCode: Alkalinity by SM2320B	BatchID: R283805	Analysis Date: 01/16/2015	Seq No: 6015849							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Alkalinity, Total (As CaCO3)

125.0 3.00 125.0 100 75 125

Sample ID: 1501A83-001EDUP	Client ID:	Units: mg/L	Prep Date:	Run No: 283805							
SampleType: DUP	TestCode: Alkalinity by SM2320B	BatchID: R283805	Analysis Date: 01/16/2015	Seq No: 6015853							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Alkalinity, Total (As CaCO3)

30.00 3.00 29.00 3.39 30

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
	BRL Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
	J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
	Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1501A98

ANALYTICAL QC SUMMARY REPORT

BatchID: R283845

Sample ID: MB-R283845	Client ID:	Units: mg/L	Prep Date:	Run No: 283845							
SampleType: MBLK	TestCode: Total Organic Carbon (TOC) SW9060A	BatchID: R283845	Analysis Date: 01/16/2015	Seq No: 6016807							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Organic Carbon, Total

BRL 1.00

Sample ID: LCS-R283845	Client ID:	Units: mg/L	Prep Date:	Run No: 283845							
SampleType: LCS	TestCode: Total Organic Carbon (TOC) SW9060A	BatchID: R283845	Analysis Date: 01/16/2015	Seq No: 6016806							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Organic Carbon, Total

25.45 1.00 25.00 102 90 110

Sample ID: 1501A98-007CMS	Client ID: MW-6	Units: mg/L	Prep Date:	Run No: 283845							
SampleType: MS	TestCode: Total Organic Carbon (TOC) SW9060A	BatchID: R283845	Analysis Date: 01/16/2015	Seq No: 6016823							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Organic Carbon, Total

128.9 5.00 125.0 103 80 120

Sample ID: 1501A98-007CMSD	Client ID: MW-6	Units: mg/L	Prep Date:	Run No: 283845							
SampleType: MSD	TestCode: Total Organic Carbon (TOC) SW9060A	BatchID: R283845	Analysis Date: 01/16/2015	Seq No: 6016824							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Organic Carbon, Total

124.9 5.00 125.0 99.9 80 120 128.9 3.15 20

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
	BRL Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
	J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
	Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1501A98

ANALYTICAL QC SUMMARY REPORT

BatchID: R283956

Sample ID: MB-R283956	Client ID:	Units: mg/L	Prep Date:	Run No: 283956							
SampleType: MBLK	TestCode: ION SCAN SW9056A	BatchID: R283956	Analysis Date: 01/16/2015	Seq No: 6019521							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride	BRL	1.0									
Nitrate	BRL	0.25									
Sulfate	BRL	1.0									

Sample ID: LCS-R283956	Client ID:	Units: mg/L	Prep Date:	Run No: 283956							
SampleType: LCS	TestCode: ION SCAN SW9056A	BatchID: R283956	Analysis Date: 01/16/2015	Seq No: 6019520							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride	10.13	1.0	10.00	0.09853	100	90	110				
Nitrate	5.343	0.25	5.000	0.01013	107	90	110				
Sulfate	26.97	1.0	25.00		108	90	110				

Sample ID: 1501A82-001GMS	Client ID:	Units: mg/L	Prep Date:	Run No: 283956							
SampleType: MS	TestCode: ION SCAN SW9056A	BatchID: R283956	Analysis Date: 01/16/2015	Seq No: 6019550							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride	18.27	1.0	10.00	10.04	82.4	90	110				S
Nitrate	4.028	0.25	5.000		80.6	90	110				S
Sulfate	28.30	1.0	25.00	4.646	94.6	90	110				

Sample ID: 1501B23-001BMS	Client ID:	Units: mg/L	Prep Date:	Run No: 283956							
SampleType: MS	TestCode: ION SCAN SW9056A	BatchID: R283956	Analysis Date: 01/16/2015	Seq No: 6019541							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride	121.3	10	100.0	27.73	93.6	90	110				
Nitrate	61.53	2.5	50.00	10.87	101	90	110				
Sulfate	280.7	10	250.0	24.16	103	90	110				

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1501A98

ANALYTICAL QC SUMMARY REPORT

BatchID: R283956

Sample ID: 1501B23-001BMSD	Client ID:	Units: mg/L	Prep Date:	Run No: 283956							
SampleType: MSD	TestCode: ION SCAN SW9056A	BatchID: R283956	Analysis Date: 01/16/2015	Seq No: 6019542							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride	120.4	10	100.0	27.73	92.7	90	110	121.3	0.724	20	
Nitrate	61.62	2.5	50.00	10.87	101	90	110	61.53	0.133	20	
Sulfate	265.2	10	250.0	24.16	96.4	90	110	280.7	5.71	20	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

January 27, 2015

Kristen Rivera
EarthCon Consultants, Inc.
1880 West Oak Parkway
Marietta GA 30062

TEL: (770) 973-2100
FAX: (770) 973-7395

RE: Apollo Smyrna

Dear Kristen Rivera:

Order No: 1501C12

Analytical Environmental Services, Inc. received 4 samples on 1/16/2015 5:00:00 PM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/14-06/30/15.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/15.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Chantelle Kanhai
Project Manager



ANALYTICAL ENVIRONMENTAL SERVICES, INC

3080 Presidential Drive, Atlanta GA 30340-3704

AES

TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1501C12

Date: 1-16-15 Page 1 of 2

COMPANY: <i>EarthCore</i>		ADDRESS: <i>1880 West Oak Plains Bldg 100, Ste 106 Marietta GA 30067</i>					ANALYSIS REQUESTED										Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.		No # of Containers																		
PHONE: <i>770-473-2100</i>		SIGNATURE: <i>[Signature]</i>					<table border="1"> <tr> <td>TOL</td> <td>Alkalinity</td> <td>Sulfide</td> <td>Iron</td> <td>Manganese</td> <td>Ammonia</td> <td>Chloride</td> <td>VOL</td> <td></td> </tr> </table>													TOL	Alkalinity	Sulfide	Iron	Manganese	Ammonia	Chloride	VOL										
TOL	Alkalinity	Sulfide	Iron	Manganese	Ammonia	Chloride	VOL																														
SAMPLED BY: <i>Perry Frick, Kristen Henry</i>		SIGNED BY: <i>[Signature]</i>					PRESERVATION (See codes)										REMARKS																				
#	SAMPLE ID	DATE	TIME	Grab	Composite	Matrix (See codes)	G	I	N	H	I	F	S																								
1	DW-1	1-16-15	1045	X		GW	1	1	1	1	2	2											2														
2	RW-1	↓	1554	X		GW	1	1	1	1	2	2											1														
3	RW-2	↓	1602	X		GW	1	1	1	1	2	2											1														
4	Top Blank											2											2														
5																																					
6																																					
7																																					
8																																					
9																																					
10																																					
11																																					
12																																					
13																																					
14																																					
RELINQUISHED BY		DATE/TIME	RECEIVED BY		DATE/TIME	PROJECT INFORMATION										RECEIPT																					
1: <i>[Signature]</i>			1: <i>[Signature]</i>		1-16-15 5:00p	PROJECT NAME: <i>Apollo Systems</i>										Total # of Containers <i>12</i>																					
2:			2:			PROJECT #:										Turnaround Time Request																					
3:			3:			SITE ADDRESS:										<input checked="" type="radio"/> Standard 5 Business Days <input type="radio"/> 2 Business Day Rush <input type="radio"/> Next Business Day Rush <input type="radio"/> Same Day Rush (auth req.) <input type="radio"/> Other _____																					
SPECIAL INSTRUCTIONS/COMMENTS:		SHIPMENT METHOD					INVOICE TO:										STATE PROGRAM (if any): _____																				
		OUT / / VIA: IN <u>1</u> / / VIA: CLIENT FedEx UPS MAIL COURIER GREYHOUND OTHER _____					(IF DIFFERENT FROM ABOVE)										E-mail? Y/N; Fax? Y/N																				
							QUOTE #: _____ PO#: _____										DATA PACKAGE: I II III IV																				

SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY. IF TURNAROUND TIME IS NOT INDICATED, AES WILL PROCEED WITH STANDARD TAT OF SAMPLES. SAMPLES ARE DISPOSED 30 DAYS AFTER REPORT COMPLETION UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water

PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

Client: EarthCon Consultants, Inc.

Project: Apollo Smyrna

Lab ID: 1501C12

Case Narrative

Ion Chromatography Analysis by Method 9056A:

Nitrate values for the QC samples 1501744-001CMS, -1501744-001CMSD, and 1501981-003CMS are "H" qualified indicating they were analyzed outside of the holding time of 48 Hours. Samples 1501744-001 and 1501981-003 did not require Nitrate to be reported.

Analytical Environmental Services, Inc

Date: 27-Jan-15

Client: EarthCon Consultants, Inc.	Client Sample ID: DW-1
Project Name: Apollo Smyrna	Collection Date: 1/16/2015 10:45:00 AM
Lab ID: 1501C12-001	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) SW9060A								
Organic Carbon, Total	5.96	1.00		mg/L	R284158	1	01/21/2015 14:19	YS
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	77	5.0		ug/L	201906	1	01/21/2015 03:08	GC
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	201906	1	01/21/2015 03:08	GC
1,1,2-Trichloroethane	BRL	5.0		ug/L	201906	1	01/21/2015 03:08	GC
1,1-Dichloroethane	280	250		ug/L	201906	50	01/20/2015 03:21	GC
1,1-Dichloroethene	690	250		ug/L	201906	50	01/20/2015 03:21	GC
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	201906	1	01/21/2015 03:08	GC
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	201906	1	01/21/2015 03:08	GC
1,2-Dibromoethane	BRL	5.0		ug/L	201906	1	01/21/2015 03:08	GC
1,2-Dichlorobenzene	BRL	5.0		ug/L	201906	1	01/21/2015 03:08	GC
1,2-Dichloroethane	6.7	5.0		ug/L	201906	1	01/21/2015 03:08	GC
1,2-Dichloropropane	BRL	5.0		ug/L	201906	1	01/21/2015 03:08	GC
1,3-Dichlorobenzene	BRL	5.0		ug/L	201906	1	01/21/2015 03:08	GC
1,4-Dichlorobenzene	BRL	5.0		ug/L	201906	1	01/21/2015 03:08	GC
2-Butanone	BRL	50		ug/L	201906	1	01/21/2015 03:08	GC
2-Hexanone	BRL	10		ug/L	201906	1	01/21/2015 03:08	GC
4-Methyl-2-pentanone	BRL	10		ug/L	201906	1	01/21/2015 03:08	GC
Acetone	93	50		ug/L	201906	1	01/21/2015 03:08	GC
Benzene	BRL	5.0		ug/L	201906	1	01/21/2015 03:08	GC
Bromodichloromethane	BRL	5.0		ug/L	201906	1	01/21/2015 03:08	GC
Bromoform	BRL	5.0		ug/L	201906	1	01/21/2015 03:08	GC
Bromomethane	BRL	5.0		ug/L	201906	1	01/21/2015 03:08	GC
Carbon disulfide	BRL	5.0		ug/L	201906	1	01/21/2015 03:08	GC
Carbon tetrachloride	BRL	5.0		ug/L	201906	1	01/21/2015 03:08	GC
Chlorobenzene	BRL	5.0		ug/L	201906	1	01/21/2015 03:08	GC
Chloroethane	760	500		ug/L	201906	50	01/20/2015 03:21	GC
Chloroform	BRL	5.0		ug/L	201906	1	01/21/2015 03:08	GC
Chloromethane	BRL	10		ug/L	201906	1	01/21/2015 03:08	GC
cis-1,2-Dichloroethene	52	5.0		ug/L	201906	1	01/21/2015 03:08	GC
cis-1,3-Dichloropropene	BRL	5.0		ug/L	201906	1	01/21/2015 03:08	GC
Cyclohexane	BRL	5.0		ug/L	201906	1	01/21/2015 03:08	GC
Dibromochloromethane	BRL	5.0		ug/L	201906	1	01/21/2015 03:08	GC
Dichlorodifluoromethane	BRL	10		ug/L	201906	1	01/21/2015 03:08	GC
Ethylbenzene	6.4	5.0		ug/L	201906	1	01/21/2015 03:08	GC
Freon-113	BRL	10		ug/L	201906	1	01/21/2015 03:08	GC
Isopropylbenzene	BRL	5.0		ug/L	201906	1	01/21/2015 03:08	GC
m,p-Xylene	16	5.0		ug/L	201906	1	01/21/2015 03:08	GC
Methyl acetate	BRL	5.0		ug/L	201906	1	01/21/2015 03:08	GC
Methyl tert-butyl ether	BRL	5.0		ug/L	201906	1	01/21/2015 03:08	GC

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: EarthCon Consultants, Inc.	Client Sample ID: DW-1
Project Name: Apollo Smyrna	Collection Date: 1/16/2015 10:45:00 AM
Lab ID: 1501C12-001	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
Methylcyclohexane	BRL	5.0		ug/L	201906	1	01/21/2015 03:08	GC
Methylene chloride	19	5.0		ug/L	201906	1	01/21/2015 03:08	GC
o-Xylene	7.7	5.0		ug/L	201906	1	01/21/2015 03:08	GC
Styrene	BRL	5.0		ug/L	201906	1	01/21/2015 03:08	GC
Tetrachloroethene	520	250		ug/L	201906	50	01/20/2015 03:21	GC
Toluene	460	250		ug/L	201906	50	01/20/2015 03:21	GC
trans-1,2-Dichloroethene	BRL	5.0		ug/L	201906	1	01/21/2015 03:08	GC
trans-1,3-Dichloropropene	BRL	5.0		ug/L	201906	1	01/21/2015 03:08	GC
Trichloroethene	38	5.0		ug/L	201906	1	01/21/2015 03:08	GC
Trichlorofluoromethane	BRL	5.0		ug/L	201906	1	01/21/2015 03:08	GC
Vinyl chloride	51	2.0		ug/L	201906	1	01/21/2015 03:08	GC
Surr: 4-Bromofluorobenzene	93.7	70.6-123		%REC	201906	50	01/20/2015 03:21	GC
Surr: 4-Bromofluorobenzene	98.4	70.6-123		%REC	201906	1	01/21/2015 03:08	GC
Surr: Dibromofluoromethane	110	78.7-124		%REC	201906	50	01/20/2015 03:21	GC
Surr: Dibromofluoromethane	107	78.7-124		%REC	201906	1	01/21/2015 03:08	GC
Surr: Toluene-d8	99.1	81.3-120		%REC	201906	1	01/21/2015 03:08	GC
Surr: Toluene-d8	102	81.3-120		%REC	201906	50	01/20/2015 03:21	GC
Sulfide by SW9030B/9034 (SW9030B)								
Sulfide	BRL	2.00		mg/L	202011	1	01/21/2015 10:40	AB
ION SCAN SW9056A								
Chloride	57	10		mg/L	R284060	10	01/16/2015 22:00	JW
Nitrate	BRL	0.25		mg/L	R284060	1	01/16/2015 21:45	JW
Sulfate	BRL	1.0		mg/L	R284060	1	01/16/2015 21:45	JW
GC Analysis of Gaseous Samples SOP-RSK 175 (RSK175)								
Ethane	BRL	9		ug/L	201992	1	01/22/2015 13:51	JM
Ethylene	260	7		ug/L	201992	1	01/22/2015 13:51	JM
Methane	3300	80		ug/L	201992	20	01/22/2015 14:19	JM
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	128	3.00		mg/L	R284281	1	01/23/2015 09:10	PF

Qualifiers:

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- BRL Below reporting limit
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- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 27-Jan-15

Client: EarthCon Consultants, Inc.	Client Sample ID: RW-1
Project Name: Apollo Smyrna	Collection Date: 1/16/2015 3:54:00 PM
Lab ID: 1501C12-002	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
ION SCAN SW9056A								
Chloride	110	10		mg/L	R284060	10	01/16/2015 22:29	JW
Nitrate	BRL	0.25		mg/L	R284060	1	01/16/2015 22:15	JW
Sulfate	3.4	1.0		mg/L	R284060	1	01/16/2015 22:15	JW

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 27-Jan-15

Client: EarthCon Consultants, Inc.	Client Sample ID: RW-2
Project Name: Apollo Smyrna	Collection Date: 1/16/2015 4:02:00 PM
Lab ID: 1501C12-003	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
ION SCAN SW9056A								
Chloride	4.2	1.0		mg/L	R284060	1	01/16/2015 22:44	JW
Nitrate	BRL	0.25		mg/L	R284060	1	01/16/2015 22:44	JW
Sulfate	14	1.0		mg/L	R284060	1	01/16/2015 22:44	JW

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: EarthCon Consultants, Inc.	Client Sample ID: TRIP BLANK
Project Name: Apollo Smyrna	Collection Date: 1/16/2015
Lab ID: 1501C12-004	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	201906	1	01/19/2015 20:23	GC
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	201906	1	01/19/2015 20:23	GC
1,1,2-Trichloroethane	BRL	5.0		ug/L	201906	1	01/19/2015 20:23	GC
1,1-Dichloroethane	BRL	5.0		ug/L	201906	1	01/19/2015 20:23	GC
1,1-Dichloroethene	BRL	5.0		ug/L	201906	1	01/19/2015 20:23	GC
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	201906	1	01/19/2015 20:23	GC
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	201906	1	01/19/2015 20:23	GC
1,2-Dibromoethane	BRL	5.0		ug/L	201906	1	01/19/2015 20:23	GC
1,2-Dichlorobenzene	BRL	5.0		ug/L	201906	1	01/19/2015 20:23	GC
1,2-Dichloroethane	BRL	5.0		ug/L	201906	1	01/19/2015 20:23	GC
1,2-Dichloropropane	BRL	5.0		ug/L	201906	1	01/19/2015 20:23	GC
1,3-Dichlorobenzene	BRL	5.0		ug/L	201906	1	01/19/2015 20:23	GC
1,4-Dichlorobenzene	BRL	5.0		ug/L	201906	1	01/19/2015 20:23	GC
2-Butanone	BRL	50		ug/L	201906	1	01/19/2015 20:23	GC
2-Hexanone	BRL	10		ug/L	201906	1	01/19/2015 20:23	GC
4-Methyl-2-pentanone	BRL	10		ug/L	201906	1	01/19/2015 20:23	GC
Acetone	BRL	50		ug/L	201906	1	01/19/2015 20:23	GC
Benzene	BRL	5.0		ug/L	201906	1	01/19/2015 20:23	GC
Bromodichloromethane	BRL	5.0		ug/L	201906	1	01/19/2015 20:23	GC
Bromoform	BRL	5.0		ug/L	201906	1	01/19/2015 20:23	GC
Bromomethane	BRL	5.0		ug/L	201906	1	01/19/2015 20:23	GC
Carbon disulfide	BRL	5.0		ug/L	201906	1	01/19/2015 20:23	GC
Carbon tetrachloride	BRL	5.0		ug/L	201906	1	01/19/2015 20:23	GC
Chlorobenzene	BRL	5.0		ug/L	201906	1	01/19/2015 20:23	GC
Chloroethane	BRL	10		ug/L	201906	1	01/19/2015 20:23	GC
Chloroform	BRL	5.0		ug/L	201906	1	01/19/2015 20:23	GC
Chloromethane	BRL	10		ug/L	201906	1	01/19/2015 20:23	GC
cis-1,2-Dichloroethene	BRL	5.0		ug/L	201906	1	01/19/2015 20:23	GC
cis-1,3-Dichloropropene	BRL	5.0		ug/L	201906	1	01/19/2015 20:23	GC
Cyclohexane	BRL	5.0		ug/L	201906	1	01/19/2015 20:23	GC
Dibromochloromethane	BRL	5.0		ug/L	201906	1	01/19/2015 20:23	GC
Dichlorodifluoromethane	BRL	10		ug/L	201906	1	01/19/2015 20:23	GC
Ethylbenzene	BRL	5.0		ug/L	201906	1	01/19/2015 20:23	GC
Freon-113	BRL	10		ug/L	201906	1	01/19/2015 20:23	GC
Isopropylbenzene	BRL	5.0		ug/L	201906	1	01/19/2015 20:23	GC
m,p-Xylene	BRL	5.0		ug/L	201906	1	01/19/2015 20:23	GC
Methyl acetate	BRL	5.0		ug/L	201906	1	01/19/2015 20:23	GC
Methyl tert-butyl ether	BRL	5.0		ug/L	201906	1	01/19/2015 20:23	GC
Methylcyclohexane	BRL	5.0		ug/L	201906	1	01/19/2015 20:23	GC
Methylene chloride	BRL	5.0		ug/L	201906	1	01/19/2015 20:23	GC
o-Xylene	BRL	5.0		ug/L	201906	1	01/19/2015 20:23	GC

Qualifiers:

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- N Analyte not NELAC certified
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- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: EarthCon Consultants, Inc.	Client Sample ID: TRIP BLANK
Project Name: Apollo Smyrna	Collection Date: 1/16/2015
Lab ID: 1501C12-004	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	201906	1	01/19/2015 20:23	GC
Tetrachloroethene	BRL	5.0		ug/L	201906	1	01/19/2015 20:23	GC
Toluene	BRL	5.0		ug/L	201906	1	01/19/2015 20:23	GC
trans-1,2-Dichloroethene	BRL	5.0		ug/L	201906	1	01/19/2015 20:23	GC
trans-1,3-Dichloropropene	BRL	5.0		ug/L	201906	1	01/19/2015 20:23	GC
Trichloroethene	BRL	5.0		ug/L	201906	1	01/19/2015 20:23	GC
Trichlorofluoromethane	BRL	5.0		ug/L	201906	1	01/19/2015 20:23	GC
Vinyl chloride	BRL	2.0		ug/L	201906	1	01/19/2015 20:23	GC
Surr: 4-Bromofluorobenzene	93.1	70.6-123		%REC	201906	1	01/19/2015 20:23	GC
Surr: Dibromofluoromethane	105	78.7-124		%REC	201906	1	01/19/2015 20:23	GC
Surr: Toluene-d8	99.6	81.3-120		%REC	201906	1	01/19/2015 20:23	GC

Qualifiers:

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- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Earthcon

Work Order Number 1501C12

Checklist completed by [Signature] 1/16/15
Signature Date

Carrier name: FedEx UPS Courier Client US Mail Other

Shipping container/cooler in good condition? Yes No Not Present

Custody seals intact on shipping container/cooler? Yes No Not Present

Custody seals intact on sample bottles? Yes No Not Present

Container/Temp Blank temperature in compliance? (0°≤6°C)* Yes No

Cooler #1 3.4°C Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Chain of custody present? Yes No

Chain of custody signed when relinquished and received? Yes No

Chain of custody agrees with sample labels? Yes No

Samples in proper container/bottle? Yes No

Sample containers intact? Yes No

Sufficient sample volume for indicated test? Yes No

All samples received within holding time? Yes No

Was TAT marked on the COC? Yes No

Proceed with Standard TAT as per project history? Yes No Not Applicable

Water - VOA vials have zero headspace? No VOA vials submitted Yes No

Water - pH acceptable upon receipt? Yes No Not Applicable

Adjusted? _____ Checked by [Signature]

Sample Condition: Good Other(Explain) _____

(For diffusive samples or AIHA lead) Is a known blank included? Yes No

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Lab Order: 1501C12

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1501C12-001A	DW-1	1/16/2015 10:45:00AM	Groundwater	TCL VOLATILE ORGANICS		1/19/2015 6:18:00 PM	01/20/2015
1501C12-001A	DW-1	1/16/2015 10:45:00AM	Groundwater	TCL VOLATILE ORGANICS		1/19/2015 6:18:00 PM	01/21/2015
1501C12-001B	DW-1	1/16/2015 10:45:00AM	Groundwater	GC Analysis of Gaseous Samples		1/21/2015 3:14:14 PM	01/22/2015
1501C12-001C	DW-1	1/16/2015 10:45:00AM	Groundwater	Total Organic Carbon (TOC)			01/21/2015
1501C12-001D	DW-1	1/16/2015 10:45:00AM	Groundwater	ION SCAN			01/16/2015
1501C12-001E	DW-1	1/16/2015 10:45:00AM	Groundwater	Alkalinity by SM2320B			01/23/2015
1501C12-001F	DW-1	1/16/2015 10:45:00AM	Groundwater	Sulfide by SW9030/9034		1/21/2015 10:40:00 AM	01/21/2015
1501C12-002A	RW-1	1/16/2015 3:54:00PM	Groundwater	ION SCAN			01/16/2015
1501C12-003A	RW-2	1/16/2015 4:02:00PM	Groundwater	ION SCAN			01/16/2015
1501C12-004A	TRIPBLANK	1/16/2015 12:00:00AM	Aqueous	TCL VOLATILE ORGANICS		1/19/2015 6:18:00 PM	01/19/2015

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1501C12

ANALYTICAL QC SUMMARY REPORT

BatchID: 201906

Sample ID: MB-201906	Client ID:	Units: ug/L	Prep Date: 01/19/2015	Run No: 283934							
Sample Type: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 201906	Analysis Date: 01/19/2015	Seq No: 6018898							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,2,4-Trichlorobenzene	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dibromoethane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,3-Dichlorobenzene	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
2-Butanone	BRL	50									
2-Hexanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	50									
Benzene	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Bromoform	BRL	5.0									
Bromomethane	BRL	5.0									
Carbon disulfide	BRL	5.0									
Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									
Chloroform	BRL	5.0									
Chloromethane	BRL	10									

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1501C12

ANALYTICAL QC SUMMARY REPORT

BatchID: 201906

Sample ID: MB-201906	Client ID:	Units: ug/L	Prep Date: 01/19/2015	Run No: 283934							
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 201906	Analysis Date: 01/19/2015	Seq No: 6018898							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Freon-113	BRL	10									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	5.0									
Methyl acetate	BRL	5.0									
Methyl tert-butyl ether	BRL	5.0									
Methylcyclohexane	BRL	5.0									
Methylene chloride	BRL	5.0									
o-Xylene	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	2.0									
Surr: 4-Bromofluorobenzene	46.65	0	50.00		93.3	70.6	123				
Surr: Dibromofluoromethane	52.42	0	50.00		105	78.7	124				
Surr: Toluene-d8	49.61	0	50.00		99.2	81.3	120				

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1501C12

ANALYTICAL QC SUMMARY REPORT

BatchID: 201906

Sample ID: LCS-201906	Client ID:	Units: ug/L	Prep Date: 01/19/2015	Run No: 283934							
SampleType: LCS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 201906	Analysis Date: 01/19/2015	Seq No: 6018918							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	63.13	5.0	50.00		126	64.2	137				
Benzene	52.30	5.0	50.00		105	72.8	128				
Chlorobenzene	48.55	5.0	50.00		97.1	72.3	126				
Toluene	53.26	5.0	50.00		107	74.9	127				
Trichloroethene	56.88	5.0	50.00		114	70.5	134				
Surr: 4-Bromofluorobenzene	46.15	0	50.00		92.3	70.6	123				
Surr: Dibromofluoromethane	50.81	0	50.00		102	78.7	124				
Surr: Toluene-d8	48.77	0	50.00		97.5	81.3	120				

Sample ID: 1501D52-002AMS	Client ID:	Units: ug/L	Prep Date: 01/19/2015	Run No: 284066							
SampleType: MS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 201906	Analysis Date: 01/21/2015	Seq No: 6022808							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	66.40	5.0	50.00		133	60.5	156				
Benzene	62.55	5.0	50.00		125	70	135				
Chlorobenzene	57.05	5.0	50.00		114	70.5	132				
Toluene	54.44	5.0	50.00		109	70.5	137				
Trichloroethene	65.14	5.0	50.00		130	71.8	139				
Surr: 4-Bromofluorobenzene	44.72	0	50.00		89.4	70.6	123				
Surr: Dibromofluoromethane	51.47	0	50.00		103	78.7	124				
Surr: Toluene-d8	45.34	0	50.00		90.7	81.3	120				

Sample ID: 1501D52-002AMSD	Client ID:	Units: ug/L	Prep Date: 01/19/2015	Run No: 284066							
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 201906	Analysis Date: 01/21/2015	Seq No: 6022809							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	62.57	5.0	50.00		125	60.5	156	66.40	5.94	20	
Benzene	62.39	5.0	50.00		125	70	135	62.55	0.256	20	

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1501C12

ANALYTICAL QC SUMMARY REPORT

BatchID: 201906

Sample ID: 1501D52-002AMSD	Client ID:	Units: ug/L	Prep Date: 01/19/2015	Run No: 284066
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 201906	Analysis Date: 01/21/2015	Seq No: 6022809

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorobenzene	56.78	5.0	50.00		114	70.5	132	57.05	0.474	20	
Toluene	51.41	5.0	50.00		103	70.5	137	54.44	5.73	20	
Trichloroethene	64.97	5.0	50.00		130	71.8	139	65.14	0.261	20	
Surr: 4-Bromofluorobenzene	45.36	0	50.00		90.7	70.6	123	44.72	0	0	
Surr: Dibromofluoromethane	52.13	0	50.00		104	78.7	124	51.47	0	0	
Surr: Toluene-d8	46.32	0	50.00		92.6	81.3	120	45.34	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1501C12

ANALYTICAL QC SUMMARY REPORT

BatchID: 201992

Sample ID: MB-201992	Client ID:	Units: ug/L	Prep Date: 01/21/2015	Run No: 284163							
SampleType: MBLK	TestCode: GC Analysis of Gaseous Samples SOP-RSK 175	BatchID: 201992	Analysis Date: 01/22/2015	Seq No: 6024893							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethane	BRL	9									
Ethylene	BRL	7									
Methane	BRL	4									

Sample ID: LCS-201992	Client ID:	Units: ug/L	Prep Date: 01/21/2015	Run No: 284163							
SampleType: LCS	TestCode: GC Analysis of Gaseous Samples SOP-RSK 175	BatchID: 201992	Analysis Date: 01/22/2015	Seq No: 6024894							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethane	101.1	9	200.0		50.6	41.2	115				
Ethylene	68.45	7	200.0		34.2	26.5	115				
Methane	116.2	4	200.0		58.1	45.1	115				

Sample ID: LCSD-201992	Client ID:	Units: ug/L	Prep Date: 01/21/2015	Run No: 284163							
SampleType: LCSD	TestCode: GC Analysis of Gaseous Samples SOP-RSK 175	BatchID: 201992	Analysis Date: 01/22/2015	Seq No: 6024896							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethane	105.0	9	200.0		52.5	41.2	115	101.1	3.73	20	
Ethylene	71.05	7	200.0		35.5	26.5	115	68.45	3.73	20	
Methane	122.6	4	200.0		61.3	45.1	115	116.2	5.38	20	

Sample ID: 1501997-002BMS	Client ID:	Units: ug/L	Prep Date: 01/21/2015	Run No: 284163							
SampleType: MS	TestCode: GC Analysis of Gaseous Samples SOP-RSK 175	BatchID: 201992	Analysis Date: 01/22/2015	Seq No: 6024915							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethane	103.8	9	200.0		51.9	40.5	115				
Ethylene	70.52	7	200.0		35.3	25.1	115				
Methane	119.1	4	200.0		59.6	40.4	115				

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
BRL	Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S Spike Recovery outside limits due to matrix	

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1501C12

ANALYTICAL QC SUMMARY REPORT

BatchID: 201992

Sample ID: 1501G37-002BMS	Client ID:	Units: ug/L	Prep Date: 01/21/2015	Run No: 284163							
SampleType: MS	TestCode: GC Analysis of Gaseous Samples SOP-RSK 175	BatchID: 201992	Analysis Date: 01/22/2015	Seq No: 6024918							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethane	106.6	9	200.0		53.3	40.5	115				
Ethylene	70.97	7	200.0		35.5	25.1	115				
Methane	130.3	4	200.0	5.957	62.2	40.4	115				

Sample ID: 1501997-002BMSD	Client ID:	Units: ug/L	Prep Date: 01/21/2015	Run No: 284163							
SampleType: MSD	TestCode: GC Analysis of Gaseous Samples SOP-RSK 175	BatchID: 201992	Analysis Date: 01/22/2015	Seq No: 6024916							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethane	107.5	9	200.0		53.7	40.5	115	103.8	3.54	20	
Ethylene	73.25	7	200.0		36.6	25.1	115	70.52	3.79	20	
Methane	123.7	4	200.0		61.9	40.4	115	119.1	3.77	20	

Sample ID: 1501G37-002BMSD	Client ID:	Units: ug/L	Prep Date: 01/21/2015	Run No: 284163							
SampleType: MSD	TestCode: GC Analysis of Gaseous Samples SOP-RSK 175	BatchID: 201992	Analysis Date: 01/22/2015	Seq No: 6024919							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethane	109.0	9	200.0		54.5	40.5	115	106.6	2.16	20	
Ethylene	72.70	7	200.0		36.4	25.1	115	70.97	2.42	20	
Methane	131.6	4	200.0	5.957	62.8	40.4	115	130.3	0.943	20	

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1501C12

ANALYTICAL QC SUMMARY REPORT

BatchID: 202011

Sample ID: MB-202011	Client ID:	Units: mg/L	Prep Date: 01/21/2015	Run No: 284087							
SampleType: MBLK	TestCode: Sulfide by SW9030B/9034	BatchID: 202011	Analysis Date: 01/21/2015	Seq No: 6022771							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Sulfide BRL 2.00

Sample ID: LCS-202011	Client ID:	Units: mg/L	Prep Date: 01/21/2015	Run No: 284087							
SampleType: LCS	TestCode: Sulfide by SW9030B/9034	BatchID: 202011	Analysis Date: 01/21/2015	Seq No: 6022772							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Sulfide 336.0 2.00 336.0 100 40 120

Sample ID: 1501A83-001DMS	Client ID:	Units: mg/L	Prep Date: 01/21/2015	Run No: 284087							
SampleType: MS	TestCode: Sulfide by SW9030B/9034	BatchID: 202011	Analysis Date: 01/21/2015	Seq No: 6022790							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Sulfide 16.20 2.00 16.80 96.4 73.7 120

Sample ID: 1501A83-001DMSD	Client ID:	Units: mg/L	Prep Date: 01/21/2015	Run No: 284087							
SampleType: MSD	TestCode: Sulfide by SW9030B/9034	BatchID: 202011	Analysis Date: 01/21/2015	Seq No: 6022791							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Sulfide 16.60 2.00 16.80 98.8 73.7 120 16.20 2.44 20

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1501C12

ANALYTICAL QC SUMMARY REPORT

BatchID: R284060

Sample ID: MB-R284060	Client ID:	Units: mg/L	Prep Date:	Run No: 284060							
SampleType: MBLK	TestCode: ION SCAN SW9056A	BatchID: R284060	Analysis Date: 01/16/2015	Seq No: 6022189							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride	BRL	1.0									
Nitrate	BRL	0.25									
Sulfate	BRL	1.0									

Sample ID: LCS-R284060	Client ID:	Units: mg/L	Prep Date:	Run No: 284060							
SampleType: LCS	TestCode: ION SCAN SW9056A	BatchID: R284060	Analysis Date: 01/16/2015	Seq No: 6022188							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride	9.009	1.0	10.00		90.1	90	110				
Nitrate	4.603	0.25	5.000		92.1	90	110				
Sulfate	23.30	1.0	25.00		93.2	90	110				

Sample ID: 1501744-001CMS	Client ID:	Units: mg/L	Prep Date:	Run No: 284060							
SampleType: MS	TestCode: ION SCAN SW9056A	BatchID: R284060	Analysis Date: 01/16/2015	Seq No: 6022197							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride	14.38	1.0	10.00	6.111	82.7	90	110				S
Nitrate	4.510	0.25	5.000		90.2	90	110				H
Sulfate	39.29	1.0	25.00	17.05	89.0	90	110				S

Sample ID: 1501981-003CMS	Client ID:	Units: mg/L	Prep Date:	Run No: 284060							
SampleType: MS	TestCode: ION SCAN SW9056A	BatchID: R284060	Analysis Date: 01/17/2015	Seq No: 6022204							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride	15.64	1.0	10.00	6.686	89.6	90	110				S
Nitrate	4.712	0.25	5.000	0.2675	88.9	90	110				SH
Sulfate	29.50	1.0	25.00	5.681	95.3	90	110				

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: EarthCon Consultants, Inc.
 Project Name: Apollo Smyrna
 Workorder: 1501C12

ANALYTICAL QC SUMMARY REPORT

BatchID: R284060

Sample ID: 1501744-001CMSD	Client ID:	Units: mg/L	Prep Date:	Run No: 284060							
SampleType: MSD	TestCode: ION SCAN SW9056A	BatchID: R284060	Analysis Date: 01/16/2015	Seq No: 6022198							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride	13.48	1.0	10.00	6.111	73.7	90	110	14.38	6.47	20	S
Nitrate	4.194	0.25	5.000		83.9	90	110	4.510	7.27	20	SH
Sulfate	37.19	1.0	25.00	17.05	80.6	90	110	39.29	5.49	20	S

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1501C12

ANALYTICAL QC SUMMARY REPORT

BatchID: R284158

Sample ID: MB-R284158	Client ID:	Units: mg/L	Prep Date:	Run No: 284158							
SampleType: MBLK	TestCode: Total Organic Carbon (TOC) SW9060A	BatchID: R284158	Analysis Date: 01/21/2015	Seq No: 6024462							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Organic Carbon, Total

BRL 1.00

Sample ID: LCS-R284158	Client ID:	Units: mg/L	Prep Date:	Run No: 284158							
SampleType: LCS	TestCode: Total Organic Carbon (TOC) SW9060A	BatchID: R284158	Analysis Date: 01/21/2015	Seq No: 6024461							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Organic Carbon, Total

25.49 1.00 25.00 102 90 110

Sample ID: 1501997-002CMS	Client ID:	Units: mg/L	Prep Date:	Run No: 284158							
SampleType: MS	TestCode: Total Organic Carbon (TOC) SW9060A	BatchID: R284158	Analysis Date: 01/21/2015	Seq No: 6024467							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Organic Carbon, Total

38.42 1.00 25.00 11.42 108 80 120

Sample ID: 1501997-002CMSD	Client ID:	Units: mg/L	Prep Date:	Run No: 284158							
SampleType: MSD	TestCode: Total Organic Carbon (TOC) SW9060A	BatchID: R284158	Analysis Date: 01/21/2015	Seq No: 6024468							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Organic Carbon, Total

34.96 1.00 25.00 11.42 94.2 80 120 38.42 9.43 20

Qualifiers:
 > Greater than Result value
 BRL Below reporting limit
 J Estimated value detected below Reporting Limit
 Rpt Lim Reporting Limit

< Less than Result value
 E Estimated (value above quantitation range)
 N Analyte not NELAC certified
 S Spike Recovery outside limits due to matrix

B Analyte detected in the associated method blank
 H Holding times for preparation or analysis exceeded
 R RPD outside limits due to matrix

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1501C12

ANALYTICAL QC SUMMARY REPORT

BatchID: R284281

Sample ID: MB-R284281	Client ID:	Units: mg/L	Prep Date:	Run No: 284281							
SampleType: MBLK	TestCode: Alkalinity by SM2320B	BatchID: R284281	Analysis Date: 01/23/2015	Seq No: 6026885							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Alkalinity, Total (As CaCO3)

BRL 3.00

Sample ID: LCS-R284281	Client ID:	Units: mg/L	Prep Date:	Run No: 284281							
SampleType: LCS	TestCode: Alkalinity by SM2320B	BatchID: R284281	Analysis Date: 01/23/2015	Seq No: 6026886							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Alkalinity, Total (As CaCO3)

128.0 3.00 125.0 102 75 125

Sample ID: 1501C12-001EDUP	Client ID: DW-1	Units: mg/L	Prep Date:	Run No: 284281							
SampleType: DUP	TestCode: Alkalinity by SM2320B	BatchID: R284281	Analysis Date: 01/23/2015	Seq No: 6026896							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Alkalinity, Total (As CaCO3)

129.0 3.00 128.0 0.778 30

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
	BRL Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
	J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
	Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

January 27, 2015

Kristen Rivera
EarthCon Consultants, Inc.
1880 West Oak Parkway
Marietta GA 30062

TEL: (770) 973-2100
FAX: (770) 973-7395

RE: Apollo Smyrna

Dear Kristen Rivera:

Order No: 1501997

Analytical Environmental Services, Inc. received 3 samples on 1/17/2015 9:35:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/14-06/30/15.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/15.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Chantelle Kanhai
Project Manager

Analytical Environmental Services, Inc

Date: 27-Jan-15

Client: EarthCon Consultants, Inc.	Client Sample ID: RW-1
Project Name: Apollo Smyrna	Collection Date: 1/16/2015 3:54:00 PM
Lab ID: 1501997-001	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) SW9060A								
Organic Carbon, Total	39.6	1.00		mg/L	R284158	1	01/21/2015 13:30	YS
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	180	5.0		ug/L	201867	1	01/21/2015 03:32	GC
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	201867	1	01/21/2015 03:32	GC
1,1,2-Trichloroethane	BRL	5.0		ug/L	201867	1	01/21/2015 03:32	GC
1,1-Dichloroethane	470	50		ug/L	201867	10	01/20/2015 04:35	GC
1,1-Dichloroethene	870	50		ug/L	201867	10	01/20/2015 04:35	GC
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	201867	1	01/21/2015 03:32	GC
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	201867	1	01/21/2015 03:32	GC
1,2-Dibromoethane	BRL	5.0		ug/L	201867	1	01/21/2015 03:32	GC
1,2-Dichlorobenzene	BRL	5.0		ug/L	201867	1	01/21/2015 03:32	GC
1,2-Dichloroethane	8.6	5.0		ug/L	201867	1	01/21/2015 03:32	GC
1,2-Dichloropropane	BRL	5.0		ug/L	201867	1	01/21/2015 03:32	GC
1,3-Dichlorobenzene	BRL	5.0		ug/L	201867	1	01/21/2015 03:32	GC
1,4-Dichlorobenzene	BRL	5.0		ug/L	201867	1	01/21/2015 03:32	GC
2-Butanone	BRL	50		ug/L	201867	1	01/21/2015 03:32	GC
2-Hexanone	BRL	10		ug/L	201867	1	01/21/2015 03:32	GC
4-Methyl-2-pentanone	BRL	10		ug/L	201867	1	01/21/2015 03:32	GC
Acetone	4500	1000		ug/L	201867	20	01/20/2015 15:37	GC
Benzene	BRL	5.0		ug/L	201867	1	01/21/2015 03:32	GC
Bromodichloromethane	BRL	5.0		ug/L	201867	1	01/21/2015 03:32	GC
Bromoform	BRL	5.0		ug/L	201867	1	01/21/2015 03:32	GC
Bromomethane	BRL	5.0		ug/L	201867	1	01/21/2015 03:32	GC
Carbon disulfide	BRL	5.0		ug/L	201867	1	01/21/2015 03:32	GC
Carbon tetrachloride	BRL	5.0		ug/L	201867	1	01/21/2015 03:32	GC
Chlorobenzene	BRL	5.0		ug/L	201867	1	01/21/2015 03:32	GC
Chloroethane	890	100		ug/L	201867	10	01/20/2015 04:35	GC
Chloroform	BRL	5.0		ug/L	201867	1	01/21/2015 03:32	GC
Chloromethane	BRL	10		ug/L	201867	1	01/21/2015 03:32	GC
cis-1,2-Dichloroethene	110	5.0		ug/L	201867	1	01/21/2015 03:32	GC
cis-1,3-Dichloropropene	BRL	5.0		ug/L	201867	1	01/21/2015 03:32	GC
Cyclohexane	20	5.0		ug/L	201867	1	01/21/2015 03:32	GC
Dibromochloromethane	BRL	5.0		ug/L	201867	1	01/21/2015 03:32	GC
Dichlorodifluoromethane	BRL	10		ug/L	201867	1	01/21/2015 03:32	GC
Ethylbenzene	8.6	5.0		ug/L	201867	1	01/21/2015 03:32	GC
Freon-113	BRL	10		ug/L	201867	1	01/21/2015 03:32	GC
Isopropylbenzene	BRL	5.0		ug/L	201867	1	01/21/2015 03:32	GC
m,p-Xylene	47	5.0		ug/L	201867	1	01/21/2015 03:32	GC
Methyl acetate	BRL	5.0		ug/L	201867	1	01/21/2015 03:32	GC
Methyl tert-butyl ether	BRL	5.0		ug/L	201867	1	01/21/2015 03:32	GC

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: EarthCon Consultants, Inc.	Client Sample ID: RW-1
Project Name: Apollo Smyrna	Collection Date: 1/16/2015 3:54:00 PM
Lab ID: 1501997-001	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B			(SW5030B)					
Methylcyclohexane	BRL	5.0		ug/L	201867	1	01/21/2015 03:32	GC
Methylene chloride	18	5.0		ug/L	201867	1	01/21/2015 03:32	GC
o-Xylene	61	5.0		ug/L	201867	1	01/21/2015 03:32	GC
Styrene	BRL	5.0		ug/L	201867	1	01/21/2015 03:32	GC
Tetrachloroethene	23	5.0		ug/L	201867	1	01/21/2015 03:32	GC
Toluene	400	50		ug/L	201867	10	01/20/2015 04:35	GC
trans-1,2-Dichloroethene	BRL	5.0		ug/L	201867	1	01/21/2015 03:32	GC
trans-1,3-Dichloropropene	BRL	5.0		ug/L	201867	1	01/21/2015 03:32	GC
Trichloroethene	31	5.0		ug/L	201867	1	01/21/2015 03:32	GC
Trichlorofluoromethane	BRL	5.0		ug/L	201867	1	01/21/2015 03:32	GC
Vinyl chloride	350	40		ug/L	201867	20	01/20/2015 15:37	GC
Surr: 4-Bromofluorobenzene	94.7	70.6-123		%REC	201867	10	01/20/2015 04:35	GC
Surr: 4-Bromofluorobenzene	100	70.6-123		%REC	201867	1	01/21/2015 03:32	GC
Surr: 4-Bromofluorobenzene	93.1	70.6-123		%REC	201867	20	01/20/2015 15:37	GC
Surr: Dibromofluoromethane	106	78.7-124		%REC	201867	20	01/20/2015 15:37	GC
Surr: Dibromofluoromethane	108	78.7-124		%REC	201867	1	01/21/2015 03:32	GC
Surr: Dibromofluoromethane	106	78.7-124		%REC	201867	10	01/20/2015 04:35	GC
Surr: Toluene-d8	100	81.3-120		%REC	201867	1	01/21/2015 03:32	GC
Surr: Toluene-d8	101	81.3-120		%REC	201867	10	01/20/2015 04:35	GC
Surr: Toluene-d8	98.9	81.3-120		%REC	201867	20	01/20/2015 15:37	GC
Sulfide by SW9030B/9034			(SW9030B)					
Sulfide	BRL	2.00		mg/L	202011	1	01/21/2015 10:40	AB
GC Analysis of Gaseous Samples SOP-RSK 175			(RSK175)					
Ethane	200	9		ug/L	201992	1	01/22/2015 13:31	JM
Ethylene	570	14		ug/L	201992	2	01/22/2015 14:14	JM
Methane	4500	400		ug/L	201992	100	01/22/2015 13:56	JM
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	280	30.0		mg/L	R284281	10	01/23/2015 09:10	PF

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 27-Jan-15

Client: EarthCon Consultants, Inc.	Client Sample ID: RW-2
Project Name: Apollo Smyrna	Collection Date: 1/16/2015 4:02:00 PM
Lab ID: 1501997-002	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) SW9060A								
Organic Carbon, Total	11.4	1.00		mg/L	R284158	1	01/21/2015 13:55	YS
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	201867	1	01/20/2015 14:47	GC
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	201867	1	01/20/2015 14:47	GC
1,1,2-Trichloroethane	BRL	5.0		ug/L	201867	1	01/20/2015 14:47	GC
1,1-Dichloroethane	BRL	5.0		ug/L	201867	1	01/20/2015 14:47	GC
1,1-Dichloroethene	BRL	5.0		ug/L	201867	1	01/20/2015 14:47	GC
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	201867	1	01/20/2015 14:47	GC
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	201867	1	01/20/2015 14:47	GC
1,2-Dibromoethane	BRL	5.0		ug/L	201867	1	01/20/2015 14:47	GC
1,2-Dichlorobenzene	BRL	5.0		ug/L	201867	1	01/20/2015 14:47	GC
1,2-Dichloroethane	BRL	5.0		ug/L	201867	1	01/20/2015 14:47	GC
1,2-Dichloropropane	BRL	5.0		ug/L	201867	1	01/20/2015 14:47	GC
1,3-Dichlorobenzene	BRL	5.0		ug/L	201867	1	01/20/2015 14:47	GC
1,4-Dichlorobenzene	BRL	5.0		ug/L	201867	1	01/20/2015 14:47	GC
2-Butanone	BRL	50		ug/L	201867	1	01/20/2015 14:47	GC
2-Hexanone	BRL	10		ug/L	201867	1	01/20/2015 14:47	GC
4-Methyl-2-pentanone	BRL	10		ug/L	201867	1	01/20/2015 14:47	GC
Acetone	BRL	50		ug/L	201867	1	01/20/2015 14:47	GC
Benzene	BRL	5.0		ug/L	201867	1	01/20/2015 14:47	GC
Bromodichloromethane	BRL	5.0		ug/L	201867	1	01/20/2015 14:47	GC
Bromoform	BRL	5.0		ug/L	201867	1	01/20/2015 14:47	GC
Bromomethane	BRL	5.0		ug/L	201867	1	01/20/2015 14:47	GC
Carbon disulfide	BRL	5.0		ug/L	201867	1	01/20/2015 14:47	GC
Carbon tetrachloride	BRL	5.0		ug/L	201867	1	01/20/2015 14:47	GC
Chlorobenzene	BRL	5.0		ug/L	201867	1	01/20/2015 14:47	GC
Chloroethane	BRL	10		ug/L	201867	1	01/20/2015 14:47	GC
Chloroform	BRL	5.0		ug/L	201867	1	01/20/2015 14:47	GC
Chloromethane	BRL	10		ug/L	201867	1	01/20/2015 14:47	GC
cis-1,2-Dichloroethene	BRL	5.0		ug/L	201867	1	01/20/2015 14:47	GC
cis-1,3-Dichloropropene	BRL	5.0		ug/L	201867	1	01/20/2015 14:47	GC
Cyclohexane	BRL	5.0		ug/L	201867	1	01/20/2015 14:47	GC
Dibromochloromethane	BRL	5.0		ug/L	201867	1	01/20/2015 14:47	GC
Dichlorodifluoromethane	BRL	10		ug/L	201867	1	01/20/2015 14:47	GC
Ethylbenzene	BRL	5.0		ug/L	201867	1	01/20/2015 14:47	GC
Freon-113	BRL	10		ug/L	201867	1	01/20/2015 14:47	GC
Isopropylbenzene	BRL	5.0		ug/L	201867	1	01/20/2015 14:47	GC
m,p-Xylene	BRL	5.0		ug/L	201867	1	01/20/2015 14:47	GC
Methyl acetate	BRL	5.0		ug/L	201867	1	01/20/2015 14:47	GC
Methyl tert-butyl ether	BRL	5.0		ug/L	201867	1	01/20/2015 14:47	GC

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 27-Jan-15

Client: EarthCon Consultants, Inc.	Client Sample ID: RW-2
Project Name: Apollo Smyrna	Collection Date: 1/16/2015 4:02:00 PM
Lab ID: 1501997-002	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B			(SW5030B)					
Methylcyclohexane	BRL	5.0		ug/L	201867	1	01/20/2015 14:47	GC
Methylene chloride	BRL	5.0		ug/L	201867	1	01/20/2015 14:47	GC
o-Xylene	BRL	5.0		ug/L	201867	1	01/20/2015 14:47	GC
Styrene	BRL	5.0		ug/L	201867	1	01/20/2015 14:47	GC
Tetrachloroethene	BRL	5.0		ug/L	201867	1	01/20/2015 14:47	GC
Toluene	BRL	5.0		ug/L	201867	1	01/20/2015 14:47	GC
trans-1,2-Dichloroethene	BRL	5.0		ug/L	201867	1	01/20/2015 14:47	GC
trans-1,3-Dichloropropene	BRL	5.0		ug/L	201867	1	01/20/2015 14:47	GC
Trichloroethene	BRL	5.0		ug/L	201867	1	01/20/2015 14:47	GC
Trichlorofluoromethane	BRL	5.0		ug/L	201867	1	01/20/2015 14:47	GC
Vinyl chloride	BRL	2.0		ug/L	201867	1	01/20/2015 14:47	GC
Surr: 4-Bromofluorobenzene	90.8	70.6-123		%REC	201867	1	01/20/2015 14:47	GC
Surr: Dibromofluoromethane	105	78.7-124		%REC	201867	1	01/20/2015 14:47	GC
Surr: Toluene-d8	99	81.3-120		%REC	201867	1	01/20/2015 14:47	GC
Sulfide by SW9030B/9034			(SW9030B)					
Sulfide	BRL	2.00		mg/L	202011	1	01/21/2015 10:40	AB
GC Analysis of Gaseous Samples SOP-RSK 175			(RSK175)					
Ethane	BRL	9		ug/L	201992	1	01/22/2015 13:38	JM
Ethylene	BRL	7		ug/L	201992	1	01/22/2015 13:38	JM
Methane	BRL	4		ug/L	201992	1	01/22/2015 13:38	JM
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	150	30.0		mg/L	R284281	10	01/23/2015 09:10	PF

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: EarthCon Consultants, Inc.	Client Sample ID: TRIP BLANK
Project Name: Apollo Smyrna	Collection Date: 1/17/2015
Lab ID: 1501997-003	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	201867	1	01/19/2015 19:33	GC
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	201867	1	01/19/2015 19:33	GC
1,1,2-Trichloroethane	BRL	5.0		ug/L	201867	1	01/19/2015 19:33	GC
1,1-Dichloroethane	BRL	5.0		ug/L	201867	1	01/19/2015 19:33	GC
1,1-Dichloroethene	BRL	5.0		ug/L	201867	1	01/19/2015 19:33	GC
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	201867	1	01/19/2015 19:33	GC
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	201867	1	01/19/2015 19:33	GC
1,2-Dibromoethane	BRL	5.0		ug/L	201867	1	01/19/2015 19:33	GC
1,2-Dichlorobenzene	BRL	5.0		ug/L	201867	1	01/19/2015 19:33	GC
1,2-Dichloroethane	BRL	5.0		ug/L	201867	1	01/19/2015 19:33	GC
1,2-Dichloropropane	BRL	5.0		ug/L	201867	1	01/19/2015 19:33	GC
1,3-Dichlorobenzene	BRL	5.0		ug/L	201867	1	01/19/2015 19:33	GC
1,4-Dichlorobenzene	BRL	5.0		ug/L	201867	1	01/19/2015 19:33	GC
2-Butanone	BRL	50		ug/L	201867	1	01/19/2015 19:33	GC
2-Hexanone	BRL	10		ug/L	201867	1	01/19/2015 19:33	GC
4-Methyl-2-pentanone	BRL	10		ug/L	201867	1	01/19/2015 19:33	GC
Acetone	BRL	50		ug/L	201867	1	01/19/2015 19:33	GC
Benzene	BRL	5.0		ug/L	201867	1	01/19/2015 19:33	GC
Bromodichloromethane	BRL	5.0		ug/L	201867	1	01/19/2015 19:33	GC
Bromoform	BRL	5.0		ug/L	201867	1	01/19/2015 19:33	GC
Bromomethane	BRL	5.0		ug/L	201867	1	01/19/2015 19:33	GC
Carbon disulfide	BRL	5.0		ug/L	201867	1	01/19/2015 19:33	GC
Carbon tetrachloride	BRL	5.0		ug/L	201867	1	01/19/2015 19:33	GC
Chlorobenzene	BRL	5.0		ug/L	201867	1	01/19/2015 19:33	GC
Chloroethane	BRL	10		ug/L	201867	1	01/19/2015 19:33	GC
Chloroform	BRL	5.0		ug/L	201867	1	01/19/2015 19:33	GC
Chloromethane	BRL	10		ug/L	201867	1	01/19/2015 19:33	GC
cis-1,2-Dichloroethene	BRL	5.0		ug/L	201867	1	01/19/2015 19:33	GC
cis-1,3-Dichloropropene	BRL	5.0		ug/L	201867	1	01/19/2015 19:33	GC
Cyclohexane	BRL	5.0		ug/L	201867	1	01/19/2015 19:33	GC
Dibromochloromethane	BRL	5.0		ug/L	201867	1	01/19/2015 19:33	GC
Dichlorodifluoromethane	BRL	10		ug/L	201867	1	01/19/2015 19:33	GC
Ethylbenzene	BRL	5.0		ug/L	201867	1	01/19/2015 19:33	GC
Freon-113	BRL	10		ug/L	201867	1	01/19/2015 19:33	GC
Isopropylbenzene	BRL	5.0		ug/L	201867	1	01/19/2015 19:33	GC
m,p-Xylene	BRL	5.0		ug/L	201867	1	01/19/2015 19:33	GC
Methyl acetate	BRL	5.0		ug/L	201867	1	01/19/2015 19:33	GC
Methyl tert-butyl ether	BRL	5.0		ug/L	201867	1	01/19/2015 19:33	GC
Methylcyclohexane	BRL	5.0		ug/L	201867	1	01/19/2015 19:33	GC
Methylene chloride	BRL	5.0		ug/L	201867	1	01/19/2015 19:33	GC
o-Xylene	BRL	5.0		ug/L	201867	1	01/19/2015 19:33	GC

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: EarthCon Consultants, Inc.	Client Sample ID: TRIP BLANK
Project Name: Apollo Smyrna	Collection Date: 1/17/2015
Lab ID: 1501997-003	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	201867	1	01/19/2015 19:33	GC
Tetrachloroethene	BRL	5.0		ug/L	201867	1	01/19/2015 19:33	GC
Toluene	BRL	5.0		ug/L	201867	1	01/19/2015 19:33	GC
trans-1,2-Dichloroethene	BRL	5.0		ug/L	201867	1	01/19/2015 19:33	GC
trans-1,3-Dichloropropene	BRL	5.0		ug/L	201867	1	01/19/2015 19:33	GC
Trichloroethene	BRL	5.0		ug/L	201867	1	01/19/2015 19:33	GC
Trichlorofluoromethane	BRL	5.0		ug/L	201867	1	01/19/2015 19:33	GC
Vinyl chloride	BRL	2.0		ug/L	201867	1	01/19/2015 19:33	GC
Surr: 4-Bromofluorobenzene	92.7	70.6-123		%REC	201867	1	01/19/2015 19:33	GC
Surr: Dibromofluoromethane	104	78.7-124		%REC	201867	1	01/19/2015 19:33	GC
Surr: Toluene-d8	97.7	81.3-120		%REC	201867	1	01/19/2015 19:33	GC

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Earthcon

Work Order Number 1501997

Checklist completed by [Signature] 11/17/15
Signature Date

Carrier name: FedEx UPS Courier Client US Mail Other

Shipping container/cooler in good condition? Yes No Not Present

Custody seals intact on shipping container/cooler? Yes No Not Present

Custody seals intact on sample bottles? Yes No Not Present

Container/Temp Blank temperature in compliance? (0°≤6°C)* Yes No

Cooler #1 3.4°C Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Chain of custody present? Yes No

Chain of custody signed when relinquished and received? Yes No

Chain of custody agrees with sample labels? Yes No

Samples in proper container/bottle? Yes No

Sample containers intact? Yes No

Sufficient sample volume for indicated test? Yes No

All samples received within holding time? Yes No

Was TAT marked on the COC? Yes No

Proceed with Standard TAT as per project history? Yes No Not Applicable

Water - VOA vials have zero headspace? No VOA vials submitted Yes No

Water - pH acceptable upon receipt? Yes No Not Applicable

Adjusted? _____ Checked by [Signature]

Sample Condition: Good Other(Explain) _____

(For diffusive samples or AIHA lead) Is a known blank included? Yes No

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1501997

ANALYTICAL QC SUMMARY REPORT

BatchID: 201867

Sample ID: MB-201867	Client ID:	Units: ug/L	Prep Date: 01/19/2015	Run No: 283847							
Sample Type: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 201867	Analysis Date: 01/19/2015	Seq No: 6017143							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,2,4-Trichlorobenzene	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dibromoethane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,3-Dichlorobenzene	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
2-Butanone	BRL	50									
2-Hexanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	50									
Benzene	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Bromoform	BRL	5.0									
Bromomethane	BRL	5.0									
Carbon disulfide	BRL	5.0									
Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									
Chloroform	BRL	5.0									
Chloromethane	BRL	10									

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1501997

ANALYTICAL QC SUMMARY REPORT

BatchID: 201867

Sample ID: MB-201867	Client ID:	Units: ug/L	Prep Date: 01/19/2015	Run No: 283847							
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 201867	Analysis Date: 01/19/2015	Seq No: 6017143							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Freon-113	BRL	10									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	5.0									
Methyl acetate	BRL	5.0									
Methyl tert-butyl ether	BRL	5.0									
Methylcyclohexane	BRL	5.0									
Methylene chloride	BRL	5.0									
o-Xylene	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	2.0									
Surr: 4-Bromofluorobenzene	47.18	0	50.00		94.4	70.6	123				
Surr: Dibromofluoromethane	51.32	0	50.00		103	78.7	124				
Surr: Toluene-d8	48.33	0	50.00		96.7	81.3	120				

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1501997

ANALYTICAL QC SUMMARY REPORT

BatchID: 201867

Sample ID: LCS-201867	Client ID:	Units: ug/L	Prep Date: 01/19/2015	Run No: 283847							
SampleType: LCS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 201867	Analysis Date: 01/19/2015	Seq No: 6017149							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	59.52	5.0	50.00		119	64.2	137				
Benzene	53.22	5.0	50.00		106	72.8	128				
Chlorobenzene	48.91	5.0	50.00		97.8	72.3	126				
Toluene	54.39	5.0	50.00		109	74.9	127				
Trichloroethene	56.14	5.0	50.00		112	70.5	134				
Surr: 4-Bromofluorobenzene	46.23	0	50.00		92.5	70.6	123				
Surr: Dibromofluoromethane	51.41	0	50.00		103	78.7	124				
Surr: Toluene-d8	49.40	0	50.00		98.8	81.3	120				

Sample ID: 1501991-003AMS	Client ID:	Units: ug/L	Prep Date: 01/19/2015	Run No: 283968							
SampleType: MS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 201867	Analysis Date: 01/20/2015	Seq No: 6020549							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	73.90	5.0	50.00		148	60.5	156				
Benzene	60.16	5.0	50.00		120	70	135				
Chlorobenzene	55.10	5.0	50.00		110	70.5	132				
Toluene	61.59	5.0	50.00		123	70.5	137				
Trichloroethene	65.48	5.0	50.00		131	71.8	139				
Surr: 4-Bromofluorobenzene	45.52	0	50.00		91.0	70.6	123				
Surr: Dibromofluoromethane	52.13	0	50.00		104	78.7	124				
Surr: Toluene-d8	48.88	0	50.00		97.8	81.3	120				

Sample ID: 1501991-003AMSD	Client ID:	Units: ug/L	Prep Date: 01/19/2015	Run No: 283968							
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 201867	Analysis Date: 01/20/2015	Seq No: 6020550							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	73.55	5.0	50.00		147	60.5	156	73.90	0.475	20	
Benzene	60.34	5.0	50.00		121	70	135	60.16	0.299	20	

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1501997

ANALYTICAL QC SUMMARY REPORT

BatchID: 201867

Sample ID: 1501991-003AMSD	Client ID:	Units: ug/L	Prep Date: 01/19/2015	Run No: 283968							
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 201867	Analysis Date: 01/20/2015	Seq No: 6020550							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chlorobenzene	54.92	5.0	50.00		110	70.5	132	55.10	0.327	20	
Toluene	62.41	5.0	50.00		125	70.5	137	61.59	1.32	20	
Trichloroethene	65.43	5.0	50.00		131	71.8	139	65.48	0.076	20	
Surr: 4-Bromofluorobenzene	46.73	0	50.00		93.5	70.6	123	45.52	0	0	
Surr: Dibromofluoromethane	51.30	0	50.00		103	78.7	124	52.13	0	0	
Surr: Toluene-d8	49.50	0	50.00		99.0	81.3	120	48.88	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1501997

ANALYTICAL QC SUMMARY REPORT

BatchID: 201992

Sample ID: MB-201992	Client ID:	Units: ug/L	Prep Date: 01/21/2015	Run No: 284163							
SampleType: MBLK	TestCode: GC Analysis of Gaseous Samples SOP-RSK 175	BatchID: 201992	Analysis Date: 01/22/2015	Seq No: 6024893							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethane	BRL	9									
Ethylene	BRL	7									
Methane	BRL	4									

Sample ID: LCS-201992	Client ID:	Units: ug/L	Prep Date: 01/21/2015	Run No: 284163							
SampleType: LCS	TestCode: GC Analysis of Gaseous Samples SOP-RSK 175	BatchID: 201992	Analysis Date: 01/22/2015	Seq No: 6024894							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethane	101.1	9	200.0		50.6	41.2	115				
Ethylene	68.45	7	200.0		34.2	26.5	115				
Methane	116.2	4	200.0		58.1	45.1	115				

Sample ID: LCSD-201992	Client ID:	Units: ug/L	Prep Date: 01/21/2015	Run No: 284163							
SampleType: LCSD	TestCode: GC Analysis of Gaseous Samples SOP-RSK 175	BatchID: 201992	Analysis Date: 01/22/2015	Seq No: 6024896							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethane	105.0	9	200.0		52.5	41.2	115	101.1	3.73	20	
Ethylene	71.05	7	200.0		35.5	26.5	115	68.45	3.73	20	
Methane	122.6	4	200.0		61.3	45.1	115	116.2	5.38	20	

Sample ID: 1501997-002BMS	Client ID: RW-2	Units: ug/L	Prep Date: 01/21/2015	Run No: 284163							
SampleType: MS	TestCode: GC Analysis of Gaseous Samples SOP-RSK 175	BatchID: 201992	Analysis Date: 01/22/2015	Seq No: 6024915							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethane	103.8	9	200.0		51.9	40.5	115				
Ethylene	70.52	7	200.0		35.3	25.1	115				
Methane	119.1	4	200.0		59.6	40.4	115				

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1501997

ANALYTICAL QC SUMMARY REPORT

BatchID: 201992

Sample ID: 1501G37-002BMS	Client ID:	Units: ug/L	Prep Date: 01/21/2015	Run No: 284163							
SampleType: MS	TestCode: GC Analysis of Gaseous Samples SOP-RSK 175	BatchID: 201992	Analysis Date: 01/22/2015	Seq No: 6024918							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethane	106.6	9	200.0		53.3	40.5	115				
Ethylene	70.97	7	200.0		35.5	25.1	115				
Methane	130.3	4	200.0	5.957	62.2	40.4	115				

Sample ID: 1501997-002BMSD	Client ID: RW-2	Units: ug/L	Prep Date: 01/21/2015	Run No: 284163							
SampleType: MSD	TestCode: GC Analysis of Gaseous Samples SOP-RSK 175	BatchID: 201992	Analysis Date: 01/22/2015	Seq No: 6024916							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethane	107.5	9	200.0		53.7	40.5	115	103.8	3.54	20	
Ethylene	73.25	7	200.0		36.6	25.1	115	70.52	3.79	20	
Methane	123.7	4	200.0		61.9	40.4	115	119.1	3.77	20	

Sample ID: 1501G37-002BMSD	Client ID:	Units: ug/L	Prep Date: 01/21/2015	Run No: 284163							
SampleType: MSD	TestCode: GC Analysis of Gaseous Samples SOP-RSK 175	BatchID: 201992	Analysis Date: 01/22/2015	Seq No: 6024919							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethane	109.0	9	200.0		54.5	40.5	115	106.6	2.16	20	
Ethylene	72.70	7	200.0		36.4	25.1	115	70.97	2.42	20	
Methane	131.6	4	200.0	5.957	62.8	40.4	115	130.3	0.943	20	

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1501997

ANALYTICAL QC SUMMARY REPORT

BatchID: 202011

Sample ID: MB-202011	Client ID:	Units: mg/L	Prep Date: 01/21/2015	Run No: 284087							
SampleType: MBLK	TestCode: Sulfide by SW9030B/9034	BatchID: 202011	Analysis Date: 01/21/2015	Seq No: 6022771							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Sulfide BRL 2.00

Sample ID: LCS-202011	Client ID:	Units: mg/L	Prep Date: 01/21/2015	Run No: 284087							
SampleType: LCS	TestCode: Sulfide by SW9030B/9034	BatchID: 202011	Analysis Date: 01/21/2015	Seq No: 6022772							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Sulfide 336.0 2.00 336.0 100 40 120

Sample ID: 1501A83-001DMS	Client ID:	Units: mg/L	Prep Date: 01/21/2015	Run No: 284087							
SampleType: MS	TestCode: Sulfide by SW9030B/9034	BatchID: 202011	Analysis Date: 01/21/2015	Seq No: 6022790							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Sulfide 16.20 2.00 16.80 96.4 73.7 120

Sample ID: 1501A83-001DMSD	Client ID:	Units: mg/L	Prep Date: 01/21/2015	Run No: 284087							
SampleType: MSD	TestCode: Sulfide by SW9030B/9034	BatchID: 202011	Analysis Date: 01/21/2015	Seq No: 6022791							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Sulfide 16.60 2.00 16.80 98.8 73.7 120 16.20 2.44 20

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1501997

ANALYTICAL QC SUMMARY REPORT

BatchID: R284158

Sample ID: MB-R284158	Client ID:	Units: mg/L	Prep Date:	Run No: 284158							
SampleType: MBLK	TestCode: Total Organic Carbon (TOC) SW9060A	BatchID: R284158	Analysis Date: 01/21/2015	Seq No: 6024462							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Organic Carbon, Total

BRL 1.00

Sample ID: LCS-R284158	Client ID:	Units: mg/L	Prep Date:	Run No: 284158							
SampleType: LCS	TestCode: Total Organic Carbon (TOC) SW9060A	BatchID: R284158	Analysis Date: 01/21/2015	Seq No: 6024461							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Organic Carbon, Total

25.49 1.00 25.00 102 90 110

Sample ID: 1501997-002CMS	Client ID: RW-2	Units: mg/L	Prep Date:	Run No: 284158							
SampleType: MS	TestCode: Total Organic Carbon (TOC) SW9060A	BatchID: R284158	Analysis Date: 01/21/2015	Seq No: 6024467							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Organic Carbon, Total

38.42 1.00 25.00 11.42 108 80 120

Sample ID: 1501997-002CMSD	Client ID: RW-2	Units: mg/L	Prep Date:	Run No: 284158							
SampleType: MSD	TestCode: Total Organic Carbon (TOC) SW9060A	BatchID: R284158	Analysis Date: 01/21/2015	Seq No: 6024468							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Organic Carbon, Total

34.96 1.00 25.00 11.42 94.2 80 120 38.42 9.43 20

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1501997

ANALYTICAL QC SUMMARY REPORT

BatchID: R284281

Sample ID: MB-R284281	Client ID:	Units: mg/L	Prep Date:	Run No: 284281							
SampleType: MBLK	TestCode: Alkalinity by SM2320B	BatchID: R284281	Analysis Date: 01/23/2015	Seq No: 6026885							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Alkalinity, Total (As CaCO3)

BRL 3.00

Sample ID: LCS-R284281	Client ID:	Units: mg/L	Prep Date:	Run No: 284281							
SampleType: LCS	TestCode: Alkalinity by SM2320B	BatchID: R284281	Analysis Date: 01/23/2015	Seq No: 6026886							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Alkalinity, Total (As CaCO3)

128.0 3.00 125.0 102 75 125

Sample ID: 1501C12-001EDUP	Client ID:	Units: mg/L	Prep Date:	Run No: 284281							
SampleType: DUP	TestCode: Alkalinity by SM2320B	BatchID: R284281	Analysis Date: 01/23/2015	Seq No: 6026896							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Alkalinity, Total (As CaCO3)

129.0 3.00 128.0 0.778 30

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
	BRL Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
	J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
	Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	



October 16, 2014

Kristen Rivera
EarthCon Consultants, Inc.
1880 West Oak Parkway
Marietta GA 30062

TEL: (770) 973-2100
FAX: (770) 973-7395

RE: Apollo--Smyrna

Dear Kristen Rivera:

Order No: 1410761

Analytical Environmental Services, Inc. received 5 samples on 10/8/2014 2:32:00 PM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/14-06/30/15.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/15.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Chantelle Kanhai
Project Manager



ANALYTICAL ENVIRONMENTAL SERVICES, INC

3080 Presidential Drive, Atlanta GA 30340-3704

AES TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1410761

Date: 10/7/14 Page 1 of 1

COMPANY: <u>EarthCon</u>		ADDRESS: <u>1880 West Oak Pkwy Bldg 100 Ste 106 Marietta, GA 30062</u>			ANALYSIS REQUESTED										Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.		No # of Containers	
PHONE: <u>770 973 2100</u>		FAX:			TOC	Alkalinity	Sulfide	GC methanol	TCL VOC	ION SCAN								
SAMPLED BY: <u>Jmckuney / S. Woolf</u>		SIGNATURE: <u>[Signature]</u>			PRESERVATION (See codes)										REMARKS			
#	SAMPLE ID	DATE	TIME	Grab	Composite	Matrix (See codes)	H+	I	OH	H+	H+	I						
1	<u>MW6</u>	<u>10/7/14</u>	<u>1507</u>	<u>X</u>		<u>GW</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>2</u>	<u>2</u>	<u>1</u>						<u>8</u>
2	<u>MW8</u>	<u>10/7/14</u>	<u>1624</u>	<u>X</u>		<u>GW</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>2</u>	<u>2</u>	<u>1</u>						<u>8</u>
3	<u>MW9</u>	<u>10/7/14</u>	<u>1724</u>	<u>X</u>		<u>GW</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>2</u>	<u>2</u>	<u>1</u>						<u>7</u>
4	<u>MW13</u>	<u>10/7/14</u>	<u>1823</u>	<u>X</u>		<u>GW</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>2</u>	<u>2</u>	<u>1</u>						<u>8</u>
5	<u>MW7</u>	<u>10/7/14</u>	<u>1909</u>	<u>X</u>		<u>GW</u>	<u>1</u>	<u>1</u>	<u>2</u>	<u>2</u>	<u>2</u>	<u>1</u>						<u>8</u>
6																		
7																		
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12																		
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14																		
RELINQUISHED BY: <u>[Signature]</u>		DATE/TIME: <u>10/7/14 2030</u>		RECEIVED BY: <u>[Signature]</u>		DATE/TIME: <u>10-8-14</u>		PROJECT INFORMATION					RECEIPT					
								PROJECT NAME: <u>Apollo - Smyrna</u>					Total # of Containers: <u>39</u>					
								PROJECT #: _____					Turnaround Time Request					
								SITE ADDRESS: _____					<input checked="" type="radio"/> Standard 5 Business Days					
								SEND REPORT TO: <u>Kristen Ruelka</u>					<input type="radio"/> 2 Business Day Rush					
								INVOICE TO: _____					<input type="radio"/> Next Business Day Rush					
								(IF DIFFERENT FROM ABOVE)					<input type="radio"/> Same Day Rush (auth req.)					
								QUOTE #: _____ PO#: _____					<input type="radio"/> Other _____					
SPECIAL INSTRUCTIONS/COMMENTS:		SHIPMENT METHOD		OUT <u>1/1</u> VIA:		IN <u>10/8/14</u> VIA:		STATE PROGRAM (if any): _____					E-mail? Y/N; Fax? Y/N					
		CLIENT FedEx UPS MAIL <u>COURIER</u> GREYHOUND OTHER											DATA PACKAGE: I II III IV					

SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY. IF TURNAROUND TIME IS NOT INDICATED, AES WILL PROCEED WITH STANDARD TAT OF SAMPLES. SAMPLES ARE DISPOSED 30 DAYS AFTER REPORT COMPLETION UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water
PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

Analytical Environmental Services, Inc

Date: 16-Oct-14

Client: EarthCon Consultants, Inc.	Client Sample ID: MW6
Project Name: Apollo--Smyrna	Collection Date: 10/7/2014 3:07:00 PM
Lab ID: 1410761-001	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) SW9060A								
Organic Carbon, Total	3.10	1.00		mg/L	R277815	1	10/13/2014 19:05	JM
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	197454	1	10/10/2014 02:13	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	197454	1	10/10/2014 02:13	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	197454	1	10/10/2014 02:13	NP
1,1-Dichloroethane	15	5.0		ug/L	197454	1	10/10/2014 02:13	NP
1,1-Dichloroethene	110	5.0		ug/L	197454	1	10/10/2014 02:13	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	197454	1	10/10/2014 02:13	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	197454	1	10/10/2014 02:13	NP
1,2-Dibromoethane	BRL	5.0		ug/L	197454	1	10/10/2014 02:13	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	197454	1	10/10/2014 02:13	NP
1,2-Dichloroethane	BRL	5.0		ug/L	197454	1	10/10/2014 02:13	NP
1,2-Dichloropropane	BRL	5.0		ug/L	197454	1	10/10/2014 02:13	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	197454	1	10/10/2014 02:13	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	197454	1	10/10/2014 02:13	NP
2-Butanone	BRL	50		ug/L	197454	1	10/10/2014 02:13	NP
2-Hexanone	BRL	10		ug/L	197454	1	10/10/2014 02:13	NP
4-Methyl-2-pentanone	BRL	10		ug/L	197454	1	10/10/2014 02:13	NP
Acetone	BRL	50		ug/L	197454	1	10/10/2014 02:13	NP
Benzene	BRL	5.0		ug/L	197454	1	10/10/2014 02:13	NP
Bromodichloromethane	BRL	5.0		ug/L	197454	1	10/10/2014 02:13	NP
Bromoform	BRL	5.0		ug/L	197454	1	10/10/2014 02:13	NP
Bromomethane	BRL	5.0		ug/L	197454	1	10/10/2014 02:13	NP
Carbon disulfide	BRL	5.0		ug/L	197454	1	10/10/2014 02:13	NP
Carbon tetrachloride	BRL	5.0		ug/L	197454	1	10/10/2014 02:13	NP
Chlorobenzene	BRL	5.0		ug/L	197454	1	10/10/2014 02:13	NP
Chloroethane	BRL	10		ug/L	197454	1	10/10/2014 02:13	NP
Chloroform	BRL	5.0		ug/L	197454	1	10/10/2014 02:13	NP
Chloromethane	BRL	10		ug/L	197454	1	10/10/2014 02:13	NP
cis-1,2-Dichloroethene	5.8	5.0		ug/L	197454	1	10/10/2014 02:13	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	197454	1	10/10/2014 02:13	NP
Cyclohexane	BRL	5.0		ug/L	197454	1	10/10/2014 02:13	NP
Dibromochloromethane	BRL	5.0		ug/L	197454	1	10/10/2014 02:13	NP
Dichlorodifluoromethane	BRL	10		ug/L	197454	1	10/10/2014 02:13	NP
Ethylbenzene	BRL	5.0		ug/L	197454	1	10/10/2014 02:13	NP
Freon-113	11	10		ug/L	197454	1	10/10/2014 02:13	NP
Isopropylbenzene	BRL	5.0		ug/L	197454	1	10/10/2014 02:13	NP
m,p-Xylene	BRL	5.0		ug/L	197454	1	10/10/2014 02:13	NP
Methyl acetate	BRL	5.0		ug/L	197454	1	10/10/2014 02:13	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	197454	1	10/10/2014 02:13	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: EarthCon Consultants, Inc.	Client Sample ID: MW6
Project Name: Apollo--Smyrna	Collection Date: 10/7/2014 3:07:00 PM
Lab ID: 1410761-001	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					(SW5030B)			
Methylcyclohexane	BRL	5.0		ug/L	197454	1	10/10/2014 02:13	NP
Methylene chloride	BRL	5.0		ug/L	197454	1	10/10/2014 02:13	NP
o-Xylene	BRL	5.0		ug/L	197454	1	10/10/2014 02:13	NP
Styrene	BRL	5.0		ug/L	197454	1	10/10/2014 02:13	NP
Tetrachloroethene	BRL	5.0		ug/L	197454	1	10/10/2014 02:13	NP
Toluene	BRL	5.0		ug/L	197454	1	10/10/2014 02:13	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	197454	1	10/10/2014 02:13	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	197454	1	10/10/2014 02:13	NP
Trichloroethene	BRL	5.0		ug/L	197454	1	10/10/2014 02:13	NP
Trichlorofluoromethane	BRL	5.0		ug/L	197454	1	10/10/2014 02:13	NP
Vinyl chloride	37	2.0		ug/L	197454	1	10/10/2014 02:13	NP
Surr: 4-Bromofluorobenzene	82.6	66.2-120		%REC	197454	1	10/10/2014 02:13	NP
Surr: Dibromofluoromethane	118	79.5-121		%REC	197454	1	10/10/2014 02:13	NP
Surr: Toluene-d8	95.7	77-117		%REC	197454	1	10/10/2014 02:13	NP
Sulfide by SW9030B/9034					(SW9030B)			
Sulfide	BRL	2.00		mg/L	197734	1	10/14/2014 09:35	AB
ION SCAN SW9056A								
Chloride	7.5	1.0		mg/L	R277601	1	10/08/2014 21:22	YS
Nitrate	BRL	0.25		mg/L	R277601	1	10/08/2014 21:22	YS
Sulfate	BRL	1.0		mg/L	R277601	1	10/08/2014 21:22	YS
GC Analysis of Gaseous Samples SOP-RSK 175					(RSK175)			
Ethane	20	9		ug/L	197404	1	10/10/2014 14:50	JM
Ethylene	BRL	7		ug/L	197404	1	10/10/2014 14:50	JM
Methane	2800	80		ug/L	197404	20	10/10/2014 15:09	JM
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	67.0	3.00		mg/L	R277885	1	10/14/2014 15:00	PF

Qualifiers:

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- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 16-Oct-14

Client: EarthCon Consultants, Inc.	Client Sample ID: MW8
Project Name: Apollo--Smyrna	Collection Date: 10/7/2014 4:24:00 PM
Lab ID: 1410761-002	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) SW9060A								
Organic Carbon, Total	1.51	1.00		mg/L	R277815	1	10/13/2014 19:26	JM
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	5.9	5.0		ug/L	197454	1	10/10/2014 02:37	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	197454	1	10/10/2014 02:37	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	197454	1	10/10/2014 02:37	NP
1,1-Dichloroethane	BRL	5.0		ug/L	197454	1	10/10/2014 02:37	NP
1,1-Dichloroethene	18	5.0		ug/L	197454	1	10/10/2014 02:37	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	197454	1	10/10/2014 02:37	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	197454	1	10/10/2014 02:37	NP
1,2-Dibromoethane	BRL	5.0		ug/L	197454	1	10/10/2014 02:37	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	197454	1	10/10/2014 02:37	NP
1,2-Dichloroethane	BRL	5.0		ug/L	197454	1	10/10/2014 02:37	NP
1,2-Dichloropropane	BRL	5.0		ug/L	197454	1	10/10/2014 02:37	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	197454	1	10/10/2014 02:37	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	197454	1	10/10/2014 02:37	NP
2-Butanone	BRL	50		ug/L	197454	1	10/10/2014 02:37	NP
2-Hexanone	BRL	10		ug/L	197454	1	10/10/2014 02:37	NP
4-Methyl-2-pentanone	BRL	10		ug/L	197454	1	10/10/2014 02:37	NP
Acetone	BRL	50		ug/L	197454	1	10/10/2014 02:37	NP
Benzene	BRL	5.0		ug/L	197454	1	10/10/2014 02:37	NP
Bromodichloromethane	BRL	5.0		ug/L	197454	1	10/10/2014 02:37	NP
Bromoform	BRL	5.0		ug/L	197454	1	10/10/2014 02:37	NP
Bromomethane	BRL	5.0		ug/L	197454	1	10/10/2014 02:37	NP
Carbon disulfide	BRL	5.0		ug/L	197454	1	10/10/2014 02:37	NP
Carbon tetrachloride	BRL	5.0		ug/L	197454	1	10/10/2014 02:37	NP
Chlorobenzene	BRL	5.0		ug/L	197454	1	10/10/2014 02:37	NP
Chloroethane	BRL	10		ug/L	197454	1	10/10/2014 02:37	NP
Chloroform	5.3	5.0		ug/L	197454	1	10/10/2014 02:37	NP
Chloromethane	BRL	10		ug/L	197454	1	10/10/2014 02:37	NP
cis-1,2-Dichloroethene	25	5.0		ug/L	197454	1	10/10/2014 02:37	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	197454	1	10/10/2014 02:37	NP
Cyclohexane	BRL	5.0		ug/L	197454	1	10/10/2014 02:37	NP
Dibromochloromethane	BRL	5.0		ug/L	197454	1	10/10/2014 02:37	NP
Dichlorodifluoromethane	BRL	10		ug/L	197454	1	10/10/2014 02:37	NP
Ethylbenzene	BRL	5.0		ug/L	197454	1	10/10/2014 02:37	NP
Freon-113	BRL	10		ug/L	197454	1	10/10/2014 02:37	NP
Isopropylbenzene	BRL	5.0		ug/L	197454	1	10/10/2014 02:37	NP
m,p-Xylene	BRL	5.0		ug/L	197454	1	10/10/2014 02:37	NP
Methyl acetate	BRL	5.0		ug/L	197454	1	10/10/2014 02:37	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	197454	1	10/10/2014 02:37	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: EarthCon Consultants, Inc.	Client Sample ID: MW8
Project Name: Apollo--Smyrna	Collection Date: 10/7/2014 4:24:00 PM
Lab ID: 1410761-002	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					(SW5030B)			
Methylcyclohexane	BRL	5.0		ug/L	197454	1	10/10/2014 02:37	NP
Methylene chloride	BRL	5.0		ug/L	197454	1	10/10/2014 02:37	NP
o-Xylene	BRL	5.0		ug/L	197454	1	10/10/2014 02:37	NP
Styrene	BRL	5.0		ug/L	197454	1	10/10/2014 02:37	NP
Tetrachloroethene	320	50		ug/L	197454	10	10/10/2014 17:18	NP
Toluene	BRL	5.0		ug/L	197454	1	10/10/2014 02:37	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	197454	1	10/10/2014 02:37	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	197454	1	10/10/2014 02:37	NP
Trichloroethene	670	50		ug/L	197454	10	10/10/2014 17:18	NP
Trichlorofluoromethane	BRL	5.0		ug/L	197454	1	10/10/2014 02:37	NP
Vinyl chloride	BRL	2.0		ug/L	197454	1	10/10/2014 02:37	NP
Surr: 4-Bromofluorobenzene	79.5	66.2-120		%REC	197454	1	10/10/2014 02:37	NP
Surr: 4-Bromofluorobenzene	83.1	66.2-120		%REC	197454	10	10/10/2014 17:18	NP
Surr: Dibromofluoromethane	111	79.5-121		%REC	197454	10	10/10/2014 17:18	NP
Surr: Dibromofluoromethane	117	79.5-121		%REC	197454	1	10/10/2014 02:37	NP
Surr: Toluene-d8	94.8	77-117		%REC	197454	10	10/10/2014 17:18	NP
Surr: Toluene-d8	98.1	77-117		%REC	197454	1	10/10/2014 02:37	NP
Sulfide by SW9030B/9034					(SW9030B)			
Sulfide	BRL	2.00		mg/L	197734	1	10/14/2014 09:35	AB
ION SCAN SW9056A								
Chloride	4.3	1.0		mg/L	R277601	1	10/08/2014 21:36	YS
Nitrate	BRL	0.25		mg/L	R277601	1	10/08/2014 21:36	YS
Sulfate	BRL	1.0		mg/L	R277601	1	10/08/2014 21:36	YS
GC Analysis of Gaseous Samples SOP-RSK 175					(RSK175)			
Ethane	BRL	9		ug/L	197404	1	10/10/2014 14:54	JM
Ethylene	BRL	7		ug/L	197404	1	10/10/2014 14:54	JM
Methane	140	4		ug/L	197404	1	10/10/2014 14:54	JM
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	19.0	3.00		mg/L	R277885	1	10/14/2014 15:00	PF

Qualifiers:

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- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 16-Oct-14

Client: EarthCon Consultants, Inc.	Client Sample ID: MW9
Project Name: Apollo--Smyrna	Collection Date: 10/7/2014 5:24:00 PM
Lab ID: 1410761-003	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) SW9060A								
Organic Carbon, Total	1.27	1.00		mg/L	R277815	1	10/13/2014 19:45	JM
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	197454	1	10/10/2014 03:02	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	197454	1	10/10/2014 03:02	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	197454	1	10/10/2014 03:02	NP
1,1-Dichloroethane	BRL	5.0		ug/L	197454	1	10/10/2014 03:02	NP
1,1-Dichloroethene	BRL	5.0		ug/L	197454	1	10/10/2014 03:02	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	197454	1	10/10/2014 03:02	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	197454	1	10/10/2014 03:02	NP
1,2-Dibromoethane	BRL	5.0		ug/L	197454	1	10/10/2014 03:02	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	197454	1	10/10/2014 03:02	NP
1,2-Dichloroethane	BRL	5.0		ug/L	197454	1	10/10/2014 03:02	NP
1,2-Dichloropropane	BRL	5.0		ug/L	197454	1	10/10/2014 03:02	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	197454	1	10/10/2014 03:02	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	197454	1	10/10/2014 03:02	NP
2-Butanone	BRL	50		ug/L	197454	1	10/10/2014 03:02	NP
2-Hexanone	BRL	10		ug/L	197454	1	10/10/2014 03:02	NP
4-Methyl-2-pentanone	BRL	10		ug/L	197454	1	10/10/2014 03:02	NP
Acetone	BRL	50		ug/L	197454	1	10/10/2014 03:02	NP
Benzene	BRL	5.0		ug/L	197454	1	10/10/2014 03:02	NP
Bromodichloromethane	BRL	5.0		ug/L	197454	1	10/10/2014 03:02	NP
Bromoform	BRL	5.0		ug/L	197454	1	10/10/2014 03:02	NP
Bromomethane	BRL	5.0		ug/L	197454	1	10/10/2014 03:02	NP
Carbon disulfide	BRL	5.0		ug/L	197454	1	10/10/2014 03:02	NP
Carbon tetrachloride	BRL	5.0		ug/L	197454	1	10/10/2014 03:02	NP
Chlorobenzene	BRL	5.0		ug/L	197454	1	10/10/2014 03:02	NP
Chloroethane	BRL	10		ug/L	197454	1	10/10/2014 03:02	NP
Chloroform	BRL	5.0		ug/L	197454	1	10/10/2014 03:02	NP
Chloromethane	BRL	10		ug/L	197454	1	10/10/2014 03:02	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	197454	1	10/10/2014 03:02	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	197454	1	10/10/2014 03:02	NP
Cyclohexane	BRL	5.0		ug/L	197454	1	10/10/2014 03:02	NP
Dibromochloromethane	BRL	5.0		ug/L	197454	1	10/10/2014 03:02	NP
Dichlorodifluoromethane	BRL	10		ug/L	197454	1	10/10/2014 03:02	NP
Ethylbenzene	BRL	5.0		ug/L	197454	1	10/10/2014 03:02	NP
Freon-113	BRL	10		ug/L	197454	1	10/10/2014 03:02	NP
Isopropylbenzene	BRL	5.0		ug/L	197454	1	10/10/2014 03:02	NP
m,p-Xylene	BRL	5.0		ug/L	197454	1	10/10/2014 03:02	NP
Methyl acetate	BRL	5.0		ug/L	197454	1	10/10/2014 03:02	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	197454	1	10/10/2014 03:02	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: EarthCon Consultants, Inc.	Client Sample ID: MW9
Project Name: Apollo--Smyrna	Collection Date: 10/7/2014 5:24:00 PM
Lab ID: 1410761-003	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					(SW5030B)			
Methylcyclohexane	BRL	5.0		ug/L	197454	1	10/10/2014 03:02	NP
Methylene chloride	BRL	5.0		ug/L	197454	1	10/10/2014 03:02	NP
o-Xylene	BRL	5.0		ug/L	197454	1	10/10/2014 03:02	NP
Styrene	BRL	5.0		ug/L	197454	1	10/10/2014 03:02	NP
Tetrachloroethene	BRL	5.0		ug/L	197454	1	10/10/2014 03:02	NP
Toluene	BRL	5.0		ug/L	197454	1	10/10/2014 03:02	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	197454	1	10/10/2014 03:02	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	197454	1	10/10/2014 03:02	NP
Trichloroethene	BRL	5.0		ug/L	197454	1	10/10/2014 03:02	NP
Trichlorofluoromethane	BRL	5.0		ug/L	197454	1	10/10/2014 03:02	NP
Vinyl chloride	BRL	2.0		ug/L	197454	1	10/10/2014 03:02	NP
Surr: 4-Bromofluorobenzene	81.1	66.2-120		%REC	197454	1	10/10/2014 03:02	NP
Surr: Dibromofluoromethane	116	79.5-121		%REC	197454	1	10/10/2014 03:02	NP
Surr: Toluene-d8	97.3	77-117		%REC	197454	1	10/10/2014 03:02	NP
Sulfide by SW9030B/9034					(SW9030B)			
Sulfide	BRL	2.00		mg/L	197734	1	10/14/2014 09:35	AB
ION SCAN SW9056A								
Chloride	5.3	1.0		mg/L	R277601	1	10/08/2014 21:51	YS
Nitrate	BRL	0.25		mg/L	R277601	1	10/08/2014 21:51	YS
Sulfate	2.9	1.0		mg/L	R277601	1	10/08/2014 21:51	YS
GC Analysis of Gaseous Samples SOP-RSK 175					(RSK175)			
Ethane	BRL	9		ug/L	197404	1	10/10/2014 14:59	JM
Ethylene	BRL	7		ug/L	197404	1	10/10/2014 14:59	JM
Methane	53	4		ug/L	197404	1	10/10/2014 14:59	JM
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	18.0	3.00		mg/L	R277885	1	10/14/2014 15:00	PF

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 16-Oct-14

Client: EarthCon Consultants, Inc.	Client Sample ID: MW13
Project Name: Apollo--Smyrna	Collection Date: 10/7/2014 6:23:00 PM
Lab ID: 1410761-004	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) SW9060A								
Organic Carbon, Total	2.03	1.00		mg/L	R277815	1	10/13/2014 20:06	JM
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	197454	1	10/10/2014 03:26	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	197454	1	10/10/2014 03:26	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	197454	1	10/10/2014 03:26	NP
1,1-Dichloroethane	BRL	5.0		ug/L	197454	1	10/10/2014 03:26	NP
1,1-Dichloroethene	BRL	5.0		ug/L	197454	1	10/10/2014 03:26	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	197454	1	10/10/2014 03:26	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	197454	1	10/10/2014 03:26	NP
1,2-Dibromoethane	BRL	5.0		ug/L	197454	1	10/10/2014 03:26	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	197454	1	10/10/2014 03:26	NP
1,2-Dichloroethane	BRL	5.0		ug/L	197454	1	10/10/2014 03:26	NP
1,2-Dichloropropane	BRL	5.0		ug/L	197454	1	10/10/2014 03:26	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	197454	1	10/10/2014 03:26	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	197454	1	10/10/2014 03:26	NP
2-Butanone	BRL	50		ug/L	197454	1	10/10/2014 03:26	NP
2-Hexanone	BRL	10		ug/L	197454	1	10/10/2014 03:26	NP
4-Methyl-2-pentanone	BRL	10		ug/L	197454	1	10/10/2014 03:26	NP
Acetone	BRL	50		ug/L	197454	1	10/10/2014 03:26	NP
Benzene	BRL	5.0		ug/L	197454	1	10/10/2014 03:26	NP
Bromodichloromethane	BRL	5.0		ug/L	197454	1	10/10/2014 03:26	NP
Bromoform	BRL	5.0		ug/L	197454	1	10/10/2014 03:26	NP
Bromomethane	BRL	5.0		ug/L	197454	1	10/10/2014 03:26	NP
Carbon disulfide	BRL	5.0		ug/L	197454	1	10/10/2014 03:26	NP
Carbon tetrachloride	BRL	5.0		ug/L	197454	1	10/10/2014 03:26	NP
Chlorobenzene	BRL	5.0		ug/L	197454	1	10/10/2014 03:26	NP
Chloroethane	BRL	10		ug/L	197454	1	10/10/2014 03:26	NP
Chloroform	BRL	5.0		ug/L	197454	1	10/10/2014 03:26	NP
Chloromethane	BRL	10		ug/L	197454	1	10/10/2014 03:26	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	197454	1	10/10/2014 03:26	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	197454	1	10/10/2014 03:26	NP
Cyclohexane	BRL	5.0		ug/L	197454	1	10/10/2014 03:26	NP
Dibromochloromethane	BRL	5.0		ug/L	197454	1	10/10/2014 03:26	NP
Dichlorodifluoromethane	BRL	10		ug/L	197454	1	10/10/2014 03:26	NP
Ethylbenzene	BRL	5.0		ug/L	197454	1	10/10/2014 03:26	NP
Freon-113	BRL	10		ug/L	197454	1	10/10/2014 03:26	NP
Isopropylbenzene	BRL	5.0		ug/L	197454	1	10/10/2014 03:26	NP
m,p-Xylene	BRL	5.0		ug/L	197454	1	10/10/2014 03:26	NP
Methyl acetate	BRL	5.0		ug/L	197454	1	10/10/2014 03:26	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	197454	1	10/10/2014 03:26	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: EarthCon Consultants, Inc.	Client Sample ID: MW13
Project Name: Apollo--Smyrna	Collection Date: 10/7/2014 6:23:00 PM
Lab ID: 1410761-004	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B			(SW5030B)					
Methylcyclohexane	BRL	5.0		ug/L	197454	1	10/10/2014 03:26	NP
Methylene chloride	BRL	5.0		ug/L	197454	1	10/10/2014 03:26	NP
o-Xylene	BRL	5.0		ug/L	197454	1	10/10/2014 03:26	NP
Styrene	BRL	5.0		ug/L	197454	1	10/10/2014 03:26	NP
Tetrachloroethene	BRL	5.0		ug/L	197454	1	10/10/2014 03:26	NP
Toluene	BRL	5.0		ug/L	197454	1	10/10/2014 03:26	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	197454	1	10/10/2014 03:26	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	197454	1	10/10/2014 03:26	NP
Trichloroethene	BRL	5.0		ug/L	197454	1	10/10/2014 03:26	NP
Trichlorofluoromethane	BRL	5.0		ug/L	197454	1	10/10/2014 03:26	NP
Vinyl chloride	BRL	2.0		ug/L	197454	1	10/10/2014 03:26	NP
Surr: 4-Bromofluorobenzene	83.8	66.2-120		%REC	197454	1	10/10/2014 03:26	NP
Surr: Dibromofluoromethane	117	79.5-121		%REC	197454	1	10/10/2014 03:26	NP
Surr: Toluene-d8	97.7	77-117		%REC	197454	1	10/10/2014 03:26	NP
Sulfide by SW9030B/9034			(SW9030B)					
Sulfide	BRL	2.00		mg/L	197734	1	10/14/2014 09:35	AB
ION SCAN SW9056A								
Chloride	7.6	1.0		mg/L	R277601	1	10/08/2014 22:06	YS
Nitrate	BRL	0.25		mg/L	R277601	1	10/08/2014 22:06	YS
Sulfate	BRL	1.0		mg/L	R277601	1	10/08/2014 22:06	YS
GC Analysis of Gaseous Samples SOP-RSK 175			(RSK175)					
Ethane	200	9		ug/L	197404	1	10/10/2014 15:14	JM
Ethylene	BRL	7		ug/L	197404	1	10/10/2014 15:14	JM
Methane	4500	200		ug/L	197404	50	10/10/2014 16:58	JM
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	52.0	3.00		mg/L	R277885	1	10/14/2014 15:00	PF

Qualifiers:

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- BRL Below reporting limit
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- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 16-Oct-14

Client: EarthCon Consultants, Inc.	Client Sample ID: MW7
Project Name: Apollo--Smyrna	Collection Date: 10/7/2014 7:09:00 PM
Lab ID: 1410761-005	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) SW9060A								
Organic Carbon, Total	2.87	1.00		mg/L	R277815	1	10/13/2014 20:26	JM
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	197454	1	10/10/2014 03:50	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	197454	1	10/10/2014 03:50	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	197454	1	10/10/2014 03:50	NP
1,1-Dichloroethane	BRL	5.0		ug/L	197454	1	10/10/2014 03:50	NP
1,1-Dichloroethene	8.7	5.0		ug/L	197454	1	10/10/2014 03:50	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	197454	1	10/10/2014 03:50	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	197454	1	10/10/2014 03:50	NP
1,2-Dibromoethane	BRL	5.0		ug/L	197454	1	10/10/2014 03:50	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	197454	1	10/10/2014 03:50	NP
1,2-Dichloroethane	BRL	5.0		ug/L	197454	1	10/10/2014 03:50	NP
1,2-Dichloropropane	BRL	5.0		ug/L	197454	1	10/10/2014 03:50	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	197454	1	10/10/2014 03:50	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	197454	1	10/10/2014 03:50	NP
2-Butanone	BRL	50		ug/L	197454	1	10/10/2014 03:50	NP
2-Hexanone	BRL	10		ug/L	197454	1	10/10/2014 03:50	NP
4-Methyl-2-pentanone	BRL	10		ug/L	197454	1	10/10/2014 03:50	NP
Acetone	BRL	50		ug/L	197454	1	10/10/2014 03:50	NP
Benzene	BRL	5.0		ug/L	197454	1	10/10/2014 03:50	NP
Bromodichloromethane	BRL	5.0		ug/L	197454	1	10/10/2014 03:50	NP
Bromoform	BRL	5.0		ug/L	197454	1	10/10/2014 03:50	NP
Bromomethane	BRL	5.0		ug/L	197454	1	10/10/2014 03:50	NP
Carbon disulfide	BRL	5.0		ug/L	197454	1	10/10/2014 03:50	NP
Carbon tetrachloride	BRL	5.0		ug/L	197454	1	10/10/2014 03:50	NP
Chlorobenzene	BRL	5.0		ug/L	197454	1	10/10/2014 03:50	NP
Chloroethane	BRL	10		ug/L	197454	1	10/10/2014 03:50	NP
Chloroform	BRL	5.0		ug/L	197454	1	10/10/2014 03:50	NP
Chloromethane	BRL	10		ug/L	197454	1	10/10/2014 03:50	NP
cis-1,2-Dichloroethene	1300	50		ug/L	197454	10	10/10/2014 17:42	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	197454	1	10/10/2014 03:50	NP
Cyclohexane	BRL	5.0		ug/L	197454	1	10/10/2014 03:50	NP
Dibromochloromethane	BRL	5.0		ug/L	197454	1	10/10/2014 03:50	NP
Dichlorodifluoromethane	BRL	10		ug/L	197454	1	10/10/2014 03:50	NP
Ethylbenzene	BRL	5.0		ug/L	197454	1	10/10/2014 03:50	NP
Freon-113	BRL	10		ug/L	197454	1	10/10/2014 03:50	NP
Isopropylbenzene	BRL	5.0		ug/L	197454	1	10/10/2014 03:50	NP
m,p-Xylene	7.8	5.0		ug/L	197454	1	10/10/2014 03:50	NP
Methyl acetate	BRL	5.0		ug/L	197454	1	10/10/2014 03:50	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	197454	1	10/10/2014 03:50	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: EarthCon Consultants, Inc.	Client Sample ID: MW7
Project Name: Apollo--Smyrna	Collection Date: 10/7/2014 7:09:00 PM
Lab ID: 1410761-005	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					(SW5030B)			
Methylcyclohexane	BRL	5.0		ug/L	197454	1	10/10/2014 03:50	NP
Methylene chloride	BRL	5.0		ug/L	197454	1	10/10/2014 03:50	NP
o-Xylene	BRL	5.0		ug/L	197454	1	10/10/2014 03:50	NP
Styrene	BRL	5.0		ug/L	197454	1	10/10/2014 03:50	NP
Tetrachloroethene	BRL	5.0		ug/L	197454	1	10/10/2014 03:50	NP
Toluene	12	5.0		ug/L	197454	1	10/10/2014 03:50	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	197454	1	10/10/2014 03:50	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	197454	1	10/10/2014 03:50	NP
Trichloroethene	BRL	5.0		ug/L	197454	1	10/10/2014 03:50	NP
Trichlorofluoromethane	BRL	5.0		ug/L	197454	1	10/10/2014 03:50	NP
Vinyl chloride	620	20		ug/L	197454	10	10/10/2014 17:42	NP
Surr: 4-Bromofluorobenzene	82.6	66.2-120		%REC	197454	10	10/10/2014 17:42	NP
Surr: 4-Bromofluorobenzene	84.6	66.2-120		%REC	197454	1	10/10/2014 03:50	NP
Surr: Dibromofluoromethane	112	79.5-121		%REC	197454	10	10/10/2014 17:42	NP
Surr: Dibromofluoromethane	113	79.5-121		%REC	197454	1	10/10/2014 03:50	NP
Surr: Toluene-d8	93.3	77-117		%REC	197454	10	10/10/2014 17:42	NP
Surr: Toluene-d8	94.3	77-117		%REC	197454	1	10/10/2014 03:50	NP
Sulfide by SW9030B/9034					(SW9030B)			
Sulfide	BRL	2.00		mg/L	197734	1	10/14/2014 09:35	AB
ION SCAN SW9056A								
Chloride	10.0	1.0		mg/L	R277601	1	10/08/2014 22:20	YS
Nitrate	BRL	0.25		mg/L	R277601	1	10/08/2014 22:20	YS
Sulfate	BRL	1.0		mg/L	R277601	1	10/08/2014 22:20	YS
GC Analysis of Gaseous Samples SOP-RSK 175					(RSK175)			
Ethane	34	9		ug/L	197404	1	10/10/2014 15:18	JM
Ethylene	210	7		ug/L	197404	1	10/10/2014 15:18	JM
Methane	3900	200		ug/L	197404	50	10/10/2014 17:03	JM
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	104	3.00		mg/L	R277885	1	10/14/2014 15:00	PF

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client EarthCon

Work Order Number 1410761

Checklist completed by Jenna Pacuvar Signature Date 10/8/14

Carrier name: FedEx UPS Courier Client US Mail Other

Shipping container/cooler in good condition? Yes No Not Present

Custody seals intact on shipping container/cooler? Yes No Not Present

Custody seals intact on sample bottles? Yes No Not Present

Container/Temp Blank temperature in compliance? ($0^{\circ} \leq 6^{\circ}C$)* Yes No

Cooler #1 3.1°C Cooler #2 Cooler #3 Cooler #4 Cooler #5 Cooler #6

Chain of custody present? Yes No

Chain of custody signed when relinquished and received? Yes No

Chain of custody agrees with sample labels? Yes No

Samples in proper container/bottle? Yes No

Sample containers intact? Yes No

Sufficient sample volume for indicated test? Yes No

All samples received within holding time? Yes No

Was TAT marked on the COC? Yes No

Proceed with Standard TAT as per project history? Yes No Not Applicable

Water - VOA vials have zero headspace? No VOA vials submitted Yes No

Water - pH acceptable upon receipt? Yes No Not Applicable

Adjusted? Checked by JH

Sample Condition: Good Other(Explain)

(For diffusive samples or AIHA lead) Is a known blank included? Yes No

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

Client: EarthCon Consultants, Inc.
 Project: Apollo--Smyrna
 Lab Order: 1410761

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1410761-001A	MW6	10/7/2014 3:07:00PM	Groundwater	TCL VOLATILE ORGANICS		10/09/2014	10/10/2014
1410761-001B	MW6	10/7/2014 3:07:00PM	Groundwater	GC Analysis of Gaseous Samples		10/10/2014	10/10/2014
1410761-001C	MW6	10/7/2014 3:07:00PM	Groundwater	Total Organic Carbon (TOC)			10/13/2014
1410761-001D	MW6	10/7/2014 3:07:00PM	Groundwater	Alkalinity by SM2320B			10/14/2014
1410761-001E	MW6	10/7/2014 3:07:00PM	Groundwater	Sulfide by SW9030/9034		10/14/2014	10/14/2014
1410761-001F	MW6	10/7/2014 3:07:00PM	Groundwater	ION SCAN			10/08/2014
1410761-002A	MW8	10/7/2014 4:24:00PM	Groundwater	TCL VOLATILE ORGANICS		10/09/2014	10/10/2014
1410761-002B	MW8	10/7/2014 4:24:00PM	Groundwater	GC Analysis of Gaseous Samples		10/10/2014	10/10/2014
1410761-002C	MW8	10/7/2014 4:24:00PM	Groundwater	Total Organic Carbon (TOC)			10/13/2014
1410761-002D	MW8	10/7/2014 4:24:00PM	Groundwater	Alkalinity by SM2320B			10/14/2014
1410761-002E	MW8	10/7/2014 4:24:00PM	Groundwater	Sulfide by SW9030/9034		10/14/2014	10/14/2014
1410761-002F	MW8	10/7/2014 4:24:00PM	Groundwater	ION SCAN			10/08/2014
1410761-003A	MW9	10/7/2014 5:24:00PM	Groundwater	TCL VOLATILE ORGANICS		10/09/2014	10/10/2014
1410761-003B	MW9	10/7/2014 5:24:00PM	Groundwater	GC Analysis of Gaseous Samples		10/10/2014	10/10/2014
1410761-003C	MW9	10/7/2014 5:24:00PM	Groundwater	Total Organic Carbon (TOC)			10/13/2014
1410761-003D	MW9	10/7/2014 5:24:00PM	Groundwater	Alkalinity by SM2320B			10/14/2014
1410761-003E	MW9	10/7/2014 5:24:00PM	Groundwater	Sulfide by SW9030/9034		10/14/2014	10/14/2014
1410761-003F	MW9	10/7/2014 5:24:00PM	Groundwater	ION SCAN			10/08/2014
1410761-004A	MW13	10/7/2014 6:23:00PM	Groundwater	TCL VOLATILE ORGANICS		10/09/2014	10/10/2014
1410761-004B	MW13	10/7/2014 6:23:00PM	Groundwater	GC Analysis of Gaseous Samples		10/10/2014	10/10/2014
1410761-004C	MW13	10/7/2014 6:23:00PM	Groundwater	Total Organic Carbon (TOC)			10/13/2014
1410761-004D	MW13	10/7/2014 6:23:00PM	Groundwater	Alkalinity by SM2320B			10/14/2014
1410761-004E	MW13	10/7/2014 6:23:00PM	Groundwater	Sulfide by SW9030/9034		10/14/2014	10/14/2014
1410761-004F	MW13	10/7/2014 6:23:00PM	Groundwater	ION SCAN			10/08/2014
1410761-005A	MW7	10/7/2014 7:09:00PM	Groundwater	TCL VOLATILE ORGANICS		10/09/2014	10/10/2014
1410761-005B	MW7	10/7/2014 7:09:00PM	Groundwater	GC Analysis of Gaseous Samples		10/10/2014	10/10/2014
1410761-005C	MW7	10/7/2014 7:09:00PM	Groundwater	Total Organic Carbon (TOC)			10/13/2014
1410761-005D	MW7	10/7/2014 7:09:00PM	Groundwater	Alkalinity by SM2320B			10/14/2014
1410761-005E	MW7	10/7/2014 7:09:00PM	Groundwater	Sulfide by SW9030/9034		10/14/2014	10/14/2014

Client: EarthCon Consultants, Inc.
Project: Apollo--Smyrna
Lab Order: 1410761

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1410761-005F	MW7	10/7/2014 7:09:00PM	Groundwater	ION SCAN			10/08/2014

Client: EarthCon Consultants, Inc.
Project Name: Apollo--Smyrna
Workorder: 1410761

ANALYTICAL QC SUMMARY REPORT

BatchID: 197404

Sample ID: MB-197404	Client ID:	Units: ug/L	Prep Date: 10/10/2014	Run No: 277573							
SampleType: MBLK	TestCode: GC Analysis of Gaseous Samples SOP-RSK 175	BatchID: 197404	Analysis Date: 10/10/2014	Seq No: 5867198							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethane	BRL	9									
Ethylene	BRL	7									
Methane	BRL	4									

Sample ID: LCS-197404	Client ID:	Units: ug/L	Prep Date: 10/10/2014	Run No: 277573							
SampleType: LCS	TestCode: GC Analysis of Gaseous Samples SOP-RSK 175	BatchID: 197404	Analysis Date: 10/10/2014	Seq No: 5867199							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethane	102.1	9	200.0		51.1	41.6	115				
Ethylene	69.41	7	200.0		34.7	26.9	115				
Methane	113.9	4	200.0		57.0	45.2	115				

Sample ID: LCSD-197404	Client ID:	Units: ug/L	Prep Date: 10/10/2014	Run No: 277573							
SampleType: LCSD	TestCode: GC Analysis of Gaseous Samples SOP-RSK 175	BatchID: 197404	Analysis Date: 10/10/2014	Seq No: 5867200							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethane	99.19	9	200.0		49.6	41.6	115	102.1	2.93	20	
Ethylene	67.34	7	200.0		33.7	26.9	115	69.41	3.02	20	
Methane	111.5	4	200.0		55.7	45.2	115	113.9	2.17	20	

Sample ID: 1410789-004BMS	Client ID:	Units: ug/L	Prep Date: 10/10/2014	Run No: 277573							
SampleType: MS	TestCode: GC Analysis of Gaseous Samples SOP-RSK 175	BatchID: 197404	Analysis Date: 10/10/2014	Seq No: 5867255							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethane	109.0	9	200.0		54.5	40.1	115				
Ethylene	86.44	7	200.0	8.749	38.8	24.5	115				
Methane	173.7	4	200.0	26.46	73.6	41.1	115				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: Apollo--Smyrna
Workorder: 1410761

ANALYTICAL QC SUMMARY REPORT

BatchID: 197404

Sample ID: 1410789-004BMSD	Client ID:	Units: ug/L	Prep Date: 10/10/2014	Run No: 277573							
SampleType: MSD	TestCode: GC Analysis of Gaseous Samples SOP-RSK 175	BatchID: 197404	Analysis Date: 10/10/2014	Seq No: 5867256							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethane	111.2	9	200.0		55.6	40.1	115	109.0	2.02	20	
Ethylene	88.05	7	200.0	8.749	39.6	24.5	115	86.44	1.84	20	
Methane	177.8	4	200.0	26.46	75.7	41.1	115	173.7	2.36	20	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: Apollo--Smyrna
Workorder: 1410761

ANALYTICAL QC SUMMARY REPORT

BatchID: 197454

Sample ID: MB-197454	Client ID:	Units: ug/L	Prep Date: 10/09/2014	Run No: 277431							
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 197454	Analysis Date: 10/09/2014	Seq No: 5863606							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,2,4-Trichlorobenzene	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dibromoethane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,3-Dichlorobenzene	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
2-Butanone	BRL	50									
2-Hexanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	50									
Benzene	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Bromoform	BRL	5.0									
Bromomethane	BRL	5.0									
Carbon disulfide	BRL	5.0									
Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									
Chloroform	BRL	5.0									
Chloromethane	BRL	10									

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: Apollo--Smyrna
Workorder: 1410761

ANALYTICAL QC SUMMARY REPORT

BatchID: 197454

Sample ID: MB-197454	Client ID:	Units: ug/L	Prep Date: 10/09/2014	Run No: 277431							
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 197454	Analysis Date: 10/09/2014	Seq No: 5863606							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Freon-113	BRL	10									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	5.0									
Methyl acetate	BRL	5.0									
Methyl tert-butyl ether	BRL	5.0									
Methylcyclohexane	BRL	5.0									
Methylene chloride	BRL	5.0									
o-Xylene	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	2.0									
Surr: 4-Bromofluorobenzene	42.82	0	50.00		85.6	66.2	120				
Surr: Dibromofluoromethane	55.53	0	50.00		111	79.5	121				
Surr: Toluene-d8	47.58	0	50.00		95.2	77	117				

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: Apollo--Smyrna
Workorder: 1410761

ANALYTICAL QC SUMMARY REPORT

BatchID: 197454

Sample ID: LCS-197454	Client ID:	Units: ug/L	Prep Date: 10/09/2014	Run No: 277431							
SampleType: LCS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 197454	Analysis Date: 10/09/2014	Seq No: 5863607							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	57.38	5.0	50.00		115	63.1	140				
Benzene	51.20	5.0	50.00		102	74.2	129				
Chlorobenzene	52.79	5.0	50.00		106	70	129				
Toluene	51.51	5.0	50.00		103	74.2	129				
Trichloroethene	49.93	5.0	50.00		99.9	71.2	135				
Surr: 4-Bromofluorobenzene	42.01	0	50.00		84.0	66.2	120				
Surr: Dibromofluoromethane	53.60	0	50.00		107	79.5	121				
Surr: Toluene-d8	47.03	0	50.00		94.1	77	117				

Sample ID: 1410751-003AMS	Client ID:	Units: ug/L	Prep Date: 10/09/2014	Run No: 277431							
SampleType: MS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 197454	Analysis Date: 10/09/2014	Seq No: 5863610							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	2662	250	2500		106	60.2	159				
Benzene	2668	250	2500		107	70.2	138				
Chlorobenzene	2746	250	2500		110	70.1	133				
Toluene	2726	250	2500		109	70	139				
Trichloroethene	2672	250	2500		107	70.1	144				
Surr: 4-Bromofluorobenzene	2071	0	2500		82.8	66.2	120				
Surr: Dibromofluoromethane	2738	0	2500		110	79.5	121				
Surr: Toluene-d8	2294	0	2500		91.7	77	117				

Sample ID: 1410751-003AMSD	Client ID:	Units: ug/L	Prep Date: 10/09/2014	Run No: 277431							
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 197454	Analysis Date: 10/09/2014	Seq No: 5863611							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	2738	250	2500		110	60.2	159	2662	2.83	19.2	
Benzene	2654	250	2500		106	70.2	138	2668	0.526	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: Apollo--Smyrna
Workorder: 1410761

ANALYTICAL QC SUMMARY REPORT

BatchID: 197454

Sample ID: 1410751-003AMSD	Client ID:	Units: ug/L	Prep Date: 10/09/2014	Run No: 277431							
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 197454	Analysis Date: 10/09/2014	Seq No: 5863611							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chlorobenzene	2754	250	2500		110	70.1	133	2746	0.291	20	
Toluene	2721	250	2500		109	70	139	2726	0.184	20	
Trichloroethene	2644	250	2500		106	70.1	144	2672	1.03	20	
Surr: 4-Bromofluorobenzene	2078	0	2500		83.1	66.2	120	2071	0	0	
Surr: Dibromofluoromethane	2696	0	2500		108	79.5	121	2738	0	0	
Surr: Toluene-d8	2288	0	2500		91.5	77	117	2294	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: Apollo--Smyrna
Workorder: 1410761

ANALYTICAL QC SUMMARY REPORT

BatchID: 197734

Sample ID: MB-197734	Client ID:	Units: mg/L	Prep Date: 10/14/2014	Run No: 277926							
SampleType: MBLK	TestCode: Sulfide by SW9030B/9034	BatchID: 197734	Analysis Date: 10/14/2014	Seq No: 5873351							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Sulfide BRL 2.00

Sample ID: LCS-197734	Client ID:	Units: mg/L	Prep Date: 10/14/2014	Run No: 277926							
SampleType: LCS	TestCode: Sulfide by SW9030B/9034	BatchID: 197734	Analysis Date: 10/14/2014	Seq No: 5873352							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Sulfide 328.0 2.00 328.0 100 40 120

Sample ID: 1410708-001FMS	Client ID:	Units: mg/L	Prep Date: 10/14/2014	Run No: 277926							
SampleType: MS	TestCode: Sulfide by SW9030B/9034	BatchID: 197734	Analysis Date: 10/14/2014	Seq No: 5873367							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Sulfide 15.20 2.00 16.40 92.7 76.7 120

Sample ID: 1410708-001FMSD	Client ID:	Units: mg/L	Prep Date: 10/14/2014	Run No: 277926							
SampleType: MSD	TestCode: Sulfide by SW9030B/9034	BatchID: 197734	Analysis Date: 10/14/2014	Seq No: 5873368							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Sulfide 15.40 2.00 16.40 93.9 76.7 120 15.20 1.31 20

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: EarthCon Consultants, Inc.
Project Name: Apollo--Smyrna
Workorder: 1410761

ANALYTICAL QC SUMMARY REPORT

BatchID: R277601

Sample ID: MB-R277601	Client ID:	Units: mg/L	Prep Date:	Run No: 277601							
SampleType: MBLK	TestCode: ION SCAN SW9056A	BatchID: R277601	Analysis Date: 10/08/2014	Seq No: 5867519							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride	BRL	1.0									
Nitrate	BRL	0.25									
Sulfate	BRL	1.0									

Sample ID: LCS-R277601	Client ID:	Units: mg/L	Prep Date:	Run No: 277601							
SampleType: LCS	TestCode: ION SCAN SW9056A	BatchID: R277601	Analysis Date: 10/08/2014	Seq No: 5867520							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride	9.904	1.0	10.00		99.0	90	110				
Nitrate	4.873	0.25	5.000		97.5	90	110				
Sulfate	27.33	1.0	25.00		109	90	110				

Sample ID: 1410658-002EMS	Client ID:	Units: mg/L	Prep Date:	Run No: 277601							
SampleType: MS	TestCode: ION SCAN SW9056A	BatchID: R277601	Analysis Date: 10/08/2014	Seq No: 5867529							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride	14.27	1.0	10.00	4.403	98.7	90	110				
Nitrate	7.663	0.25	5.000	2.571	102	90	110				
Sulfate	24.87	1.0	25.00	1.322	94.2	90	110				

Sample ID: 141708-001DMS	Client ID:	Units: mg/L	Prep Date:	Run No: 277601							
SampleType: MS	TestCode: ION SCAN SW9056A	BatchID: R277601	Analysis Date: 10/08/2014	Seq No: 5867564							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride	27.32	1.0	10.00	18.27	90.5	90	110				
Nitrate	4.761	0.25	5.000		95.2	90	110				
Sulfate	36.80	1.0	25.00	12.91	95.6	90	110				

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: EarthCon Consultants, Inc.
Project Name: Apollo--Smyrna
Workorder: 1410761

ANALYTICAL QC SUMMARY REPORT

BatchID: R277601

Sample ID: 1410658-002EMSD	Client ID:	Units: mg/L	Prep Date:	Run No: 277601							
SampleType: MSD	TestCode: ION SCAN SW9056A	BatchID: R277601	Analysis Date: 10/08/2014	Seq No: 5867531							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride	14.60	1.0	10.00	4.403	102	90	110	14.27	2.28	20	
Nitrate	7.671	0.25	5.000	2.571	102	90	110	7.663	0.102	20	
Sulfate	25.32	1.0	25.00	1.322	96.0	90	110	24.87	1.80	20	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: Apollo--Smyrna
Workorder: 1410761

ANALYTICAL QC SUMMARY REPORT

BatchID: R277815

Sample ID: MB-R277815	Client ID:	Units: mg/L	Prep Date:	Run No: 277815							
SampleType: MBLK	TestCode: Total Organic Carbon (TOC) SW9060A	BatchID: R277815	Analysis Date: 10/13/2014	Seq No: 5870407							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Organic Carbon, Total

BRL 1.00

Sample ID: LCS-R277815	Client ID:	Units: mg/L	Prep Date:	Run No: 277815							
SampleType: LCS	TestCode: Total Organic Carbon (TOC) SW9060A	BatchID: R277815	Analysis Date: 10/13/2014	Seq No: 5870406							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Organic Carbon, Total

23.86 1.00 25.00 95.4 90 110

Sample ID: 1410751-001FMS	Client ID:	Units: mg/L	Prep Date:	Run No: 277815							
SampleType: MS	TestCode: Total Organic Carbon (TOC) SW9060A	BatchID: R277815	Analysis Date: 10/13/2014	Seq No: 5870427							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Organic Carbon, Total

50.16 1.00 25.00 26.52 94.6 80 120

Sample ID: 1410751-001FMSD	Client ID:	Units: mg/L	Prep Date:	Run No: 277815							
SampleType: MSD	TestCode: Total Organic Carbon (TOC) SW9060A	BatchID: R277815	Analysis Date: 10/13/2014	Seq No: 5870428							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Organic Carbon, Total

51.82 1.00 25.00 26.52 101 80 120 50.16 3.26 20

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
	BRL Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
	J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
	Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	

Client: EarthCon Consultants, Inc.
Project Name: Apollo--Smyrna
Workorder: 1410761

ANALYTICAL QC SUMMARY REPORT

BatchID: R277885

Sample ID: MB-R277885	Client ID:	Units: mg/L	Prep Date:	Run No: 277885							
SampleType: MBLK	TestCode: Alkalinity by SM2320B	BatchID: R277885	Analysis Date: 10/14/2014	Seq No: 5872234							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Alkalinity, Total (As CaCO3)

BRL 3.00

Sample ID: LCS-R277885	Client ID:	Units: mg/L	Prep Date:	Run No: 277885							
SampleType: LCS	TestCode: Alkalinity by SM2320B	BatchID: R277885	Analysis Date: 10/14/2014	Seq No: 5872235							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Alkalinity, Total (As CaCO3)

116.0 3.00 125.0 1.000 92.0 75 125

Sample ID: 1410689-007FDUP	Client ID:	Units: mg/L	Prep Date:	Run No: 277885							
SampleType: DUP	TestCode: Alkalinity by SM2320B	BatchID: R277885	Analysis Date: 10/14/2014	Seq No: 5872256							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Alkalinity, Total (As CaCO3)

109.0 3.00 111.0 1.82 30

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
	BRL Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
	J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
	Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	



October 20, 2014

Kristen Rivera
EarthCon Consultants, Inc.
1880 West Oak Parkway
Marietta GA 30062

TEL: (770) 973-2100
FAX: (770) 973-7395

RE: Apollo Smyrna

Dear Kristen Rivera:

Order No: 1410789

Analytical Environmental Services, Inc. received 6 samples on 10/8/2014 4:30:00 PM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/14-06/30/15.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/15.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Chantelle Kanhai
Project Manager

ANALYTICAL ENVIRONMENTAL SERVICES, INC

CHAIN OF CUSTODY

Work Order: 140789

3080 Presidential Drive, Atlanta GA 30340-3704

TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

Date: 10/8/14 Page 1 of 1

COMPANY: Earth Con		ADDRESS: 1880 West Oak Pkwy Bldg 100, Ste 106 Marietta, GA 30062			ANALYSIS REQUESTED										Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.		No # of Containers
PHONE: 770-973-2100		FAX:			TOC	Alkalinity	Sulfide	IONSCAN	Methane, Ethane, Propane, Butane	VOC							
SAMPLED BY: J McKenney		SIGNATURE: [Signature]			PRESERVATION (See codes)										REMARKS		
#	SAMPLE ID	DATE	TIME	Grab	Composite	Matrix (See codes)	M	I	N	I	M	M					
1	RW2	10/8/14	1045	X		GW	1	1	1	1	2	2					
2	RW1	10/8/14	1330	X		GW	1	1	1	1	2	2					
3	DW1	10/8/14	1455	X		GW	1	1	1	1	2	2					
4	DUP1	10/8/14	1200	X		GW	1	1	1	1	2	2					
5	Tri Blank											2					
6	MW1	10/8/14	1610	X		GW	1	1	1	1	2	2					
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
RELINQUISHED BY: [Signature]		DATE/TIME: 10/8/14 1630	RECEIVED BY: [Signature]		DATE/TIME: 10/8/14 1630	PROJECT INFORMATION						RECEIPT					
			2: [Signature]		10/8/14 4:30 PM	PROJECT NAME: Apollo Smyrna						Total # of Containers: 42					
			3: [Signature]			PROJECT #:						Turnaround Time Request					
						SITE ADDRESS:						<input checked="" type="radio"/> Standard 5 Business Days					
						SEND REPORT TO: Kristen Rivera						<input type="radio"/> 2 Business Day Rush					
						INVOICE TO: (IF DIFFERENT FROM ABOVE)						<input type="radio"/> Next Business Day Rush					
						SHIPMENT METHOD						<input type="radio"/> Same Day Rush (auth req.)					
						OUT / / VIA:						<input type="radio"/> Other					
						IN 10/8/14 VIA:						STATE PROGRAM (if any):					
						CLIXEN FedEx UPS MAIL COURIER						E-mail? Y/N; Fax? Y/N					
						GREYHOUND OTHER						DATA PACKAGE: I II III IV					
<p>SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY. IF TURNAROUND TIME IS NOT INDICATED, AES WILL PROCEED WITH STANDARD TAT OF SAMPLES.</p> <p>SAMPLES ARE DISPOSED 30 DAYS AFTER REPORT COMPLETION UNLESS OTHER ARRANGEMENTS ARE MADE.</p>																	

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water
 PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None
 White Copy - Original; Yellow Copy - Client
 Page 2 of 29

Analytical Environmental Services, Inc

Date: 20-Oct-14

Client: EarthCon Consultants, Inc.	Client Sample ID: RW2
Project Name: Apollo Smyrna	Collection Date: 10/8/2014 10:45:00 AM
Lab ID: 1410789-001	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) SW9060A								
Organic Carbon, Total	1.54	1.00		mg/L	R277878	1	10/14/2014 16:28	JM
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	14	5.0		ug/L	197550	1	10/13/2014 14:50	GC
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	197550	1	10/13/2014 14:50	GC
1,1,2-Trichloroethane	BRL	5.0		ug/L	197550	1	10/13/2014 14:50	GC
1,1-Dichloroethane	36	5.0		ug/L	197550	1	10/13/2014 14:50	GC
1,1-Dichloroethene	27	5.0		ug/L	197550	1	10/13/2014 14:50	GC
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	197550	1	10/13/2014 14:50	GC
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	197550	1	10/13/2014 14:50	GC
1,2-Dibromoethane	BRL	5.0		ug/L	197550	1	10/13/2014 14:50	GC
1,2-Dichlorobenzene	BRL	5.0		ug/L	197550	1	10/13/2014 14:50	GC
1,2-Dichloroethane	BRL	5.0		ug/L	197550	1	10/13/2014 14:50	GC
1,2-Dichloropropane	BRL	5.0		ug/L	197550	1	10/13/2014 14:50	GC
1,3-Dichlorobenzene	BRL	5.0		ug/L	197550	1	10/13/2014 14:50	GC
1,4-Dichlorobenzene	BRL	5.0		ug/L	197550	1	10/13/2014 14:50	GC
2-Butanone	BRL	50		ug/L	197550	1	10/13/2014 14:50	GC
2-Hexanone	BRL	10		ug/L	197550	1	10/13/2014 14:50	GC
4-Methyl-2-pentanone	BRL	10		ug/L	197550	1	10/13/2014 14:50	GC
Acetone	BRL	50		ug/L	197550	1	10/13/2014 14:50	GC
Benzene	BRL	5.0		ug/L	197550	1	10/13/2014 14:50	GC
Bromodichloromethane	BRL	5.0		ug/L	197550	1	10/13/2014 14:50	GC
Bromoform	BRL	5.0		ug/L	197550	1	10/13/2014 14:50	GC
Bromomethane	BRL	5.0		ug/L	197550	1	10/13/2014 14:50	GC
Carbon disulfide	BRL	5.0		ug/L	197550	1	10/13/2014 14:50	GC
Carbon tetrachloride	BRL	5.0		ug/L	197550	1	10/13/2014 14:50	GC
Chlorobenzene	BRL	5.0		ug/L	197550	1	10/13/2014 14:50	GC
Chloroethane	22	10		ug/L	197550	1	10/13/2014 14:50	GC
Chloroform	BRL	5.0		ug/L	197550	1	10/13/2014 14:50	GC
Chloromethane	BRL	10		ug/L	197550	1	10/13/2014 14:50	GC
cis-1,2-Dichloroethene	360	50		ug/L	197550	10	10/13/2014 20:12	GC
cis-1,3-Dichloropropene	BRL	5.0		ug/L	197550	1	10/13/2014 14:50	GC
Cyclohexane	BRL	5.0		ug/L	197550	1	10/13/2014 14:50	GC
Dibromochloromethane	75	5.0		ug/L	197550	1	10/13/2014 14:50	GC
Dichlorodifluoromethane	BRL	10		ug/L	197550	1	10/13/2014 14:50	GC
Ethylbenzene	BRL	5.0		ug/L	197550	1	10/13/2014 14:50	GC
Freon-113	BRL	10		ug/L	197550	1	10/13/2014 14:50	GC
Isopropylbenzene	BRL	5.0		ug/L	197550	1	10/13/2014 14:50	GC
m,p-Xylene	BRL	5.0		ug/L	197550	1	10/13/2014 14:50	GC
Methyl acetate	BRL	5.0		ug/L	197550	1	10/13/2014 14:50	GC
Methyl tert-butyl ether	BRL	5.0		ug/L	197550	1	10/13/2014 14:50	GC

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 20-Oct-14

Client: EarthCon Consultants, Inc.	Client Sample ID: RW2
Project Name: Apollo Smyrna	Collection Date: 10/8/2014 10:45:00 AM
Lab ID: 1410789-001	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
Methylcyclohexane	BRL	5.0		ug/L	197550	1	10/13/2014 14:50	GC
Methylene chloride	BRL	5.0		ug/L	197550	1	10/13/2014 14:50	GC
o-Xylene	BRL	5.0		ug/L	197550	1	10/13/2014 14:50	GC
Styrene	BRL	5.0		ug/L	197550	1	10/13/2014 14:50	GC
Tetrachloroethene	130	5.0		ug/L	197550	1	10/13/2014 14:50	GC
Toluene	BRL	5.0		ug/L	197550	1	10/13/2014 14:50	GC
trans-1,2-Dichloroethene	BRL	5.0		ug/L	197550	1	10/13/2014 14:50	GC
trans-1,3-Dichloropropene	BRL	5.0		ug/L	197550	1	10/13/2014 14:50	GC
Trichloroethene	180	50		ug/L	197550	10	10/13/2014 20:12	GC
Trichlorofluoromethane	BRL	5.0		ug/L	197550	1	10/13/2014 14:50	GC
Vinyl chloride	8.8	2.0		ug/L	197550	1	10/13/2014 14:50	GC
Surr: 4-Bromofluorobenzene	81	66.2-120		%REC	197550	1	10/13/2014 14:50	GC
Surr: 4-Bromofluorobenzene	82.6	66.2-120		%REC	197550	10	10/13/2014 20:12	GC
Surr: Dibromofluoromethane	105	79.5-121		%REC	197550	1	10/13/2014 14:50	GC
Surr: Dibromofluoromethane	107	79.5-121		%REC	197550	10	10/13/2014 20:12	GC
Surr: Toluene-d8	96.8	77-117		%REC	197550	10	10/13/2014 20:12	GC
Surr: Toluene-d8	93.7	77-117		%REC	197550	1	10/13/2014 14:50	GC
Sulfide by SW9030B/9034 (SW9030B)								
Sulfide	BRL	2.00		mg/L	197735	1	10/15/2014 08:55	AB
ION SCAN SW9056A								
Chloride	37	1.0		mg/L	R277816	1	10/09/2014 10:20	YS
Nitrate	BRL	0.25		mg/L	R277816	1	10/09/2014 10:20	YS
Sulfate	4.4	1.0		mg/L	R277816	1	10/09/2014 10:20	YS
GC Analysis of Gaseous Samples SOP-RSK 175 (RSK175)								
Ethane	BRL	9		ug/L	197404	1	10/10/2014 17:45	JM
Ethylene	8	7		ug/L	197404	1	10/10/2014 17:45	JM
Methane	26	4		ug/L	197404	1	10/10/2014 17:45	JM
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	44.0	3.00		mg/L	R277885	1	10/14/2014 15:00	PF

Qualifiers:

- * Value exceeds maximum contaminant level
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- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 20-Oct-14

Client: EarthCon Consultants, Inc.	Client Sample ID: RW1
Project Name: Apollo Smyrna	Collection Date: 10/8/2014 1:30:00 PM
Lab ID: 1410789-002	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) SW9060A								
Organic Carbon, Total	47.9	5.00		mg/L	R277878	5	10/14/2014 16:52	JM
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	300	50		ug/L	197550	10	10/13/2014 19:15	GC
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	197550	1	10/11/2014 02:58	GC
1,1,2-Trichloroethane	BRL	5.0		ug/L	197550	1	10/11/2014 02:58	GC
1,1-Dichloroethane	1800	50		ug/L	197550	10	10/13/2014 19:15	GC
1,1-Dichloroethene	1200	50		ug/L	197550	10	10/13/2014 19:15	GC
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	197550	1	10/11/2014 02:58	GC
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	197550	1	10/11/2014 02:58	GC
1,2-Dibromoethane	BRL	5.0		ug/L	197550	1	10/11/2014 02:58	GC
1,2-Dichlorobenzene	BRL	5.0		ug/L	197550	1	10/11/2014 02:58	GC
1,2-Dichloroethane	15	5.0		ug/L	197550	1	10/11/2014 02:58	GC
1,2-Dichloropropane	BRL	5.0		ug/L	197550	1	10/11/2014 02:58	GC
1,3-Dichlorobenzene	BRL	5.0		ug/L	197550	1	10/11/2014 02:58	GC
1,4-Dichlorobenzene	BRL	5.0		ug/L	197550	1	10/11/2014 02:58	GC
2-Butanone	BRL	50		ug/L	197550	1	10/11/2014 02:58	GC
2-Hexanone	BRL	10		ug/L	197550	1	10/11/2014 02:58	GC
4-Methyl-2-pentanone	BRL	10		ug/L	197550	1	10/11/2014 02:58	GC
Acetone	1700	500		ug/L	197550	10	10/13/2014 19:15	GC
Benzene	BRL	5.0		ug/L	197550	1	10/11/2014 02:58	GC
Bromodichloromethane	BRL	5.0		ug/L	197550	1	10/11/2014 02:58	GC
Bromoform	BRL	5.0		ug/L	197550	1	10/11/2014 02:58	GC
Bromomethane	BRL	5.0		ug/L	197550	1	10/11/2014 02:58	GC
Carbon disulfide	BRL	5.0		ug/L	197550	1	10/11/2014 02:58	GC
Carbon tetrachloride	BRL	5.0		ug/L	197550	1	10/11/2014 02:58	GC
Chlorobenzene	BRL	5.0		ug/L	197550	1	10/11/2014 02:58	GC
Chloroethane	780	100		ug/L	197550	10	10/13/2014 19:15	GC
Chloroform	BRL	5.0		ug/L	197550	1	10/11/2014 02:58	GC
Chloromethane	BRL	10		ug/L	197550	1	10/11/2014 02:58	GC
cis-1,2-Dichloroethene	150	5.0		ug/L	197550	1	10/11/2014 02:58	GC
cis-1,3-Dichloropropene	BRL	5.0		ug/L	197550	1	10/11/2014 02:58	GC
Cyclohexane	BRL	5.0		ug/L	197550	1	10/11/2014 02:58	GC
Dibromochloromethane	BRL	5.0		ug/L	197550	1	10/11/2014 02:58	GC
Dichlorodifluoromethane	BRL	10		ug/L	197550	1	10/11/2014 02:58	GC
Ethylbenzene	6.5	5.0		ug/L	197550	1	10/11/2014 02:58	GC
Freon-113	130	10		ug/L	197550	1	10/11/2014 02:58	GC
Isopropylbenzene	BRL	5.0		ug/L	197550	1	10/11/2014 02:58	GC
m,p-Xylene	38	5.0		ug/L	197550	1	10/11/2014 02:58	GC
Methyl acetate	BRL	5.0		ug/L	197550	1	10/11/2014 02:58	GC
Methyl tert-butyl ether	BRL	5.0		ug/L	197550	1	10/11/2014 02:58	GC

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: EarthCon Consultants, Inc.	Client Sample ID: RW1
Project Name: Apollo Smyrna	Collection Date: 10/8/2014 1:30:00 PM
Lab ID: 1410789-002	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					(SW5030B)			
Methylcyclohexane	BRL	5.0		ug/L	197550	1	10/11/2014 02:58	GC
Methylene chloride	200	5.0		ug/L	197550	1	10/11/2014 02:58	GC
o-Xylene	61	5.0		ug/L	197550	1	10/11/2014 02:58	GC
Styrene	BRL	5.0		ug/L	197550	1	10/11/2014 02:58	GC
Tetrachloroethene	7.2	5.0		ug/L	197550	1	10/11/2014 02:58	GC
Toluene	450	50		ug/L	197550	10	10/13/2014 19:15	GC
trans-1,2-Dichloroethene	BRL	5.0		ug/L	197550	1	10/11/2014 02:58	GC
trans-1,3-Dichloropropene	BRL	5.0		ug/L	197550	1	10/11/2014 02:58	GC
Trichloroethene	14	5.0		ug/L	197550	1	10/11/2014 02:58	GC
Trichlorofluoromethane	BRL	5.0		ug/L	197550	1	10/11/2014 02:58	GC
Vinyl chloride	610	20		ug/L	197550	10	10/13/2014 19:15	GC
Surr: 4-Bromofluorobenzene	88.6	66.2-120		%REC	197550	10	10/13/2014 19:15	GC
Surr: 4-Bromofluorobenzene	105	66.2-120		%REC	197550	1	10/11/2014 02:58	GC
Surr: Dibromofluoromethane	109	79.5-121		%REC	197550	10	10/13/2014 19:15	GC
Surr: Dibromofluoromethane	113	79.5-121		%REC	197550	1	10/11/2014 02:58	GC
Surr: Toluene-d8	98.3	77-117		%REC	197550	10	10/13/2014 19:15	GC
Surr: Toluene-d8	101	77-117		%REC	197550	1	10/11/2014 02:58	GC
Sulfide by SW9030B/9034					(SW9030B)			
Sulfide	BRL	2.00		mg/L	197735	1	10/15/2014 08:55	AB
ION SCAN SW9056A								
Chloride	150	10		mg/L	R277816	10	10/09/2014 15:00	YS
Nitrate	BRL	0.25		mg/L	R277816	1	10/09/2014 10:35	YS
Sulfate	BRL	1.0		mg/L	R277816	1	10/09/2014 10:35	YS
GC Analysis of Gaseous Samples SOP-RSK 175					(RSK175)			
Ethane	BRL	9		ug/L	197404	1	10/10/2014 18:04	JM
Ethylene	770	140		ug/L	197404	20	10/10/2014 18:26	JM
Methane	3600	80		ug/L	197404	20	10/10/2014 18:26	JM
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	290	30.0		mg/L	R277885	10	10/14/2014 15:00	PF

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 20-Oct-14

Client: EarthCon Consultants, Inc.	Client Sample ID: DW1
Project Name: Apollo Smyrna	Collection Date: 10/8/2014 2:55:00 PM
Lab ID: 1410789-003	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) SW9060A								
Organic Carbon, Total	25.8	5.00		mg/L	R277878	5	10/14/2014 17:15	JM
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	200	50		ug/L	197550	10	10/13/2014 17:22	GC
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	197550	1	10/11/2014 02:31	GC
1,1,2-Trichloroethane	BRL	5.0		ug/L	197550	1	10/11/2014 02:31	GC
1,1-Dichloroethane	500	50		ug/L	197550	10	10/13/2014 17:22	GC
1,1-Dichloroethene	760	50		ug/L	197550	10	10/13/2014 17:22	GC
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	197550	1	10/11/2014 02:31	GC
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	197550	1	10/11/2014 02:31	GC
1,2-Dibromoethane	BRL	5.0		ug/L	197550	1	10/11/2014 02:31	GC
1,2-Dichlorobenzene	BRL	5.0		ug/L	197550	1	10/11/2014 02:31	GC
1,2-Dichloroethane	9.1	5.0		ug/L	197550	1	10/11/2014 02:31	GC
1,2-Dichloropropane	BRL	5.0		ug/L	197550	1	10/11/2014 02:31	GC
1,3-Dichlorobenzene	BRL	5.0		ug/L	197550	1	10/11/2014 02:31	GC
1,4-Dichlorobenzene	BRL	5.0		ug/L	197550	1	10/11/2014 02:31	GC
2-Butanone	BRL	50		ug/L	197550	1	10/11/2014 02:31	GC
2-Hexanone	BRL	10		ug/L	197550	1	10/11/2014 02:31	GC
4-Methyl-2-pentanone	BRL	10		ug/L	197550	1	10/11/2014 02:31	GC
Acetone	360	50		ug/L	197550	1	10/11/2014 02:31	GC
Benzene	BRL	5.0		ug/L	197550	1	10/11/2014 02:31	GC
Bromodichloromethane	BRL	5.0		ug/L	197550	1	10/11/2014 02:31	GC
Bromoform	BRL	5.0		ug/L	197550	1	10/11/2014 02:31	GC
Bromomethane	BRL	5.0		ug/L	197550	1	10/11/2014 02:31	GC
Carbon disulfide	BRL	5.0		ug/L	197550	1	10/11/2014 02:31	GC
Carbon tetrachloride	BRL	5.0		ug/L	197550	1	10/11/2014 02:31	GC
Chlorobenzene	BRL	5.0		ug/L	197550	1	10/11/2014 02:31	GC
Chloroethane	890	100		ug/L	197550	10	10/13/2014 17:22	GC
Chloroform	BRL	5.0		ug/L	197550	1	10/11/2014 02:31	GC
Chloromethane	BRL	10		ug/L	197550	1	10/11/2014 02:31	GC
cis-1,2-Dichloroethene	290	50		ug/L	197550	10	10/13/2014 17:22	GC
cis-1,3-Dichloropropene	BRL	5.0		ug/L	197550	1	10/11/2014 02:31	GC
Cyclohexane	BRL	5.0		ug/L	197550	1	10/11/2014 02:31	GC
Dibromochloromethane	BRL	5.0		ug/L	197550	1	10/11/2014 02:31	GC
Dichlorodifluoromethane	BRL	10		ug/L	197550	1	10/11/2014 02:31	GC
Ethylbenzene	5.1	5.0		ug/L	197550	1	10/11/2014 02:31	GC
Freon-113	100	10		ug/L	197550	1	10/11/2014 02:31	GC
Isopropylbenzene	BRL	5.0		ug/L	197550	1	10/11/2014 02:31	GC
m,p-Xylene	17	5.0		ug/L	197550	1	10/11/2014 02:31	GC
Methyl acetate	BRL	5.0		ug/L	197550	1	10/11/2014 02:31	GC
Methyl tert-butyl ether	BRL	5.0		ug/L	197550	1	10/11/2014 02:31	GC

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: EarthCon Consultants, Inc.	Client Sample ID: DW1
Project Name: Apollo Smyrna	Collection Date: 10/8/2014 2:55:00 PM
Lab ID: 1410789-003	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					(SW5030B)			
Methylcyclohexane	BRL	5.0		ug/L	197550	1	10/11/2014 02:31	GC
Methylene chloride	22	5.0		ug/L	197550	1	10/11/2014 02:31	GC
o-Xylene	7.2	5.0		ug/L	197550	1	10/11/2014 02:31	GC
Styrene	BRL	5.0		ug/L	197550	1	10/11/2014 02:31	GC
Tetrachloroethene	97	5.0		ug/L	197550	1	10/11/2014 02:31	GC
Toluene	500	50		ug/L	197550	10	10/13/2014 17:22	GC
trans-1,2-Dichloroethene	BRL	5.0		ug/L	197550	1	10/11/2014 02:31	GC
trans-1,3-Dichloropropene	BRL	5.0		ug/L	197550	1	10/11/2014 02:31	GC
Trichloroethene	67	5.0		ug/L	197550	1	10/11/2014 02:31	GC
Trichlorofluoromethane	BRL	5.0		ug/L	197550	1	10/11/2014 02:31	GC
Vinyl chloride	110	2.0		ug/L	197550	1	10/11/2014 02:31	GC
Surr: 4-Bromofluorobenzene	84.6	66.2-120		%REC	197550	10	10/13/2014 17:22	GC
Surr: 4-Bromofluorobenzene	96.9	66.2-120		%REC	197550	1	10/11/2014 02:31	GC
Surr: Dibromofluoromethane	107	79.5-121		%REC	197550	10	10/13/2014 17:22	GC
Surr: Dibromofluoromethane	112	79.5-121		%REC	197550	1	10/11/2014 02:31	GC
Surr: Toluene-d8	98.9	77-117		%REC	197550	1	10/11/2014 02:31	GC
Surr: Toluene-d8	98.3	77-117		%REC	197550	10	10/13/2014 17:22	GC
Sulfide by SW9030B/9034					(SW9030B)			
Sulfide	BRL	2.00		mg/L	197735	1	10/15/2014 08:55	AB
ION SCAN SW9056A								
Chloride	52	2.0		mg/L	R277816	2	10/09/2014 19:08	YS
Nitrate	BRL	0.25		mg/L	R277816	1	10/09/2014 10:49	YS
Sulfate	BRL	1.0		mg/L	R277816	1	10/09/2014 10:49	YS
GC Analysis of Gaseous Samples SOP-RSK 175					(RSK175)			
Ethane	BRL	9		ug/L	197404	1	10/10/2014 18:08	JM
Ethylene	350	7		ug/L	197404	1	10/10/2014 18:08	JM
Methane	980	20		ug/L	197404	5	10/10/2014 18:32	JM
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	115	3.00		mg/L	R277885	1	10/14/2014 15:00	PF

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 20-Oct-14

Client: EarthCon Consultants, Inc.	Client Sample ID: DUP 1
Project Name: Apollo Smyrna	Collection Date: 10/8/2014 12:00:00 PM
Lab ID: 1410789-004	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) SW9060A								
Organic Carbon, Total	3.66	1.00		mg/L	R277878	1	10/14/2014 17:38	JM
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	19	5.0		ug/L	197550	1	10/11/2014 02:03	GC
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	197550	1	10/11/2014 02:03	GC
1,1,2-Trichloroethane	BRL	5.0		ug/L	197550	1	10/11/2014 02:03	GC
1,1-Dichloroethane	38	5.0		ug/L	197550	1	10/11/2014 02:03	GC
1,1-Dichloroethene	31	5.0		ug/L	197550	1	10/11/2014 02:03	GC
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	197550	1	10/11/2014 02:03	GC
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	197550	1	10/11/2014 02:03	GC
1,2-Dibromoethane	BRL	5.0		ug/L	197550	1	10/11/2014 02:03	GC
1,2-Dichlorobenzene	BRL	5.0		ug/L	197550	1	10/11/2014 02:03	GC
1,2-Dichloroethane	BRL	5.0		ug/L	197550	1	10/11/2014 02:03	GC
1,2-Dichloropropane	BRL	5.0		ug/L	197550	1	10/11/2014 02:03	GC
1,3-Dichlorobenzene	BRL	5.0		ug/L	197550	1	10/11/2014 02:03	GC
1,4-Dichlorobenzene	BRL	5.0		ug/L	197550	1	10/11/2014 02:03	GC
2-Butanone	BRL	50		ug/L	197550	1	10/11/2014 02:03	GC
2-Hexanone	BRL	10		ug/L	197550	1	10/11/2014 02:03	GC
4-Methyl-2-pentanone	BRL	10		ug/L	197550	1	10/11/2014 02:03	GC
Acetone	BRL	50		ug/L	197550	1	10/11/2014 02:03	GC
Benzene	BRL	5.0		ug/L	197550	1	10/11/2014 02:03	GC
Bromodichloromethane	BRL	5.0		ug/L	197550	1	10/11/2014 02:03	GC
Bromoform	BRL	5.0		ug/L	197550	1	10/11/2014 02:03	GC
Bromomethane	BRL	5.0		ug/L	197550	1	10/11/2014 02:03	GC
Carbon disulfide	BRL	5.0		ug/L	197550	1	10/11/2014 02:03	GC
Carbon tetrachloride	BRL	5.0		ug/L	197550	1	10/11/2014 02:03	GC
Chlorobenzene	BRL	5.0		ug/L	197550	1	10/11/2014 02:03	GC
Chloroethane	26	10		ug/L	197550	1	10/11/2014 02:03	GC
Chloroform	BRL	5.0		ug/L	197550	1	10/11/2014 02:03	GC
Chloromethane	BRL	10		ug/L	197550	1	10/11/2014 02:03	GC
cis-1,2-Dichloroethene	360	50		ug/L	197550	10	10/13/2014 17:51	GC
cis-1,3-Dichloropropene	BRL	5.0		ug/L	197550	1	10/11/2014 02:03	GC
Cyclohexane	BRL	5.0		ug/L	197550	1	10/11/2014 02:03	GC
Dibromochloromethane	BRL	5.0		ug/L	197550	1	10/11/2014 02:03	GC
Dichlorodifluoromethane	BRL	10		ug/L	197550	1	10/11/2014 02:03	GC
Ethylbenzene	BRL	5.0		ug/L	197550	1	10/11/2014 02:03	GC
Freon-113	BRL	10		ug/L	197550	1	10/11/2014 02:03	GC
Isopropylbenzene	BRL	5.0		ug/L	197550	1	10/11/2014 02:03	GC
m,p-Xylene	BRL	5.0		ug/L	197550	1	10/11/2014 02:03	GC
Methyl acetate	BRL	5.0		ug/L	197550	1	10/11/2014 02:03	GC
Methyl tert-butyl ether	BRL	5.0		ug/L	197550	1	10/11/2014 02:03	GC

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 20-Oct-14

Client: EarthCon Consultants, Inc.	Client Sample ID: DUP 1
Project Name: Apollo Smyrna	Collection Date: 10/8/2014 12:00:00 PM
Lab ID: 1410789-004	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					(SW5030B)			
Methylcyclohexane	BRL	5.0		ug/L	197550	1	10/11/2014 02:03	GC
Methylene chloride	BRL	5.0		ug/L	197550	1	10/11/2014 02:03	GC
o-Xylene	BRL	5.0		ug/L	197550	1	10/11/2014 02:03	GC
Styrene	BRL	5.0		ug/L	197550	1	10/11/2014 02:03	GC
Tetrachloroethene	120	5.0		ug/L	197550	1	10/11/2014 02:03	GC
Toluene	BRL	5.0		ug/L	197550	1	10/11/2014 02:03	GC
trans-1,2-Dichloroethene	BRL	5.0		ug/L	197550	1	10/11/2014 02:03	GC
trans-1,3-Dichloropropene	BRL	5.0		ug/L	197550	1	10/11/2014 02:03	GC
Trichloroethene	200	50		ug/L	197550	10	10/13/2014 17:51	GC
Trichlorofluoromethane	BRL	5.0		ug/L	197550	1	10/11/2014 02:03	GC
Vinyl chloride	9.4	2.0		ug/L	197550	1	10/11/2014 02:03	GC
Surr: 4-Bromofluorobenzene	83.3	66.2-120		%REC	197550	10	10/13/2014 17:51	GC
Surr: 4-Bromofluorobenzene	90.7	66.2-120		%REC	197550	1	10/11/2014 02:03	GC
Surr: Dibromofluoromethane	106	79.5-121		%REC	197550	10	10/13/2014 17:51	GC
Surr: Dibromofluoromethane	112	79.5-121		%REC	197550	1	10/11/2014 02:03	GC
Surr: Toluene-d8	95.3	77-117		%REC	197550	1	10/11/2014 02:03	GC
Surr: Toluene-d8	97.6	77-117		%REC	197550	10	10/13/2014 17:51	GC
Sulfide by SW9030B/9034					(SW9030B)			
Sulfide	BRL	2.00		mg/L	197735	1	10/15/2014 08:55	AB
ION SCAN SW9056A								
Chloride	37	1.0		mg/L	R277816	1	10/09/2014 11:04	YS
Nitrate	BRL	0.25		mg/L	R277816	1	10/09/2014 11:04	YS
Sulfate	4.4	1.0		mg/L	R277816	1	10/09/2014 11:04	YS
GC Analysis of Gaseous Samples SOP-RSK 175					(RSK175)			
Ethane	BRL	9		ug/L	197404	1	10/10/2014 18:13	JM
Ethylene	9	7		ug/L	197404	1	10/10/2014 18:13	JM
Methane	26	4		ug/L	197404	1	10/10/2014 18:13	JM
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	42.0	3.00		mg/L	R277885	1	10/14/2014 15:00	PF

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: EarthCon Consultants, Inc.	Client Sample ID: TRIP BLANK
Project Name: Apollo Smyrna	Collection Date: 10/8/2014
Lab ID: 1410789-005	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	197550	1	10/10/2014 17:41	GC
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	197550	1	10/10/2014 17:41	GC
1,1,2-Trichloroethane	BRL	5.0		ug/L	197550	1	10/10/2014 17:41	GC
1,1-Dichloroethane	BRL	5.0		ug/L	197550	1	10/10/2014 17:41	GC
1,1-Dichloroethene	BRL	5.0		ug/L	197550	1	10/10/2014 17:41	GC
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	197550	1	10/10/2014 17:41	GC
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	197550	1	10/10/2014 17:41	GC
1,2-Dibromoethane	BRL	5.0		ug/L	197550	1	10/10/2014 17:41	GC
1,2-Dichlorobenzene	BRL	5.0		ug/L	197550	1	10/10/2014 17:41	GC
1,2-Dichloroethane	BRL	5.0		ug/L	197550	1	10/10/2014 17:41	GC
1,2-Dichloropropane	BRL	5.0		ug/L	197550	1	10/10/2014 17:41	GC
1,3-Dichlorobenzene	BRL	5.0		ug/L	197550	1	10/10/2014 17:41	GC
1,4-Dichlorobenzene	BRL	5.0		ug/L	197550	1	10/10/2014 17:41	GC
2-Butanone	BRL	50		ug/L	197550	1	10/10/2014 17:41	GC
2-Hexanone	BRL	10		ug/L	197550	1	10/10/2014 17:41	GC
4-Methyl-2-pentanone	BRL	10		ug/L	197550	1	10/10/2014 17:41	GC
Acetone	BRL	50		ug/L	197550	1	10/10/2014 17:41	GC
Benzene	BRL	5.0		ug/L	197550	1	10/10/2014 17:41	GC
Bromodichloromethane	BRL	5.0		ug/L	197550	1	10/10/2014 17:41	GC
Bromoform	BRL	5.0		ug/L	197550	1	10/10/2014 17:41	GC
Bromomethane	BRL	5.0		ug/L	197550	1	10/10/2014 17:41	GC
Carbon disulfide	BRL	5.0		ug/L	197550	1	10/10/2014 17:41	GC
Carbon tetrachloride	BRL	5.0		ug/L	197550	1	10/10/2014 17:41	GC
Chlorobenzene	BRL	5.0		ug/L	197550	1	10/10/2014 17:41	GC
Chloroethane	BRL	10		ug/L	197550	1	10/10/2014 17:41	GC
Chloroform	BRL	5.0		ug/L	197550	1	10/10/2014 17:41	GC
Chloromethane	BRL	10		ug/L	197550	1	10/10/2014 17:41	GC
cis-1,2-Dichloroethene	BRL	5.0		ug/L	197550	1	10/10/2014 17:41	GC
cis-1,3-Dichloropropene	BRL	5.0		ug/L	197550	1	10/10/2014 17:41	GC
Cyclohexane	BRL	5.0		ug/L	197550	1	10/10/2014 17:41	GC
Dibromochloromethane	BRL	5.0		ug/L	197550	1	10/10/2014 17:41	GC
Dichlorodifluoromethane	BRL	10		ug/L	197550	1	10/10/2014 17:41	GC
Ethylbenzene	BRL	5.0		ug/L	197550	1	10/10/2014 17:41	GC
Freon-113	BRL	10		ug/L	197550	1	10/10/2014 17:41	GC
Isopropylbenzene	BRL	5.0		ug/L	197550	1	10/10/2014 17:41	GC
m,p-Xylene	BRL	5.0		ug/L	197550	1	10/10/2014 17:41	GC
Methyl acetate	BRL	5.0		ug/L	197550	1	10/10/2014 17:41	GC
Methyl tert-butyl ether	BRL	5.0		ug/L	197550	1	10/10/2014 17:41	GC
Methylcyclohexane	BRL	5.0		ug/L	197550	1	10/10/2014 17:41	GC
Methylene chloride	BRL	5.0		ug/L	197550	1	10/10/2014 17:41	GC
o-Xylene	BRL	5.0		ug/L	197550	1	10/10/2014 17:41	GC

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: EarthCon Consultants, Inc.	Client Sample ID: TRIP BLANK
Project Name: Apollo Smyrna	Collection Date: 10/8/2014
Lab ID: 1410789-005	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					(SW5030B)			
Styrene	BRL	5.0		ug/L	197550	1	10/10/2014 17:41	GC
Tetrachloroethene	BRL	5.0		ug/L	197550	1	10/10/2014 17:41	GC
Toluene	BRL	5.0		ug/L	197550	1	10/10/2014 17:41	GC
trans-1,2-Dichloroethene	BRL	5.0		ug/L	197550	1	10/10/2014 17:41	GC
trans-1,3-Dichloropropene	BRL	5.0		ug/L	197550	1	10/10/2014 17:41	GC
Trichloroethene	BRL	5.0		ug/L	197550	1	10/10/2014 17:41	GC
Trichlorofluoromethane	BRL	5.0		ug/L	197550	1	10/10/2014 17:41	GC
Vinyl chloride	BRL	2.0		ug/L	197550	1	10/10/2014 17:41	GC
Surr: 4-Bromofluorobenzene	95.8	66.2-120		%REC	197550	1	10/10/2014 17:41	GC
Surr: Dibromofluoromethane	107	79.5-121		%REC	197550	1	10/10/2014 17:41	GC
Surr: Toluene-d8	95.6	77-117		%REC	197550	1	10/10/2014 17:41	GC

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 20-Oct-14

Client: EarthCon Consultants, Inc.	Client Sample ID: MW 1
Project Name: Apollo Smyrna	Collection Date: 10/8/2014 4:10:00 PM
Lab ID: 1410789-006	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) SW9060A								
Organic Carbon, Total	22.3	5.00		mg/L	R277878	5	10/14/2014 18:04	JM
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	90	5.0		ug/L	197550	1	10/11/2014 01:35	GC
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	197550	1	10/11/2014 01:35	GC
1,1,2-Trichloroethane	BRL	5.0		ug/L	197550	1	10/11/2014 01:35	GC
1,1-Dichloroethane	190	5.0		ug/L	197550	1	10/11/2014 01:35	GC
1,1-Dichloroethene	12	5.0		ug/L	197550	1	10/11/2014 01:35	GC
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	197550	1	10/11/2014 01:35	GC
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	197550	1	10/11/2014 01:35	GC
1,2-Dibromoethane	BRL	5.0		ug/L	197550	1	10/11/2014 01:35	GC
1,2-Dichlorobenzene	BRL	5.0		ug/L	197550	1	10/11/2014 01:35	GC
1,2-Dichloroethane	BRL	5.0		ug/L	197550	1	10/11/2014 01:35	GC
1,2-Dichloropropane	BRL	5.0		ug/L	197550	1	10/11/2014 01:35	GC
1,3-Dichlorobenzene	BRL	5.0		ug/L	197550	1	10/11/2014 01:35	GC
1,4-Dichlorobenzene	BRL	5.0		ug/L	197550	1	10/11/2014 01:35	GC
2-Butanone	BRL	50		ug/L	197550	1	10/11/2014 01:35	GC
2-Hexanone	10	10		ug/L	197550	1	10/11/2014 01:35	GC
4-Methyl-2-pentanone	BRL	10		ug/L	197550	1	10/11/2014 01:35	GC
Acetone	170	50		ug/L	197550	1	10/11/2014 01:35	GC
Benzene	BRL	5.0		ug/L	197550	1	10/11/2014 01:35	GC
Bromodichloromethane	BRL	5.0		ug/L	197550	1	10/11/2014 01:35	GC
Bromoform	BRL	5.0		ug/L	197550	1	10/11/2014 01:35	GC
Bromomethane	BRL	5.0		ug/L	197550	1	10/11/2014 01:35	GC
Carbon disulfide	13	5.0		ug/L	197550	1	10/11/2014 01:35	GC
Carbon tetrachloride	BRL	5.0		ug/L	197550	1	10/11/2014 01:35	GC
Chlorobenzene	BRL	5.0		ug/L	197550	1	10/11/2014 01:35	GC
Chloroethane	BRL	10		ug/L	197550	1	10/11/2014 01:35	GC
Chloroform	BRL	5.0		ug/L	197550	1	10/11/2014 01:35	GC
Chloromethane	BRL	10		ug/L	197550	1	10/11/2014 01:35	GC
cis-1,2-Dichloroethene	160	5.0		ug/L	197550	1	10/11/2014 01:35	GC
cis-1,3-Dichloropropene	BRL	5.0		ug/L	197550	1	10/11/2014 01:35	GC
Cyclohexane	BRL	5.0		ug/L	197550	1	10/11/2014 01:35	GC
Dibromochloromethane	BRL	5.0		ug/L	197550	1	10/11/2014 01:35	GC
Dichlorodifluoromethane	BRL	10		ug/L	197550	1	10/11/2014 01:35	GC
Ethylbenzene	BRL	5.0		ug/L	197550	1	10/11/2014 01:35	GC
Freon-113	BRL	10		ug/L	197550	1	10/11/2014 01:35	GC
Isopropylbenzene	BRL	5.0		ug/L	197550	1	10/11/2014 01:35	GC
m,p-Xylene	BRL	5.0		ug/L	197550	1	10/11/2014 01:35	GC
Methyl acetate	BRL	5.0		ug/L	197550	1	10/11/2014 01:35	GC
Methyl tert-butyl ether	BRL	5.0		ug/L	197550	1	10/11/2014 01:35	GC

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: EarthCon Consultants, Inc.	Client Sample ID: MW 1
Project Name: Apollo Smyrna	Collection Date: 10/8/2014 4:10:00 PM
Lab ID: 1410789-006	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					(SW5030B)			
Methylcyclohexane	BRL	5.0		ug/L	197550	1	10/11/2014 01:35	GC
Methylene chloride	BRL	5.0		ug/L	197550	1	10/11/2014 01:35	GC
o-Xylene	BRL	5.0		ug/L	197550	1	10/11/2014 01:35	GC
Styrene	BRL	5.0		ug/L	197550	1	10/11/2014 01:35	GC
Tetrachloroethene	BRL	5.0		ug/L	197550	1	10/11/2014 01:35	GC
Toluene	18	5.0		ug/L	197550	1	10/11/2014 01:35	GC
trans-1,2-Dichloroethene	BRL	5.0		ug/L	197550	1	10/11/2014 01:35	GC
trans-1,3-Dichloropropene	BRL	5.0		ug/L	197550	1	10/11/2014 01:35	GC
Trichloroethene	47	5.0		ug/L	197550	1	10/11/2014 01:35	GC
Trichlorofluoromethane	BRL	5.0		ug/L	197550	1	10/11/2014 01:35	GC
Vinyl chloride	82	2.0		ug/L	197550	1	10/11/2014 01:35	GC
Surr: 4-Bromofluorobenzene	94.5	66.2-120		%REC	197550	1	10/11/2014 01:35	GC
Surr: Dibromofluoromethane	112	79.5-121		%REC	197550	1	10/11/2014 01:35	GC
Surr: Toluene-d8	99.7	77-117		%REC	197550	1	10/11/2014 01:35	GC
Sulfide by SW9030B/9034					(SW9030B)			
Sulfide	BRL	2.00		mg/L	197735	1	10/15/2014 08:55	AB
ION SCAN SW9056A								
Chloride	58	2.0		mg/L	R277816	2	10/09/2014 19:22	YS
Nitrate	BRL	0.25		mg/L	R277816	1	10/09/2014 11:19	YS
Sulfate	15	1.0		mg/L	R277816	1	10/09/2014 11:19	YS
GC Analysis of Gaseous Samples SOP-RSK 175					(RSK175)			
Ethane	BRL	9		ug/L	197643	1	10/14/2014 15:01	JM
Ethylene	25	7		ug/L	197643	1	10/14/2014 15:01	JM
Methane	55	4		ug/L	197643	1	10/14/2014 15:01	JM
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	84.0	3.00		mg/L	R277885	1	10/14/2014 15:00	PF

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Earth Con

Work Order Number 1410789

Checklist completed by MJ Signature 10/8/14 Date

Carrier name: FedEx UPS Courier Client US Mail Other

Shipping container/cooler in good condition? Yes No Not Present

Custody seals intact on shipping container/cooler? Yes No Not Present

Custody seals intact on sample bottles? Yes No Not Present

Container/Temp Blank temperature in compliance? (0°≤6°C)* Yes No

Cooler #1 3.1' Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Chain of custody present? Yes No

Chain of custody signed when relinquished and received? Yes No

Chain of custody agrees with sample labels? Yes No

Samples in proper container/bottle? Yes No

Sample containers intact? Yes No

Sufficient sample volume for indicated test? Yes No

All samples received within holding time? Yes No

Was TAT marked on the COC? Yes No

Proceed with Standard TAT as per project history? Yes No Not Applicable

Water - VOA vials have zero headspace? No VOA vials submitted Yes No

Water - pH acceptable upon receipt? Yes No Not Applicable

Sample Condition: Good Adjusted? _____ Other(Explain) _____ Checked by MJ

(For diffusive samples or AIHA lead) Is a known blank included? Yes No

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

Client: EarthCon Consultants, Inc.
 Project: Apollo Smyrna
 Lab Order: 1410789

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1410789-001A	RW2	10/8/2014 10:45:00AM	Groundwater	TCL VOLATILE ORGANICS		10/10/2014	10/13/2014
1410789-001B	RW2	10/8/2014 10:45:00AM	Groundwater	GC Analysis of Gaseous Samples		10/10/2014	10/10/2014
1410789-001C	RW2	10/8/2014 10:45:00AM	Groundwater	Total Organic Carbon (TOC)			10/14/2014
1410789-001D	RW2	10/8/2014 10:45:00AM	Groundwater	Alkalinity by SM2320B			10/14/2014
1410789-001E	RW2	10/8/2014 10:45:00AM	Groundwater	Sulfide by SW9030/9034		10/15/2014	10/15/2014
1410789-001F	RW2	10/8/2014 10:45:00AM	Groundwater	ION SCAN			10/09/2014
1410789-002A	RW1	10/8/2014 1:30:00PM	Groundwater	TCL VOLATILE ORGANICS		10/10/2014	10/11/2014
1410789-002A	RW1	10/8/2014 1:30:00PM	Groundwater	TCL VOLATILE ORGANICS		10/10/2014	10/13/2014
1410789-002B	RW1	10/8/2014 1:30:00PM	Groundwater	GC Analysis of Gaseous Samples		10/10/2014	10/10/2014
1410789-002C	RW1	10/8/2014 1:30:00PM	Groundwater	Total Organic Carbon (TOC)			10/14/2014
1410789-002D	RW1	10/8/2014 1:30:00PM	Groundwater	Alkalinity by SM2320B			10/14/2014
1410789-002E	RW1	10/8/2014 1:30:00PM	Groundwater	Sulfide by SW9030/9034		10/15/2014	10/15/2014
1410789-002F	RW1	10/8/2014 1:30:00PM	Groundwater	ION SCAN			10/09/2014
1410789-003A	DW1	10/8/2014 2:55:00PM	Groundwater	TCL VOLATILE ORGANICS		10/10/2014	10/11/2014
1410789-003A	DW1	10/8/2014 2:55:00PM	Groundwater	TCL VOLATILE ORGANICS		10/10/2014	10/13/2014
1410789-003B	DW1	10/8/2014 2:55:00PM	Groundwater	GC Analysis of Gaseous Samples		10/10/2014	10/10/2014
1410789-003C	DW1	10/8/2014 2:55:00PM	Groundwater	Total Organic Carbon (TOC)			10/14/2014
1410789-003D	DW1	10/8/2014 2:55:00PM	Groundwater	Alkalinity by SM2320B			10/14/2014
1410789-003E	DW1	10/8/2014 2:55:00PM	Groundwater	Sulfide by SW9030/9034		10/15/2014	10/15/2014
1410789-003F	DW1	10/8/2014 2:55:00PM	Groundwater	ION SCAN			10/09/2014
1410789-004A	DUP 1	10/8/2014 12:00:00PM	Groundwater	TCL VOLATILE ORGANICS		10/10/2014	10/11/2014
1410789-004A	DUP 1	10/8/2014 12:00:00PM	Groundwater	TCL VOLATILE ORGANICS		10/10/2014	10/13/2014
1410789-004B	DUP 1	10/8/2014 12:00:00PM	Groundwater	GC Analysis of Gaseous Samples		10/10/2014	10/10/2014
1410789-004C	DUP 1	10/8/2014 12:00:00PM	Groundwater	Total Organic Carbon (TOC)			10/14/2014
1410789-004D	DUP 1	10/8/2014 12:00:00PM	Groundwater	Alkalinity by SM2320B			10/14/2014
1410789-004E	DUP 1	10/8/2014 12:00:00PM	Groundwater	Sulfide by SW9030/9034		10/15/2014	10/15/2014
1410789-004F	DUP 1	10/8/2014 12:00:00PM	Groundwater	ION SCAN			10/09/2014
1410789-005A	TRIP BLANK	10/8/2014 12:00:00AM	Aqueous	TCL VOLATILE ORGANICS		10/10/2014	10/10/2014
1410789-006A	MW 1	10/8/2014 4:10:00PM	Groundwater	TCL VOLATILE ORGANICS		10/10/2014	10/11/2014

Client: EarthCon Consultants, Inc.
 Project: Apollo Smyrna
 Lab Order: 1410789

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1410789-006B	MW 1	10/8/2014 4:10:00PM	Groundwater	GC Analysis of Gaseous Samples		10/14/2014	10/14/2014
1410789-006C	MW 1	10/8/2014 4:10:00PM	Groundwater	Total Organic Carbon (TOC)			10/14/2014
1410789-006D	MW 1	10/8/2014 4:10:00PM	Groundwater	Alkalinity by SM2320B			10/14/2014
1410789-006E	MW 1	10/8/2014 4:10:00PM	Groundwater	Sulfide by SW9030/9034		10/15/2014	10/15/2014
1410789-006F	MW 1	10/8/2014 4:10:00PM	Groundwater	ION SCAN			10/09/2014

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1410789

ANALYTICAL QC SUMMARY REPORT

BatchID: 197404

Sample ID: MB-197404	Client ID:	Units: ug/L	Prep Date: 10/10/2014	Run No: 277573							
SampleType: MBLK	TestCode: GC Analysis of Gaseous Samples SOP-RSK 175	BatchID: 197404	Analysis Date: 10/10/2014	Seq No: 5867198							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethane	BRL	9									
Ethylene	BRL	7									
Methane	BRL	4									

Sample ID: LCS-197404	Client ID:	Units: ug/L	Prep Date: 10/10/2014	Run No: 277573							
SampleType: LCS	TestCode: GC Analysis of Gaseous Samples SOP-RSK 175	BatchID: 197404	Analysis Date: 10/10/2014	Seq No: 5867199							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethane	102.1	9	200.0		51.1	41.6	115				
Ethylene	69.41	7	200.0		34.7	26.9	115				
Methane	113.9	4	200.0		57.0	45.2	115				

Sample ID: LCSD-197404	Client ID:	Units: ug/L	Prep Date: 10/10/2014	Run No: 277573							
SampleType: LCSD	TestCode: GC Analysis of Gaseous Samples SOP-RSK 175	BatchID: 197404	Analysis Date: 10/10/2014	Seq No: 5867200							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethane	99.19	9	200.0		49.6	41.6	115	102.1	2.93	20	
Ethylene	67.34	7	200.0		33.7	26.9	115	69.41	3.02	20	
Methane	111.5	4	200.0		55.7	45.2	115	113.9	2.17	20	

Sample ID: 1410789-004BMS	Client ID: DUP 1	Units: ug/L	Prep Date: 10/10/2014	Run No: 277573							
SampleType: MS	TestCode: GC Analysis of Gaseous Samples SOP-RSK 175	BatchID: 197404	Analysis Date: 10/10/2014	Seq No: 5867255							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethane	109.0	9	200.0		54.5	40.1	115				
Ethylene	86.44	7	200.0	8.749	38.8	24.5	115				
Methane	173.7	4	200.0	26.46	73.6	41.1	115				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1410789

ANALYTICAL QC SUMMARY REPORT

BatchID: 197404

Sample ID: 1410789-004BMSD	Client ID: DUP 1	Units: ug/L	Prep Date: 10/10/2014	Run No: 277573							
SampleType: MSD	TestCode: GC Analysis of Gaseous Samples SOP-RSK 175	BatchID: 197404	Analysis Date: 10/10/2014	Seq No: 5867256							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethane	111.2	9	200.0		55.6	40.1	115	109.0	2.02	20	
Ethylene	88.05	7	200.0	8.749	39.6	24.5	115	86.44	1.84	20	
Methane	177.8	4	200.0	26.46	75.7	41.1	115	173.7	2.36	20	

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
BRL	Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S Spike Recovery outside limits due to matrix	

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1410789

ANALYTICAL QC SUMMARY REPORT

BatchID: 197550

Sample ID: MB-197550	Client ID:	Units: ug/L	Prep Date: 10/10/2014	Run No: 277603							
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 197550	Analysis Date: 10/10/2014	Seq No: 5869632							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,2,4-Trichlorobenzene	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dibromoethane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,3-Dichlorobenzene	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
2-Butanone	BRL	50									
2-Hexanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	50									
Benzene	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Bromoform	BRL	5.0									
Bromomethane	BRL	5.0									
Carbon disulfide	BRL	5.0									
Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									
Chloroform	BRL	5.0									
Chloromethane	BRL	10									

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1410789

ANALYTICAL QC SUMMARY REPORT

BatchID: 197550

Sample ID: MB-197550	Client ID:	Units: ug/L	Prep Date: 10/10/2014	Run No: 277603							
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 197550	Analysis Date: 10/10/2014	Seq No: 5869632							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Freon-113	BRL	10									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	5.0									
Methyl acetate	BRL	5.0									
Methyl tert-butyl ether	BRL	5.0									
Methylcyclohexane	BRL	5.0									
Methylene chloride	BRL	5.0									
o-Xylene	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	2.0									
Surr: 4-Bromofluorobenzene	49.08	0	50.00		98.2	66.2	120				
Surr: Dibromofluoromethane	53.98	0	50.00		108	79.5	121				
Surr: Toluene-d8	47.40	0	50.00		94.8	77	117				

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1410789

ANALYTICAL QC SUMMARY REPORT

BatchID: 197550

Sample ID: LCS-197550	Client ID:	Units: ug/L	Prep Date: 10/10/2014	Run No: 277603							
SampleType: LCS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 197550	Analysis Date: 10/10/2014	Seq No: 5869645							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	56.31	5.0	50.00		113	63.1	140				
Benzene	54.39	5.0	50.00		109	74.2	129				
Chlorobenzene	49.80	5.0	50.00		99.6	70	129				
Toluene	52.39	5.0	50.00		105	74.2	129				
Trichloroethene	57.71	5.0	50.00		115	71.2	135				
Surr: 4-Bromofluorobenzene	53.70	0	50.00		107	66.2	120				
Surr: Dibromofluoromethane	52.84	0	50.00		106	79.5	121				
Surr: Toluene-d8	48.52	0	50.00		97.0	77	117				

Sample ID: 1410658-003AMS	Client ID:	Units: ug/L	Prep Date: 10/10/2014	Run No: 277672							
SampleType: MS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 197550	Analysis Date: 10/13/2014	Seq No: 5868812							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	65.68	5.0	50.00		131	60.2	159				
Benzene	66.21	5.0	50.00		132	70.2	138				
Chlorobenzene	65.98	5.0	50.00		132	70.1	133				
Toluene	65.70	5.0	50.00		131	70	139				
Trichloroethene	63.92	5.0	50.00		128	70.1	144				
Surr: 4-Bromofluorobenzene	44.68	0	50.00		89.4	66.2	120				
Surr: Dibromofluoromethane	50.51	0	50.00		101	79.5	121				
Surr: Toluene-d8	45.96	0	50.00		91.9	77	117				

Sample ID: 1410658-003AMSD	Client ID:	Units: ug/L	Prep Date: 10/10/2014	Run No: 277672							
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 197550	Analysis Date: 10/13/2014	Seq No: 5868923							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	65.13	5.0	50.00		130	60.2	159	65.68	0.841	19.2	
Benzene	65.87	5.0	50.00		132	70.2	138	66.21	0.515	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1410789

ANALYTICAL QC SUMMARY REPORT

BatchID: 197550

Sample ID: 1410658-003AMSD	Client ID:	Units: ug/L	Prep Date: 10/10/2014	Run No: 277672							
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 197550	Analysis Date: 10/13/2014	Seq No: 5868923							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chlorobenzene	65.04	5.0	50.00		130	70.1	133	65.98	1.43	20	
Toluene	64.64	5.0	50.00		129	70	139	65.70	1.63	20	
Trichloroethene	63.51	5.0	50.00		127	70.1	144	63.92	0.643	20	
Surr: 4-Bromofluorobenzene	44.88	0	50.00		89.8	66.2	120	44.68	0	0	
Surr: Dibromofluoromethane	50.99	0	50.00		102	79.5	121	50.51	0	0	
Surr: Toluene-d8	46.23	0	50.00		92.5	77	117	45.96	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1410789

ANALYTICAL QC SUMMARY REPORT

BatchID: 197643

Sample ID: MB-197643	Client ID:	Units: ug/L	Prep Date: 10/14/2014	Run No: 277831							
SampleType: MBLK	TestCode: GC Analysis of Gaseous Samples SOP-RSK 175	BatchID: 197643	Analysis Date: 10/14/2014	Seq No: 5870907							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethane	BRL	9									
Ethylene	BRL	7									
Methane	BRL	4									

Sample ID: LCS-197643	Client ID:	Units: ug/L	Prep Date: 10/14/2014	Run No: 277831							
SampleType: LCS	TestCode: GC Analysis of Gaseous Samples SOP-RSK 175	BatchID: 197643	Analysis Date: 10/14/2014	Seq No: 5870908							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethane	92.51	9	200.0		46.3	41.6	115				
Ethylene	62.91	7	200.0		31.5	26.9	115				
Methane	105.3	4	200.0		52.6	45.2	115				

Sample ID: LCSD-197643	Client ID:	Units: ug/L	Prep Date: 10/14/2014	Run No: 277831							
SampleType: LCSD	TestCode: GC Analysis of Gaseous Samples SOP-RSK 175	BatchID: 197643	Analysis Date: 10/14/2014	Seq No: 5870909							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethane	93.00	9	200.0		46.5	41.6	115	92.51	0.527	20	
Ethylene	63.43	7	200.0		31.7	26.9	115	62.91	0.817	20	
Methane	104.7	4	200.0		52.4	45.2	115	105.3	0.531	20	

Sample ID: 1410922-004BMS	Client ID:	Units: ug/L	Prep Date: 10/14/2014	Run No: 277831							
SampleType: MS	TestCode: GC Analysis of Gaseous Samples SOP-RSK 175	BatchID: 197643	Analysis Date: 10/14/2014	Seq No: 5870914							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethane	99.61	9	200.0		49.8	40.1	115				
Ethylene	68.06	7	200.0		34.0	24.5	115				
Methane	114.2	4	200.0		57.1	41.1	115				

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1410789

ANALYTICAL QC SUMMARY REPORT

BatchID: 197643

Sample ID: 1410922-004BMSD	Client ID:	Units: ug/L	Prep Date: 10/14/2014	Run No: 277831							
SampleType: MSD	TestCode: GC Analysis of Gaseous Samples SOP-RSK 175	BatchID: 197643	Analysis Date: 10/14/2014	Seq No: 5870917							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethane	101.6	9	200.0		50.8	40.1	115	99.61	1.95	20	
Ethylene	69.35	7	200.0		34.7	24.5	115	68.06	1.88	20	
Methane	116.9	4	200.0		58.4	41.1	115	114.2	2.33	20	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1410789

ANALYTICAL QC SUMMARY REPORT

BatchID: 197735

Sample ID: MB-197735	Client ID:	Units: mg/L	Prep Date: 10/15/2014	Run No: 277927							
SampleType: MBLK	TestCode: Sulfide by SW9030B/9034	BatchID: 197735	Analysis Date: 10/15/2014	Seq No: 5873371							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Sulfide BRL 2.00

Sample ID: LCS-197735	Client ID:	Units: mg/L	Prep Date: 10/15/2014	Run No: 277927							
SampleType: LCS	TestCode: Sulfide by SW9030B/9034	BatchID: 197735	Analysis Date: 10/15/2014	Seq No: 5873372							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Sulfide 368.0 2.00 368.0 100 40 120

Sample ID: 1410771-002DMS	Client ID:	Units: mg/L	Prep Date: 10/15/2014	Run No: 277927							
SampleType: MS	TestCode: Sulfide by SW9030B/9034	BatchID: 197735	Analysis Date: 10/15/2014	Seq No: 5873392							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Sulfide 18.20 2.00 18.40 98.9 76.7 120

Sample ID: 1410771-002DMSD	Client ID:	Units: mg/L	Prep Date: 10/15/2014	Run No: 277927							
SampleType: MSD	TestCode: Sulfide by SW9030B/9034	BatchID: 197735	Analysis Date: 10/15/2014	Seq No: 5873394							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Sulfide 17.80 2.00 18.40 96.7 76.7 120 18.20 2.22 20

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
	BRL Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
	J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
	Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1410789

ANALYTICAL QC SUMMARY REPORT

BatchID: R277816

Sample ID: MB-R277816	Client ID:	Units: mg/L	Prep Date:	Run No: 277816							
SampleType: MBLK	TestCode: ION SCAN SW9056A	BatchID: R277816	Analysis Date: 10/09/2014	Seq No: 5870447							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride	BRL	1.0									
Nitrate	BRL	0.25									
Sulfate	BRL	1.0									

Sample ID: LCS-R277816	Client ID:	Units: mg/L	Prep Date:	Run No: 277816							
SampleType: LCS	TestCode: ION SCAN SW9056A	BatchID: R277816	Analysis Date: 10/09/2014	Seq No: 5870446							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride	9.865	1.0	10.00		98.6	90	110				
Nitrate	4.784	0.25	5.000		95.7	90	110				
Sulfate	23.75	1.0	25.00		95.0	90	110				

Sample ID: 1410805-002DMS	Client ID:	Units: mg/L	Prep Date:	Run No: 277816							
SampleType: MS	TestCode: ION SCAN SW9056A	BatchID: R277816	Analysis Date: 10/09/2014	Seq No: 5870458							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride	17.86	1.0	10.00	7.639	102	90	110				
Nitrate	8.267	0.25	5.000	3.028	105	90	110				
Sulfate	46.86	1.0	25.00	24.07	91.2	90	110				

Sample ID: 1410805-002DMSD	Client ID:	Units: mg/L	Prep Date:	Run No: 277816							
SampleType: MSD	TestCode: ION SCAN SW9056A	BatchID: R277816	Analysis Date: 10/09/2014	Seq No: 5870459							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride	18.16	1.0	10.00	7.639	105	90	110	17.86	1.67	20	
Nitrate	8.281	0.25	5.000	3.028	105	90	110	8.267	0.173	20	
Sulfate	47.35	1.0	25.00	24.07	93.1	90	110	46.86	1.03	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1410789

ANALYTICAL QC SUMMARY REPORT

BatchID: R277878

Sample ID: MB-R277878	Client ID:	Units: mg/L	Prep Date:	Run No: 277878							
SampleType: MBLK	TestCode: Total Organic Carbon (TOC) SW9060A	BatchID: R277878	Analysis Date: 10/14/2014	Seq No: 5872121							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Organic Carbon, Total

BRL 1.00

Sample ID: LCS-R277878	Client ID:	Units: mg/L	Prep Date:	Run No: 277878							
SampleType: LCS	TestCode: Total Organic Carbon (TOC) SW9060A	BatchID: R277878	Analysis Date: 10/14/2014	Seq No: 5872119							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Organic Carbon, Total

24.09 1.00 25.00 96.4 90 110

Sample ID: 1410789-001CMS	Client ID: RW2	Units: mg/L	Prep Date:	Run No: 277878							
SampleType: MS	TestCode: Total Organic Carbon (TOC) SW9060A	BatchID: R277878	Analysis Date: 10/14/2014	Seq No: 5872149							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Organic Carbon, Total

26.59 1.00 25.00 1.537 100 80 120

Sample ID: 1410789-001CMSD	Client ID: RW2	Units: mg/L	Prep Date:	Run No: 277878							
SampleType: MSD	TestCode: Total Organic Carbon (TOC) SW9060A	BatchID: R277878	Analysis Date: 10/14/2014	Seq No: 5872151							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Organic Carbon, Total

27.42 1.00 25.00 1.537 104 80 120 26.59 3.07 20

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
	BRL Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
	J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
	Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1410789

ANALYTICAL QC SUMMARY REPORT

BatchID: R277885

Sample ID: MB-R277885	Client ID:	Units: mg/L	Prep Date:	Run No: 277885							
SampleType: MBLK	TestCode: Alkalinity by SM2320B	BatchID: R277885	Analysis Date: 10/14/2014	Seq No: 5872234							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Alkalinity, Total (As CaCO3)

BRL 3.00

Sample ID: LCS-R277885	Client ID:	Units: mg/L	Prep Date:	Run No: 277885							
SampleType: LCS	TestCode: Alkalinity by SM2320B	BatchID: R277885	Analysis Date: 10/14/2014	Seq No: 5872235							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Alkalinity, Total (As CaCO3)

116.0 3.00 125.0 1.000 92.0 75 125

Sample ID: 1410689-007FDUP	Client ID:	Units: mg/L	Prep Date:	Run No: 277885							
SampleType: DUP	TestCode: Alkalinity by SM2320B	BatchID: R277885	Analysis Date: 10/14/2014	Seq No: 5872256							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Alkalinity, Total (As CaCO3)

109.0 3.00 111.0 1.82 30

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
	BRL Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
	J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
	Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	



October 20, 2014

Kristen Rivera
EarthCon Consultants, Inc.
1880 West Oak Parkway
Marietta GA 30062

TEL: (770) 973-2100
FAX: (770) 973-7395

RE: Apollo Smyrna

Dear Kristen Rivera:

Order No: 1410922

Analytical Environmental Services, Inc. received 4 samples on 10/9/2014 4:04:00 PM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/14-06/30/15.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/15.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Chantelle Kanhai
Project Manager



ANALYTICAL ENVIRONMENTAL SERVICES, INC

3785 Presidential Parkway, Atlanta GA 30340-3704
TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY / 4/10/22

Work Order: _____

Date: 10/8/14 Page 1 of 1

COMPANY: <u>EarthCon</u>		ADDRESS: <u>1880 West Oak Dr NW Bldg 100 Ste 106 Marietta GA 30062</u>					ANALYSIS REQUESTED										Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.		No # of Containers																				
PHONE: <u>770 973 2100</u>		FAX: _____					<table border="1"> <tr> <td>TOC</td> <td>Alkalinity</td> <td>Sulfide</td> <td>GC-gas</td> <td>VOC</td> <td>LOUISIANA</td> <td></td> </tr> </table>										TOC	Alkalinity		Sulfide	GC-gas	VOC	LOUISIANA																
TOC	Alkalinity	Sulfide	GC-gas	VOC	LOUISIANA																																		
SAMPLED BY: <u>J. McKinney</u>		SIGNATURE: <u>[Signature]</u>					PRESERVATION (See codes)																																
#	SAMPLE ID	SAMPLED		Grab	Composite	Matrix (See codes)	PRESERVATION (See codes)						REMARKS	No # of Containers																									
		DATE	TIME				SW	I	W	H	H	I																											
1	<u>MW3</u>	<u>10/8/14</u>	<u>1730</u>	<u>X</u>		<u>GW</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>2</u>	<u>2</u>	<u>1</u>			<u>2</u>																								
2	<u>MW4</u>	<u>10/8/14</u>	<u>1910</u>	<u>X</u>		<u>GW</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>2</u>	<u>2</u>	<u>1</u>			<u>2</u>																								
3	<u>TRIP Blank</u>					<u>W</u>					<u>2</u>				<u>2</u>																								
4	<u>RINS 1</u>	<u>10/8/14</u>	<u>1945</u>	<u>X</u>		<u>W</u>	<u>1</u>	<u>1</u>	<u>2</u>	<u>2</u>	<u>1</u>				<u>8</u>																								
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RELINQUISHED BY: <u>[Signature]</u>		DATE/TIME: <u>10/8/14 2:00</u>	RECEIVED BY: <u>[Signature]</u>		DATE/TIME: <u>10/9/14 4:04</u>	PROJECT INFORMATION						RECEIPT																											
						PROJECT NAME: <u>Apollo Smyrna</u>						Total # of Containers: <u>26</u>																											
						PROJECT #: _____						Turnaround Time Request																											
						SITE ADDRESS: _____						<input checked="" type="radio"/> Standard 5 Business Days																											
						SEND REPORT TO: <u>Kristen Rivers</u>						<input type="radio"/> 2 Business Day Rush																											
						INVOICE TO: _____						<input type="radio"/> Next Business Day Rush																											
						(IF DIFFERENT FROM ABOVE)						<input type="radio"/> Same Day Rush (auth req.)																											
SPECIAL INSTRUCTIONS/COMMENTS:		SHIPMENT METHOD				QUOTE #: _____						STATE PROGRAM (if any): _____																											
		OUT / / VIA: _____				PO#: _____						E-mail? Y/N: _____ Fax? Y/N: _____																											
		IN / / VIA: _____										DATA PACKAGE: I II III IV																											
		CLIENT FedEx UPS MAIL <u>COURIER</u>																																					
		GREYHOUND OTHER _____																																					

SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE NEXT BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TAT.
 SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.
 MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water
 PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

Client: EarthCon Consultants, Inc.

Project: Apollo Smyrna

Lab ID: 1410922

Case Narrative

Ion Chromatography Analysis by Method 9056A:

Due to sample matrix, samples 1410922-001 and -002 required a dilution during preparation and/or analysis resulting in elevated reporting limits.

Analytical Environmental Services, Inc

Date: 20-Oct-14

Client: EarthCon Consultants, Inc.	Client Sample ID: MW3
Project Name: Apollo Smyrna	Collection Date: 10/8/2014 5:30:00 PM
Lab ID: 1410922-001	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) SW9060A								
Organic Carbon, Total	54.8	5.00		mg/L	R277878	5	10/14/2014 18:24	JM
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	1600	50		ug/L	197537	10	10/13/2014 12:00	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	197537	1	10/12/2014 18:04	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	197537	1	10/12/2014 18:04	NP
1,1-Dichloroethane	3000	500		ug/L	197537	100	10/13/2014 14:04	NP
1,1-Dichloroethene	1500	50		ug/L	197537	10	10/13/2014 12:00	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	197537	1	10/12/2014 18:04	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	197537	1	10/12/2014 18:04	NP
1,2-Dibromoethane	BRL	5.0		ug/L	197537	1	10/12/2014 18:04	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	197537	1	10/12/2014 18:04	NP
1,2-Dichloroethane	9.3	5.0		ug/L	197537	1	10/12/2014 18:04	NP
1,2-Dichloropropane	BRL	5.0		ug/L	197537	1	10/12/2014 18:04	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	197537	1	10/12/2014 18:04	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	197537	1	10/12/2014 18:04	NP
2-Butanone	BRL	50		ug/L	197537	1	10/12/2014 18:04	NP
2-Hexanone	BRL	10		ug/L	197537	1	10/12/2014 18:04	NP
4-Methyl-2-pentanone	23	10		ug/L	197537	1	10/12/2014 18:04	NP
Acetone	53000	25000		ug/L	197537	500	10/13/2014 15:18	NP
Benzene	BRL	5.0		ug/L	197537	1	10/12/2014 18:04	NP
Bromodichloromethane	BRL	5.0		ug/L	197537	1	10/12/2014 18:04	NP
Bromoform	BRL	5.0		ug/L	197537	1	10/12/2014 18:04	NP
Bromomethane	BRL	5.0		ug/L	197537	1	10/12/2014 18:04	NP
Carbon disulfide	BRL	5.0		ug/L	197537	1	10/12/2014 18:04	NP
Carbon tetrachloride	BRL	5.0		ug/L	197537	1	10/12/2014 18:04	NP
Chlorobenzene	BRL	5.0		ug/L	197537	1	10/12/2014 18:04	NP
Chloroethane	240	100		ug/L	197537	10	10/13/2014 12:00	NP
Chloroform	BRL	5.0		ug/L	197537	1	10/12/2014 18:04	NP
Chloromethane	BRL	10		ug/L	197537	1	10/12/2014 18:04	NP
cis-1,2-Dichloroethene	5000	500		ug/L	197537	100	10/13/2014 14:04	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	197537	1	10/12/2014 18:04	NP
Cyclohexane	13	5.0		ug/L	197537	1	10/12/2014 18:04	NP
Dibromochloromethane	BRL	5.0		ug/L	197537	1	10/12/2014 18:04	NP
Dichlorodifluoromethane	BRL	10		ug/L	197537	1	10/12/2014 18:04	NP
Ethylbenzene	33	5.0		ug/L	197537	1	10/12/2014 18:04	NP
Freon-113	BRL	10		ug/L	197537	1	10/12/2014 18:04	NP
Isopropylbenzene	BRL	5.0		ug/L	197537	1	10/12/2014 18:04	NP
m,p-Xylene	160	5.0		ug/L	197537	1	10/12/2014 18:04	NP
Methyl acetate	BRL	5.0		ug/L	197537	1	10/12/2014 18:04	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	197537	1	10/12/2014 18:04	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: EarthCon Consultants, Inc.	Client Sample ID: MW3
Project Name: Apollo Smyrna	Collection Date: 10/8/2014 5:30:00 PM
Lab ID: 1410922-001	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B		(SW5030B)						
Methylcyclohexane	9.3	5.0		ug/L	197537	1	10/12/2014 18:04	NP
Methylene chloride	BRL	5.0		ug/L	197537	1	10/12/2014 18:04	NP
o-Xylene	51	5.0		ug/L	197537	1	10/12/2014 18:04	NP
Styrene	BRL	5.0		ug/L	197537	1	10/12/2014 18:04	NP
Tetrachloroethene	5.7	5.0		ug/L	197537	1	10/12/2014 18:04	NP
Toluene	880	50		ug/L	197537	10	10/13/2014 12:00	NP
trans-1,2-Dichloroethene	6.5	5.0		ug/L	197537	1	10/12/2014 18:04	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	197537	1	10/12/2014 18:04	NP
Trichloroethene	73	5.0		ug/L	197537	1	10/12/2014 18:04	NP
Trichlorofluoromethane	BRL	5.0		ug/L	197537	1	10/12/2014 18:04	NP
Vinyl chloride	1400	20		ug/L	197537	10	10/13/2014 12:00	NP
Surr: 4-Bromofluorobenzene	90.2	66.2-120		%REC	197537	500	10/13/2014 15:18	NP
Surr: 4-Bromofluorobenzene	88.3	66.2-120		%REC	197537	100	10/13/2014 14:04	NP
Surr: 4-Bromofluorobenzene	93.5	66.2-120		%REC	197537	10	10/13/2014 12:00	NP
Surr: 4-Bromofluorobenzene	99.6	66.2-120		%REC	197537	1	10/12/2014 18:04	NP
Surr: Dibromofluoromethane	109	79.5-121		%REC	197537	500	10/13/2014 15:18	NP
Surr: Dibromofluoromethane	112	79.5-121		%REC	197537	100	10/13/2014 14:04	NP
Surr: Dibromofluoromethane	114	79.5-121		%REC	197537	10	10/13/2014 12:00	NP
Surr: Dibromofluoromethane	118	79.5-121		%REC	197537	1	10/12/2014 18:04	NP
Surr: Toluene-d8	94.5	77-117		%REC	197537	500	10/13/2014 15:18	NP
Surr: Toluene-d8	96.2	77-117		%REC	197537	100	10/13/2014 14:04	NP
Surr: Toluene-d8	96.8	77-117		%REC	197537	10	10/13/2014 12:00	NP
Surr: Toluene-d8	104	77-117		%REC	197537	1	10/12/2014 18:04	NP
Sulfide by SW9030B/9034		(SW9030B)						
Sulfide	BRL	2.00		mg/L	197735	1	10/15/2014 08:55	AB
ION SCAN SW9056A								
Chloride	110	10		mg/L	R277825	10	10/09/2014 23:03	YS
Nitrate	BRL	2.5		mg/L	R277825	10	10/09/2014 23:03	YS
Sulfate	BRL	10		mg/L	R277825	10	10/09/2014 23:03	YS
GC Analysis of Gaseous Samples SOP-RSK 175		(RSK175)						
Ethane	40	9		ug/L	197643	1	10/14/2014 15:19	JM
Ethylene	260	7		ug/L	197643	1	10/14/2014 15:19	JM
Methane	640	20		ug/L	197643	5	10/14/2014 17:05	JM
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	186	3.00		mg/L	R277889	1	10/15/2014 10:25	PF

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 20-Oct-14

Client: EarthCon Consultants, Inc.	Client Sample ID: MW4
Project Name: Apollo Smyrna	Collection Date: 10/8/2014 7:10:00 PM
Lab ID: 1410922-002	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) SW9060A								
Organic Carbon, Total	1.12	1.00		mg/L	R277878	1	10/14/2014 18:47	JM
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	2400	500		ug/L	197537	100	10/13/2014 11:33	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	197537	1	10/13/2014 13:14	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	197537	1	10/13/2014 13:14	NP
1,1-Dichloroethane	75	5.0		ug/L	197537	1	10/13/2014 13:14	NP
1,1-Dichloroethene	16000	500		ug/L	197537	100	10/13/2014 11:33	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	197537	1	10/13/2014 13:14	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	197537	1	10/13/2014 13:14	NP
1,2-Dibromoethane	BRL	5.0		ug/L	197537	1	10/13/2014 13:14	NP
1,2-Dichlorobenzene	5.7	5.0		ug/L	197537	1	10/13/2014 13:14	NP
1,2-Dichloroethane	BRL	5.0		ug/L	197537	1	10/13/2014 13:14	NP
1,2-Dichloropropane	BRL	5.0		ug/L	197537	1	10/13/2014 13:14	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	197537	1	10/13/2014 13:14	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	197537	1	10/13/2014 13:14	NP
2-Butanone	BRL	50		ug/L	197537	1	10/13/2014 13:14	NP
2-Hexanone	BRL	10		ug/L	197537	1	10/13/2014 13:14	NP
4-Methyl-2-pentanone	BRL	10		ug/L	197537	1	10/13/2014 13:14	NP
Acetone	BRL	50		ug/L	197537	1	10/13/2014 13:14	NP
Benzene	BRL	5.0		ug/L	197537	1	10/13/2014 13:14	NP
Bromodichloromethane	BRL	5.0		ug/L	197537	1	10/13/2014 13:14	NP
Bromoform	BRL	5.0		ug/L	197537	1	10/13/2014 13:14	NP
Bromomethane	BRL	5.0		ug/L	197537	1	10/13/2014 13:14	NP
Carbon disulfide	BRL	5.0		ug/L	197537	1	10/13/2014 13:14	NP
Carbon tetrachloride	BRL	5.0		ug/L	197537	1	10/13/2014 13:14	NP
Chlorobenzene	BRL	5.0		ug/L	197537	1	10/13/2014 13:14	NP
Chloroethane	BRL	10		ug/L	197537	1	10/13/2014 13:14	NP
Chloroform	BRL	5.0		ug/L	197537	1	10/13/2014 13:14	NP
Chloromethane	BRL	10		ug/L	197537	1	10/13/2014 13:14	NP
cis-1,2-Dichloroethene	11	5.0		ug/L	197537	1	10/13/2014 13:14	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	197537	1	10/13/2014 13:14	NP
Cyclohexane	11	5.0		ug/L	197537	1	10/13/2014 13:14	NP
Dibromochloromethane	BRL	5.0		ug/L	197537	1	10/13/2014 13:14	NP
Dichlorodifluoromethane	BRL	10		ug/L	197537	1	10/13/2014 13:14	NP
Ethylbenzene	BRL	5.0		ug/L	197537	1	10/13/2014 13:14	NP
Freon-113	2400	1000		ug/L	197537	100	10/13/2014 11:33	NP
Isopropylbenzene	BRL	5.0		ug/L	197537	1	10/13/2014 13:14	NP
m,p-Xylene	BRL	5.0		ug/L	197537	1	10/13/2014 13:14	NP
Methyl acetate	BRL	5.0		ug/L	197537	1	10/13/2014 13:14	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	197537	1	10/13/2014 13:14	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: EarthCon Consultants, Inc.	Client Sample ID: MW4
Project Name: Apollo Smyrna	Collection Date: 10/8/2014 7:10:00 PM
Lab ID: 1410922-002	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					(SW5030B)			
Methylcyclohexane	9.8	5.0		ug/L	197537	1	10/13/2014 13:14	NP
Methylene chloride	BRL	5.0		ug/L	197537	1	10/13/2014 13:14	NP
o-Xylene	6.1	5.0		ug/L	197537	1	10/13/2014 13:14	NP
Styrene	BRL	5.0		ug/L	197537	1	10/13/2014 13:14	NP
Tetrachloroethene	2100	500		ug/L	197537	100	10/13/2014 11:33	NP
Toluene	BRL	5.0		ug/L	197537	1	10/13/2014 13:14	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	197537	1	10/13/2014 13:14	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	197537	1	10/13/2014 13:14	NP
Trichloroethene	140	5.0		ug/L	197537	1	10/13/2014 13:14	NP
Trichlorofluoromethane	BRL	5.0		ug/L	197537	1	10/13/2014 13:14	NP
Vinyl chloride	BRL	2.0		ug/L	197537	1	10/13/2014 13:14	NP
Surr: 4-Bromofluorobenzene	85.4	66.2-120		%REC	197537	100	10/13/2014 11:33	NP
Surr: 4-Bromofluorobenzene	89.8	66.2-120		%REC	197537	1	10/13/2014 13:14	NP
Surr: Dibromofluoromethane	111	79.5-121		%REC	197537	100	10/13/2014 11:33	NP
Surr: Dibromofluoromethane	127	79.5-121	S	%REC	197537	1	10/13/2014 13:14	NP
Surr: Toluene-d8	95	77-117		%REC	197537	100	10/13/2014 11:33	NP
Surr: Toluene-d8	97.6	77-117		%REC	197537	1	10/13/2014 13:14	NP
Sulfide by SW9030B/9034					(SW9030B)			
Sulfide	BRL	2.00		mg/L	197735	1	10/15/2014 08:55	AB
ION SCAN SW9056A								
Chloride	51	2.0		mg/L	R277825	2	10/09/2014 23:18	YS
Nitrate	BRL	0.50		mg/L	R277825	2	10/09/2014 23:18	YS
Sulfate	BRL	2.0		mg/L	R277825	2	10/09/2014 23:18	YS
GC Analysis of Gaseous Samples SOP-RSK 175					(RSK175)			
Ethane	BRL	9		ug/L	197643	1	10/14/2014 15:24	JM
Ethylene	BRL	7		ug/L	197643	1	10/14/2014 15:24	JM
Methane	44	4		ug/L	197643	1	10/14/2014 15:24	JM
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	51.0	3.00		mg/L	R277889	1	10/15/2014 10:25	PF

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: EarthCon Consultants, Inc.	Client Sample ID: TRIP BLANK
Project Name: Apollo Smyrna	Collection Date: 10/9/2014
Lab ID: 1410922-003	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	197537	1	10/12/2014 10:39	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	197537	1	10/12/2014 10:39	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	197537	1	10/12/2014 10:39	NP
1,1-Dichloroethane	BRL	5.0		ug/L	197537	1	10/12/2014 10:39	NP
1,1-Dichloroethene	BRL	5.0		ug/L	197537	1	10/12/2014 10:39	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	197537	1	10/12/2014 10:39	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	197537	1	10/12/2014 10:39	NP
1,2-Dibromoethane	BRL	5.0		ug/L	197537	1	10/12/2014 10:39	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	197537	1	10/12/2014 10:39	NP
1,2-Dichloroethane	BRL	5.0		ug/L	197537	1	10/12/2014 10:39	NP
1,2-Dichloropropane	BRL	5.0		ug/L	197537	1	10/12/2014 10:39	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	197537	1	10/12/2014 10:39	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	197537	1	10/12/2014 10:39	NP
2-Butanone	BRL	50		ug/L	197537	1	10/12/2014 10:39	NP
2-Hexanone	BRL	10		ug/L	197537	1	10/12/2014 10:39	NP
4-Methyl-2-pentanone	BRL	10		ug/L	197537	1	10/12/2014 10:39	NP
Acetone	BRL	50		ug/L	197537	1	10/12/2014 10:39	NP
Benzene	BRL	5.0		ug/L	197537	1	10/12/2014 10:39	NP
Bromodichloromethane	BRL	5.0		ug/L	197537	1	10/12/2014 10:39	NP
Bromoform	BRL	5.0		ug/L	197537	1	10/12/2014 10:39	NP
Bromomethane	BRL	5.0		ug/L	197537	1	10/12/2014 10:39	NP
Carbon disulfide	BRL	5.0		ug/L	197537	1	10/12/2014 10:39	NP
Carbon tetrachloride	BRL	5.0		ug/L	197537	1	10/12/2014 10:39	NP
Chlorobenzene	BRL	5.0		ug/L	197537	1	10/12/2014 10:39	NP
Chloroethane	BRL	10		ug/L	197537	1	10/12/2014 10:39	NP
Chloroform	BRL	5.0		ug/L	197537	1	10/12/2014 10:39	NP
Chloromethane	BRL	10		ug/L	197537	1	10/12/2014 10:39	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	197537	1	10/12/2014 10:39	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	197537	1	10/12/2014 10:39	NP
Cyclohexane	BRL	5.0		ug/L	197537	1	10/12/2014 10:39	NP
Dibromochloromethane	BRL	5.0		ug/L	197537	1	10/12/2014 10:39	NP
Dichlorodifluoromethane	BRL	10		ug/L	197537	1	10/12/2014 10:39	NP
Ethylbenzene	BRL	5.0		ug/L	197537	1	10/12/2014 10:39	NP
Freon-113	BRL	10		ug/L	197537	1	10/12/2014 10:39	NP
Isopropylbenzene	BRL	5.0		ug/L	197537	1	10/12/2014 10:39	NP
m,p-Xylene	BRL	5.0		ug/L	197537	1	10/12/2014 10:39	NP
Methyl acetate	BRL	5.0		ug/L	197537	1	10/12/2014 10:39	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	197537	1	10/12/2014 10:39	NP
Methylcyclohexane	BRL	5.0		ug/L	197537	1	10/12/2014 10:39	NP
Methylene chloride	BRL	5.0		ug/L	197537	1	10/12/2014 10:39	NP
o-Xylene	BRL	5.0		ug/L	197537	1	10/12/2014 10:39	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: EarthCon Consultants, Inc.	Client Sample ID: TRIP BLANK
Project Name: Apollo Smyrna	Collection Date: 10/9/2014
Lab ID: 1410922-003	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	197537	1	10/12/2014 10:39	NP
Tetrachloroethene	BRL	5.0		ug/L	197537	1	10/12/2014 10:39	NP
Toluene	BRL	5.0		ug/L	197537	1	10/12/2014 10:39	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	197537	1	10/12/2014 10:39	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	197537	1	10/12/2014 10:39	NP
Trichloroethene	BRL	5.0		ug/L	197537	1	10/12/2014 10:39	NP
Trichlorofluoromethane	BRL	5.0		ug/L	197537	1	10/12/2014 10:39	NP
Vinyl chloride	BRL	2.0		ug/L	197537	1	10/12/2014 10:39	NP
Surr: 4-Bromofluorobenzene	86.7	66.2-120		%REC	197537	1	10/12/2014 10:39	NP
Surr: Dibromofluoromethane	110	79.5-121		%REC	197537	1	10/12/2014 10:39	NP
Surr: Toluene-d8	96	77-117		%REC	197537	1	10/12/2014 10:39	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 20-Oct-14

Client: EarthCon Consultants, Inc.	Client Sample ID: RINS 1
Project Name: Apollo Smyrna	Collection Date: 10/8/2014 7:45:00 PM
Lab ID: 1410922-004	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) SW9060A								
Organic Carbon, Total	1.51	1.00		mg/L	R277878	1	10/14/2014 19:08	JM
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	197537	1	10/13/2014 10:44	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	197537	1	10/13/2014 10:44	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	197537	1	10/13/2014 10:44	NP
1,1-Dichloroethane	BRL	5.0		ug/L	197537	1	10/13/2014 10:44	NP
1,1-Dichloroethene	BRL	5.0		ug/L	197537	1	10/13/2014 10:44	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	197537	1	10/13/2014 10:44	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	197537	1	10/13/2014 10:44	NP
1,2-Dibromoethane	BRL	5.0		ug/L	197537	1	10/13/2014 10:44	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	197537	1	10/13/2014 10:44	NP
1,2-Dichloroethane	BRL	5.0		ug/L	197537	1	10/13/2014 10:44	NP
1,2-Dichloropropane	BRL	5.0		ug/L	197537	1	10/13/2014 10:44	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	197537	1	10/13/2014 10:44	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	197537	1	10/13/2014 10:44	NP
2-Butanone	BRL	50		ug/L	197537	1	10/13/2014 10:44	NP
2-Hexanone	BRL	10		ug/L	197537	1	10/13/2014 10:44	NP
4-Methyl-2-pentanone	BRL	10		ug/L	197537	1	10/13/2014 10:44	NP
Acetone	BRL	50		ug/L	197537	1	10/13/2014 10:44	NP
Benzene	BRL	5.0		ug/L	197537	1	10/13/2014 10:44	NP
Bromodichloromethane	BRL	5.0		ug/L	197537	1	10/13/2014 10:44	NP
Bromoform	BRL	5.0		ug/L	197537	1	10/13/2014 10:44	NP
Bromomethane	BRL	5.0		ug/L	197537	1	10/13/2014 10:44	NP
Carbon disulfide	BRL	5.0		ug/L	197537	1	10/13/2014 10:44	NP
Carbon tetrachloride	BRL	5.0		ug/L	197537	1	10/13/2014 10:44	NP
Chlorobenzene	BRL	5.0		ug/L	197537	1	10/13/2014 10:44	NP
Chloroethane	BRL	10		ug/L	197537	1	10/13/2014 10:44	NP
Chloroform	BRL	5.0		ug/L	197537	1	10/13/2014 10:44	NP
Chloromethane	BRL	10		ug/L	197537	1	10/13/2014 10:44	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	197537	1	10/13/2014 10:44	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	197537	1	10/13/2014 10:44	NP
Cyclohexane	BRL	5.0		ug/L	197537	1	10/13/2014 10:44	NP
Dibromochloromethane	BRL	5.0		ug/L	197537	1	10/13/2014 10:44	NP
Dichlorodifluoromethane	BRL	10		ug/L	197537	1	10/13/2014 10:44	NP
Ethylbenzene	BRL	5.0		ug/L	197537	1	10/13/2014 10:44	NP
Freon-113	BRL	10		ug/L	197537	1	10/13/2014 10:44	NP
Isopropylbenzene	BRL	5.0		ug/L	197537	1	10/13/2014 10:44	NP
m,p-Xylene	BRL	5.0		ug/L	197537	1	10/13/2014 10:44	NP
Methyl acetate	BRL	5.0		ug/L	197537	1	10/13/2014 10:44	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	197537	1	10/13/2014 10:44	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: EarthCon Consultants, Inc.	Client Sample ID: RINS 1
Project Name: Apollo Smyrna	Collection Date: 10/8/2014 7:45:00 PM
Lab ID: 1410922-004	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
Methylcyclohexane	BRL	5.0		ug/L	197537	1	10/13/2014 10:44	NP
Methylene chloride	BRL	5.0		ug/L	197537	1	10/13/2014 10:44	NP
o-Xylene	BRL	5.0		ug/L	197537	1	10/13/2014 10:44	NP
Styrene	BRL	5.0		ug/L	197537	1	10/13/2014 10:44	NP
Tetrachloroethene	BRL	5.0		ug/L	197537	1	10/13/2014 10:44	NP
Toluene	BRL	5.0		ug/L	197537	1	10/13/2014 10:44	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	197537	1	10/13/2014 10:44	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	197537	1	10/13/2014 10:44	NP
Trichloroethene	BRL	5.0		ug/L	197537	1	10/13/2014 10:44	NP
Trichlorofluoromethane	BRL	5.0		ug/L	197537	1	10/13/2014 10:44	NP
Vinyl chloride	BRL	2.0		ug/L	197537	1	10/13/2014 10:44	NP
Surr: 4-Bromofluorobenzene	87.2	66.2-120		%REC	197537	1	10/13/2014 10:44	NP
Surr: Dibromofluoromethane	106	79.5-121		%REC	197537	1	10/13/2014 10:44	NP
Surr: Toluene-d8	95.1	77-117		%REC	197537	1	10/13/2014 10:44	NP
Sulfide by SW9030B/9034 (SW9030B)								
Sulfide	BRL	2.00		mg/L	197735	1	10/15/2014 08:55	AB
ION SCAN SW9056A								
Chloride	BRL	1.0		mg/L	R277825	1	10/09/2014 23:32	YS
Nitrate	BRL	0.25		mg/L	R277825	1	10/09/2014 23:32	YS
Sulfate	BRL	1.0		mg/L	R277825	1	10/09/2014 23:32	YS
GC Analysis of Gaseous Samples SOP-RSK 175 (RSK175)								
Ethane	BRL	9		ug/L	197643	1	10/14/2014 15:05	JM
Ethylene	BRL	7		ug/L	197643	1	10/14/2014 15:05	JM
Methane	BRL	4		ug/L	197643	1	10/14/2014 15:05	JM
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	7.00	3.00		mg/L	R277889	1	10/15/2014 10:25	PF

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Earthcon

Work Order Number 1410922

Checklist completed by Jan B 10/9/14
Signature Date

Carrier name: FedEx UPS Courier Client US Mail Other

Shipping container/cooler in good condition? Yes No Not Present

Custody seals intact on shipping container/cooler? Yes No Not Present

Custody seals intact on sample bottles? Yes No Not Present

Container/Temp Blank temperature in compliance? (0°≤6°C)* Yes No

Cooler #1 3.2° Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler #5 _____ Cooler #6 _____

Chain of custody present? Yes No

Chain of custody signed when relinquished and received? Yes No

Chain of custody agrees with sample labels? Yes No

Samples in proper container/bottle? Yes No

Sample containers intact? Yes No

Sufficient sample volume for indicated test? Yes No

All samples received within holding time? Yes No

Was TAT marked on the COC? Yes No

Proceed with Standard TAT as per project history? Yes No Not Applicable

Water - VOA vials have zero headspace? No VOA vials submitted Yes No

Water - pH acceptable upon receipt? Yes No Not Applicable

Adjusted? _____ Checked by JB
Sample Condition: Good Other(Explain) _____

(For diffusive samples or AIHA lead) Is a known blank included? Yes No

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

Client: EarthCon Consultants, Inc.
 Project: Apollo Smyrna
 Lab Order: 1410922

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1410922-001A	MW3	10/8/2014 5:30:00PM	Groundwater	TCL VOLATILE ORGANICS		10/12/2014	10/12/2014
1410922-001A	MW3	10/8/2014 5:30:00PM	Groundwater	TCL VOLATILE ORGANICS		10/12/2014	10/13/2014
1410922-001B	MW3	10/8/2014 5:30:00PM	Groundwater	GC Analysis of Gaseous Samples		10/14/2014	10/14/2014
1410922-001C	MW3	10/8/2014 5:30:00PM	Groundwater	Total Organic Carbon (TOC)			10/14/2014
1410922-001D	MW3	10/8/2014 5:30:00PM	Groundwater	Sulfide by SW9030/9034		10/15/2014	10/15/2014
1410922-001E	MW3	10/8/2014 5:30:00PM	Groundwater	Alkalinity by SM2320B			10/15/2014
1410922-001F	MW3	10/8/2014 5:30:00PM	Groundwater	ION SCAN			10/09/2014
1410922-002A	MW4	10/8/2014 7:10:00PM	Groundwater	TCL VOLATILE ORGANICS		10/12/2014	10/13/2014
1410922-002B	MW4	10/8/2014 7:10:00PM	Groundwater	GC Analysis of Gaseous Samples		10/14/2014	10/14/2014
1410922-002C	MW4	10/8/2014 7:10:00PM	Groundwater	Total Organic Carbon (TOC)			10/14/2014
1410922-002D	MW4	10/8/2014 7:10:00PM	Groundwater	Sulfide by SW9030/9034		10/15/2014	10/15/2014
1410922-002E	MW4	10/8/2014 7:10:00PM	Groundwater	Alkalinity by SM2320B			10/15/2014
1410922-002F	MW4	10/8/2014 7:10:00PM	Groundwater	ION SCAN			10/09/2014
1410922-003A	TRIP BLANK	10/9/2014 12:00:00AM	Aqueous	TCL VOLATILE ORGANICS		10/12/2014	10/12/2014
1410922-004A	RINS 1	10/8/2014 7:45:00PM	Aqueous	TCL VOLATILE ORGANICS		10/12/2014	10/13/2014
1410922-004B	RINS 1	10/8/2014 7:45:00PM	Aqueous	GC Analysis of Gaseous Samples		10/14/2014	10/14/2014
1410922-004C	RINS 1	10/8/2014 7:45:00PM	Aqueous	Total Organic Carbon (TOC)			10/14/2014
1410922-004D	RINS 1	10/8/2014 7:45:00PM	Aqueous	Sulfide by SW9030/9034		10/15/2014	10/15/2014
1410922-004E	RINS 1	10/8/2014 7:45:00PM	Aqueous	Alkalinity by SM2320B			10/15/2014
1410922-004F	RINS 1	10/8/2014 7:45:00PM	Aqueous	ION SCAN			10/09/2014

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1410922

ANALYTICAL QC SUMMARY REPORT

BatchID: 197537

Sample ID: MB-197537	Client ID:	Units: ug/L	Prep Date: 10/12/2014	Run No: 277650							
Sample Type: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 197537	Analysis Date: 10/12/2014	Seq No: 5867012							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,2,4-Trichlorobenzene	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dibromoethane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,3-Dichlorobenzene	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
2-Butanone	BRL	50									
2-Hexanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	50									
Benzene	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Bromoform	BRL	5.0									
Bromomethane	BRL	5.0									
Carbon disulfide	BRL	5.0									
Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									
Chloroform	BRL	5.0									
Chloromethane	BRL	10									

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1410922

ANALYTICAL QC SUMMARY REPORT

BatchID: 197537

Sample ID: MB-197537	Client ID:	Units: ug/L	Prep Date: 10/12/2014	Run No: 277650							
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 197537	Analysis Date: 10/12/2014	Seq No: 5867012							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Freon-113	BRL	10									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	5.0									
Methyl acetate	BRL	5.0									
Methyl tert-butyl ether	BRL	5.0									
Methylcyclohexane	BRL	5.0									
Methylene chloride	BRL	5.0									
o-Xylene	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	2.0									
Surr: 4-Bromofluorobenzene	44.14	0	50.00		88.3	66.2	120				
Surr: Dibromofluoromethane	51.99	0	50.00		104	79.5	121				
Surr: Toluene-d8	47.15	0	50.00		94.3	77	117				

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1410922

ANALYTICAL QC SUMMARY REPORT

BatchID: 197537

Sample ID: LCS-197537	Client ID:	Units: ug/L	Prep Date: 10/12/2014	Run No: 277650							
SampleType: LCS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 197537	Analysis Date: 10/12/2014	Seq No: 5867011							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	52.67	5.0	50.00		105	63.1	140				
Benzene	52.98	5.0	50.00		106	74.2	129				
Chlorobenzene	52.83	5.0	50.00		106	70	129				
Toluene	52.52	5.0	50.00		105	74.2	129				
Trichloroethene	52.61	5.0	50.00		105	71.2	135				
Surr: 4-Bromofluorobenzene	45.81	0	50.00		91.6	66.2	120				
Surr: Dibromofluoromethane	48.74	0	50.00		97.5	79.5	121				
Surr: Toluene-d8	45.49	0	50.00		91.0	77	117				

Sample ID: 1410929-002AMS	Client ID:	Units: ug/L	Prep Date: 10/12/2014	Run No: 277650							
SampleType: MS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 197537	Analysis Date: 10/12/2014	Seq No: 5867021							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	61.85	5.0	50.00		124	60.2	159				
Benzene	60.32	5.0	50.00		121	70.2	138				
Chlorobenzene	60.70	5.0	50.00		121	70.1	133				
Toluene	60.50	5.0	50.00		121	70	139				
Trichloroethene	58.68	5.0	50.00		117	70.1	144				
Surr: 4-Bromofluorobenzene	44.10	0	50.00		88.2	66.2	120				
Surr: Dibromofluoromethane	51.79	0	50.00		104	79.5	121				
Surr: Toluene-d8	45.45	0	50.00		90.9	77	117				

Sample ID: 1410929-002AMSD	Client ID:	Units: ug/L	Prep Date: 10/12/2014	Run No: 277650							
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 197537	Analysis Date: 10/12/2014	Seq No: 5867023							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	62.17	5.0	50.00		124	60.2	159	61.85	0.516	19.2	
Benzene	61.10	5.0	50.00		122	70.2	138	60.32	1.28	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1410922

ANALYTICAL QC SUMMARY REPORT

BatchID: 197537

Sample ID: 1410929-002AMSD	Client ID:	Units: ug/L	Prep Date: 10/12/2014	Run No: 277650
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 197537	Analysis Date: 10/12/2014	Seq No: 5867023

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorobenzene	61.57	5.0	50.00		123	70.1	133	60.70	1.42	20	
Toluene	62.10	5.0	50.00		124	70	139	60.50	2.61	20	
Trichloroethene	59.79	5.0	50.00		120	70.1	144	58.68	1.87	20	
Surr: 4-Bromofluorobenzene	44.79	0	50.00		89.6	66.2	120	44.10	0	0	
Surr: Dibromofluoromethane	53.58	0	50.00		107	79.5	121	51.79	0	0	
Surr: Toluene-d8	46.91	0	50.00		93.8	77	117	45.45	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1410922

ANALYTICAL QC SUMMARY REPORT

BatchID: 197643

Sample ID: MB-197643	Client ID:	Units: ug/L	Prep Date: 10/14/2014	Run No: 277831							
SampleType: MBLK	TestCode: GC Analysis of Gaseous Samples SOP-RSK 175	BatchID: 197643	Analysis Date: 10/14/2014	Seq No: 5870907							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethane	BRL	9									
Ethylene	BRL	7									
Methane	BRL	4									

Sample ID: LCS-197643	Client ID:	Units: ug/L	Prep Date: 10/14/2014	Run No: 277831							
SampleType: LCS	TestCode: GC Analysis of Gaseous Samples SOP-RSK 175	BatchID: 197643	Analysis Date: 10/14/2014	Seq No: 5870908							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethane	92.51	9	200.0		46.3	41.6	115				
Ethylene	62.91	7	200.0		31.5	26.9	115				
Methane	105.3	4	200.0		52.6	45.2	115				

Sample ID: LCSD-197643	Client ID:	Units: ug/L	Prep Date: 10/14/2014	Run No: 277831							
SampleType: LCSD	TestCode: GC Analysis of Gaseous Samples SOP-RSK 175	BatchID: 197643	Analysis Date: 10/14/2014	Seq No: 5870909							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethane	93.00	9	200.0		46.5	41.6	115	92.51	0.527	20	
Ethylene	63.43	7	200.0		31.7	26.9	115	62.91	0.817	20	
Methane	104.7	4	200.0		52.4	45.2	115	105.3	0.531	20	

Sample ID: 1410922-004BMS	Client ID: RINS 1	Units: ug/L	Prep Date: 10/14/2014	Run No: 277831							
SampleType: MS	TestCode: GC Analysis of Gaseous Samples SOP-RSK 175	BatchID: 197643	Analysis Date: 10/14/2014	Seq No: 5870914							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethane	99.61	9	200.0		49.8	40.1	115				
Ethylene	68.06	7	200.0		34.0	24.5	115				
Methane	114.2	4	200.0		57.1	41.1	115				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1410922

ANALYTICAL QC SUMMARY REPORT

BatchID: 197643

Sample ID: 1410922-004BMSD	Client ID: RINS 1	Units: ug/L	Prep Date: 10/14/2014	Run No: 277831							
SampleType: MSD	TestCode: GC Analysis of Gaseous Samples SOP-RSK 175	BatchID: 197643	Analysis Date: 10/14/2014	Seq No: 5870917							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethane	101.6	9	200.0		50.8	40.1	115	99.61	1.95	20	
Ethylene	69.35	7	200.0		34.7	24.5	115	68.06	1.88	20	
Methane	116.9	4	200.0		58.4	41.1	115	114.2	2.33	20	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1410922

ANALYTICAL QC SUMMARY REPORT

BatchID: 197735

Sample ID: MB-197735	Client ID:	Units: mg/L	Prep Date: 10/15/2014	Run No: 277927							
SampleType: MBLK	TestCode: Sulfide by SW9030B/9034	BatchID: 197735	Analysis Date: 10/15/2014	Seq No: 5873371							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Sulfide BRL 2.00

Sample ID: LCS-197735	Client ID:	Units: mg/L	Prep Date: 10/15/2014	Run No: 277927							
SampleType: LCS	TestCode: Sulfide by SW9030B/9034	BatchID: 197735	Analysis Date: 10/15/2014	Seq No: 5873372							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Sulfide 368.0 2.00 368.0 100 40 120

Sample ID: 1410771-002DMS	Client ID:	Units: mg/L	Prep Date: 10/15/2014	Run No: 277927							
SampleType: MS	TestCode: Sulfide by SW9030B/9034	BatchID: 197735	Analysis Date: 10/15/2014	Seq No: 5873392							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Sulfide 18.20 2.00 18.40 98.9 76.7 120

Sample ID: 1410771-002DMSD	Client ID:	Units: mg/L	Prep Date: 10/15/2014	Run No: 277927							
SampleType: MSD	TestCode: Sulfide by SW9030B/9034	BatchID: 197735	Analysis Date: 10/15/2014	Seq No: 5873394							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Sulfide 17.80 2.00 18.40 96.7 76.7 120 18.20 2.22 20

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
	BRL Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
	J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
	Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1410922

ANALYTICAL QC SUMMARY REPORT

BatchID: R277825

Sample ID: MB-R277825	Client ID:	Units: mg/L	Prep Date:	Run No: 277825							
SampleType: MBLK	TestCode: ION SCAN SW9056A	BatchID: R277825	Analysis Date: 10/09/2014	Seq No: 5870722							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride	BRL	1.0									
Nitrate	BRL	0.25									
Sulfate	BRL	1.0									

Sample ID: LCS-R277825	Client ID:	Units: mg/L	Prep Date:	Run No: 277825							
SampleType: LCS	TestCode: ION SCAN SW9056A	BatchID: R277825	Analysis Date: 10/09/2014	Seq No: 5870721							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride	9.865	1.0	10.00		98.6	90	110				
Nitrate	4.784	0.25	5.000		95.7	90	110				
Sulfate	23.75	1.0	25.00		95.0	90	110				

Sample ID: 1410784-007CMS	Client ID:	Units: mg/L	Prep Date:	Run No: 277825							
SampleType: MS	TestCode: ION SCAN SW9056A	BatchID: R277825	Analysis Date: 10/09/2014	Seq No: 5870733							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride	16.15	1.0	10.00	6.011	101	90	110				
Nitrate	4.870	0.25	5.000		97.4	90	110				
Sulfate	24.01	1.0	25.00		96.0	90	110				

Sample ID: 1410784-007CMSD	Client ID:	Units: mg/L	Prep Date:	Run No: 277825							
SampleType: MSD	TestCode: ION SCAN SW9056A	BatchID: R277825	Analysis Date: 10/09/2014	Seq No: 5870892							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride	16.05	1.0	10.00	6.011	100	90	110	16.15	0.663	20	
Nitrate	5.897	0.25	5.000		118	90	110	4.870	19.1	20	S
Sulfate	27.14	1.0	25.00		109	90	110	24.01	12.3	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1410922

ANALYTICAL QC SUMMARY REPORT

BatchID: R277878

Sample ID: MB-R277878	Client ID:	Units: mg/L	Prep Date:	Run No: 277878							
SampleType: MBLK	TestCode: Total Organic Carbon (TOC) SW9060A	BatchID: R277878	Analysis Date: 10/14/2014	Seq No: 5872121							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Organic Carbon, Total

BRL 1.00

Sample ID: LCS-R277878	Client ID:	Units: mg/L	Prep Date:	Run No: 277878							
SampleType: LCS	TestCode: Total Organic Carbon (TOC) SW9060A	BatchID: R277878	Analysis Date: 10/14/2014	Seq No: 5872119							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Organic Carbon, Total

24.09 1.00 25.00 96.4 90 110

Sample ID: 1410789-001CMS	Client ID:	Units: mg/L	Prep Date:	Run No: 277878							
SampleType: MS	TestCode: Total Organic Carbon (TOC) SW9060A	BatchID: R277878	Analysis Date: 10/14/2014	Seq No: 5872149							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Organic Carbon, Total

26.59 1.00 25.00 1.537 100 80 120

Sample ID: 1410789-001CMSD	Client ID:	Units: mg/L	Prep Date:	Run No: 277878							
SampleType: MSD	TestCode: Total Organic Carbon (TOC) SW9060A	BatchID: R277878	Analysis Date: 10/14/2014	Seq No: 5872151							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Organic Carbon, Total

27.42 1.00 25.00 1.537 104 80 120 26.59 3.07 20

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
	BRL Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
	J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
	Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1410922

ANALYTICAL QC SUMMARY REPORT

BatchID: R277889

Sample ID: MB-R277889	Client ID:	Units: mg/L	Prep Date:	Run No: 277889							
SampleType: MBLK	TestCode: Alkalinity by SM2320B	BatchID: R277889	Analysis Date: 10/15/2014	Seq No: 5872274							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Alkalinity, Total (As CaCO3)

BRL 3.00

Sample ID: LCS-R277889	Client ID:	Units: mg/L	Prep Date:	Run No: 277889							
SampleType: LCS	TestCode: Alkalinity by SM2320B	BatchID: R277889	Analysis Date: 10/15/2014	Seq No: 5872275							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Alkalinity, Total (As CaCO3)

116.0 3.00 125.0 1.000 92.0 75 125

Sample ID: 1410922-001EDUP	Client ID: MW3	Units: mg/L	Prep Date:	Run No: 277889							
SampleType: DUP	TestCode: Alkalinity by SM2320B	BatchID: R277889	Analysis Date: 10/15/2014	Seq No: 5872280							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Alkalinity, Total (As CaCO3)

177.0 3.00 186.0 4.96 30

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
	BRL Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
	J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
	Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

January 27, 2015

Kristen Rivera
EarthCon Consultants, Inc.
1880 West Oak Parkway
Marietta GA 30062

TEL: (770) 973-2100
FAX: (770) 973-7395

RE: Apollo Smyrna

Dear Kristen Rivera:

Order No: 1501A83

Analytical Environmental Services, Inc. received 4 samples on 1/15/2015 11:20:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/14-06/30/15.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/15.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Chantelle Kanhai
Project Manager



ANALYTICAL ENVIRONMENTAL SERVICES, INC

3080 Presidential Drive, Atlanta GA 30340-3704

TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1501A83

Date: 1/14/15 Page 1 of 1

COMPANY: EALTHCON		ADDRESS: 1880 WEST OAK PKWY BLDG 100, STE 106 MARIETTA GA 30062				ANALYSIS REQUESTED						Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.		No # of Containers											
PHONE: 770-973-2100		FAX:				<table border="1"> <tr> <td>TOC</td> <td>Alkalinity</td> <td>Sulfide</td> <td>Total Sulfur</td> <td>MEE (GC)</td> <td>VOC</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>									TOC	Alkalinity	Sulfide	Total Sulfur	MEE (GC)	VOC					
TOC	Alkalinity	Sulfide	Total Sulfur	MEE (GC)	VOC																				
SAMPLED BY: P. Frix		SIGNATURE:				PRESERVATION (See codes)						REMARKS													
#	SAMPLE ID	DATE	TIME	Grab	Composite	Matrix (See codes)	SE	I	NH	I	H-I				H-I										
1	MW-9	1/14/15	1230	X		GW	1	1	1	1	2	2													
2	MW-13	↓	1445	X		GW	1	1	1	1	2	2													
3	MW-7	↓	1735	X		GW	1	1	1	1	2	2													
4	Trip Blank											2													
5																									
6																									
7																									
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RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME	PROJECT INFORMATION	RECEIPT
1:	1/14/15 2020	1:	1/15/15 11:20 AM	PROJECT NAME: Apollo Symptom	Total # of Containers 26
2: Samantha Woolf	1/15/2015 1120	2:	1/15/15 11:20 AM	PROJECT #:	<input checked="" type="radio"/> Turnaround Time Request <input type="radio"/> Standard 5 Business Days <input type="radio"/> 2 Business Day Rush <input type="radio"/> Next Business Day Rush <input type="radio"/> Same Day Rush (auth req.) <input type="radio"/> Other _____
3:		3:	15	SEND REPORT TO: Kristen Rivera	
SPECIAL INSTRUCTIONS/COMMENTS:	SHIPMENT METHOD		INVOICE TO:	STATE PROGRAM (if any):	E-mail? Y/N; Fax? Y/N
	OUT	VIA:	(IF DIFFERENT FROM ABOVE)	DATA PACKAGE: I II III IV	
	IN	VIA:	QUOTE #:	PO#:	
	CLIENT	FedEx UPS MAIL COURIER			
	GREYHOUND	OTHER			

SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY. IF TURNAROUND TIME IS NOT INDICATED, AES WILL PROCEED WITH STANDARD TAT OF SAMPLES.
 SAMPLES ARE DISPOSED 30 DAYS AFTER REPORT COMPLETION UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water
 PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

Page 2 of 23
White Copy - Original; Yellow Copy - Client

Client: EarthCon Consultants, Inc.

Project: Apollo Smyrna

Lab ID: 1501A83

Case Narrative

TOC Analysis by Method 9060A:

Due to sample matrix, samples 1501A83-001 and -002 required a dilution during preparation and/or analysis resulting in elevated reporting limits.

Analytical Environmental Services, Inc

Date: 27-Jan-15

Client: EarthCon Consultants, Inc.	Client Sample ID: MW-9
Project Name: Apollo Smyrna	Collection Date: 1/14/2015 12:30:00 PM
Lab ID: 1501A83-001	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) SW9060A								
Organic Carbon, Total	BRL	5.00		mg/L	R283845	5	01/16/2015 18:37	YS
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	201828	1	01/19/2015 13:35	GC
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	201828	1	01/19/2015 13:35	GC
1,1,2-Trichloroethane	BRL	5.0		ug/L	201828	1	01/19/2015 13:35	GC
1,1-Dichloroethane	BRL	5.0		ug/L	201828	1	01/19/2015 13:35	GC
1,1-Dichloroethene	BRL	5.0		ug/L	201828	1	01/19/2015 13:35	GC
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	201828	1	01/19/2015 13:35	GC
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	201828	1	01/19/2015 13:35	GC
1,2-Dibromoethane	BRL	5.0		ug/L	201828	1	01/19/2015 13:35	GC
1,2-Dichlorobenzene	BRL	5.0		ug/L	201828	1	01/19/2015 13:35	GC
1,2-Dichloroethane	BRL	5.0		ug/L	201828	1	01/19/2015 13:35	GC
1,2-Dichloropropane	BRL	5.0		ug/L	201828	1	01/19/2015 13:35	GC
1,3-Dichlorobenzene	BRL	5.0		ug/L	201828	1	01/19/2015 13:35	GC
1,4-Dichlorobenzene	BRL	5.0		ug/L	201828	1	01/19/2015 13:35	GC
2-Butanone	BRL	50		ug/L	201828	1	01/19/2015 13:35	GC
2-Hexanone	BRL	10		ug/L	201828	1	01/19/2015 13:35	GC
4-Methyl-2-pentanone	BRL	10		ug/L	201828	1	01/19/2015 13:35	GC
Acetone	BRL	50		ug/L	201828	1	01/19/2015 13:35	GC
Benzene	BRL	5.0		ug/L	201828	1	01/19/2015 13:35	GC
Bromodichloromethane	BRL	5.0		ug/L	201828	1	01/19/2015 13:35	GC
Bromoform	BRL	5.0		ug/L	201828	1	01/19/2015 13:35	GC
Bromomethane	BRL	5.0		ug/L	201828	1	01/19/2015 13:35	GC
Carbon disulfide	BRL	5.0		ug/L	201828	1	01/19/2015 13:35	GC
Carbon tetrachloride	BRL	5.0		ug/L	201828	1	01/19/2015 13:35	GC
Chlorobenzene	BRL	5.0		ug/L	201828	1	01/19/2015 13:35	GC
Chloroethane	BRL	10		ug/L	201828	1	01/19/2015 13:35	GC
Chloroform	BRL	5.0		ug/L	201828	1	01/19/2015 13:35	GC
Chloromethane	BRL	10		ug/L	201828	1	01/19/2015 13:35	GC
cis-1,2-Dichloroethene	BRL	5.0		ug/L	201828	1	01/19/2015 13:35	GC
cis-1,3-Dichloropropene	BRL	5.0		ug/L	201828	1	01/19/2015 13:35	GC
Cyclohexane	BRL	5.0		ug/L	201828	1	01/19/2015 13:35	GC
Dibromochloromethane	BRL	5.0		ug/L	201828	1	01/19/2015 13:35	GC
Dichlorodifluoromethane	BRL	10		ug/L	201828	1	01/19/2015 13:35	GC
Ethylbenzene	BRL	5.0		ug/L	201828	1	01/19/2015 13:35	GC
Freon-113	BRL	10		ug/L	201828	1	01/19/2015 13:35	GC
Isopropylbenzene	BRL	5.0		ug/L	201828	1	01/19/2015 13:35	GC
m,p-Xylene	BRL	5.0		ug/L	201828	1	01/19/2015 13:35	GC
Methyl acetate	BRL	5.0		ug/L	201828	1	01/19/2015 13:35	GC
Methyl tert-butyl ether	BRL	5.0		ug/L	201828	1	01/19/2015 13:35	GC

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: EarthCon Consultants, Inc.	Client Sample ID: MW-9
Project Name: Apollo Smyrna	Collection Date: 1/14/2015 12:30:00 PM
Lab ID: 1501A83-001	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
Methylcyclohexane	BRL	5.0		ug/L	201828	1	01/19/2015 13:35	GC
Methylene chloride	BRL	10		ug/L	201828	1	01/19/2015 13:35	GC
o-Xylene	BRL	5.0		ug/L	201828	1	01/19/2015 13:35	GC
Styrene	BRL	5.0		ug/L	201828	1	01/19/2015 13:35	GC
Tetrachloroethene	BRL	5.0		ug/L	201828	1	01/19/2015 13:35	GC
Toluene	BRL	5.0		ug/L	201828	1	01/19/2015 13:35	GC
trans-1,2-Dichloroethene	BRL	5.0		ug/L	201828	1	01/19/2015 13:35	GC
trans-1,3-Dichloropropene	BRL	5.0		ug/L	201828	1	01/19/2015 13:35	GC
Trichloroethene	BRL	5.0		ug/L	201828	1	01/19/2015 13:35	GC
Trichlorofluoromethane	BRL	5.0		ug/L	201828	1	01/19/2015 13:35	GC
Vinyl chloride	BRL	2.0		ug/L	201828	1	01/19/2015 13:35	GC
Surr: 4-Bromofluorobenzene	93.7	70.6-123		%REC	201828	1	01/19/2015 13:35	GC
Surr: Dibromofluoromethane	103	78.7-124		%REC	201828	1	01/19/2015 13:35	GC
Surr: Toluene-d8	99.1	81.3-120		%REC	201828	1	01/19/2015 13:35	GC
Sulfide by SW9030B/9034 (SW9030B)								
Sulfide	BRL	2.00		mg/L	202011	1	01/21/2015 10:40	AB
ION SCAN SW9056A								
Chloride	7.2	1.0		mg/L	R283941	1	01/16/2015 02:58	JW
Nitrate	BRL	0.25		mg/L	R283941	1	01/16/2015 02:58	JW
Sulfate	19	1.0		mg/L	R283941	1	01/16/2015 02:58	JW
GC Analysis of Gaseous Samples SOP-RSK 175 (RSK175)								
Ethane	BRL	9		ug/L	201751	1	01/16/2015 13:32	JM
Ethylene	BRL	7		ug/L	201751	1	01/16/2015 13:32	JM
Methane	680	40		ug/L	201751	10	01/16/2015 13:58	JM
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	29.0	3.00		mg/L	R283805	1	01/16/2015 12:00	PF

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
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- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 27-Jan-15

Client: EarthCon Consultants, Inc.	Client Sample ID: MW-13
Project Name: Apollo Smyrna	Collection Date: 1/14/2015 2:45:00 PM
Lab ID: 1501A83-002	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) SW9060A								
Organic Carbon, Total	BRL	5.00		mg/L	R283845	5	01/16/2015 18:57	YS
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	201828	1	01/19/2015 14:00	GC
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	201828	1	01/19/2015 14:00	GC
1,1,2-Trichloroethane	BRL	5.0		ug/L	201828	1	01/19/2015 14:00	GC
1,1-Dichloroethane	BRL	5.0		ug/L	201828	1	01/19/2015 14:00	GC
1,1-Dichloroethene	BRL	5.0		ug/L	201828	1	01/19/2015 14:00	GC
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	201828	1	01/19/2015 14:00	GC
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	201828	1	01/19/2015 14:00	GC
1,2-Dibromoethane	BRL	5.0		ug/L	201828	1	01/19/2015 14:00	GC
1,2-Dichlorobenzene	BRL	5.0		ug/L	201828	1	01/19/2015 14:00	GC
1,2-Dichloroethane	BRL	5.0		ug/L	201828	1	01/19/2015 14:00	GC
1,2-Dichloropropane	BRL	5.0		ug/L	201828	1	01/19/2015 14:00	GC
1,3-Dichlorobenzene	BRL	5.0		ug/L	201828	1	01/19/2015 14:00	GC
1,4-Dichlorobenzene	BRL	5.0		ug/L	201828	1	01/19/2015 14:00	GC
2-Butanone	BRL	50		ug/L	201828	1	01/19/2015 14:00	GC
2-Hexanone	BRL	10		ug/L	201828	1	01/19/2015 14:00	GC
4-Methyl-2-pentanone	BRL	10		ug/L	201828	1	01/19/2015 14:00	GC
Acetone	BRL	50		ug/L	201828	1	01/19/2015 14:00	GC
Benzene	BRL	5.0		ug/L	201828	1	01/19/2015 14:00	GC
Bromodichloromethane	BRL	5.0		ug/L	201828	1	01/19/2015 14:00	GC
Bromoform	BRL	5.0		ug/L	201828	1	01/19/2015 14:00	GC
Bromomethane	BRL	5.0		ug/L	201828	1	01/19/2015 14:00	GC
Carbon disulfide	BRL	5.0		ug/L	201828	1	01/19/2015 14:00	GC
Carbon tetrachloride	BRL	5.0		ug/L	201828	1	01/19/2015 14:00	GC
Chlorobenzene	BRL	5.0		ug/L	201828	1	01/19/2015 14:00	GC
Chloroethane	BRL	10		ug/L	201828	1	01/19/2015 14:00	GC
Chloroform	BRL	5.0		ug/L	201828	1	01/19/2015 14:00	GC
Chloromethane	BRL	10		ug/L	201828	1	01/19/2015 14:00	GC
cis-1,2-Dichloroethene	BRL	5.0		ug/L	201828	1	01/19/2015 14:00	GC
cis-1,3-Dichloropropene	BRL	5.0		ug/L	201828	1	01/19/2015 14:00	GC
Cyclohexane	BRL	5.0		ug/L	201828	1	01/19/2015 14:00	GC
Dibromochloromethane	BRL	5.0		ug/L	201828	1	01/19/2015 14:00	GC
Dichlorodifluoromethane	BRL	10		ug/L	201828	1	01/19/2015 14:00	GC
Ethylbenzene	BRL	5.0		ug/L	201828	1	01/19/2015 14:00	GC
Freon-113	BRL	10		ug/L	201828	1	01/19/2015 14:00	GC
Isopropylbenzene	BRL	5.0		ug/L	201828	1	01/19/2015 14:00	GC
m,p-Xylene	BRL	5.0		ug/L	201828	1	01/19/2015 14:00	GC
Methyl acetate	BRL	5.0		ug/L	201828	1	01/19/2015 14:00	GC
Methyl tert-butyl ether	BRL	5.0		ug/L	201828	1	01/19/2015 14:00	GC

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: EarthCon Consultants, Inc.	Client Sample ID: MW-13
Project Name: Apollo Smyrna	Collection Date: 1/14/2015 2:45:00 PM
Lab ID: 1501A83-002	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B			(SW5030B)					
Methylcyclohexane	BRL	5.0		ug/L	201828	1	01/19/2015 14:00	GC
Methylene chloride	BRL	10		ug/L	201828	1	01/19/2015 14:00	GC
o-Xylene	BRL	5.0		ug/L	201828	1	01/19/2015 14:00	GC
Styrene	BRL	5.0		ug/L	201828	1	01/19/2015 14:00	GC
Tetrachloroethene	BRL	5.0		ug/L	201828	1	01/19/2015 14:00	GC
Toluene	BRL	5.0		ug/L	201828	1	01/19/2015 14:00	GC
trans-1,2-Dichloroethene	BRL	5.0		ug/L	201828	1	01/19/2015 14:00	GC
trans-1,3-Dichloropropene	BRL	5.0		ug/L	201828	1	01/19/2015 14:00	GC
Trichloroethene	BRL	5.0		ug/L	201828	1	01/19/2015 14:00	GC
Trichlorofluoromethane	BRL	5.0		ug/L	201828	1	01/19/2015 14:00	GC
Vinyl chloride	BRL	2.0		ug/L	201828	1	01/19/2015 14:00	GC
Surr: 4-Bromofluorobenzene	94.4	70.6-123		%REC	201828	1	01/19/2015 14:00	GC
Surr: Dibromofluoromethane	102	78.7-124		%REC	201828	1	01/19/2015 14:00	GC
Surr: Toluene-d8	99	81.3-120		%REC	201828	1	01/19/2015 14:00	GC
Sulfide by SW9030B/9034			(SW9030B)					
Sulfide	BRL	2.00		mg/L	202011	1	01/21/2015 10:40	AB
ION SCAN SW9056A								
Chloride	9.0	1.0		mg/L	R283941	1	01/16/2015 03:13	JW
Nitrate	BRL	0.25		mg/L	R283941	1	01/16/2015 03:13	JW
Sulfate	BRL	1.0		mg/L	R283941	1	01/16/2015 03:13	JW
GC Analysis of Gaseous Samples SOP-RSK 175			(RSK175)					
Ethane	220	9		ug/L	201751	1	01/16/2015 13:38	JM
Ethylene	BRL	7		ug/L	201751	1	01/16/2015 13:38	JM
Methane	4500	400		ug/L	201751	100	01/16/2015 14:03	JM
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	73.0	3.00		mg/L	R283805	1	01/16/2015 12:00	PF

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 27-Jan-15

Client: EarthCon Consultants, Inc.	Client Sample ID: MW-7
Project Name: Apollo Smyrna	Collection Date: 1/14/2015 5:35:00 PM
Lab ID: 1501A83-003	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) SW9060A								
Organic Carbon, Total	6.28	5.00		mg/L	R283845	5	01/16/2015 18:17	YS
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	201828	1	01/19/2015 14:24	GC
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	201828	1	01/19/2015 14:24	GC
1,1,2-Trichloroethane	BRL	5.0		ug/L	201828	1	01/19/2015 14:24	GC
1,1-Dichloroethane	BRL	5.0		ug/L	201828	1	01/19/2015 14:24	GC
1,1-Dichloroethene	BRL	5.0		ug/L	201828	1	01/19/2015 14:24	GC
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	201828	1	01/19/2015 14:24	GC
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	201828	1	01/19/2015 14:24	GC
1,2-Dibromoethane	BRL	5.0		ug/L	201828	1	01/19/2015 14:24	GC
1,2-Dichlorobenzene	BRL	5.0		ug/L	201828	1	01/19/2015 14:24	GC
1,2-Dichloroethane	BRL	5.0		ug/L	201828	1	01/19/2015 14:24	GC
1,2-Dichloropropane	BRL	5.0		ug/L	201828	1	01/19/2015 14:24	GC
1,3-Dichlorobenzene	BRL	5.0		ug/L	201828	1	01/19/2015 14:24	GC
1,4-Dichlorobenzene	BRL	5.0		ug/L	201828	1	01/19/2015 14:24	GC
2-Butanone	BRL	50		ug/L	201828	1	01/19/2015 14:24	GC
2-Hexanone	BRL	10		ug/L	201828	1	01/19/2015 14:24	GC
4-Methyl-2-pentanone	BRL	10		ug/L	201828	1	01/19/2015 14:24	GC
Acetone	BRL	50		ug/L	201828	1	01/19/2015 14:24	GC
Benzene	BRL	5.0		ug/L	201828	1	01/19/2015 14:24	GC
Bromodichloromethane	BRL	5.0		ug/L	201828	1	01/19/2015 14:24	GC
Bromoform	BRL	5.0		ug/L	201828	1	01/19/2015 14:24	GC
Bromomethane	BRL	5.0		ug/L	201828	1	01/19/2015 14:24	GC
Carbon disulfide	BRL	5.0		ug/L	201828	1	01/19/2015 14:24	GC
Carbon tetrachloride	BRL	5.0		ug/L	201828	1	01/19/2015 14:24	GC
Chlorobenzene	BRL	5.0		ug/L	201828	1	01/19/2015 14:24	GC
Chloroethane	BRL	10		ug/L	201828	1	01/19/2015 14:24	GC
Chloroform	BRL	5.0		ug/L	201828	1	01/19/2015 14:24	GC
Chloromethane	BRL	10		ug/L	201828	1	01/19/2015 14:24	GC
cis-1,2-Dichloroethene	250	50		ug/L	201828	10	01/19/2015 16:52	GC
cis-1,3-Dichloropropene	BRL	5.0		ug/L	201828	1	01/19/2015 14:24	GC
Cyclohexane	BRL	5.0		ug/L	201828	1	01/19/2015 14:24	GC
Dibromochloromethane	BRL	5.0		ug/L	201828	1	01/19/2015 14:24	GC
Dichlorodifluoromethane	BRL	10		ug/L	201828	1	01/19/2015 14:24	GC
Ethylbenzene	BRL	5.0		ug/L	201828	1	01/19/2015 14:24	GC
Freon-113	BRL	10		ug/L	201828	1	01/19/2015 14:24	GC
Isopropylbenzene	BRL	5.0		ug/L	201828	1	01/19/2015 14:24	GC
m,p-Xylene	BRL	5.0		ug/L	201828	1	01/19/2015 14:24	GC
Methyl acetate	BRL	5.0		ug/L	201828	1	01/19/2015 14:24	GC
Methyl tert-butyl ether	BRL	5.0		ug/L	201828	1	01/19/2015 14:24	GC

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: EarthCon Consultants, Inc.	Client Sample ID: MW-7
Project Name: Apollo Smyrna	Collection Date: 1/14/2015 5:35:00 PM
Lab ID: 1501A83-003	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
Methylcyclohexane	BRL	5.0		ug/L	201828	1	01/19/2015 14:24	GC
Methylene chloride	BRL	10		ug/L	201828	1	01/19/2015 14:24	GC
o-Xylene	BRL	5.0		ug/L	201828	1	01/19/2015 14:24	GC
Styrene	BRL	5.0		ug/L	201828	1	01/19/2015 14:24	GC
Tetrachloroethene	BRL	5.0		ug/L	201828	1	01/19/2015 14:24	GC
Toluene	5.0	5.0		ug/L	201828	1	01/19/2015 14:24	GC
trans-1,2-Dichloroethene	BRL	5.0		ug/L	201828	1	01/19/2015 14:24	GC
trans-1,3-Dichloropropene	BRL	5.0		ug/L	201828	1	01/19/2015 14:24	GC
Trichloroethene	BRL	5.0		ug/L	201828	1	01/19/2015 14:24	GC
Trichlorofluoromethane	BRL	5.0		ug/L	201828	1	01/19/2015 14:24	GC
Vinyl chloride	160	2.0		ug/L	201828	1	01/19/2015 14:24	GC
Surr: 4-Bromofluorobenzene	93	70.6-123		%REC	201828	10	01/19/2015 16:52	GC
Surr: 4-Bromofluorobenzene	94.8	70.6-123		%REC	201828	1	01/19/2015 14:24	GC
Surr: Dibromofluoromethane	101	78.7-124		%REC	201828	1	01/19/2015 14:24	GC
Surr: Dibromofluoromethane	104	78.7-124		%REC	201828	10	01/19/2015 16:52	GC
Surr: Toluene-d8	97.9	81.3-120		%REC	201828	10	01/19/2015 16:52	GC
Surr: Toluene-d8	98.2	81.3-120		%REC	201828	1	01/19/2015 14:24	GC
Sulfide by SW9030B/9034 (SW9030B)								
Sulfide	BRL	2.00		mg/L	202011	1	01/21/2015 10:40	AB
ION SCAN SW9056A								
Chloride	10	1.0		mg/L	R283941	1	01/16/2015 03:27	JW
Nitrate	BRL	0.25		mg/L	R283941	1	01/16/2015 03:27	JW
Sulfate	BRL	1.0		mg/L	R283941	1	01/16/2015 03:27	JW
GC Analysis of Gaseous Samples SOP-RSK 175 (RSK175)								
Ethane	60	9		ug/L	201751	1	01/16/2015 13:43	JM
Ethylene	140	7		ug/L	201751	1	01/16/2015 13:43	JM
Methane	3500	80		ug/L	201751	20	01/16/2015 14:08	JM
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	98.0	3.00		mg/L	R283805	1	01/16/2015 12:00	PF

Qualifiers:

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- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: EarthCon Consultants, Inc.	Client Sample ID: TRIP BLANK
Project Name: Apollo Smyrna	Collection Date: 1/15/2015
Lab ID: 1501A83-004	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	201828	1	01/19/2015 12:21	GC
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	201828	1	01/19/2015 12:21	GC
1,1,2-Trichloroethane	BRL	5.0		ug/L	201828	1	01/19/2015 12:21	GC
1,1-Dichloroethane	BRL	5.0		ug/L	201828	1	01/19/2015 12:21	GC
1,1-Dichloroethene	BRL	5.0		ug/L	201828	1	01/19/2015 12:21	GC
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	201828	1	01/19/2015 12:21	GC
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	201828	1	01/19/2015 12:21	GC
1,2-Dibromoethane	BRL	5.0		ug/L	201828	1	01/19/2015 12:21	GC
1,2-Dichlorobenzene	BRL	5.0		ug/L	201828	1	01/19/2015 12:21	GC
1,2-Dichloroethane	BRL	5.0		ug/L	201828	1	01/19/2015 12:21	GC
1,2-Dichloropropane	BRL	5.0		ug/L	201828	1	01/19/2015 12:21	GC
1,3-Dichlorobenzene	BRL	5.0		ug/L	201828	1	01/19/2015 12:21	GC
1,4-Dichlorobenzene	BRL	5.0		ug/L	201828	1	01/19/2015 12:21	GC
2-Butanone	BRL	50		ug/L	201828	1	01/19/2015 12:21	GC
2-Hexanone	BRL	10		ug/L	201828	1	01/19/2015 12:21	GC
4-Methyl-2-pentanone	BRL	10		ug/L	201828	1	01/19/2015 12:21	GC
Acetone	BRL	50		ug/L	201828	1	01/19/2015 12:21	GC
Benzene	BRL	5.0		ug/L	201828	1	01/19/2015 12:21	GC
Bromodichloromethane	BRL	5.0		ug/L	201828	1	01/19/2015 12:21	GC
Bromoform	BRL	5.0		ug/L	201828	1	01/19/2015 12:21	GC
Bromomethane	BRL	5.0		ug/L	201828	1	01/19/2015 12:21	GC
Carbon disulfide	BRL	5.0		ug/L	201828	1	01/19/2015 12:21	GC
Carbon tetrachloride	BRL	5.0		ug/L	201828	1	01/19/2015 12:21	GC
Chlorobenzene	BRL	5.0		ug/L	201828	1	01/19/2015 12:21	GC
Chloroethane	BRL	10		ug/L	201828	1	01/19/2015 12:21	GC
Chloroform	BRL	5.0		ug/L	201828	1	01/19/2015 12:21	GC
Chloromethane	BRL	10		ug/L	201828	1	01/19/2015 12:21	GC
cis-1,2-Dichloroethene	BRL	5.0		ug/L	201828	1	01/19/2015 12:21	GC
cis-1,3-Dichloropropene	BRL	5.0		ug/L	201828	1	01/19/2015 12:21	GC
Cyclohexane	BRL	5.0		ug/L	201828	1	01/19/2015 12:21	GC
Dibromochloromethane	BRL	5.0		ug/L	201828	1	01/19/2015 12:21	GC
Dichlorodifluoromethane	BRL	10		ug/L	201828	1	01/19/2015 12:21	GC
Ethylbenzene	BRL	5.0		ug/L	201828	1	01/19/2015 12:21	GC
Freon-113	BRL	10		ug/L	201828	1	01/19/2015 12:21	GC
Isopropylbenzene	BRL	5.0		ug/L	201828	1	01/19/2015 12:21	GC
m,p-Xylene	BRL	5.0		ug/L	201828	1	01/19/2015 12:21	GC
Methyl acetate	BRL	5.0		ug/L	201828	1	01/19/2015 12:21	GC
Methyl tert-butyl ether	BRL	5.0		ug/L	201828	1	01/19/2015 12:21	GC
Methylcyclohexane	BRL	5.0		ug/L	201828	1	01/19/2015 12:21	GC
Methylene chloride	BRL	10		ug/L	201828	1	01/19/2015 12:21	GC
o-Xylene	BRL	5.0		ug/L	201828	1	01/19/2015 12:21	GC

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
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- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: EarthCon Consultants, Inc.	Client Sample ID: TRIP BLANK
Project Name: Apollo Smyrna	Collection Date: 1/15/2015
Lab ID: 1501A83-004	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					(SW5030B)			
Styrene	BRL	5.0		ug/L	201828	1	01/19/2015 12:21	GC
Tetrachloroethene	BRL	5.0		ug/L	201828	1	01/19/2015 12:21	GC
Toluene	BRL	5.0		ug/L	201828	1	01/19/2015 12:21	GC
trans-1,2-Dichloroethene	BRL	5.0		ug/L	201828	1	01/19/2015 12:21	GC
trans-1,3-Dichloropropene	BRL	5.0		ug/L	201828	1	01/19/2015 12:21	GC
Trichloroethene	BRL	5.0		ug/L	201828	1	01/19/2015 12:21	GC
Trichlorofluoromethane	BRL	5.0		ug/L	201828	1	01/19/2015 12:21	GC
Vinyl chloride	BRL	2.0		ug/L	201828	1	01/19/2015 12:21	GC
Surr: 4-Bromofluorobenzene	94.1	70.6-123		%REC	201828	1	01/19/2015 12:21	GC
Surr: Dibromofluoromethane	102	78.7-124		%REC	201828	1	01/19/2015 12:21	GC
Surr: Toluene-d8	98	81.3-120		%REC	201828	1	01/19/2015 12:21	GC

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client EarthCon

Work Order Number 1501A83

Checklist completed by M. J. Clark Signature Date 1/15/15

Carrier name: FedEx UPS Courier Client US Mail Other

Shipping container/cooler in good condition? Yes No Not Present

Custody seals intact on shipping container/cooler? Yes No Not Present

Custody seals intact on sample bottles? Yes No Not Present

Container/Temp Blank temperature in compliance? (0°≤6°C)* Yes No

Cooler #1 3A Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Chain of custody present? Yes No

Chain of custody signed when relinquished and received? Yes No

Chain of custody agrees with sample labels? Yes No

Samples in proper container/bottle? Yes No

Sample containers intact? Yes No

Sufficient sample volume for indicated test? Yes No

All samples received within holding time? Yes No

Was TAT marked on the COC? Yes No

Proceed with Standard TAT as per project history? Yes No Not Applicable

Water - VOA vials have zero headspace? No VOA vials submitted Yes No

Water - pH acceptable upon receipt? Yes No Not Applicable

Adjusted? _____ Checked by David

Sample Condition: Good Other(Explain) _____

(For diffusive samples or AIIA lead) Is a known blank included? Yes No

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

Client: EarthCon Consultants, Inc.
 Project Name: Apollo Smyrna
 Lab Order: 1501A83

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1501A83-001A	MW-9	1/14/2015 12:30:00PM	Groundwater	TCL VOLATILE ORGANICS		1/16/2015 12:38:00PM	01/19/2015
1501A83-001B	MW-9	1/14/2015 12:30:00PM	Groundwater	GC Analysis of Gaseous Samples		1/15/2015 12:52:41PM	01/16/2015
1501A83-001C	MW-9	1/14/2015 12:30:00PM	Groundwater	Total Organic Carbon (TOC)			01/16/2015
1501A83-001D	MW-9	1/14/2015 12:30:00PM	Groundwater	Sulfide by SW9030/9034		1/21/2015 10:40:00AM	01/21/2015
1501A83-001E	MW-9	1/14/2015 12:30:00PM	Groundwater	Alkalinity by SM2320B			01/16/2015
1501A83-001F	MW-9	1/14/2015 12:30:00PM	Groundwater	ION SCAN			01/16/2015
1501A83-002A	MW-13	1/14/2015 2:45:00PM	Groundwater	TCL VOLATILE ORGANICS		1/16/2015 12:38:00PM	01/19/2015
1501A83-002B	MW-13	1/14/2015 2:45:00PM	Groundwater	GC Analysis of Gaseous Samples		1/15/2015 12:52:41PM	01/16/2015
1501A83-002C	MW-13	1/14/2015 2:45:00PM	Groundwater	Total Organic Carbon (TOC)			01/16/2015
1501A83-002D	MW-13	1/14/2015 2:45:00PM	Groundwater	Sulfide by SW9030/9034		1/21/2015 10:40:00AM	01/21/2015
1501A83-002E	MW-13	1/14/2015 2:45:00PM	Groundwater	Alkalinity by SM2320B			01/16/2015
1501A83-002F	MW-13	1/14/2015 2:45:00PM	Groundwater	ION SCAN			01/16/2015
1501A83-003A	MW-7	1/14/2015 5:35:00PM	Groundwater	TCL VOLATILE ORGANICS		1/16/2015 12:38:00PM	01/19/2015
1501A83-003B	MW-7	1/14/2015 5:35:00PM	Groundwater	GC Analysis of Gaseous Samples		1/15/2015 12:52:41PM	01/16/2015
1501A83-003C	MW-7	1/14/2015 5:35:00PM	Groundwater	Total Organic Carbon (TOC)			01/16/2015
1501A83-003D	MW-7	1/14/2015 5:35:00PM	Groundwater	Sulfide by SW9030/9034		1/21/2015 10:40:00AM	01/21/2015
1501A83-003E	MW-7	1/14/2015 5:35:00PM	Groundwater	Alkalinity by SM2320B			01/16/2015
1501A83-003F	MW-7	1/14/2015 5:35:00PM	Groundwater	ION SCAN			01/16/2015
1501A83-004A	TRIP BLANK	1/15/2015 12:00:00AM	Aqueous	TCL VOLATILE ORGANICS		1/16/2015 12:38:00PM	01/19/2015

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1501A83

ANALYTICAL QC SUMMARY REPORT

BatchID: 201751

Sample ID: MB-201751	Client ID:	Units: ug/L	Prep Date: 01/15/2015	Run No: 283955							
SampleType: MBLK	TestCode: GC Analysis of Gaseous Samples SOP-RSK 175	BatchID: 201751	Analysis Date: 01/16/2015	Seq No: 6019659							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethane	BRL	9									
Ethylene	BRL	7									
Methane	BRL	4									

Sample ID: LCS-201751	Client ID:	Units: ug/L	Prep Date: 01/15/2015	Run No: 283955							
SampleType: LCS	TestCode: GC Analysis of Gaseous Samples SOP-RSK 175	BatchID: 201751	Analysis Date: 01/16/2015	Seq No: 6019660							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethane	100.4	9	200.0		50.2	41.2	115				
Ethylene	69.26	7	200.0		34.6	26.5	115				
Methane	110.0	4	200.0		55.0	45.1	115				

Sample ID: LCSD-201751	Client ID:	Units: ug/L	Prep Date: 01/15/2015	Run No: 283955							
SampleType: LCSD	TestCode: GC Analysis of Gaseous Samples SOP-RSK 175	BatchID: 201751	Analysis Date: 01/16/2015	Seq No: 6019661							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethane	101.1	9	200.0		50.5	41.2	115	100.4	0.629	20	
Ethylene	69.93	7	200.0		35.0	26.5	115	69.26	0.958	20	
Methane	111.8	4	200.0		55.9	45.1	115	110.0	1.63	20	

Sample ID: 1501A32-017BMS	Client ID:	Units: ug/L	Prep Date: 01/15/2015	Run No: 283955							
SampleType: MS	TestCode: GC Analysis of Gaseous Samples SOP-RSK 175	BatchID: 201751	Analysis Date: 01/16/2015	Seq No: 6019695							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethane	113.0	9	200.0		56.5	40.5	115				
Ethylene	76.43	7	200.0		38.2	25.1	115				
Methane	146.0	4	200.0		73.0	40.4	115				

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1501A83

ANALYTICAL QC SUMMARY REPORT

BatchID: 201751

Sample ID: 1501A32-017BMSD	Client ID:	Units: ug/L	Prep Date: 01/15/2015	Run No: 283955							
SampleType: MSD	TestCode: GC Analysis of Gaseous Samples SOP-RSK 175	BatchID: 201751	Analysis Date: 01/16/2015	Seq No: 6019696							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethane	112.9	9	200.0		56.5	40.5	115	113.0	0.027	20	
Ethylene	76.74	7	200.0		38.4	25.1	115	76.43	0.406	20	
Methane	126.2	4	200.0		63.1	40.4	115	146.0	14.5	20	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1501A83

ANALYTICAL QC SUMMARY REPORT

BatchID: 201828

Sample ID: MB-201828	Client ID:	Units: ug/L	Prep Date: 01/16/2015	Run No: 283794							
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 201828	Analysis Date: 01/16/2015	Seq No: 6015637							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,2,4-Trichlorobenzene	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dibromoethane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,3-Dichlorobenzene	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
2-Butanone	BRL	50									
2-Hexanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	50									
Benzene	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Bromoform	BRL	5.0									
Bromomethane	BRL	5.0									
Carbon disulfide	BRL	5.0									
Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									
Chloroform	BRL	5.0									
Chloromethane	BRL	10									

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1501A83

ANALYTICAL QC SUMMARY REPORT

BatchID: 201828

Sample ID: MB-201828	Client ID:	Units: ug/L	Prep Date: 01/16/2015	Run No: 283794							
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 201828	Analysis Date: 01/16/2015	Seq No: 6015637							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Freon-113	BRL	10									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	5.0									
Methyl acetate	BRL	5.0									
Methyl tert-butyl ether	BRL	5.0									
Methylcyclohexane	BRL	5.0									
Methylene chloride	BRL	5.0									
o-Xylene	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	2.0									
Surr: 4-Bromofluorobenzene	48.03	0	50.00		96.1	70.6	123				
Surr: Dibromofluoromethane	50.56	0	50.00		101	78.7	124				
Surr: Toluene-d8	47.55	0	50.00		95.1	81.3	120				

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1501A83

ANALYTICAL QC SUMMARY REPORT

BatchID: 201828

Sample ID: LCS-201828	Client ID:	Units: ug/L	Prep Date: 01/16/2015	Run No: 283794							
SampleType: LCS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 201828	Analysis Date: 01/16/2015	Seq No: 6015638							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	55.59	5.0	50.00		111	64.2	137				
Benzene	51.68	5.0	50.00		103	72.8	128				
Chlorobenzene	50.48	5.0	50.00		101	72.3	126				
Toluene	53.18	5.0	50.00		106	74.9	127				
Trichloroethene	50.70	5.0	50.00		101	70.5	134				
Surr: 4-Bromofluorobenzene	48.22	0	50.00		96.4	70.6	123				
Surr: Dibromofluoromethane	48.49	0	50.00		97.0	78.7	124				
Surr: Toluene-d8	46.93	0	50.00		93.9	81.3	120				

Sample ID: 1501823-003AMS	Client ID:	Units: ug/L	Prep Date: 01/16/2015	Run No: 283794							
SampleType: MS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 201828	Analysis Date: 01/16/2015	Seq No: 6016738							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	70.82	5.0	50.00		142	60.5	156				
Benzene	61.26	5.0	50.00		123	70	135				
Chlorobenzene	55.91	5.0	50.00		112	70.5	132				
Toluene	62.75	5.0	50.00		126	70.5	137				
Trichloroethene	68.63	5.0	50.00	6.090	125	71.8	139				
Surr: 4-Bromofluorobenzene	46.36	0	50.00		92.7	70.6	123				
Surr: Dibromofluoromethane	49.90	0	50.00		99.8	78.7	124				
Surr: Toluene-d8	47.98	0	50.00		96.0	81.3	120				

Sample ID: 1501823-003AMSD	Client ID:	Units: ug/L	Prep Date: 01/16/2015	Run No: 283794							
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 201828	Analysis Date: 01/16/2015	Seq No: 6016739							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	59.70	5.0	50.00		119	60.5	156	70.82	17.0	20	
Benzene	53.41	5.0	50.00		107	70	135	61.26	13.7	20	

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1501A83

ANALYTICAL QC SUMMARY REPORT

BatchID: 201828

Sample ID: 1501823-003AMSD	Client ID:	Units: ug/L	Prep Date: 01/16/2015	Run No: 283794							
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 201828	Analysis Date: 01/16/2015	Seq No: 6016739							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chlorobenzene	48.55	5.0	50.00		97.1	70.5	132	55.91	14.1	20	
Toluene	55.13	5.0	50.00		110	70.5	137	62.75	12.9	20	
Trichloroethene	59.02	5.0	50.00	6.090	106	71.8	139	68.63	15.1	20	
Surr: 4-Bromofluorobenzene	45.28	0	50.00		90.6	70.6	123	46.36	0	0	
Surr: Dibromofluoromethane	48.12	0	50.00		96.2	78.7	124	49.90	0	0	
Surr: Toluene-d8	47.45	0	50.00		94.9	81.3	120	47.98	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1501A83

ANALYTICAL QC SUMMARY REPORT

BatchID: 202011

Sample ID: MB-202011	Client ID:	Units: mg/L	Prep Date: 01/21/2015	Run No: 284087							
SampleType: MBLK	TestCode: Sulfide by SW9030B/9034	BatchID: 202011	Analysis Date: 01/21/2015	Seq No: 6022771							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Sulfide BRL 2.00

Sample ID: LCS-202011	Client ID:	Units: mg/L	Prep Date: 01/21/2015	Run No: 284087							
SampleType: LCS	TestCode: Sulfide by SW9030B/9034	BatchID: 202011	Analysis Date: 01/21/2015	Seq No: 6022772							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Sulfide 336.0 2.00 336.0 100 40 120

Sample ID: 1501A83-001DMS	Client ID: MW-9	Units: mg/L	Prep Date: 01/21/2015	Run No: 284087							
SampleType: MS	TestCode: Sulfide by SW9030B/9034	BatchID: 202011	Analysis Date: 01/21/2015	Seq No: 6022790							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Sulfide 16.20 2.00 16.80 96.4 73.7 120

Sample ID: 1501A83-001DMSD	Client ID: MW-9	Units: mg/L	Prep Date: 01/21/2015	Run No: 284087							
SampleType: MSD	TestCode: Sulfide by SW9030B/9034	BatchID: 202011	Analysis Date: 01/21/2015	Seq No: 6022791							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Sulfide 16.60 2.00 16.80 98.8 73.7 120 16.20 2.44 20

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1501A83

ANALYTICAL QC SUMMARY REPORT

BatchID: R283805

Sample ID: MB-R283805	Client ID:	Units: mg/L	Prep Date:	Run No: 283805							
SampleType: MBLK	TestCode: Alkalinity by SM2320B	BatchID: R283805	Analysis Date: 01/16/2015	Seq No: 6015848							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Alkalinity, Total (As CaCO3)

BRL 3.00

Sample ID: LCS-R283805	Client ID:	Units: mg/L	Prep Date:	Run No: 283805							
SampleType: LCS	TestCode: Alkalinity by SM2320B	BatchID: R283805	Analysis Date: 01/16/2015	Seq No: 6015849							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Alkalinity, Total (As CaCO3)

125.0 3.00 125.0 100 75 125

Sample ID: 1501A83-001EDUP	Client ID: MW-9	Units: mg/L	Prep Date:	Run No: 283805							
SampleType: DUP	TestCode: Alkalinity by SM2320B	BatchID: R283805	Analysis Date: 01/16/2015	Seq No: 6015853							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Alkalinity, Total (As CaCO3)

30.00 3.00 29.00 3.39 30

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
	BRL Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
	J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
	Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1501A83

ANALYTICAL QC SUMMARY REPORT

BatchID: R283845

Sample ID: MB-R283845	Client ID:	Units: mg/L	Prep Date:	Run No: 283845							
SampleType: MBLK	TestCode: Total Organic Carbon (TOC) SW9060A	BatchID: R283845	Analysis Date: 01/16/2015	Seq No: 6016807							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Organic Carbon, Total

BRL 1.00

Sample ID: LCS-R283845	Client ID:	Units: mg/L	Prep Date:	Run No: 283845							
SampleType: LCS	TestCode: Total Organic Carbon (TOC) SW9060A	BatchID: R283845	Analysis Date: 01/16/2015	Seq No: 6016806							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Organic Carbon, Total

25.45 1.00 25.00 102 90 110

Sample ID: 1501A98-007CMS	Client ID:	Units: mg/L	Prep Date:	Run No: 283845							
SampleType: MS	TestCode: Total Organic Carbon (TOC) SW9060A	BatchID: R283845	Analysis Date: 01/16/2015	Seq No: 6016823							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Organic Carbon, Total

128.9 5.00 125.0 103 80 120

Sample ID: 1501A98-007CMSD	Client ID:	Units: mg/L	Prep Date:	Run No: 283845							
SampleType: MSD	TestCode: Total Organic Carbon (TOC) SW9060A	BatchID: R283845	Analysis Date: 01/16/2015	Seq No: 6016824							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Organic Carbon, Total

124.9 5.00 125.0 99.9 80 120 128.9 3.15 20

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
	BRL Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
	J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
	Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1501A83

ANALYTICAL QC SUMMARY REPORT

BatchID: R283941

Sample ID: MB-R283941	Client ID:	Units: mg/L	Prep Date:	Run No: 283941							
SampleType: MBLK	TestCode: ION SCAN SW9056A	BatchID: R283941	Analysis Date: 01/16/2015	Seq No: 6019104							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride
Nitrate
Sulfate

BRL
BRL
BRL

1.0
0.25
1.0

Sample ID: LCS-R283941	Client ID:	Units: mg/L	Prep Date:	Run No: 283941							
SampleType: LCS	TestCode: ION SCAN SW9056A	BatchID: R283941	Analysis Date: 01/16/2015	Seq No: 6019103							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride
Nitrate
Sulfate

10.38
5.115
27.33

1.0
0.25
1.0

10.00
5.000
25.00

104
102
109

90
90
90

110
110
110

Sample ID: 1501A80-001EMS	Client ID:	Units: mg/L	Prep Date:	Run No: 283941							
SampleType: MS	TestCode: ION SCAN SW9056A	BatchID: R283941	Analysis Date: 01/16/2015	Seq No: 6019106							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride
Nitrate
Sulfate

22.72
5.200
46.91

1.0
0.25
1.0

10.00
5.000
25.00

14.28
0.6976
23.14

84.4
90.1
95.1

90
90
90

110
110
110

S

Sample ID: 1501A80-001EMSD	Client ID:	Units: mg/L	Prep Date:	Run No: 283941							
SampleType: MSD	TestCode: ION SCAN SW9056A	BatchID: R283941	Analysis Date: 01/16/2015	Seq No: 6019107							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride
Nitrate
Sulfate

22.62
5.241
46.86

1.0
0.25
1.0

10.00
5.000
25.00

14.28
0.6976
23.14

83.4
90.9
94.9

90
90
90

110
110
110

22.72
5.200
46.91

0.427
0.789
0.109

20
20
20

S

Qualifiers: > Greater than Result value
 BRL Below reporting limit
 J Estimated value detected below Reporting Limit
 Rpt Lim Reporting Limit

< Less than Result value
 E Estimated (value above quantitation range)
 N Analyte not NELAC certified
 S Spike Recovery outside limits due to matrix

B Analyte detected in the associated method blank
 H Holding times for preparation or analysis exceeded
 R RPD outside limits due to matrix



January 27, 2015

Kristen Rivera
EarthCon Consultants, Inc.
1880 West Oak Parkway
Marietta GA 30062

TEL: (770) 973-2100
FAX: (770) 973-7395

RE: Apollo Smyrna

Dear Kristen Rivera:

Order No: 1501A98

Analytical Environmental Services, Inc. received 7 samples on 1/16/2015 7:30:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/14-06/30/15.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/15.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Chantelle Kanhai
Project Manager



ANALYTICAL ENVIRONMENTAL SERVICES, INC

3080 Presidential Drive, Atlanta GA 30340-3704

TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1501A98

Date: 1/15/15 Page 2 of 2

COMPANY: EARTHCON		ADDRESS: 1880 West Oak Pkwy Bldg 100, Ste 106 Marietta GA 30067			ANALYSIS REQUESTED								Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.		No # of Containers
PHONE: 770-973-2100		FAX:			TOC	Alkalinity	Sulfide	Iron	Iron	Nitrate	Nitrite	Nitrogen			
SAMPLED BY: Ray Felix, Krista Henry		SIGNATURE: <i>[Signature]</i>			PRESERVATION (See codes)								REMARKS		
#	SAMPLE ID	DATE	TIME	Grab	Composite	Matrix (See codes)	SE	I	NA	I	H	H			
1	MW-6	1-15-15	11:35	X		GW	1	1	1	1	2	2			
2															
3															
4															
5															
6															
7															
8															
9															
10															
11															
12															
13															
14															
RELINQUISHED BY		DATE/TIME	RECEIVED BY		DATE/TIME	PROJECT INFORMATION								RECEIPT	
1: <i>[Signature]</i>		1-15-15 2:30	1: <i>[Signature]</i>		1/16/15 7:30	PROJECT NAME: Apollo Springs								Total # of Containers: 8	
2:			3:			PROJECT #:								<input checked="" type="radio"/> Turnaround Time Request <input type="radio"/> Standard 5 Business Days <input type="radio"/> 2 Business Day Rush <input type="radio"/> Next Business Day Rush <input type="radio"/> Same Day Rush (auth req.) <input type="radio"/> Other _____	
3:			3:			SITE ADDRESS:									
SPECIAL INSTRUCTIONS/COMMENTS: Pls report MW-6 separate from remainder of data set.		SHIPMENT METHOD		INVOICE TO:		SEND REPORT TO: Krista Henry								STATE PROGRAM (if any): _____	
		OUT 1 1 VIA:		(IF DIFFERENT FROM ABOVE)		E-mail? Y/N; Fax? Y/N								DATA PACKAGE: I II III IV	
		IN <i>[Signature]</i> VIA:		QUOTE #: _____ PO#: _____											
		CLIENT FedEx UPS MAIL COURIER													
		GREYHOUND OTHER _____													

SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY. IF TURNAROUND TIME IS NOT INDICATED, AES WILL PROCEED WITH STANDARD TAT OF SAMPLES. SAMPLES ARE DISPOSED 30 DAYS AFTER REPORT COMPLETION UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

Client: EarthCon Consultants, Inc.

Project: Apollo Smyrna

Lab ID: 1501A98

Case Narrative

TOC Analysis by Method 9060A:

Due to sample matrix, sample 1501A98-007 required a dilution during preparation and/or analysis resulting in elevated reporting limits.

Analytical Environmental Services, Inc

Date: 27-Jan-15

Client: EarthCon Consultants, Inc.	Client Sample ID: MW-1
Project Name: Apollo Smyrna	Collection Date: 1/15/2015 11:13:00 AM
Lab ID: 1501A98-001	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) SW9060A								
Organic Carbon, Total	20.2	5.00		mg/L	R283845	5	01/16/2015 19:18	YS
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	110	5.0		ug/L	201867	1	01/21/2015 02:43	GC
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	201867	1	01/21/2015 02:43	GC
1,1,2-Trichloroethane	BRL	5.0		ug/L	201867	1	01/21/2015 02:43	GC
1,1-Dichloroethane	570	250		ug/L	201867	50	01/20/2015 04:11	GC
1,1-Dichloroethene	19	5.0		ug/L	201867	1	01/21/2015 02:43	GC
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	201867	1	01/21/2015 02:43	GC
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	201867	1	01/21/2015 02:43	GC
1,2-Dibromoethane	BRL	5.0		ug/L	201867	1	01/21/2015 02:43	GC
1,2-Dichlorobenzene	BRL	5.0		ug/L	201867	1	01/21/2015 02:43	GC
1,2-Dichloroethane	BRL	5.0		ug/L	201867	1	01/21/2015 02:43	GC
1,2-Dichloropropane	BRL	5.0		ug/L	201867	1	01/21/2015 02:43	GC
1,3-Dichlorobenzene	BRL	5.0		ug/L	201867	1	01/21/2015 02:43	GC
1,4-Dichlorobenzene	BRL	5.0		ug/L	201867	1	01/21/2015 02:43	GC
2-Butanone	BRL	50		ug/L	201867	1	01/21/2015 02:43	GC
2-Hexanone	BRL	10		ug/L	201867	1	01/21/2015 02:43	GC
4-Methyl-2-pentanone	BRL	10		ug/L	201867	1	01/21/2015 02:43	GC
Acetone	4500	2500		ug/L	201867	50	01/20/2015 04:11	GC
Benzene	BRL	5.0		ug/L	201867	1	01/21/2015 02:43	GC
Bromodichloromethane	BRL	5.0		ug/L	201867	1	01/21/2015 02:43	GC
Bromoform	BRL	5.0		ug/L	201867	1	01/21/2015 02:43	GC
Bromomethane	BRL	5.0		ug/L	201867	1	01/21/2015 02:43	GC
Carbon disulfide	BRL	5.0		ug/L	201867	1	01/21/2015 02:43	GC
Carbon tetrachloride	BRL	5.0		ug/L	201867	1	01/21/2015 02:43	GC
Chlorobenzene	BRL	5.0		ug/L	201867	1	01/21/2015 02:43	GC
Chloroethane	57	10		ug/L	201867	1	01/21/2015 02:43	GC
Chloroform	BRL	5.0		ug/L	201867	1	01/21/2015 02:43	GC
Chloromethane	BRL	10		ug/L	201867	1	01/21/2015 02:43	GC
cis-1,2-Dichloroethene	190	100		ug/L	201867	50	01/20/2015 04:11	GC
cis-1,3-Dichloropropene	BRL	5.0		ug/L	201867	1	01/21/2015 02:43	GC
Cyclohexane	11	5.0		ug/L	201867	1	01/21/2015 02:43	GC
Dibromochloromethane	BRL	5.0		ug/L	201867	1	01/21/2015 02:43	GC
Dichlorodifluoromethane	BRL	10		ug/L	201867	1	01/21/2015 02:43	GC
Ethylbenzene	BRL	5.0		ug/L	201867	1	01/21/2015 02:43	GC
Freon-113	BRL	10		ug/L	201867	1	01/21/2015 02:43	GC
Isopropylbenzene	BRL	5.0		ug/L	201867	1	01/21/2015 02:43	GC
m,p-Xylene	BRL	5.0		ug/L	201867	1	01/21/2015 02:43	GC
Methyl acetate	BRL	5.0		ug/L	201867	1	01/21/2015 02:43	GC
Methyl tert-butyl ether	BRL	5.0		ug/L	201867	1	01/21/2015 02:43	GC

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: EarthCon Consultants, Inc.	Client Sample ID: MW-1
Project Name: Apollo Smyrna	Collection Date: 1/15/2015 11:13:00 AM
Lab ID: 1501A98-001	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
Methylcyclohexane	BRL	5.0		ug/L	201867	1	01/21/2015 02:43	GC
Methylene chloride	BRL	5.0		ug/L	201867	1	01/21/2015 02:43	GC
o-Xylene	BRL	5.0		ug/L	201867	1	01/21/2015 02:43	GC
Styrene	BRL	5.0		ug/L	201867	1	01/21/2015 02:43	GC
Tetrachloroethene	21	5.0		ug/L	201867	1	01/21/2015 02:43	GC
Toluene	55	5.0		ug/L	201867	1	01/21/2015 02:43	GC
trans-1,2-Dichloroethene	BRL	5.0		ug/L	201867	1	01/21/2015 02:43	GC
trans-1,3-Dichloropropene	BRL	5.0		ug/L	201867	1	01/21/2015 02:43	GC
Trichloroethene	100	5.0		ug/L	201867	1	01/21/2015 02:43	GC
Trichlorofluoromethane	BRL	5.0		ug/L	201867	1	01/21/2015 02:43	GC
Vinyl chloride	160	100		ug/L	201867	50	01/20/2015 04:11	GC
Surr: 4-Bromofluorobenzene	93.5	70.6-123		%REC	201867	50	01/20/2015 04:11	GC
Surr: 4-Bromofluorobenzene	94.9	70.6-123		%REC	201867	1	01/21/2015 02:43	GC
Surr: Dibromofluoromethane	108	78.7-124		%REC	201867	50	01/20/2015 04:11	GC
Surr: Dibromofluoromethane	106	78.7-124		%REC	201867	1	01/21/2015 02:43	GC
Surr: Toluene-d8	101	81.3-120		%REC	201867	50	01/20/2015 04:11	GC
Surr: Toluene-d8	101	81.3-120		%REC	201867	1	01/21/2015 02:43	GC
Sulfide by SW9030B/9034 (SW9030B)								
Sulfide	BRL	2.00		mg/L	202011	1	01/21/2015 10:40	AB
ION SCAN SW9056A								
Chloride	76	2.0		mg/L	R283956	2	01/16/2015 20:32	JW
Nitrate	BRL	0.25		mg/L	R283956	1	01/16/2015 14:49	JW
Sulfate	5.2	1.0		mg/L	R283956	1	01/16/2015 14:49	JW
GC Analysis of Gaseous Samples SOP-RSK 175 (RSK175)								
Ethane	BRL	9		ug/L	201798	1	01/16/2015 15:49	JM
Ethylene	55	7		ug/L	201798	1	01/16/2015 15:49	JM
Methane	37	4		ug/L	201798	1	01/16/2015 15:49	JM
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	132	3.00		mg/L	R283805	1	01/16/2015 12:00	PF

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 27-Jan-15

Client: EarthCon Consultants, Inc.	Client Sample ID: MW-3
Project Name: Apollo Smyrna	Collection Date: 1/15/2015 1:42:00 PM
Lab ID: 1501A98-002	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) SW9060A								
Organic Carbon, Total	24.8	5.00		mg/L	R283845	5	01/16/2015 19:38	YS
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	370	250		ug/L	201867	50	01/20/2015 03:46	GC
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	201867	1	01/21/2015 02:19	GC
1,1,2-Trichloroethane	BRL	5.0		ug/L	201867	1	01/21/2015 02:19	GC
1,1-Dichloroethane	760	250		ug/L	201867	50	01/20/2015 03:46	GC
1,1-Dichloroethene	390	250		ug/L	201867	50	01/20/2015 03:46	GC
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	201867	1	01/21/2015 02:19	GC
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	201867	1	01/21/2015 02:19	GC
1,2-Dibromoethane	BRL	5.0		ug/L	201867	1	01/21/2015 02:19	GC
1,2-Dichlorobenzene	BRL	5.0		ug/L	201867	1	01/21/2015 02:19	GC
1,2-Dichloroethane	BRL	5.0		ug/L	201867	1	01/21/2015 02:19	GC
1,2-Dichloropropane	BRL	5.0		ug/L	201867	1	01/21/2015 02:19	GC
1,3-Dichlorobenzene	BRL	5.0		ug/L	201867	1	01/21/2015 02:19	GC
1,4-Dichlorobenzene	BRL	5.0		ug/L	201867	1	01/21/2015 02:19	GC
2-Butanone	BRL	50		ug/L	201867	1	01/21/2015 02:19	GC
2-Hexanone	BRL	10		ug/L	201867	1	01/21/2015 02:19	GC
4-Methyl-2-pentanone	BRL	10		ug/L	201867	1	01/21/2015 02:19	GC
Acetone	18000	2500		ug/L	201867	50	01/20/2015 03:46	GC
Benzene	BRL	5.0		ug/L	201867	1	01/21/2015 02:19	GC
Bromodichloromethane	BRL	5.0		ug/L	201867	1	01/21/2015 02:19	GC
Bromoform	BRL	5.0		ug/L	201867	1	01/21/2015 02:19	GC
Bromomethane	BRL	5.0		ug/L	201867	1	01/21/2015 02:19	GC
Carbon disulfide	BRL	5.0		ug/L	201867	1	01/21/2015 02:19	GC
Carbon tetrachloride	BRL	5.0		ug/L	201867	1	01/21/2015 02:19	GC
Chlorobenzene	BRL	5.0		ug/L	201867	1	01/21/2015 02:19	GC
Chloroethane	290	250		ug/L	201867	50	01/20/2015 03:46	GC
Chloroform	BRL	5.0		ug/L	201867	1	01/21/2015 02:19	GC
Chloromethane	BRL	10		ug/L	201867	1	01/21/2015 02:19	GC
cis-1,2-Dichloroethene	550	250		ug/L	201867	50	01/20/2015 03:46	GC
cis-1,3-Dichloropropene	BRL	5.0		ug/L	201867	1	01/21/2015 02:19	GC
Cyclohexane	5.5	5.0		ug/L	201867	1	01/21/2015 02:19	GC
Dibromochloromethane	BRL	5.0		ug/L	201867	1	01/21/2015 02:19	GC
Dichlorodifluoromethane	BRL	10		ug/L	201867	1	01/21/2015 02:19	GC
Ethylbenzene	5.7	5.0		ug/L	201867	1	01/21/2015 02:19	GC
Freon-113	BRL	10		ug/L	201867	1	01/21/2015 02:19	GC
Isopropylbenzene	BRL	5.0		ug/L	201867	1	01/21/2015 02:19	GC
m,p-Xylene	5.6	5.0		ug/L	201867	1	01/21/2015 02:19	GC
Methyl acetate	BRL	5.0		ug/L	201867	1	01/21/2015 02:19	GC
Methyl tert-butyl ether	BRL	5.0		ug/L	201867	1	01/21/2015 02:19	GC

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: EarthCon Consultants, Inc.	Client Sample ID: MW-3
Project Name: Apollo Smyrna	Collection Date: 1/15/2015 1:42:00 PM
Lab ID: 1501A98-002	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
Methylcyclohexane	BRL	5.0		ug/L	201867	1	01/21/2015 02:19	GC
Methylene chloride	18	5.0		ug/L	201867	1	01/21/2015 02:19	GC
o-Xylene	BRL	5.0		ug/L	201867	1	01/21/2015 02:19	GC
Styrene	BRL	5.0		ug/L	201867	1	01/21/2015 02:19	GC
Tetrachloroethene	BRL	5.0		ug/L	201867	1	01/21/2015 02:19	GC
Toluene	180	5.0		ug/L	201867	1	01/21/2015 02:19	GC
trans-1,2-Dichloroethene	6.7	5.0		ug/L	201867	1	01/21/2015 02:19	GC
trans-1,3-Dichloropropene	BRL	5.0		ug/L	201867	1	01/21/2015 02:19	GC
Trichloroethene	BRL	5.0		ug/L	201867	1	01/21/2015 02:19	GC
Trichlorofluoromethane	BRL	5.0		ug/L	201867	1	01/21/2015 02:19	GC
Vinyl chloride	380	100		ug/L	201867	50	01/20/2015 03:46	GC
Surr: 4-Bromofluorobenzene	93.9	70.6-123		%REC	201867	50	01/20/2015 03:46	GC
Surr: 4-Bromofluorobenzene	93.5	70.6-123		%REC	201867	1	01/21/2015 02:19	GC
Surr: Dibromofluoromethane	106	78.7-124		%REC	201867	50	01/20/2015 03:46	GC
Surr: Dibromofluoromethane	112	78.7-124		%REC	201867	1	01/21/2015 02:19	GC
Surr: Toluene-d8	99.6	81.3-120		%REC	201867	50	01/20/2015 03:46	GC
Surr: Toluene-d8	77.2	81.3-120	S	%REC	201867	1	01/21/2015 02:19	GC
Sulfide by SW9030B/9034 (SW9030B)								
Sulfide	BRL	2.00		mg/L	202011	1	01/21/2015 10:40	AB
ION SCAN SW9056A								
Chloride	37	1.0		mg/L	R283956	1	01/16/2015 15:04	JW
Nitrate	BRL	0.25		mg/L	R283956	1	01/16/2015 15:04	JW
Sulfate	1.1	1.0		mg/L	R283956	1	01/16/2015 15:04	JW
GC Analysis of Gaseous Samples SOP-RSK 175 (RSK175)								
Ethane	94	9		ug/L	201798	1	01/16/2015 15:54	JM
Ethylene	120	7		ug/L	201798	1	01/16/2015 15:54	JM
Methane	1800	40		ug/L	201798	10	01/16/2015 16:34	JM
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	26.0	3.00		mg/L	R283805	1	01/16/2015 12:00	PF

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 27-Jan-15

Client: EarthCon Consultants, Inc.	Client Sample ID: MW-4
Project Name: Apollo Smyrna	Collection Date: 1/15/2015 5:30:00 PM
Lab ID: 1501A98-003	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) SW9060A								
Organic Carbon, Total	BRL	1.00		mg/L	R283845	1	01/16/2015 23:32	YS
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	2600	500		ug/L	201867	100	01/20/2015 16:50	GC
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	201867	1	01/20/2015 01:42	GC
1,1,2-Trichloroethane	BRL	5.0		ug/L	201867	1	01/20/2015 01:42	GC
1,1-Dichloroethane	83	5.0		ug/L	201867	1	01/20/2015 01:42	GC
1,1-Dichloroethene	36000	2500		ug/L	201867	500	01/20/2015 20:35	GC
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	201867	1	01/20/2015 01:42	GC
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	201867	1	01/20/2015 01:42	GC
1,2-Dibromoethane	BRL	5.0		ug/L	201867	1	01/20/2015 01:42	GC
1,2-Dichlorobenzene	6.3	5.0		ug/L	201867	1	01/20/2015 01:42	GC
1,2-Dichloroethane	BRL	5.0		ug/L	201867	1	01/20/2015 01:42	GC
1,2-Dichloropropane	BRL	5.0		ug/L	201867	1	01/20/2015 01:42	GC
1,3-Dichlorobenzene	BRL	5.0		ug/L	201867	1	01/20/2015 01:42	GC
1,4-Dichlorobenzene	BRL	5.0		ug/L	201867	1	01/20/2015 01:42	GC
2-Butanone	BRL	50		ug/L	201867	1	01/20/2015 01:42	GC
2-Hexanone	BRL	10		ug/L	201867	1	01/20/2015 01:42	GC
4-Methyl-2-pentanone	BRL	10		ug/L	201867	1	01/20/2015 01:42	GC
Acetone	BRL	50		ug/L	201867	1	01/20/2015 01:42	GC
Benzene	BRL	5.0		ug/L	201867	1	01/20/2015 01:42	GC
Bromodichloromethane	BRL	5.0		ug/L	201867	1	01/20/2015 01:42	GC
Bromoform	BRL	5.0		ug/L	201867	1	01/20/2015 01:42	GC
Bromomethane	BRL	5.0		ug/L	201867	1	01/20/2015 01:42	GC
Carbon disulfide	BRL	5.0		ug/L	201867	1	01/20/2015 01:42	GC
Carbon tetrachloride	BRL	5.0		ug/L	201867	1	01/20/2015 01:42	GC
Chlorobenzene	BRL	5.0		ug/L	201867	1	01/20/2015 01:42	GC
Chloroethane	BRL	10		ug/L	201867	1	01/20/2015 01:42	GC
Chloroform	BRL	5.0		ug/L	201867	1	01/20/2015 01:42	GC
Chloromethane	BRL	10		ug/L	201867	1	01/20/2015 01:42	GC
cis-1,2-Dichloroethene	37	5.0		ug/L	201867	1	01/20/2015 01:42	GC
cis-1,3-Dichloropropene	BRL	5.0		ug/L	201867	1	01/20/2015 01:42	GC
Cyclohexane	16	5.0		ug/L	201867	1	01/20/2015 01:42	GC
Dibromochloromethane	BRL	5.0		ug/L	201867	1	01/20/2015 01:42	GC
Dichlorodifluoromethane	BRL	10		ug/L	201867	1	01/20/2015 01:42	GC
Ethylbenzene	BRL	5.0		ug/L	201867	1	01/20/2015 01:42	GC
Freon-113	BRL	10		ug/L	201867	1	01/20/2015 01:42	GC
Isopropylbenzene	BRL	5.0		ug/L	201867	1	01/20/2015 01:42	GC
m,p-Xylene	BRL	5.0		ug/L	201867	1	01/20/2015 01:42	GC
Methyl acetate	BRL	5.0		ug/L	201867	1	01/20/2015 01:42	GC
Methyl tert-butyl ether	BRL	5.0		ug/L	201867	1	01/20/2015 01:42	GC

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: EarthCon Consultants, Inc.	Client Sample ID: MW-4
Project Name: Apollo Smyrna	Collection Date: 1/15/2015 5:30:00 PM
Lab ID: 1501A98-003	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
Methylcyclohexane	8.0	5.0		ug/L	201867	1	01/20/2015 01:42	GC
Methylene chloride	BRL	5.0		ug/L	201867	1	01/20/2015 01:42	GC
o-Xylene	BRL	5.0		ug/L	201867	1	01/20/2015 01:42	GC
Styrene	BRL	5.0		ug/L	201867	1	01/20/2015 01:42	GC
Tetrachloroethene	2600	500		ug/L	201867	100	01/20/2015 16:50	GC
Toluene	BRL	5.0		ug/L	201867	1	01/20/2015 01:42	GC
trans-1,2-Dichloroethene	BRL	5.0		ug/L	201867	1	01/20/2015 01:42	GC
trans-1,3-Dichloropropene	BRL	5.0		ug/L	201867	1	01/20/2015 01:42	GC
Trichloroethene	120	5.0		ug/L	201867	1	01/20/2015 01:42	GC
Trichlorofluoromethane	BRL	5.0		ug/L	201867	1	01/20/2015 01:42	GC
Vinyl chloride	BRL	2.0		ug/L	201867	1	01/20/2015 01:42	GC
Surr: 4-Bromofluorobenzene	94.2	70.6-123		%REC	201867	500	01/20/2015 20:35	GC
Surr: 4-Bromofluorobenzene	90.2	70.6-123		%REC	201867	1	01/20/2015 01:42	GC
Surr: 4-Bromofluorobenzene	92.7	70.6-123		%REC	201867	100	01/20/2015 16:50	GC
Surr: Dibromofluoromethane	109	78.7-124		%REC	201867	500	01/20/2015 20:35	GC
Surr: Dibromofluoromethane	104	78.7-124		%REC	201867	1	01/20/2015 01:42	GC
Surr: Dibromofluoromethane	106	78.7-124		%REC	201867	100	01/20/2015 16:50	GC
Surr: Toluene-d8	101	81.3-120		%REC	201867	500	01/20/2015 20:35	GC
Surr: Toluene-d8	99.3	81.3-120		%REC	201867	1	01/20/2015 01:42	GC
Surr: Toluene-d8	99.9	81.3-120		%REC	201867	100	01/20/2015 16:50	GC
Sulfide by SW9030B/9034 (SW9030B)								
Sulfide	BRL	2.00		mg/L	202011	1	01/21/2015 10:40	AB
ION SCAN SW9056A								
Chloride	56	2.0		mg/L	R283956	2	01/16/2015 20:46	JW
Nitrate	BRL	0.25		mg/L	R283956	1	01/16/2015 15:19	JW
Sulfate	BRL	1.0		mg/L	R283956	1	01/16/2015 15:19	JW
GC Analysis of Gaseous Samples SOP-RSK 175 (RSK175)								
Ethane	BRL	9		ug/L	201798	1	01/16/2015 15:59	JM
Ethylene	BRL	7		ug/L	201798	1	01/16/2015 15:59	JM
Methane	5	4		ug/L	201798	1	01/16/2015 15:59	JM
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	59.0	3.00		mg/L	R283805	1	01/16/2015 12:00	PF

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 27-Jan-15

Client: EarthCon Consultants, Inc.	Client Sample ID: MW-8
Project Name: Apollo Smyrna	Collection Date: 1/15/2015 4:30:00 PM
Lab ID: 1501A98-004	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) SW9060A								
Organic Carbon, Total	BRL	1.00		mg/L	R283845	1	01/16/2015 23:52	YS
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	6.7	5.0		ug/L	201867	1	01/20/2015 01:18	GC
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	201867	1	01/20/2015 01:18	GC
1,1,2-Trichloroethane	BRL	5.0		ug/L	201867	1	01/20/2015 01:18	GC
1,1-Dichloroethane	BRL	5.0		ug/L	201867	1	01/20/2015 01:18	GC
1,1-Dichloroethene	30	5.0		ug/L	201867	1	01/20/2015 01:18	GC
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	201867	1	01/20/2015 01:18	GC
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	201867	1	01/20/2015 01:18	GC
1,2-Dibromoethane	BRL	5.0		ug/L	201867	1	01/20/2015 01:18	GC
1,2-Dichlorobenzene	BRL	5.0		ug/L	201867	1	01/20/2015 01:18	GC
1,2-Dichloroethane	BRL	5.0		ug/L	201867	1	01/20/2015 01:18	GC
1,2-Dichloropropane	BRL	5.0		ug/L	201867	1	01/20/2015 01:18	GC
1,3-Dichlorobenzene	BRL	5.0		ug/L	201867	1	01/20/2015 01:18	GC
1,4-Dichlorobenzene	BRL	5.0		ug/L	201867	1	01/20/2015 01:18	GC
2-Butanone	BRL	50		ug/L	201867	1	01/20/2015 01:18	GC
2-Hexanone	BRL	10		ug/L	201867	1	01/20/2015 01:18	GC
4-Methyl-2-pentanone	BRL	10		ug/L	201867	1	01/20/2015 01:18	GC
Acetone	BRL	50		ug/L	201867	1	01/20/2015 01:18	GC
Benzene	BRL	5.0		ug/L	201867	1	01/20/2015 01:18	GC
Bromodichloromethane	BRL	5.0		ug/L	201867	1	01/20/2015 01:18	GC
Bromoform	BRL	5.0		ug/L	201867	1	01/20/2015 01:18	GC
Bromomethane	BRL	5.0		ug/L	201867	1	01/20/2015 01:18	GC
Carbon disulfide	BRL	5.0		ug/L	201867	1	01/20/2015 01:18	GC
Carbon tetrachloride	BRL	5.0		ug/L	201867	1	01/20/2015 01:18	GC
Chlorobenzene	BRL	5.0		ug/L	201867	1	01/20/2015 01:18	GC
Chloroethane	BRL	10		ug/L	201867	1	01/20/2015 01:18	GC
Chloroform	5.9	5.0		ug/L	201867	1	01/20/2015 01:18	GC
Chloromethane	BRL	10		ug/L	201867	1	01/20/2015 01:18	GC
cis-1,2-Dichloroethene	37	5.0		ug/L	201867	1	01/20/2015 01:18	GC
cis-1,3-Dichloropropene	BRL	5.0		ug/L	201867	1	01/20/2015 01:18	GC
Cyclohexane	BRL	5.0		ug/L	201867	1	01/20/2015 01:18	GC
Dibromochloromethane	BRL	5.0		ug/L	201867	1	01/20/2015 01:18	GC
Dichlorodifluoromethane	BRL	10		ug/L	201867	1	01/20/2015 01:18	GC
Ethylbenzene	BRL	5.0		ug/L	201867	1	01/20/2015 01:18	GC
Freon-113	BRL	10		ug/L	201867	1	01/20/2015 01:18	GC
Isopropylbenzene	BRL	5.0		ug/L	201867	1	01/20/2015 01:18	GC
m,p-Xylene	BRL	5.0		ug/L	201867	1	01/20/2015 01:18	GC
Methyl acetate	BRL	5.0		ug/L	201867	1	01/20/2015 01:18	GC
Methyl tert-butyl ether	BRL	5.0		ug/L	201867	1	01/20/2015 01:18	GC

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: EarthCon Consultants, Inc.	Client Sample ID: MW-8
Project Name: Apollo Smyrna	Collection Date: 1/15/2015 4:30:00 PM
Lab ID: 1501A98-004	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B			(SW5030B)					
Methylcyclohexane	BRL	5.0		ug/L	201867	1	01/20/2015 01:18	GC
Methylene chloride	BRL	5.0		ug/L	201867	1	01/20/2015 01:18	GC
o-Xylene	BRL	5.0		ug/L	201867	1	01/20/2015 01:18	GC
Styrene	BRL	5.0		ug/L	201867	1	01/20/2015 01:18	GC
Tetrachloroethene	520	50		ug/L	201867	10	01/20/2015 19:22	GC
Toluene	BRL	5.0		ug/L	201867	1	01/20/2015 01:18	GC
trans-1,2-Dichloroethene	BRL	5.0		ug/L	201867	1	01/20/2015 01:18	GC
trans-1,3-Dichloropropene	BRL	5.0		ug/L	201867	1	01/20/2015 01:18	GC
Trichloroethene	960	50		ug/L	201867	10	01/20/2015 19:22	GC
Trichlorofluoromethane	BRL	5.0		ug/L	201867	1	01/20/2015 01:18	GC
Vinyl chloride	BRL	2.0		ug/L	201867	1	01/20/2015 01:18	GC
Surr: 4-Bromofluorobenzene	90.8	70.6-123		%REC	201867	1	01/20/2015 01:18	GC
Surr: 4-Bromofluorobenzene	90.9	70.6-123		%REC	201867	10	01/20/2015 19:22	GC
Surr: Dibromofluoromethane	104	78.7-124		%REC	201867	1	01/20/2015 01:18	GC
Surr: Dibromofluoromethane	105	78.7-124		%REC	201867	10	01/20/2015 19:22	GC
Surr: Toluene-d8	99.1	81.3-120		%REC	201867	1	01/20/2015 01:18	GC
Surr: Toluene-d8	98.5	81.3-120		%REC	201867	10	01/20/2015 19:22	GC
Sulfide by SW9030B/9034			(SW9030B)					
Sulfide	BRL	2.00		mg/L	202011	1	01/21/2015 10:40	AB
ION SCAN SW9056A								
Chloride	4.3	1.0		mg/L	R283956	1	01/16/2015 15:34	JW
Nitrate	BRL	0.25		mg/L	R283956	1	01/16/2015 15:34	JW
Sulfate	BRL	1.0		mg/L	R283956	1	01/16/2015 15:34	JW
GC Analysis of Gaseous Samples SOP-RSK 175			(RSK175)					
Ethane	BRL	9		ug/L	201798	1	01/16/2015 16:05	JM
Ethylene	BRL	7		ug/L	201798	1	01/16/2015 16:05	JM
Methane	210	4		ug/L	201798	1	01/16/2015 16:05	JM
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	27.0	3.00		mg/L	R283805	1	01/16/2015 12:00	PF

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: EarthCon Consultants, Inc.	Client Sample ID: DUP 1
Project Name: Apollo Smyrna	Collection Date: 1/15/2015 12:00:00 PM
Lab ID: 1501A98-005	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	2100	500		ug/L	201867	100	01/20/2015 19:46	GC
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	201867	1	01/20/2015 02:07	GC
1,1,2-Trichloroethane	BRL	5.0		ug/L	201867	1	01/20/2015 02:07	GC
1,1-Dichloroethane	82	5.0		ug/L	201867	1	01/20/2015 02:07	GC
1,1-Dichloroethene	17000	500		ug/L	201867	100	01/20/2015 19:46	GC
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	201867	1	01/20/2015 02:07	GC
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	201867	1	01/20/2015 02:07	GC
1,2-Dibromoethane	BRL	5.0		ug/L	201867	1	01/20/2015 02:07	GC
1,2-Dichlorobenzene	6.0	5.0		ug/L	201867	1	01/20/2015 02:07	GC
1,2-Dichloroethane	BRL	5.0		ug/L	201867	1	01/20/2015 02:07	GC
1,2-Dichloropropane	BRL	5.0		ug/L	201867	1	01/20/2015 02:07	GC
1,3-Dichlorobenzene	BRL	5.0		ug/L	201867	1	01/20/2015 02:07	GC
1,4-Dichlorobenzene	BRL	5.0		ug/L	201867	1	01/20/2015 02:07	GC
2-Butanone	BRL	50		ug/L	201867	1	01/20/2015 02:07	GC
2-Hexanone	BRL	10		ug/L	201867	1	01/20/2015 02:07	GC
4-Methyl-2-pentanone	BRL	10		ug/L	201867	1	01/20/2015 02:07	GC
Acetone	BRL	50		ug/L	201867	1	01/20/2015 02:07	GC
Benzene	BRL	5.0		ug/L	201867	1	01/20/2015 02:07	GC
Bromodichloromethane	BRL	5.0		ug/L	201867	1	01/20/2015 02:07	GC
Bromoform	BRL	5.0		ug/L	201867	1	01/20/2015 02:07	GC
Bromomethane	BRL	5.0		ug/L	201867	1	01/20/2015 02:07	GC
Carbon disulfide	BRL	5.0		ug/L	201867	1	01/20/2015 02:07	GC
Carbon tetrachloride	BRL	5.0		ug/L	201867	1	01/20/2015 02:07	GC
Chlorobenzene	BRL	5.0		ug/L	201867	1	01/20/2015 02:07	GC
Chloroethane	BRL	10		ug/L	201867	1	01/20/2015 02:07	GC
Chloroform	BRL	5.0		ug/L	201867	1	01/20/2015 02:07	GC
Chloromethane	BRL	10		ug/L	201867	1	01/20/2015 02:07	GC
cis-1,2-Dichloroethene	37	5.0		ug/L	201867	1	01/20/2015 02:07	GC
cis-1,3-Dichloropropene	BRL	5.0		ug/L	201867	1	01/20/2015 02:07	GC
Cyclohexane	16	5.0		ug/L	201867	1	01/20/2015 02:07	GC
Dibromochloromethane	BRL	5.0		ug/L	201867	1	01/20/2015 02:07	GC
Dichlorodifluoromethane	BRL	10		ug/L	201867	1	01/20/2015 02:07	GC
Ethylbenzene	BRL	5.0		ug/L	201867	1	01/20/2015 02:07	GC
Freon-113	BRL	10		ug/L	201867	1	01/20/2015 02:07	GC
Isopropylbenzene	BRL	5.0		ug/L	201867	1	01/20/2015 02:07	GC
m,p-Xylene	BRL	5.0		ug/L	201867	1	01/20/2015 02:07	GC
Methyl acetate	BRL	5.0		ug/L	201867	1	01/20/2015 02:07	GC
Methyl tert-butyl ether	BRL	5.0		ug/L	201867	1	01/20/2015 02:07	GC
Methylcyclohexane	6.8	5.0		ug/L	201867	1	01/20/2015 02:07	GC
Methylene chloride	BRL	5.0		ug/L	201867	1	01/20/2015 02:07	GC
o-Xylene	BRL	5.0		ug/L	201867	1	01/20/2015 02:07	GC

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: EarthCon Consultants, Inc.	Client Sample ID: DUP 1
Project Name: Apollo Smyrna	Collection Date: 1/15/2015 12:00:00 PM
Lab ID: 1501A98-005	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	201867	1	01/20/2015 02:07	GC
Tetrachloroethene	2200	500		ug/L	201867	100	01/20/2015 19:46	GC
Toluene	BRL	5.0		ug/L	201867	1	01/20/2015 02:07	GC
trans-1,2-Dichloroethene	BRL	5.0		ug/L	201867	1	01/20/2015 02:07	GC
trans-1,3-Dichloropropene	BRL	5.0		ug/L	201867	1	01/20/2015 02:07	GC
Trichloroethene	120	5.0		ug/L	201867	1	01/20/2015 02:07	GC
Trichlorofluoromethane	BRL	5.0		ug/L	201867	1	01/20/2015 02:07	GC
Vinyl chloride	BRL	2.0		ug/L	201867	1	01/20/2015 02:07	GC
Surr: 4-Bromofluorobenzene	93.5	70.6-123		%REC	201867	1	01/20/2015 02:07	GC
Surr: 4-Bromofluorobenzene	93.6	70.6-123		%REC	201867	100	01/20/2015 19:46	GC
Surr: Dibromofluoromethane	103	78.7-124		%REC	201867	1	01/20/2015 02:07	GC
Surr: Dibromofluoromethane	106	78.7-124		%REC	201867	100	01/20/2015 19:46	GC
Surr: Toluene-d8	99.7	81.3-120		%REC	201867	1	01/20/2015 02:07	GC
Surr: Toluene-d8	99.6	81.3-120		%REC	201867	100	01/20/2015 19:46	GC

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: EarthCon Consultants, Inc.	Client Sample ID: TRIP BLANK
Project Name: Apollo Smyrna	Collection Date: 1/15/2015
Lab ID: 1501A98-006	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	201867	1	01/19/2015 19:58	GC
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	201867	1	01/19/2015 19:58	GC
1,1,2-Trichloroethane	BRL	5.0		ug/L	201867	1	01/19/2015 19:58	GC
1,1-Dichloroethane	BRL	5.0		ug/L	201867	1	01/19/2015 19:58	GC
1,1-Dichloroethene	BRL	5.0		ug/L	201867	1	01/19/2015 19:58	GC
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	201867	1	01/19/2015 19:58	GC
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	201867	1	01/19/2015 19:58	GC
1,2-Dibromoethane	BRL	5.0		ug/L	201867	1	01/19/2015 19:58	GC
1,2-Dichlorobenzene	BRL	5.0		ug/L	201867	1	01/19/2015 19:58	GC
1,2-Dichloroethane	BRL	5.0		ug/L	201867	1	01/19/2015 19:58	GC
1,2-Dichloropropane	BRL	5.0		ug/L	201867	1	01/19/2015 19:58	GC
1,3-Dichlorobenzene	BRL	5.0		ug/L	201867	1	01/19/2015 19:58	GC
1,4-Dichlorobenzene	BRL	5.0		ug/L	201867	1	01/19/2015 19:58	GC
2-Butanone	BRL	50		ug/L	201867	1	01/19/2015 19:58	GC
2-Hexanone	BRL	10		ug/L	201867	1	01/19/2015 19:58	GC
4-Methyl-2-pentanone	BRL	10		ug/L	201867	1	01/19/2015 19:58	GC
Acetone	BRL	50		ug/L	201867	1	01/19/2015 19:58	GC
Benzene	BRL	5.0		ug/L	201867	1	01/19/2015 19:58	GC
Bromodichloromethane	BRL	5.0		ug/L	201867	1	01/19/2015 19:58	GC
Bromoform	BRL	5.0		ug/L	201867	1	01/19/2015 19:58	GC
Bromomethane	BRL	5.0		ug/L	201867	1	01/19/2015 19:58	GC
Carbon disulfide	BRL	5.0		ug/L	201867	1	01/19/2015 19:58	GC
Carbon tetrachloride	BRL	5.0		ug/L	201867	1	01/19/2015 19:58	GC
Chlorobenzene	BRL	5.0		ug/L	201867	1	01/19/2015 19:58	GC
Chloroethane	BRL	10		ug/L	201867	1	01/19/2015 19:58	GC
Chloroform	BRL	5.0		ug/L	201867	1	01/19/2015 19:58	GC
Chloromethane	BRL	10		ug/L	201867	1	01/19/2015 19:58	GC
cis-1,2-Dichloroethene	BRL	5.0		ug/L	201867	1	01/19/2015 19:58	GC
cis-1,3-Dichloropropene	BRL	5.0		ug/L	201867	1	01/19/2015 19:58	GC
Cyclohexane	BRL	5.0		ug/L	201867	1	01/19/2015 19:58	GC
Dibromochloromethane	BRL	5.0		ug/L	201867	1	01/19/2015 19:58	GC
Dichlorodifluoromethane	BRL	10		ug/L	201867	1	01/19/2015 19:58	GC
Ethylbenzene	BRL	5.0		ug/L	201867	1	01/19/2015 19:58	GC
Freon-113	BRL	10		ug/L	201867	1	01/19/2015 19:58	GC
Isopropylbenzene	BRL	5.0		ug/L	201867	1	01/19/2015 19:58	GC
m,p-Xylene	BRL	5.0		ug/L	201867	1	01/19/2015 19:58	GC
Methyl acetate	BRL	5.0		ug/L	201867	1	01/19/2015 19:58	GC
Methyl tert-butyl ether	BRL	5.0		ug/L	201867	1	01/19/2015 19:58	GC
Methylcyclohexane	BRL	5.0		ug/L	201867	1	01/19/2015 19:58	GC
Methylene chloride	BRL	5.0		ug/L	201867	1	01/19/2015 19:58	GC
o-Xylene	BRL	5.0		ug/L	201867	1	01/19/2015 19:58	GC

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: EarthCon Consultants, Inc.	Client Sample ID: TRIP BLANK
Project Name: Apollo Smyrna	Collection Date: 1/15/2015
Lab ID: 1501A98-006	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					(SW5030B)			
Styrene	BRL	5.0		ug/L	201867	1	01/19/2015 19:58	GC
Tetrachloroethene	BRL	5.0		ug/L	201867	1	01/19/2015 19:58	GC
Toluene	BRL	5.0		ug/L	201867	1	01/19/2015 19:58	GC
trans-1,2-Dichloroethene	BRL	5.0		ug/L	201867	1	01/19/2015 19:58	GC
trans-1,3-Dichloropropene	BRL	5.0		ug/L	201867	1	01/19/2015 19:58	GC
Trichloroethene	BRL	5.0		ug/L	201867	1	01/19/2015 19:58	GC
Trichlorofluoromethane	BRL	5.0		ug/L	201867	1	01/19/2015 19:58	GC
Vinyl chloride	BRL	2.0		ug/L	201867	1	01/19/2015 19:58	GC
Surr: 4-Bromofluorobenzene	94	70.6-123		%REC	201867	1	01/19/2015 19:58	GC
Surr: Dibromofluoromethane	104	78.7-124		%REC	201867	1	01/19/2015 19:58	GC
Surr: Toluene-d8	99.4	81.3-120		%REC	201867	1	01/19/2015 19:58	GC

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 27-Jan-15

Client: EarthCon Consultants, Inc.	Client Sample ID: MW-6
Project Name: Apollo Smyrna	Collection Date: 1/15/2015 11:35:00 AM
Lab ID: 1501A98-007	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) SW9060A								
Organic Carbon, Total	BRL	5.00		mg/L	R283845	5	01/16/2015 20:37	YS
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	201867	1	01/21/2015 14:48	GC
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	201867	1	01/21/2015 14:48	GC
1,1,2-Trichloroethane	BRL	5.0		ug/L	201867	1	01/21/2015 14:48	GC
1,1-Dichloroethane	14	5.0		ug/L	201867	1	01/21/2015 14:48	GC
1,1-Dichloroethene	170	5.0		ug/L	201867	1	01/21/2015 14:48	GC
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	201867	1	01/21/2015 14:48	GC
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	201867	1	01/21/2015 14:48	GC
1,2-Dibromoethane	BRL	5.0		ug/L	201867	1	01/21/2015 14:48	GC
1,2-Dichlorobenzene	BRL	5.0		ug/L	201867	1	01/21/2015 14:48	GC
1,2-Dichloroethane	BRL	5.0		ug/L	201867	1	01/21/2015 14:48	GC
1,2-Dichloropropane	BRL	5.0		ug/L	201867	1	01/21/2015 14:48	GC
1,3-Dichlorobenzene	BRL	5.0		ug/L	201867	1	01/21/2015 14:48	GC
1,4-Dichlorobenzene	BRL	5.0		ug/L	201867	1	01/21/2015 14:48	GC
2-Butanone	BRL	50		ug/L	201867	1	01/21/2015 14:48	GC
2-Hexanone	BRL	10		ug/L	201867	1	01/21/2015 14:48	GC
4-Methyl-2-pentanone	BRL	10		ug/L	201867	1	01/21/2015 14:48	GC
Acetone	BRL	50		ug/L	201867	1	01/21/2015 14:48	GC
Benzene	BRL	5.0		ug/L	201867	1	01/21/2015 14:48	GC
Bromodichloromethane	BRL	5.0		ug/L	201867	1	01/21/2015 14:48	GC
Bromoform	BRL	5.0		ug/L	201867	1	01/21/2015 14:48	GC
Bromomethane	BRL	5.0		ug/L	201867	1	01/21/2015 14:48	GC
Carbon disulfide	BRL	5.0		ug/L	201867	1	01/21/2015 14:48	GC
Carbon tetrachloride	BRL	5.0		ug/L	201867	1	01/21/2015 14:48	GC
Chlorobenzene	BRL	5.0		ug/L	201867	1	01/21/2015 14:48	GC
Chloroethane	BRL	10		ug/L	201867	1	01/21/2015 14:48	GC
Chloroform	BRL	5.0		ug/L	201867	1	01/21/2015 14:48	GC
Chloromethane	BRL	10		ug/L	201867	1	01/21/2015 14:48	GC
cis-1,2-Dichloroethene	6.4	5.0		ug/L	201867	1	01/21/2015 14:48	GC
cis-1,3-Dichloropropene	BRL	5.0		ug/L	201867	1	01/21/2015 14:48	GC
Cyclohexane	BRL	5.0		ug/L	201867	1	01/21/2015 14:48	GC
Dibromochloromethane	BRL	5.0		ug/L	201867	1	01/21/2015 14:48	GC
Dichlorodifluoromethane	BRL	10		ug/L	201867	1	01/21/2015 14:48	GC
Ethylbenzene	BRL	5.0		ug/L	201867	1	01/21/2015 14:48	GC
Freon-113	BRL	10		ug/L	201867	1	01/21/2015 14:48	GC
Isopropylbenzene	BRL	5.0		ug/L	201867	1	01/21/2015 14:48	GC
m,p-Xylene	BRL	5.0		ug/L	201867	1	01/21/2015 14:48	GC
Methyl acetate	BRL	5.0		ug/L	201867	1	01/21/2015 14:48	GC
Methyl tert-butyl ether	BRL	5.0		ug/L	201867	1	01/21/2015 14:48	GC

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
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- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: EarthCon Consultants, Inc.	Client Sample ID: MW-6
Project Name: Apollo Smyrna	Collection Date: 1/15/2015 11:35:00 AM
Lab ID: 1501A98-007	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
Methylcyclohexane	BRL	5.0		ug/L	201867	1	01/21/2015 14:48	GC
Methylene chloride	BRL	5.0		ug/L	201867	1	01/21/2015 14:48	GC
o-Xylene	BRL	5.0		ug/L	201867	1	01/21/2015 14:48	GC
Styrene	BRL	5.0		ug/L	201867	1	01/21/2015 14:48	GC
Tetrachloroethene	10	5.0		ug/L	201867	1	01/21/2015 14:48	GC
Toluene	BRL	5.0		ug/L	201867	1	01/21/2015 14:48	GC
trans-1,2-Dichloroethene	BRL	5.0		ug/L	201867	1	01/21/2015 14:48	GC
trans-1,3-Dichloropropene	BRL	5.0		ug/L	201867	1	01/21/2015 14:48	GC
Trichloroethene	5.2	5.0		ug/L	201867	1	01/21/2015 14:48	GC
Trichlorofluoromethane	BRL	5.0		ug/L	201867	1	01/21/2015 14:48	GC
Vinyl chloride	32	2.0		ug/L	201867	1	01/21/2015 14:48	GC
Surr: 4-Bromofluorobenzene	91.1	70.6-123		%REC	201867	1	01/21/2015 14:48	GC
Surr: Dibromofluoromethane	106	78.7-124		%REC	201867	1	01/21/2015 14:48	GC
Surr: Toluene-d8	98.8	81.3-120		%REC	201867	1	01/21/2015 14:48	GC
Sulfide by SW9030B/9034 (SW9030B)								
Sulfide	BRL	2.00		mg/L	202011	1	01/21/2015 10:40	AB
ION SCAN SW9056A								
Chloride	6.3	1.0		mg/L	R283956	1	01/16/2015 15:48	JW
Nitrate	BRL	0.25		mg/L	R283956	1	01/16/2015 15:48	JW
Sulfate	BRL	1.0		mg/L	R283956	1	01/16/2015 15:48	JW
GC Analysis of Gaseous Samples SOP-RSK 175 (RSK175)								
Ethane	13	9		ug/L	201798	1	01/16/2015 16:10	JM
Ethylene	BRL	7		ug/L	201798	1	01/16/2015 16:10	JM
Methane	1700	40		ug/L	201798	10	01/16/2015 16:39	JM
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	63.0	3.00		mg/L	R283805	1	01/16/2015 12:00	PF

Qualifiers:

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- BRL Below reporting limit
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- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Fartheon

Work Order Number 1501498

Checklist completed by Jam B Signature Date 11/6/15

Carrier name: FedEx ___ UPS ___ Courier ___ Client US Mail ___ Other ___

Shipping container/cooler in good condition? Yes No ___ Not Present ___

Custody seals intact on shipping container/cooler? Yes ___ No ___ Not Present

Custody seals intact on sample bottles? Yes ___ No ___ Not Present

Container/Temp Blank temperature in compliance? (0°≤6°C)* Yes No ___

Cooler #1 3.1' Cooler #2 ___ Cooler #3 ___ Cooler #4 ___ Cooler#5 ___ Cooler #6 ___

Chain of custody present? Yes No ___

Chain of custody signed when relinquished and received? Yes No ___

Chain of custody agrees with sample labels? Yes No ___

Samples in proper container/bottle? Yes No ___

Sample containers intact? Yes No ___

Sufficient sample volume for indicated test? Yes No ___

All samples received within holding time? Yes No ___

Was TAT marked on the COC? Yes No ___

Proceed with Standard TAT as per project history? Yes ___ No ___ Not Applicable

Water - VOA vials have zero headspace? No VOA vials submitted ___ Yes No ___

Water - pH acceptable upon receipt? Yes No ___ Not Applicable ___

Adjusted? ___ Checked by JB

Sample Condition: Good Other(Explain) ___

(For diffusive samples or AIHA lead) Is a known blank included? Yes ___ No

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Lab Order: 1501A98

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1501A98-001A	MW-1	1/15/2015 11:13:00AM	Aqueous	TCL VOLATILE ORGANICS		1/19/2015 11:05:05AM	01/20/2015
1501A98-001A	MW-1	1/15/2015 11:13:00AM	Aqueous	TCL VOLATILE ORGANICS		1/19/2015 11:05:05AM	01/21/2015
1501A98-001B	MW-1	1/15/2015 11:13:00AM	Aqueous	GC Analysis of Gaseous Samples		1/16/2015 10:48:55AM	01/16/2015
1501A98-001C	MW-1	1/15/2015 11:13:00AM	Aqueous	Total Organic Carbon (TOC)			01/16/2015
1501A98-001D	MW-1	1/15/2015 11:13:00AM	Aqueous	Alkalinity by SM2320B			01/16/2015
1501A98-001E	MW-1	1/15/2015 11:13:00AM	Aqueous	ION SCAN			01/16/2015
1501A98-001F	MW-1	1/15/2015 11:13:00AM	Aqueous	Sulfide by SW9030/9034		1/21/2015 10:40:00AM	01/21/2015
1501A98-002A	MW-3	1/15/2015 1:42:00PM	Aqueous	TCL VOLATILE ORGANICS		1/19/2015 11:05:05AM	01/20/2015
1501A98-002A	MW-3	1/15/2015 1:42:00PM	Aqueous	TCL VOLATILE ORGANICS		1/19/2015 11:05:05AM	01/21/2015
1501A98-002B	MW-3	1/15/2015 1:42:00PM	Aqueous	GC Analysis of Gaseous Samples		1/16/2015 10:48:55AM	01/16/2015
1501A98-002C	MW-3	1/15/2015 1:42:00PM	Aqueous	Total Organic Carbon (TOC)			01/16/2015
1501A98-002D	MW-3	1/15/2015 1:42:00PM	Aqueous	Alkalinity by SM2320B			01/16/2015
1501A98-002E	MW-3	1/15/2015 1:42:00PM	Aqueous	ION SCAN			01/16/2015
1501A98-002F	MW-3	1/15/2015 1:42:00PM	Aqueous	Sulfide by SW9030/9034		1/21/2015 10:40:00AM	01/21/2015
1501A98-003A	MW-4	1/15/2015 5:30:00PM	Aqueous	TCL VOLATILE ORGANICS		1/19/2015 11:05:05AM	01/20/2015
1501A98-003B	MW-4	1/15/2015 5:30:00PM	Aqueous	GC Analysis of Gaseous Samples		1/16/2015 10:48:55AM	01/16/2015
1501A98-003C	MW-4	1/15/2015 5:30:00PM	Aqueous	Total Organic Carbon (TOC)			01/16/2015
1501A98-003D	MW-4	1/15/2015 5:30:00PM	Aqueous	Alkalinity by SM2320B			01/16/2015
1501A98-003E	MW-4	1/15/2015 5:30:00PM	Aqueous	ION SCAN			01/16/2015
1501A98-003F	MW-4	1/15/2015 5:30:00PM	Aqueous	Sulfide by SW9030/9034		1/21/2015 10:40:00AM	01/21/2015
1501A98-004A	MW-8	1/15/2015 4:30:00PM	Aqueous	TCL VOLATILE ORGANICS		1/19/2015 11:05:05AM	01/20/2015
1501A98-004B	MW-8	1/15/2015 4:30:00PM	Aqueous	GC Analysis of Gaseous Samples		1/16/2015 10:48:55AM	01/16/2015
1501A98-004C	MW-8	1/15/2015 4:30:00PM	Aqueous	Total Organic Carbon (TOC)			01/16/2015
1501A98-004D	MW-8	1/15/2015 4:30:00PM	Aqueous	Alkalinity by SM2320B			01/16/2015
1501A98-004E	MW-8	1/15/2015 4:30:00PM	Aqueous	ION SCAN			01/16/2015
1501A98-004F	MW-8	1/15/2015 4:30:00PM	Aqueous	Sulfide by SW9030/9034		1/21/2015 10:40:00AM	01/21/2015
1501A98-005A	DUP 1	1/15/2015 12:00:00PM	Aqueous	TCL VOLATILE ORGANICS		1/19/2015 11:05:05AM	01/20/2015
1501A98-006A	TRIP BLANK	1/15/2015 12:00:00AM	Aqueous	TCL VOLATILE ORGANICS		1/19/2015 11:05:05AM	01/19/2015
1501A98-007A	MW-6	1/15/2015 11:35:00AM	Groundwater	TCL VOLATILE ORGANICS		1/19/2015 11:05:05AM	01/21/2015

Client: EarthCon Consultants, Inc.
 Project Name: Apollo Smyrna
 Lab Order: 1501A98

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1501A98-007B	MW-6	1/15/2015 11:35:00AM	Groundwater	GC Analysis of Gaseous Samples		1/16/2015 10:48:55AM	01/16/2015
1501A98-007C	MW-6	1/15/2015 11:35:00AM	Groundwater	Total Organic Carbon (TOC)			01/16/2015
1501A98-007D	MW-6	1/15/2015 11:35:00AM	Groundwater	Alkalinity by SM2320B			01/16/2015
1501A98-007E	MW-6	1/15/2015 11:35:00AM	Groundwater	ION SCAN			01/16/2015
1501A98-007F	MW-6	1/15/2015 11:35:00AM	Groundwater	Sulfide by SW9030/9034		1/21/2015 10:40:00AM	01/21/2015

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1501A98

ANALYTICAL QC SUMMARY REPORT

BatchID: 201798

Sample ID: MB-201798	Client ID:	Units: ug/L	Prep Date: 01/16/2015	Run No: 283955							
SampleType: MBLK	TestCode: GC Analysis of Gaseous Samples SOP-RSK 175	BatchID: 201798	Analysis Date: 01/16/2015	Seq No: 6019704							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethane	BRL	9									
Ethylene	BRL	7									
Methane	BRL	4									

Sample ID: LCS-201798	Client ID:	Units: ug/L	Prep Date: 01/16/2015	Run No: 283955							
SampleType: LCS	TestCode: GC Analysis of Gaseous Samples SOP-RSK 175	BatchID: 201798	Analysis Date: 01/16/2015	Seq No: 6019703							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethane	129.4	9	200.0		64.7	41.2	115				
Ethylene	89.09	7	200.0		44.5	26.5	115				
Methane	144.9	4	200.0		72.5	45.1	115				

Sample ID: LCSD-201798	Client ID:	Units: ug/L	Prep Date: 01/16/2015	Run No: 283955							
SampleType: LCSD	TestCode: GC Analysis of Gaseous Samples SOP-RSK 175	BatchID: 201798	Analysis Date: 01/16/2015	Seq No: 6019705							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethane	128.0	9	200.0		64.0	41.2	115	129.4	1.14	20	
Ethylene	85.21	7	200.0		42.6	26.5	115	89.09	4.45	20	
Methane	145.3	4	200.0		72.7	45.1	115	144.9	0.278	20	

Sample ID: 1501A98-003BMS	Client ID: MW-4	Units: ug/L	Prep Date: 01/16/2015	Run No: 283955							
SampleType: MS	TestCode: GC Analysis of Gaseous Samples SOP-RSK 175	BatchID: 201798	Analysis Date: 01/16/2015	Seq No: 6019718							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethane	114.9	9	200.0		57.4	40.5	115				
Ethylene	70.18	7	200.0		35.1	25.1	115				
Methane	132.3	4	200.0	11.60	60.4	40.4	115				

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1501A98

ANALYTICAL QC SUMMARY REPORT

BatchID: 201798

Sample ID: 1501A98-003BMSD	Client ID: MW-4	Units: ug/L	Prep Date: 01/16/2015	Run No: 283955							
SampleType: MSD	TestCode: GC Analysis of Gaseous Samples SOP-RSK 175	BatchID: 201798	Analysis Date: 01/16/2015	Seq No: 6019719							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethane	110.3	9	200.0		55.1	40.5	115	114.9	4.06	20	
Ethylene	67.48	7	200.0		33.7	25.1	115	70.18	3.91	20	
Methane	127.4	4	200.0	11.60	57.9	40.4	115	132.3	3.83	20	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1501A98

ANALYTICAL QC SUMMARY REPORT

BatchID: 201867

Sample ID: MB-201867	Client ID:	Units: ug/L	Prep Date: 01/19/2015	Run No: 283847							
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 201867	Analysis Date: 01/19/2015	Seq No: 6017143							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,2,4-Trichlorobenzene	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dibromoethane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,3-Dichlorobenzene	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
2-Butanone	BRL	50									
2-Hexanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	50									
Benzene	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Bromoform	BRL	5.0									
Bromomethane	BRL	5.0									
Carbon disulfide	BRL	5.0									
Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									
Chloroform	BRL	5.0									
Chloromethane	BRL	10									

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1501A98

ANALYTICAL QC SUMMARY REPORT

BatchID: 201867

Sample ID: MB-201867	Client ID:	Units: ug/L	Prep Date: 01/19/2015	Run No: 283847							
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 201867	Analysis Date: 01/19/2015	Seq No: 6017143							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Freon-113	BRL	10									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	5.0									
Methyl acetate	BRL	5.0									
Methyl tert-butyl ether	BRL	5.0									
Methylcyclohexane	BRL	5.0									
Methylene chloride	BRL	5.0									
o-Xylene	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	2.0									
Surr: 4-Bromofluorobenzene	47.18	0	50.00		94.4	70.6	123				
Surr: Dibromofluoromethane	51.32	0	50.00		103	78.7	124				
Surr: Toluene-d8	48.33	0	50.00		96.7	81.3	120				

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1501A98

ANALYTICAL QC SUMMARY REPORT

BatchID: 201867

Sample ID: LCS-201867	Client ID:	Units: ug/L	Prep Date: 01/19/2015	Run No: 283847							
SampleType: LCS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 201867	Analysis Date: 01/19/2015	Seq No: 6017149							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	59.52	5.0	50.00		119	64.2	137				
Benzene	53.22	5.0	50.00		106	72.8	128				
Chlorobenzene	48.91	5.0	50.00		97.8	72.3	126				
Toluene	54.39	5.0	50.00		109	74.9	127				
Trichloroethene	56.14	5.0	50.00		112	70.5	134				
Surr: 4-Bromofluorobenzene	46.23	0	50.00		92.5	70.6	123				
Surr: Dibromofluoromethane	51.41	0	50.00		103	78.7	124				
Surr: Toluene-d8	49.40	0	50.00		98.8	81.3	120				

Sample ID: 1501991-003AMS	Client ID:	Units: ug/L	Prep Date: 01/19/2015	Run No: 283968							
SampleType: MS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 201867	Analysis Date: 01/20/2015	Seq No: 6020549							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	73.90	5.0	50.00		148	60.5	156				
Benzene	60.16	5.0	50.00		120	70	135				
Chlorobenzene	55.10	5.0	50.00		110	70.5	132				
Toluene	61.59	5.0	50.00		123	70.5	137				
Trichloroethene	65.48	5.0	50.00		131	71.8	139				
Surr: 4-Bromofluorobenzene	45.52	0	50.00		91.0	70.6	123				
Surr: Dibromofluoromethane	52.13	0	50.00		104	78.7	124				
Surr: Toluene-d8	48.88	0	50.00		97.8	81.3	120				

Sample ID: 1501991-003AMSD	Client ID:	Units: ug/L	Prep Date: 01/19/2015	Run No: 283968							
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 201867	Analysis Date: 01/20/2015	Seq No: 6020550							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	73.55	5.0	50.00		147	60.5	156	73.90	0.475	20	
Benzene	60.34	5.0	50.00		121	70	135	60.16	0.299	20	

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: EarthCon Consultants, Inc.
 Project Name: Apollo Smyrna
 Workorder: 1501A98

ANALYTICAL QC SUMMARY REPORT

BatchID: 201867

Sample ID: 1501991-003AMSD	Client ID:	Units: ug/L	Prep Date: 01/19/2015	Run No: 283968							
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 201867	Analysis Date: 01/20/2015	Seq No: 6020550							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chlorobenzene	54.92	5.0	50.00		110	70.5	132	55.10	0.327	20	
Toluene	62.41	5.0	50.00		125	70.5	137	61.59	1.32	20	
Trichloroethene	65.43	5.0	50.00		131	71.8	139	65.48	0.076	20	
Surr: 4-Bromofluorobenzene	46.73	0	50.00		93.5	70.6	123	45.52	0	0	
Surr: Dibromofluoromethane	51.30	0	50.00		103	78.7	124	52.13	0	0	
Surr: Toluene-d8	49.50	0	50.00		99.0	81.3	120	48.88	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1501A98

ANALYTICAL QC SUMMARY REPORT

BatchID: 202011

Sample ID: MB-202011	Client ID:	Units: mg/L	Prep Date: 01/21/2015	Run No: 284087							
SampleType: MBLK	TestCode: Sulfide by SW9030B/9034	BatchID: 202011	Analysis Date: 01/21/2015	Seq No: 6022771							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Sulfide BRL 2.00

Sample ID: LCS-202011	Client ID:	Units: mg/L	Prep Date: 01/21/2015	Run No: 284087							
SampleType: LCS	TestCode: Sulfide by SW9030B/9034	BatchID: 202011	Analysis Date: 01/21/2015	Seq No: 6022772							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Sulfide 336.0 2.00 336.0 100 40 120

Sample ID: 1501A83-001DMS	Client ID:	Units: mg/L	Prep Date: 01/21/2015	Run No: 284087							
SampleType: MS	TestCode: Sulfide by SW9030B/9034	BatchID: 202011	Analysis Date: 01/21/2015	Seq No: 6022790							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Sulfide 16.20 2.00 16.80 96.4 73.7 120

Sample ID: 1501A83-001DMSD	Client ID:	Units: mg/L	Prep Date: 01/21/2015	Run No: 284087							
SampleType: MSD	TestCode: Sulfide by SW9030B/9034	BatchID: 202011	Analysis Date: 01/21/2015	Seq No: 6022791							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Sulfide 16.60 2.00 16.80 98.8 73.7 120 16.20 2.44 20

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1501A98

ANALYTICAL QC SUMMARY REPORT

BatchID: R283805

Sample ID: MB-R283805	Client ID:	Units: mg/L	Prep Date:	Run No: 283805							
SampleType: MBLK	TestCode: Alkalinity by SM2320B	BatchID: R283805	Analysis Date: 01/16/2015	Seq No: 6015848							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Alkalinity, Total (As CaCO3)

BRL 3.00

Sample ID: LCS-R283805	Client ID:	Units: mg/L	Prep Date:	Run No: 283805							
SampleType: LCS	TestCode: Alkalinity by SM2320B	BatchID: R283805	Analysis Date: 01/16/2015	Seq No: 6015849							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Alkalinity, Total (As CaCO3)

125.0 3.00 125.0 100 75 125

Sample ID: 1501A83-001EDUP	Client ID:	Units: mg/L	Prep Date:	Run No: 283805							
SampleType: DUP	TestCode: Alkalinity by SM2320B	BatchID: R283805	Analysis Date: 01/16/2015	Seq No: 6015853							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Alkalinity, Total (As CaCO3)

30.00 3.00 29.00 3.39 30

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
	BRL Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
	J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
	Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1501A98

ANALYTICAL QC SUMMARY REPORT

BatchID: R283845

Sample ID: MB-R283845	Client ID:	Units: mg/L	Prep Date:	Run No: 283845							
SampleType: MBLK	TestCode: Total Organic Carbon (TOC) SW9060A	BatchID: R283845	Analysis Date: 01/16/2015	Seq No: 6016807							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Organic Carbon, Total

BRL 1.00

Sample ID: LCS-R283845	Client ID:	Units: mg/L	Prep Date:	Run No: 283845							
SampleType: LCS	TestCode: Total Organic Carbon (TOC) SW9060A	BatchID: R283845	Analysis Date: 01/16/2015	Seq No: 6016806							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Organic Carbon, Total

25.45 1.00 25.00 102 90 110

Sample ID: 1501A98-007CMS	Client ID: MW-6	Units: mg/L	Prep Date:	Run No: 283845							
SampleType: MS	TestCode: Total Organic Carbon (TOC) SW9060A	BatchID: R283845	Analysis Date: 01/16/2015	Seq No: 6016823							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Organic Carbon, Total

128.9 5.00 125.0 103 80 120

Sample ID: 1501A98-007CMSD	Client ID: MW-6	Units: mg/L	Prep Date:	Run No: 283845							
SampleType: MSD	TestCode: Total Organic Carbon (TOC) SW9060A	BatchID: R283845	Analysis Date: 01/16/2015	Seq No: 6016824							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Organic Carbon, Total

124.9 5.00 125.0 99.9 80 120 128.9 3.15 20

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1501A98

ANALYTICAL QC SUMMARY REPORT

BatchID: R283956

Sample ID: MB-R283956	Client ID:	Units: mg/L	Prep Date:	Run No: 283956							
SampleType: MBLK	TestCode: ION SCAN SW9056A	BatchID: R283956	Analysis Date: 01/16/2015	Seq No: 6019521							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride	BRL	1.0									
Nitrate	BRL	0.25									
Sulfate	BRL	1.0									

Sample ID: LCS-R283956	Client ID:	Units: mg/L	Prep Date:	Run No: 283956							
SampleType: LCS	TestCode: ION SCAN SW9056A	BatchID: R283956	Analysis Date: 01/16/2015	Seq No: 6019520							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride	10.13	1.0	10.00	0.09853	100	90	110				
Nitrate	5.343	0.25	5.000	0.01013	107	90	110				
Sulfate	26.97	1.0	25.00		108	90	110				

Sample ID: 1501A82-001GMS	Client ID:	Units: mg/L	Prep Date:	Run No: 283956							
SampleType: MS	TestCode: ION SCAN SW9056A	BatchID: R283956	Analysis Date: 01/16/2015	Seq No: 6019550							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride	18.27	1.0	10.00	10.04	82.4	90	110				S
Nitrate	4.028	0.25	5.000		80.6	90	110				S
Sulfate	28.30	1.0	25.00	4.646	94.6	90	110				

Sample ID: 1501B23-001BMS	Client ID:	Units: mg/L	Prep Date:	Run No: 283956							
SampleType: MS	TestCode: ION SCAN SW9056A	BatchID: R283956	Analysis Date: 01/16/2015	Seq No: 6019541							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride	121.3	10	100.0	27.73	93.6	90	110				
Nitrate	61.53	2.5	50.00	10.87	101	90	110				
Sulfate	280.7	10	250.0	24.16	103	90	110				

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1501A98

ANALYTICAL QC SUMMARY REPORT

BatchID: R283956

Sample ID: 1501B23-001BMSD	Client ID:	Units: mg/L	Prep Date:	Run No: 283956							
SampleType: MSD	TestCode: ION SCAN SW9056A	BatchID: R283956	Analysis Date: 01/16/2015	Seq No: 6019542							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride	120.4	10	100.0	27.73	92.7	90	110	121.3	0.724	20	
Nitrate	61.62	2.5	50.00	10.87	101	90	110	61.53	0.133	20	
Sulfate	265.2	10	250.0	24.16	96.4	90	110	280.7	5.71	20	

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
	BRL Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
	J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
	Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	



January 27, 2015

Kristen Rivera
EarthCon Consultants, Inc.
1880 West Oak Parkway
Marietta GA 30062

TEL: (770) 973-2100
FAX: (770) 973-7395

RE: Apollo Smyrna

Dear Kristen Rivera:

Order No: 1501C12

Analytical Environmental Services, Inc. received 4 samples on 1/16/2015 5:00:00 PM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/14-06/30/15.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/15.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Chantelle Kanhai
Project Manager



ANALYTICAL ENVIRONMENTAL SERVICES, INC

3080 Presidential Drive, Atlanta GA 30340-3704

AES

TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1501C12

Date: 1-16-15 Page 1 of 2

COMPANY: <i>EarthCore</i>		ADDRESS: <i>1880 West Oak Plains Bldg 100, Ste 106 Marietta GA 30067</i>					ANALYSIS REQUESTED										Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.		No # of Containers	
PHONE: <i>770-473-2100</i>		SIGNATURE: <i>[Signature]</i>					TOL	Alkalinity	Sulfide	Iron	Manganese	Nitrate-N	Nitrite-N	VOL						
SAMPLED BY: <i>Perry Frick, Kristen Henry</i>		SIGNED					PRESERVATION (See codes)										REMARKS			
#	SAMPLE ID	DATE	TIME	Grab	Composite	Matrix (See codes)	G	I	N	H	I	N	S							
1	DW-1	1-16-15	1045	X		GW	1	1	1	1	2	2								2
2	RW-1	↓	1554	X		GW	1	1	1	1	2	2								1
3	RW-2	↓	1602	X		GW	1	1	1	1	2	2								1
4	Top Blank											2							2	
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				
13																				
14																				
RELINQUISHED BY		DATE/TIME	RECEIVED BY		DATE/TIME	PROJECT INFORMATION										RECEIPT				
1: <i>[Signature]</i>			1: <i>[Signature]</i>		1-16-15 5:00p	PROJECT NAME: <i>Apollo Systems</i>										Total # of Containers <i>12</i>				
2:			2:			PROJECT #:										Turnaround Time Request				
3:			3:			SITE ADDRESS:										<input checked="" type="radio"/> Standard 5 Business Days				
SPECIAL INSTRUCTIONS/COMMENTS:		SHIPMENT METHOD					SEND REPORT TO: <i>Kristen Henry</i>										<input type="radio"/> 2 Business Day Rush			
		OUT / / VIA:					INVOICE TO:										<input type="radio"/> Next Business Day Rush			
		IN / / VIA:					(IF DIFFERENT FROM ABOVE)										<input type="radio"/> Same Day Rush (auth req.)			
		CLIENT FedEx UPS MAIL COURIER					QUOTE #:										<input type="radio"/> Other			
		GREYHOUND OTHER					PO#:										STATE PROGRAM (if any):			
																	E-mail? Y/N; Fax? Y/N			
																	DATA PACKAGE: I II III IV			

SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY. IF TURNAROUND TIME IS NOT INDICATED, AES WILL PROCEED WITH STANDARD TAT OF SAMPLES. SAMPLES ARE DISPOSED 30 DAYS AFTER REPORT COMPLETION UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water

PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

Client: EarthCon Consultants, Inc.

Project: Apollo Smyrna

Lab ID: 1501C12

Case Narrative

Ion Chromatography Analysis by Method 9056A:

Nitrate values for the QC samples 1501744-001CMS, -1501744-001CMSD, and 1501981-003CMS are "H" qualified indicating they were analyzed outside of the holding time of 48 Hours. Samples 1501744-001 and 1501981-003 did not require Nitrate to be reported.

Analytical Environmental Services, Inc

Date: 27-Jan-15

Client: EarthCon Consultants, Inc.	Client Sample ID: DW-1
Project Name: Apollo Smyrna	Collection Date: 1/16/2015 10:45:00 AM
Lab ID: 1501C12-001	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) SW9060A								
Organic Carbon, Total	5.96	1.00		mg/L	R284158	1	01/21/2015 14:19	YS
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	77	5.0		ug/L	201906	1	01/21/2015 03:08	GC
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	201906	1	01/21/2015 03:08	GC
1,1,2-Trichloroethane	BRL	5.0		ug/L	201906	1	01/21/2015 03:08	GC
1,1-Dichloroethane	280	250		ug/L	201906	50	01/20/2015 03:21	GC
1,1-Dichloroethene	690	250		ug/L	201906	50	01/20/2015 03:21	GC
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	201906	1	01/21/2015 03:08	GC
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	201906	1	01/21/2015 03:08	GC
1,2-Dibromoethane	BRL	5.0		ug/L	201906	1	01/21/2015 03:08	GC
1,2-Dichlorobenzene	BRL	5.0		ug/L	201906	1	01/21/2015 03:08	GC
1,2-Dichloroethane	6.7	5.0		ug/L	201906	1	01/21/2015 03:08	GC
1,2-Dichloropropane	BRL	5.0		ug/L	201906	1	01/21/2015 03:08	GC
1,3-Dichlorobenzene	BRL	5.0		ug/L	201906	1	01/21/2015 03:08	GC
1,4-Dichlorobenzene	BRL	5.0		ug/L	201906	1	01/21/2015 03:08	GC
2-Butanone	BRL	50		ug/L	201906	1	01/21/2015 03:08	GC
2-Hexanone	BRL	10		ug/L	201906	1	01/21/2015 03:08	GC
4-Methyl-2-pentanone	BRL	10		ug/L	201906	1	01/21/2015 03:08	GC
Acetone	93	50		ug/L	201906	1	01/21/2015 03:08	GC
Benzene	BRL	5.0		ug/L	201906	1	01/21/2015 03:08	GC
Bromodichloromethane	BRL	5.0		ug/L	201906	1	01/21/2015 03:08	GC
Bromoform	BRL	5.0		ug/L	201906	1	01/21/2015 03:08	GC
Bromomethane	BRL	5.0		ug/L	201906	1	01/21/2015 03:08	GC
Carbon disulfide	BRL	5.0		ug/L	201906	1	01/21/2015 03:08	GC
Carbon tetrachloride	BRL	5.0		ug/L	201906	1	01/21/2015 03:08	GC
Chlorobenzene	BRL	5.0		ug/L	201906	1	01/21/2015 03:08	GC
Chloroethane	760	500		ug/L	201906	50	01/20/2015 03:21	GC
Chloroform	BRL	5.0		ug/L	201906	1	01/21/2015 03:08	GC
Chloromethane	BRL	10		ug/L	201906	1	01/21/2015 03:08	GC
cis-1,2-Dichloroethene	52	5.0		ug/L	201906	1	01/21/2015 03:08	GC
cis-1,3-Dichloropropene	BRL	5.0		ug/L	201906	1	01/21/2015 03:08	GC
Cyclohexane	BRL	5.0		ug/L	201906	1	01/21/2015 03:08	GC
Dibromochloromethane	BRL	5.0		ug/L	201906	1	01/21/2015 03:08	GC
Dichlorodifluoromethane	BRL	10		ug/L	201906	1	01/21/2015 03:08	GC
Ethylbenzene	6.4	5.0		ug/L	201906	1	01/21/2015 03:08	GC
Freon-113	BRL	10		ug/L	201906	1	01/21/2015 03:08	GC
Isopropylbenzene	BRL	5.0		ug/L	201906	1	01/21/2015 03:08	GC
m,p-Xylene	16	5.0		ug/L	201906	1	01/21/2015 03:08	GC
Methyl acetate	BRL	5.0		ug/L	201906	1	01/21/2015 03:08	GC
Methyl tert-butyl ether	BRL	5.0		ug/L	201906	1	01/21/2015 03:08	GC

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: EarthCon Consultants, Inc.	Client Sample ID: DW-1
Project Name: Apollo Smyrna	Collection Date: 1/16/2015 10:45:00 AM
Lab ID: 1501C12-001	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
Methylcyclohexane	BRL	5.0		ug/L	201906	1	01/21/2015 03:08	GC
Methylene chloride	19	5.0		ug/L	201906	1	01/21/2015 03:08	GC
o-Xylene	7.7	5.0		ug/L	201906	1	01/21/2015 03:08	GC
Styrene	BRL	5.0		ug/L	201906	1	01/21/2015 03:08	GC
Tetrachloroethene	520	250		ug/L	201906	50	01/20/2015 03:21	GC
Toluene	460	250		ug/L	201906	50	01/20/2015 03:21	GC
trans-1,2-Dichloroethene	BRL	5.0		ug/L	201906	1	01/21/2015 03:08	GC
trans-1,3-Dichloropropene	BRL	5.0		ug/L	201906	1	01/21/2015 03:08	GC
Trichloroethene	38	5.0		ug/L	201906	1	01/21/2015 03:08	GC
Trichlorofluoromethane	BRL	5.0		ug/L	201906	1	01/21/2015 03:08	GC
Vinyl chloride	51	2.0		ug/L	201906	1	01/21/2015 03:08	GC
Surr: 4-Bromofluorobenzene	93.7	70.6-123		%REC	201906	50	01/20/2015 03:21	GC
Surr: 4-Bromofluorobenzene	98.4	70.6-123		%REC	201906	1	01/21/2015 03:08	GC
Surr: Dibromofluoromethane	110	78.7-124		%REC	201906	50	01/20/2015 03:21	GC
Surr: Dibromofluoromethane	107	78.7-124		%REC	201906	1	01/21/2015 03:08	GC
Surr: Toluene-d8	99.1	81.3-120		%REC	201906	1	01/21/2015 03:08	GC
Surr: Toluene-d8	102	81.3-120		%REC	201906	50	01/20/2015 03:21	GC
Sulfide by SW9030B/9034 (SW9030B)								
Sulfide	BRL	2.00		mg/L	202011	1	01/21/2015 10:40	AB
ION SCAN SW9056A								
Chloride	57	10		mg/L	R284060	10	01/16/2015 22:00	JW
Nitrate	BRL	0.25		mg/L	R284060	1	01/16/2015 21:45	JW
Sulfate	BRL	1.0		mg/L	R284060	1	01/16/2015 21:45	JW
GC Analysis of Gaseous Samples SOP-RSK 175 (RSK175)								
Ethane	BRL	9		ug/L	201992	1	01/22/2015 13:51	JM
Ethylene	260	7		ug/L	201992	1	01/22/2015 13:51	JM
Methane	3300	80		ug/L	201992	20	01/22/2015 14:19	JM
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	128	3.00		mg/L	R284281	1	01/23/2015 09:10	PF

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 27-Jan-15

Client: EarthCon Consultants, Inc.	Client Sample ID: RW-1
Project Name: Apollo Smyrna	Collection Date: 1/16/2015 3:54:00 PM
Lab ID: 1501C12-002	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
ION SCAN SW9056A								
Chloride	110	10		mg/L	R284060	10	01/16/2015 22:29	JW
Nitrate	BRL	0.25		mg/L	R284060	1	01/16/2015 22:15	JW
Sulfate	3.4	1.0		mg/L	R284060	1	01/16/2015 22:15	JW

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 27-Jan-15

Client: EarthCon Consultants, Inc.	Client Sample ID: RW-2
Project Name: Apollo Smyrna	Collection Date: 1/16/2015 4:02:00 PM
Lab ID: 1501C12-003	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
ION SCAN SW9056A								
Chloride	4.2	1.0		mg/L	R284060	1	01/16/2015 22:44	JW
Nitrate	BRL	0.25		mg/L	R284060	1	01/16/2015 22:44	JW
Sulfate	14	1.0		mg/L	R284060	1	01/16/2015 22:44	JW

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: EarthCon Consultants, Inc.	Client Sample ID: TRIP BLANK
Project Name: Apollo Smyrna	Collection Date: 1/16/2015
Lab ID: 1501C12-004	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	201906	1	01/19/2015 20:23	GC
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	201906	1	01/19/2015 20:23	GC
1,1,2-Trichloroethane	BRL	5.0		ug/L	201906	1	01/19/2015 20:23	GC
1,1-Dichloroethane	BRL	5.0		ug/L	201906	1	01/19/2015 20:23	GC
1,1-Dichloroethene	BRL	5.0		ug/L	201906	1	01/19/2015 20:23	GC
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	201906	1	01/19/2015 20:23	GC
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	201906	1	01/19/2015 20:23	GC
1,2-Dibromoethane	BRL	5.0		ug/L	201906	1	01/19/2015 20:23	GC
1,2-Dichlorobenzene	BRL	5.0		ug/L	201906	1	01/19/2015 20:23	GC
1,2-Dichloroethane	BRL	5.0		ug/L	201906	1	01/19/2015 20:23	GC
1,2-Dichloropropane	BRL	5.0		ug/L	201906	1	01/19/2015 20:23	GC
1,3-Dichlorobenzene	BRL	5.0		ug/L	201906	1	01/19/2015 20:23	GC
1,4-Dichlorobenzene	BRL	5.0		ug/L	201906	1	01/19/2015 20:23	GC
2-Butanone	BRL	50		ug/L	201906	1	01/19/2015 20:23	GC
2-Hexanone	BRL	10		ug/L	201906	1	01/19/2015 20:23	GC
4-Methyl-2-pentanone	BRL	10		ug/L	201906	1	01/19/2015 20:23	GC
Acetone	BRL	50		ug/L	201906	1	01/19/2015 20:23	GC
Benzene	BRL	5.0		ug/L	201906	1	01/19/2015 20:23	GC
Bromodichloromethane	BRL	5.0		ug/L	201906	1	01/19/2015 20:23	GC
Bromoform	BRL	5.0		ug/L	201906	1	01/19/2015 20:23	GC
Bromomethane	BRL	5.0		ug/L	201906	1	01/19/2015 20:23	GC
Carbon disulfide	BRL	5.0		ug/L	201906	1	01/19/2015 20:23	GC
Carbon tetrachloride	BRL	5.0		ug/L	201906	1	01/19/2015 20:23	GC
Chlorobenzene	BRL	5.0		ug/L	201906	1	01/19/2015 20:23	GC
Chloroethane	BRL	10		ug/L	201906	1	01/19/2015 20:23	GC
Chloroform	BRL	5.0		ug/L	201906	1	01/19/2015 20:23	GC
Chloromethane	BRL	10		ug/L	201906	1	01/19/2015 20:23	GC
cis-1,2-Dichloroethene	BRL	5.0		ug/L	201906	1	01/19/2015 20:23	GC
cis-1,3-Dichloropropene	BRL	5.0		ug/L	201906	1	01/19/2015 20:23	GC
Cyclohexane	BRL	5.0		ug/L	201906	1	01/19/2015 20:23	GC
Dibromochloromethane	BRL	5.0		ug/L	201906	1	01/19/2015 20:23	GC
Dichlorodifluoromethane	BRL	10		ug/L	201906	1	01/19/2015 20:23	GC
Ethylbenzene	BRL	5.0		ug/L	201906	1	01/19/2015 20:23	GC
Freon-113	BRL	10		ug/L	201906	1	01/19/2015 20:23	GC
Isopropylbenzene	BRL	5.0		ug/L	201906	1	01/19/2015 20:23	GC
m,p-Xylene	BRL	5.0		ug/L	201906	1	01/19/2015 20:23	GC
Methyl acetate	BRL	5.0		ug/L	201906	1	01/19/2015 20:23	GC
Methyl tert-butyl ether	BRL	5.0		ug/L	201906	1	01/19/2015 20:23	GC
Methylcyclohexane	BRL	5.0		ug/L	201906	1	01/19/2015 20:23	GC
Methylene chloride	BRL	5.0		ug/L	201906	1	01/19/2015 20:23	GC
o-Xylene	BRL	5.0		ug/L	201906	1	01/19/2015 20:23	GC

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: EarthCon Consultants, Inc.	Client Sample ID: TRIP BLANK
Project Name: Apollo Smyrna	Collection Date: 1/16/2015
Lab ID: 1501C12-004	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
Styrene	BRL	5.0		ug/L	201906	1	01/19/2015 20:23	GC
Tetrachloroethene	BRL	5.0		ug/L	201906	1	01/19/2015 20:23	GC
Toluene	BRL	5.0		ug/L	201906	1	01/19/2015 20:23	GC
trans-1,2-Dichloroethene	BRL	5.0		ug/L	201906	1	01/19/2015 20:23	GC
trans-1,3-Dichloropropene	BRL	5.0		ug/L	201906	1	01/19/2015 20:23	GC
Trichloroethene	BRL	5.0		ug/L	201906	1	01/19/2015 20:23	GC
Trichlorofluoromethane	BRL	5.0		ug/L	201906	1	01/19/2015 20:23	GC
Vinyl chloride	BRL	2.0		ug/L	201906	1	01/19/2015 20:23	GC
Surr: 4-Bromofluorobenzene	93.1	70.6-123		%REC	201906	1	01/19/2015 20:23	GC
Surr: Dibromofluoromethane	105	78.7-124		%REC	201906	1	01/19/2015 20:23	GC
Surr: Toluene-d8	99.6	81.3-120		%REC	201906	1	01/19/2015 20:23	GC

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Earthcon

Work Order Number 1501C12

Checklist completed by [Signature] 1/16/15
Signature Date

Carrier name: FedEx UPS Courier Client US Mail Other

Shipping container/cooler in good condition? Yes No Not Present

Custody seals intact on shipping container/cooler? Yes No Not Present

Custody seals intact on sample bottles? Yes No Not Present

Container/Temp Blank temperature in compliance? (0°≤6°C)* Yes No

Cooler #1 3.4°C Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Chain of custody present? Yes No

Chain of custody signed when relinquished and received? Yes No

Chain of custody agrees with sample labels? Yes No

Samples in proper container/bottle? Yes No

Sample containers intact? Yes No

Sufficient sample volume for indicated test? Yes No

All samples received within holding time? Yes No

Was TAT marked on the COC? Yes No

Proceed with Standard TAT as per project history? Yes No Not Applicable

Water - VOA vials have zero headspace? No VOA vials submitted Yes No

Water - pH acceptable upon receipt? Yes No Not Applicable

Adjusted? _____ Checked by [Signature]

Sample Condition: Good Other(Explain) _____

(For diffusive samples or AIHA lead) Is a known blank included? Yes No

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Lab Order: 1501C12

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1501C12-001A	DW-1	1/16/2015 10:45:00AM	Groundwater	TCL VOLATILE ORGANICS		1/19/2015 6:18:00 PM	01/20/2015
1501C12-001A	DW-1	1/16/2015 10:45:00AM	Groundwater	TCL VOLATILE ORGANICS		1/19/2015 6:18:00 PM	01/21/2015
1501C12-001B	DW-1	1/16/2015 10:45:00AM	Groundwater	GC Analysis of Gaseous Samples		1/21/2015 3:14:14 PM	01/22/2015
1501C12-001C	DW-1	1/16/2015 10:45:00AM	Groundwater	Total Organic Carbon (TOC)			01/21/2015
1501C12-001D	DW-1	1/16/2015 10:45:00AM	Groundwater	ION SCAN			01/16/2015
1501C12-001E	DW-1	1/16/2015 10:45:00AM	Groundwater	Alkalinity by SM2320B			01/23/2015
1501C12-001F	DW-1	1/16/2015 10:45:00AM	Groundwater	Sulfide by SW9030/9034		1/21/2015 10:40:00 AM	01/21/2015
1501C12-002A	RW-1	1/16/2015 3:54:00PM	Groundwater	ION SCAN			01/16/2015
1501C12-003A	RW-2	1/16/2015 4:02:00PM	Groundwater	ION SCAN			01/16/2015
1501C12-004A	TRIPBLANK	1/16/2015 12:00:00AM	Aqueous	TCL VOLATILE ORGANICS		1/19/2015 6:18:00 PM	01/19/2015

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1501C12

ANALYTICAL QC SUMMARY REPORT

BatchID: 201906

Sample ID: MB-201906	Client ID:	Units: ug/L	Prep Date: 01/19/2015	Run No: 283934							
Sample Type: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 201906	Analysis Date: 01/19/2015	Seq No: 6018898							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,2,4-Trichlorobenzene	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dibromoethane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,3-Dichlorobenzene	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
2-Butanone	BRL	50									
2-Hexanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	50									
Benzene	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Bromoform	BRL	5.0									
Bromomethane	BRL	5.0									
Carbon disulfide	BRL	5.0									
Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									
Chloroform	BRL	5.0									
Chloromethane	BRL	10									

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1501C12

ANALYTICAL QC SUMMARY REPORT

BatchID: 201906

Sample ID: MB-201906	Client ID:	Units: ug/L	Prep Date: 01/19/2015	Run No: 283934							
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 201906	Analysis Date: 01/19/2015	Seq No: 6018898							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Freon-113	BRL	10									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	5.0									
Methyl acetate	BRL	5.0									
Methyl tert-butyl ether	BRL	5.0									
Methylcyclohexane	BRL	5.0									
Methylene chloride	BRL	5.0									
o-Xylene	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	2.0									
Surr: 4-Bromofluorobenzene	46.65	0	50.00		93.3	70.6	123				
Surr: Dibromofluoromethane	52.42	0	50.00		105	78.7	124				
Surr: Toluene-d8	49.61	0	50.00		99.2	81.3	120				

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1501C12

ANALYTICAL QC SUMMARY REPORT

BatchID: 201906

Sample ID: LCS-201906	Client ID:	Units: ug/L	Prep Date: 01/19/2015	Run No: 283934							
SampleType: LCS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 201906	Analysis Date: 01/19/2015	Seq No: 6018918							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	63.13	5.0	50.00		126	64.2	137				
Benzene	52.30	5.0	50.00		105	72.8	128				
Chlorobenzene	48.55	5.0	50.00		97.1	72.3	126				
Toluene	53.26	5.0	50.00		107	74.9	127				
Trichloroethene	56.88	5.0	50.00		114	70.5	134				
Surr: 4-Bromofluorobenzene	46.15	0	50.00		92.3	70.6	123				
Surr: Dibromofluoromethane	50.81	0	50.00		102	78.7	124				
Surr: Toluene-d8	48.77	0	50.00		97.5	81.3	120				

Sample ID: 1501D52-002AMS	Client ID:	Units: ug/L	Prep Date: 01/19/2015	Run No: 284066							
SampleType: MS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 201906	Analysis Date: 01/21/2015	Seq No: 6022808							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	66.40	5.0	50.00		133	60.5	156				
Benzene	62.55	5.0	50.00		125	70	135				
Chlorobenzene	57.05	5.0	50.00		114	70.5	132				
Toluene	54.44	5.0	50.00		109	70.5	137				
Trichloroethene	65.14	5.0	50.00		130	71.8	139				
Surr: 4-Bromofluorobenzene	44.72	0	50.00		89.4	70.6	123				
Surr: Dibromofluoromethane	51.47	0	50.00		103	78.7	124				
Surr: Toluene-d8	45.34	0	50.00		90.7	81.3	120				

Sample ID: 1501D52-002AMSD	Client ID:	Units: ug/L	Prep Date: 01/19/2015	Run No: 284066							
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 201906	Analysis Date: 01/21/2015	Seq No: 6022809							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	62.57	5.0	50.00		125	60.5	156	66.40	5.94	20	
Benzene	62.39	5.0	50.00		125	70	135	62.55	0.256	20	

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1501C12

ANALYTICAL QC SUMMARY REPORT

BatchID: 201906

Sample ID: 1501D52-002AMSD	Client ID:	Units: ug/L	Prep Date: 01/19/2015	Run No: 284066							
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 201906	Analysis Date: 01/21/2015	Seq No: 6022809							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chlorobenzene	56.78	5.0	50.00		114	70.5	132	57.05	0.474	20	
Toluene	51.41	5.0	50.00		103	70.5	137	54.44	5.73	20	
Trichloroethene	64.97	5.0	50.00		130	71.8	139	65.14	0.261	20	
Surr: 4-Bromofluorobenzene	45.36	0	50.00		90.7	70.6	123	44.72	0	0	
Surr: Dibromofluoromethane	52.13	0	50.00		104	78.7	124	51.47	0	0	
Surr: Toluene-d8	46.32	0	50.00		92.6	81.3	120	45.34	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1501C12

ANALYTICAL QC SUMMARY REPORT

BatchID: 201992

Sample ID: MB-201992	Client ID:	Units: ug/L	Prep Date: 01/21/2015	Run No: 284163							
SampleType: MBLK	TestCode: GC Analysis of Gaseous Samples SOP-RSK 175	BatchID: 201992	Analysis Date: 01/22/2015	Seq No: 6024893							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethane	BRL	9									
Ethylene	BRL	7									
Methane	BRL	4									

Sample ID: LCS-201992	Client ID:	Units: ug/L	Prep Date: 01/21/2015	Run No: 284163							
SampleType: LCS	TestCode: GC Analysis of Gaseous Samples SOP-RSK 175	BatchID: 201992	Analysis Date: 01/22/2015	Seq No: 6024894							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethane	101.1	9	200.0		50.6	41.2	115				
Ethylene	68.45	7	200.0		34.2	26.5	115				
Methane	116.2	4	200.0		58.1	45.1	115				

Sample ID: LCSD-201992	Client ID:	Units: ug/L	Prep Date: 01/21/2015	Run No: 284163							
SampleType: LCSD	TestCode: GC Analysis of Gaseous Samples SOP-RSK 175	BatchID: 201992	Analysis Date: 01/22/2015	Seq No: 6024896							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethane	105.0	9	200.0		52.5	41.2	115	101.1	3.73	20	
Ethylene	71.05	7	200.0		35.5	26.5	115	68.45	3.73	20	
Methane	122.6	4	200.0		61.3	45.1	115	116.2	5.38	20	

Sample ID: 1501997-002BMS	Client ID:	Units: ug/L	Prep Date: 01/21/2015	Run No: 284163							
SampleType: MS	TestCode: GC Analysis of Gaseous Samples SOP-RSK 175	BatchID: 201992	Analysis Date: 01/22/2015	Seq No: 6024915							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethane	103.8	9	200.0		51.9	40.5	115				
Ethylene	70.52	7	200.0		35.3	25.1	115				
Methane	119.1	4	200.0		59.6	40.4	115				

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
BRL	Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S Spike Recovery outside limits due to matrix	

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1501C12

ANALYTICAL QC SUMMARY REPORT

BatchID: 201992

Sample ID: 1501G37-002BMS	Client ID:	Units: ug/L	Prep Date: 01/21/2015	Run No: 284163							
SampleType: MS	TestCode: GC Analysis of Gaseous Samples SOP-RSK 175	BatchID: 201992	Analysis Date: 01/22/2015	Seq No: 6024918							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethane	106.6	9	200.0		53.3	40.5	115				
Ethylene	70.97	7	200.0		35.5	25.1	115				
Methane	130.3	4	200.0	5.957	62.2	40.4	115				

Sample ID: 1501997-002BMSD	Client ID:	Units: ug/L	Prep Date: 01/21/2015	Run No: 284163							
SampleType: MSD	TestCode: GC Analysis of Gaseous Samples SOP-RSK 175	BatchID: 201992	Analysis Date: 01/22/2015	Seq No: 6024916							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethane	107.5	9	200.0		53.7	40.5	115	103.8	3.54	20	
Ethylene	73.25	7	200.0		36.6	25.1	115	70.52	3.79	20	
Methane	123.7	4	200.0		61.9	40.4	115	119.1	3.77	20	

Sample ID: 1501G37-002BMSD	Client ID:	Units: ug/L	Prep Date: 01/21/2015	Run No: 284163							
SampleType: MSD	TestCode: GC Analysis of Gaseous Samples SOP-RSK 175	BatchID: 201992	Analysis Date: 01/22/2015	Seq No: 6024919							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethane	109.0	9	200.0		54.5	40.5	115	106.6	2.16	20	
Ethylene	72.70	7	200.0		36.4	25.1	115	70.97	2.42	20	
Methane	131.6	4	200.0	5.957	62.8	40.4	115	130.3	0.943	20	

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1501C12

ANALYTICAL QC SUMMARY REPORT

BatchID: 202011

Sample ID: MB-202011	Client ID:	Units: mg/L	Prep Date: 01/21/2015	Run No: 284087							
SampleType: MBLK	TestCode: Sulfide by SW9030B/9034	BatchID: 202011	Analysis Date: 01/21/2015	Seq No: 6022771							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Sulfide BRL 2.00

Sample ID: LCS-202011	Client ID:	Units: mg/L	Prep Date: 01/21/2015	Run No: 284087							
SampleType: LCS	TestCode: Sulfide by SW9030B/9034	BatchID: 202011	Analysis Date: 01/21/2015	Seq No: 6022772							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Sulfide 336.0 2.00 336.0 100 40 120

Sample ID: 1501A83-001DMS	Client ID:	Units: mg/L	Prep Date: 01/21/2015	Run No: 284087							
SampleType: MS	TestCode: Sulfide by SW9030B/9034	BatchID: 202011	Analysis Date: 01/21/2015	Seq No: 6022790							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Sulfide 16.20 2.00 16.80 96.4 73.7 120

Sample ID: 1501A83-001DMSD	Client ID:	Units: mg/L	Prep Date: 01/21/2015	Run No: 284087							
SampleType: MSD	TestCode: Sulfide by SW9030B/9034	BatchID: 202011	Analysis Date: 01/21/2015	Seq No: 6022791							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Sulfide 16.60 2.00 16.80 98.8 73.7 120 16.20 2.44 20

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1501C12

ANALYTICAL QC SUMMARY REPORT

BatchID: R284060

Sample ID: MB-R284060	Client ID:	Units: mg/L	Prep Date:	Run No: 284060							
SampleType: MBLK	TestCode: ION SCAN SW9056A	BatchID: R284060	Analysis Date: 01/16/2015	Seq No: 6022189							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride	BRL	1.0									
Nitrate	BRL	0.25									
Sulfate	BRL	1.0									

Sample ID: LCS-R284060	Client ID:	Units: mg/L	Prep Date:	Run No: 284060							
SampleType: LCS	TestCode: ION SCAN SW9056A	BatchID: R284060	Analysis Date: 01/16/2015	Seq No: 6022188							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride	9.009	1.0	10.00		90.1	90	110				
Nitrate	4.603	0.25	5.000		92.1	90	110				
Sulfate	23.30	1.0	25.00		93.2	90	110				

Sample ID: 1501744-001CMS	Client ID:	Units: mg/L	Prep Date:	Run No: 284060							
SampleType: MS	TestCode: ION SCAN SW9056A	BatchID: R284060	Analysis Date: 01/16/2015	Seq No: 6022197							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride	14.38	1.0	10.00	6.111	82.7	90	110				S
Nitrate	4.510	0.25	5.000		90.2	90	110				H
Sulfate	39.29	1.0	25.00	17.05	89.0	90	110				S

Sample ID: 1501981-003CMS	Client ID:	Units: mg/L	Prep Date:	Run No: 284060							
SampleType: MS	TestCode: ION SCAN SW9056A	BatchID: R284060	Analysis Date: 01/17/2015	Seq No: 6022204							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride	15.64	1.0	10.00	6.686	89.6	90	110				S
Nitrate	4.712	0.25	5.000	0.2675	88.9	90	110				SH
Sulfate	29.50	1.0	25.00	5.681	95.3	90	110				

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: EarthCon Consultants, Inc.
 Project Name: Apollo Smyrna
 Workorder: 1501C12

ANALYTICAL QC SUMMARY REPORT

BatchID: R284060

Sample ID: 1501744-001CMSD	Client ID:	Units: mg/L	Prep Date:	Run No: 284060							
SampleType: MSD	TestCode: ION SCAN SW9056A	BatchID: R284060	Analysis Date: 01/16/2015	Seq No: 6022198							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride	13.48	1.0	10.00	6.111	73.7	90	110	14.38	6.47	20	S
Nitrate	4.194	0.25	5.000		83.9	90	110	4.510	7.27	20	SH
Sulfate	37.19	1.0	25.00	17.05	80.6	90	110	39.29	5.49	20	S

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1501C12

ANALYTICAL QC SUMMARY REPORT

BatchID: R284158

Sample ID: MB-R284158	Client ID:	Units: mg/L	Prep Date:	Run No: 284158							
SampleType: MBLK	TestCode: Total Organic Carbon (TOC) SW9060A	BatchID: R284158	Analysis Date: 01/21/2015	Seq No: 6024462							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Organic Carbon, Total

BRL 1.00

Sample ID: LCS-R284158	Client ID:	Units: mg/L	Prep Date:	Run No: 284158							
SampleType: LCS	TestCode: Total Organic Carbon (TOC) SW9060A	BatchID: R284158	Analysis Date: 01/21/2015	Seq No: 6024461							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Organic Carbon, Total

25.49 1.00 25.00 102 90 110

Sample ID: 1501997-002CMS	Client ID:	Units: mg/L	Prep Date:	Run No: 284158							
SampleType: MS	TestCode: Total Organic Carbon (TOC) SW9060A	BatchID: R284158	Analysis Date: 01/21/2015	Seq No: 6024467							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Organic Carbon, Total

38.42 1.00 25.00 11.42 108 80 120

Sample ID: 1501997-002CMSD	Client ID:	Units: mg/L	Prep Date:	Run No: 284158							
SampleType: MSD	TestCode: Total Organic Carbon (TOC) SW9060A	BatchID: R284158	Analysis Date: 01/21/2015	Seq No: 6024468							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Organic Carbon, Total

34.96 1.00 25.00 11.42 94.2 80 120 38.42 9.43 20

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1501C12

ANALYTICAL QC SUMMARY REPORT

BatchID: R284281

Sample ID: MB-R284281	Client ID:	Units: mg/L	Prep Date:	Run No: 284281							
SampleType: MBLK	TestCode: Alkalinity by SM2320B	BatchID: R284281	Analysis Date: 01/23/2015	Seq No: 6026885							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Alkalinity, Total (As CaCO3)

BRL 3.00

Sample ID: LCS-R284281	Client ID:	Units: mg/L	Prep Date:	Run No: 284281							
SampleType: LCS	TestCode: Alkalinity by SM2320B	BatchID: R284281	Analysis Date: 01/23/2015	Seq No: 6026886							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Alkalinity, Total (As CaCO3)

128.0 3.00 125.0 102 75 125

Sample ID: 1501C12-001EDUP	Client ID: DW-1	Units: mg/L	Prep Date:	Run No: 284281							
SampleType: DUP	TestCode: Alkalinity by SM2320B	BatchID: R284281	Analysis Date: 01/23/2015	Seq No: 6026896							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Alkalinity, Total (As CaCO3)

129.0 3.00 128.0 0.778 30

Qualifiers:
 > Greater than Result value
 BRL Below reporting limit
 J Estimated value detected below Reporting Limit
 Rpt Lim Reporting Limit

< Less than Result value
 E Estimated (value above quantitation range)
 N Analyte not NELAC certified
 S Spike Recovery outside limits due to matrix

B Analyte detected in the associated method blank
 H Holding times for preparation or analysis exceeded
 R RPD outside limits due to matrix



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

January 27, 2015

Kristen Rivera
EarthCon Consultants, Inc.
1880 West Oak Parkway
Marietta GA 30062

TEL: (770) 973-2100
FAX: (770) 973-7395

RE: Apollo Smyrna

Dear Kristen Rivera:

Order No: 1501997

Analytical Environmental Services, Inc. received 3 samples on 1/17/2015 9:35:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/14-06/30/15.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/15.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Chantelle Kanhai
Project Manager

Analytical Environmental Services, Inc

Date: 27-Jan-15

Client: EarthCon Consultants, Inc.	Client Sample ID: RW-1
Project Name: Apollo Smyrna	Collection Date: 1/16/2015 3:54:00 PM
Lab ID: 1501997-001	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) SW9060A								
Organic Carbon, Total	39.6	1.00		mg/L	R284158	1	01/21/2015 13:30	YS
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	180	5.0		ug/L	201867	1	01/21/2015 03:32	GC
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	201867	1	01/21/2015 03:32	GC
1,1,2-Trichloroethane	BRL	5.0		ug/L	201867	1	01/21/2015 03:32	GC
1,1-Dichloroethane	470	50		ug/L	201867	10	01/20/2015 04:35	GC
1,1-Dichloroethene	870	50		ug/L	201867	10	01/20/2015 04:35	GC
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	201867	1	01/21/2015 03:32	GC
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	201867	1	01/21/2015 03:32	GC
1,2-Dibromoethane	BRL	5.0		ug/L	201867	1	01/21/2015 03:32	GC
1,2-Dichlorobenzene	BRL	5.0		ug/L	201867	1	01/21/2015 03:32	GC
1,2-Dichloroethane	8.6	5.0		ug/L	201867	1	01/21/2015 03:32	GC
1,2-Dichloropropane	BRL	5.0		ug/L	201867	1	01/21/2015 03:32	GC
1,3-Dichlorobenzene	BRL	5.0		ug/L	201867	1	01/21/2015 03:32	GC
1,4-Dichlorobenzene	BRL	5.0		ug/L	201867	1	01/21/2015 03:32	GC
2-Butanone	BRL	50		ug/L	201867	1	01/21/2015 03:32	GC
2-Hexanone	BRL	10		ug/L	201867	1	01/21/2015 03:32	GC
4-Methyl-2-pentanone	BRL	10		ug/L	201867	1	01/21/2015 03:32	GC
Acetone	4500	1000		ug/L	201867	20	01/20/2015 15:37	GC
Benzene	BRL	5.0		ug/L	201867	1	01/21/2015 03:32	GC
Bromodichloromethane	BRL	5.0		ug/L	201867	1	01/21/2015 03:32	GC
Bromoform	BRL	5.0		ug/L	201867	1	01/21/2015 03:32	GC
Bromomethane	BRL	5.0		ug/L	201867	1	01/21/2015 03:32	GC
Carbon disulfide	BRL	5.0		ug/L	201867	1	01/21/2015 03:32	GC
Carbon tetrachloride	BRL	5.0		ug/L	201867	1	01/21/2015 03:32	GC
Chlorobenzene	BRL	5.0		ug/L	201867	1	01/21/2015 03:32	GC
Chloroethane	890	100		ug/L	201867	10	01/20/2015 04:35	GC
Chloroform	BRL	5.0		ug/L	201867	1	01/21/2015 03:32	GC
Chloromethane	BRL	10		ug/L	201867	1	01/21/2015 03:32	GC
cis-1,2-Dichloroethene	110	5.0		ug/L	201867	1	01/21/2015 03:32	GC
cis-1,3-Dichloropropene	BRL	5.0		ug/L	201867	1	01/21/2015 03:32	GC
Cyclohexane	20	5.0		ug/L	201867	1	01/21/2015 03:32	GC
Dibromochloromethane	BRL	5.0		ug/L	201867	1	01/21/2015 03:32	GC
Dichlorodifluoromethane	BRL	10		ug/L	201867	1	01/21/2015 03:32	GC
Ethylbenzene	8.6	5.0		ug/L	201867	1	01/21/2015 03:32	GC
Freon-113	BRL	10		ug/L	201867	1	01/21/2015 03:32	GC
Isopropylbenzene	BRL	5.0		ug/L	201867	1	01/21/2015 03:32	GC
m,p-Xylene	47	5.0		ug/L	201867	1	01/21/2015 03:32	GC
Methyl acetate	BRL	5.0		ug/L	201867	1	01/21/2015 03:32	GC
Methyl tert-butyl ether	BRL	5.0		ug/L	201867	1	01/21/2015 03:32	GC

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: EarthCon Consultants, Inc.	Client Sample ID: RW-1
Project Name: Apollo Smyrna	Collection Date: 1/16/2015 3:54:00 PM
Lab ID: 1501997-001	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B			(SW5030B)					
Methylcyclohexane	BRL	5.0		ug/L	201867	1	01/21/2015 03:32	GC
Methylene chloride	18	5.0		ug/L	201867	1	01/21/2015 03:32	GC
o-Xylene	61	5.0		ug/L	201867	1	01/21/2015 03:32	GC
Styrene	BRL	5.0		ug/L	201867	1	01/21/2015 03:32	GC
Tetrachloroethene	23	5.0		ug/L	201867	1	01/21/2015 03:32	GC
Toluene	400	50		ug/L	201867	10	01/20/2015 04:35	GC
trans-1,2-Dichloroethene	BRL	5.0		ug/L	201867	1	01/21/2015 03:32	GC
trans-1,3-Dichloropropene	BRL	5.0		ug/L	201867	1	01/21/2015 03:32	GC
Trichloroethene	31	5.0		ug/L	201867	1	01/21/2015 03:32	GC
Trichlorofluoromethane	BRL	5.0		ug/L	201867	1	01/21/2015 03:32	GC
Vinyl chloride	350	40		ug/L	201867	20	01/20/2015 15:37	GC
Surr: 4-Bromofluorobenzene	94.7	70.6-123		%REC	201867	10	01/20/2015 04:35	GC
Surr: 4-Bromofluorobenzene	100	70.6-123		%REC	201867	1	01/21/2015 03:32	GC
Surr: 4-Bromofluorobenzene	93.1	70.6-123		%REC	201867	20	01/20/2015 15:37	GC
Surr: Dibromofluoromethane	106	78.7-124		%REC	201867	20	01/20/2015 15:37	GC
Surr: Dibromofluoromethane	108	78.7-124		%REC	201867	1	01/21/2015 03:32	GC
Surr: Dibromofluoromethane	106	78.7-124		%REC	201867	10	01/20/2015 04:35	GC
Surr: Toluene-d8	100	81.3-120		%REC	201867	1	01/21/2015 03:32	GC
Surr: Toluene-d8	101	81.3-120		%REC	201867	10	01/20/2015 04:35	GC
Surr: Toluene-d8	98.9	81.3-120		%REC	201867	20	01/20/2015 15:37	GC
Sulfide by SW9030B/9034			(SW9030B)					
Sulfide	BRL	2.00		mg/L	202011	1	01/21/2015 10:40	AB
GC Analysis of Gaseous Samples SOP-RSK 175			(RSK175)					
Ethane	200	9		ug/L	201992	1	01/22/2015 13:31	JM
Ethylene	570	14		ug/L	201992	2	01/22/2015 14:14	JM
Methane	4500	400		ug/L	201992	100	01/22/2015 13:56	JM
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	280	30.0		mg/L	R284281	10	01/23/2015 09:10	PF

Qualifiers:

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- BRL Below reporting limit
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- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 27-Jan-15

Client: EarthCon Consultants, Inc.	Client Sample ID: RW-2
Project Name: Apollo Smyrna	Collection Date: 1/16/2015 4:02:00 PM
Lab ID: 1501997-002	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) SW9060A								
Organic Carbon, Total	11.4	1.00		mg/L	R284158	1	01/21/2015 13:55	YS
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	201867	1	01/20/2015 14:47	GC
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	201867	1	01/20/2015 14:47	GC
1,1,2-Trichloroethane	BRL	5.0		ug/L	201867	1	01/20/2015 14:47	GC
1,1-Dichloroethane	BRL	5.0		ug/L	201867	1	01/20/2015 14:47	GC
1,1-Dichloroethene	BRL	5.0		ug/L	201867	1	01/20/2015 14:47	GC
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	201867	1	01/20/2015 14:47	GC
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	201867	1	01/20/2015 14:47	GC
1,2-Dibromoethane	BRL	5.0		ug/L	201867	1	01/20/2015 14:47	GC
1,2-Dichlorobenzene	BRL	5.0		ug/L	201867	1	01/20/2015 14:47	GC
1,2-Dichloroethane	BRL	5.0		ug/L	201867	1	01/20/2015 14:47	GC
1,2-Dichloropropane	BRL	5.0		ug/L	201867	1	01/20/2015 14:47	GC
1,3-Dichlorobenzene	BRL	5.0		ug/L	201867	1	01/20/2015 14:47	GC
1,4-Dichlorobenzene	BRL	5.0		ug/L	201867	1	01/20/2015 14:47	GC
2-Butanone	BRL	50		ug/L	201867	1	01/20/2015 14:47	GC
2-Hexanone	BRL	10		ug/L	201867	1	01/20/2015 14:47	GC
4-Methyl-2-pentanone	BRL	10		ug/L	201867	1	01/20/2015 14:47	GC
Acetone	BRL	50		ug/L	201867	1	01/20/2015 14:47	GC
Benzene	BRL	5.0		ug/L	201867	1	01/20/2015 14:47	GC
Bromodichloromethane	BRL	5.0		ug/L	201867	1	01/20/2015 14:47	GC
Bromoform	BRL	5.0		ug/L	201867	1	01/20/2015 14:47	GC
Bromomethane	BRL	5.0		ug/L	201867	1	01/20/2015 14:47	GC
Carbon disulfide	BRL	5.0		ug/L	201867	1	01/20/2015 14:47	GC
Carbon tetrachloride	BRL	5.0		ug/L	201867	1	01/20/2015 14:47	GC
Chlorobenzene	BRL	5.0		ug/L	201867	1	01/20/2015 14:47	GC
Chloroethane	BRL	10		ug/L	201867	1	01/20/2015 14:47	GC
Chloroform	BRL	5.0		ug/L	201867	1	01/20/2015 14:47	GC
Chloromethane	BRL	10		ug/L	201867	1	01/20/2015 14:47	GC
cis-1,2-Dichloroethene	BRL	5.0		ug/L	201867	1	01/20/2015 14:47	GC
cis-1,3-Dichloropropene	BRL	5.0		ug/L	201867	1	01/20/2015 14:47	GC
Cyclohexane	BRL	5.0		ug/L	201867	1	01/20/2015 14:47	GC
Dibromochloromethane	BRL	5.0		ug/L	201867	1	01/20/2015 14:47	GC
Dichlorodifluoromethane	BRL	10		ug/L	201867	1	01/20/2015 14:47	GC
Ethylbenzene	BRL	5.0		ug/L	201867	1	01/20/2015 14:47	GC
Freon-113	BRL	10		ug/L	201867	1	01/20/2015 14:47	GC
Isopropylbenzene	BRL	5.0		ug/L	201867	1	01/20/2015 14:47	GC
m,p-Xylene	BRL	5.0		ug/L	201867	1	01/20/2015 14:47	GC
Methyl acetate	BRL	5.0		ug/L	201867	1	01/20/2015 14:47	GC
Methyl tert-butyl ether	BRL	5.0		ug/L	201867	1	01/20/2015 14:47	GC

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 27-Jan-15

Client: EarthCon Consultants, Inc.	Client Sample ID: RW-2
Project Name: Apollo Smyrna	Collection Date: 1/16/2015 4:02:00 PM
Lab ID: 1501997-002	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B			(SW5030B)					
Methylcyclohexane	BRL	5.0		ug/L	201867	1	01/20/2015 14:47	GC
Methylene chloride	BRL	5.0		ug/L	201867	1	01/20/2015 14:47	GC
o-Xylene	BRL	5.0		ug/L	201867	1	01/20/2015 14:47	GC
Styrene	BRL	5.0		ug/L	201867	1	01/20/2015 14:47	GC
Tetrachloroethene	BRL	5.0		ug/L	201867	1	01/20/2015 14:47	GC
Toluene	BRL	5.0		ug/L	201867	1	01/20/2015 14:47	GC
trans-1,2-Dichloroethene	BRL	5.0		ug/L	201867	1	01/20/2015 14:47	GC
trans-1,3-Dichloropropene	BRL	5.0		ug/L	201867	1	01/20/2015 14:47	GC
Trichloroethene	BRL	5.0		ug/L	201867	1	01/20/2015 14:47	GC
Trichlorofluoromethane	BRL	5.0		ug/L	201867	1	01/20/2015 14:47	GC
Vinyl chloride	BRL	2.0		ug/L	201867	1	01/20/2015 14:47	GC
Surr: 4-Bromofluorobenzene	90.8	70.6-123		%REC	201867	1	01/20/2015 14:47	GC
Surr: Dibromofluoromethane	105	78.7-124		%REC	201867	1	01/20/2015 14:47	GC
Surr: Toluene-d8	99	81.3-120		%REC	201867	1	01/20/2015 14:47	GC
Sulfide by SW9030B/9034			(SW9030B)					
Sulfide	BRL	2.00		mg/L	202011	1	01/21/2015 10:40	AB
GC Analysis of Gaseous Samples SOP-RSK 175			(RSK175)					
Ethane	BRL	9		ug/L	201992	1	01/22/2015 13:38	JM
Ethylene	BRL	7		ug/L	201992	1	01/22/2015 13:38	JM
Methane	BRL	4		ug/L	201992	1	01/22/2015 13:38	JM
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	150	30.0		mg/L	R284281	10	01/23/2015 09:10	PF

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
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- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: EarthCon Consultants, Inc.	Client Sample ID: TRIP BLANK
Project Name: Apollo Smyrna	Collection Date: 1/17/2015
Lab ID: 1501997-003	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	201867	1	01/19/2015 19:33	GC
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	201867	1	01/19/2015 19:33	GC
1,1,2-Trichloroethane	BRL	5.0		ug/L	201867	1	01/19/2015 19:33	GC
1,1-Dichloroethane	BRL	5.0		ug/L	201867	1	01/19/2015 19:33	GC
1,1-Dichloroethene	BRL	5.0		ug/L	201867	1	01/19/2015 19:33	GC
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	201867	1	01/19/2015 19:33	GC
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	201867	1	01/19/2015 19:33	GC
1,2-Dibromoethane	BRL	5.0		ug/L	201867	1	01/19/2015 19:33	GC
1,2-Dichlorobenzene	BRL	5.0		ug/L	201867	1	01/19/2015 19:33	GC
1,2-Dichloroethane	BRL	5.0		ug/L	201867	1	01/19/2015 19:33	GC
1,2-Dichloropropane	BRL	5.0		ug/L	201867	1	01/19/2015 19:33	GC
1,3-Dichlorobenzene	BRL	5.0		ug/L	201867	1	01/19/2015 19:33	GC
1,4-Dichlorobenzene	BRL	5.0		ug/L	201867	1	01/19/2015 19:33	GC
2-Butanone	BRL	50		ug/L	201867	1	01/19/2015 19:33	GC
2-Hexanone	BRL	10		ug/L	201867	1	01/19/2015 19:33	GC
4-Methyl-2-pentanone	BRL	10		ug/L	201867	1	01/19/2015 19:33	GC
Acetone	BRL	50		ug/L	201867	1	01/19/2015 19:33	GC
Benzene	BRL	5.0		ug/L	201867	1	01/19/2015 19:33	GC
Bromodichloromethane	BRL	5.0		ug/L	201867	1	01/19/2015 19:33	GC
Bromoform	BRL	5.0		ug/L	201867	1	01/19/2015 19:33	GC
Bromomethane	BRL	5.0		ug/L	201867	1	01/19/2015 19:33	GC
Carbon disulfide	BRL	5.0		ug/L	201867	1	01/19/2015 19:33	GC
Carbon tetrachloride	BRL	5.0		ug/L	201867	1	01/19/2015 19:33	GC
Chlorobenzene	BRL	5.0		ug/L	201867	1	01/19/2015 19:33	GC
Chloroethane	BRL	10		ug/L	201867	1	01/19/2015 19:33	GC
Chloroform	BRL	5.0		ug/L	201867	1	01/19/2015 19:33	GC
Chloromethane	BRL	10		ug/L	201867	1	01/19/2015 19:33	GC
cis-1,2-Dichloroethene	BRL	5.0		ug/L	201867	1	01/19/2015 19:33	GC
cis-1,3-Dichloropropene	BRL	5.0		ug/L	201867	1	01/19/2015 19:33	GC
Cyclohexane	BRL	5.0		ug/L	201867	1	01/19/2015 19:33	GC
Dibromochloromethane	BRL	5.0		ug/L	201867	1	01/19/2015 19:33	GC
Dichlorodifluoromethane	BRL	10		ug/L	201867	1	01/19/2015 19:33	GC
Ethylbenzene	BRL	5.0		ug/L	201867	1	01/19/2015 19:33	GC
Freon-113	BRL	10		ug/L	201867	1	01/19/2015 19:33	GC
Isopropylbenzene	BRL	5.0		ug/L	201867	1	01/19/2015 19:33	GC
m,p-Xylene	BRL	5.0		ug/L	201867	1	01/19/2015 19:33	GC
Methyl acetate	BRL	5.0		ug/L	201867	1	01/19/2015 19:33	GC
Methyl tert-butyl ether	BRL	5.0		ug/L	201867	1	01/19/2015 19:33	GC
Methylcyclohexane	BRL	5.0		ug/L	201867	1	01/19/2015 19:33	GC
Methylene chloride	BRL	5.0		ug/L	201867	1	01/19/2015 19:33	GC
o-Xylene	BRL	5.0		ug/L	201867	1	01/19/2015 19:33	GC

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: EarthCon Consultants, Inc.	Client Sample ID: TRIP BLANK
Project Name: Apollo Smyrna	Collection Date: 1/17/2015
Lab ID: 1501997-003	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	201867	1	01/19/2015 19:33	GC
Tetrachloroethene	BRL	5.0		ug/L	201867	1	01/19/2015 19:33	GC
Toluene	BRL	5.0		ug/L	201867	1	01/19/2015 19:33	GC
trans-1,2-Dichloroethene	BRL	5.0		ug/L	201867	1	01/19/2015 19:33	GC
trans-1,3-Dichloropropene	BRL	5.0		ug/L	201867	1	01/19/2015 19:33	GC
Trichloroethene	BRL	5.0		ug/L	201867	1	01/19/2015 19:33	GC
Trichlorofluoromethane	BRL	5.0		ug/L	201867	1	01/19/2015 19:33	GC
Vinyl chloride	BRL	2.0		ug/L	201867	1	01/19/2015 19:33	GC
Surr: 4-Bromofluorobenzene	92.7	70.6-123		%REC	201867	1	01/19/2015 19:33	GC
Surr: Dibromofluoromethane	104	78.7-124		%REC	201867	1	01/19/2015 19:33	GC
Surr: Toluene-d8	97.7	81.3-120		%REC	201867	1	01/19/2015 19:33	GC

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Earthcon

Work Order Number 1501997

Checklist completed by [Signature] 11/17/15
Signature Date

Carrier name: FedEx UPS Courier Client US Mail Other

Shipping container/cooler in good condition? Yes No Not Present

Custody seals intact on shipping container/cooler? Yes No Not Present

Custody seals intact on sample bottles? Yes No Not Present

Container/Temp Blank temperature in compliance? (0°≤6°C)* Yes No

Cooler #1 3.4°C Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Chain of custody present? Yes No

Chain of custody signed when relinquished and received? Yes No

Chain of custody agrees with sample labels? Yes No

Samples in proper container/bottle? Yes No

Sample containers intact? Yes No

Sufficient sample volume for indicated test? Yes No

All samples received within holding time? Yes No

Was TAT marked on the COC? Yes No

Proceed with Standard TAT as per project history? Yes No Not Applicable

Water - VOA vials have zero headspace? No VOA vials submitted _____ Yes No

Water - pH acceptable upon receipt? Yes No Not Applicable

Sample Condition: Good Adjusted? _____ Other(Explain) _____
Checked by [Signature]

(For diffusive samples or AIHA lead) Is a known blank included? Yes No

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1501997

ANALYTICAL QC SUMMARY REPORT

BatchID: 201867

Sample ID: MB-201867	Client ID:	Units: ug/L	Prep Date: 01/19/2015	Run No: 283847							
Sample Type: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 201867	Analysis Date: 01/19/2015	Seq No: 6017143							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,2,4-Trichlorobenzene	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dibromoethane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,3-Dichlorobenzene	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
2-Butanone	BRL	50									
2-Hexanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	50									
Benzene	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Bromoform	BRL	5.0									
Bromomethane	BRL	5.0									
Carbon disulfide	BRL	5.0									
Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									
Chloroform	BRL	5.0									
Chloromethane	BRL	10									

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1501997

ANALYTICAL QC SUMMARY REPORT

BatchID: 201867

Sample ID: MB-201867	Client ID:	Units: ug/L	Prep Date: 01/19/2015	Run No: 283847							
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 201867	Analysis Date: 01/19/2015	Seq No: 6017143							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Freon-113	BRL	10									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	5.0									
Methyl acetate	BRL	5.0									
Methyl tert-butyl ether	BRL	5.0									
Methylcyclohexane	BRL	5.0									
Methylene chloride	BRL	5.0									
o-Xylene	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	2.0									
Surr: 4-Bromofluorobenzene	47.18	0	50.00		94.4	70.6	123				
Surr: Dibromofluoromethane	51.32	0	50.00		103	78.7	124				
Surr: Toluene-d8	48.33	0	50.00		96.7	81.3	120				

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1501997

ANALYTICAL QC SUMMARY REPORT

BatchID: 201867

Sample ID: LCS-201867	Client ID:	Units: ug/L	Prep Date: 01/19/2015	Run No: 283847							
SampleType: LCS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 201867	Analysis Date: 01/19/2015	Seq No: 6017149							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	59.52	5.0	50.00		119	64.2	137				
Benzene	53.22	5.0	50.00		106	72.8	128				
Chlorobenzene	48.91	5.0	50.00		97.8	72.3	126				
Toluene	54.39	5.0	50.00		109	74.9	127				
Trichloroethene	56.14	5.0	50.00		112	70.5	134				
Surr: 4-Bromofluorobenzene	46.23	0	50.00		92.5	70.6	123				
Surr: Dibromofluoromethane	51.41	0	50.00		103	78.7	124				
Surr: Toluene-d8	49.40	0	50.00		98.8	81.3	120				

Sample ID: 1501991-003AMS	Client ID:	Units: ug/L	Prep Date: 01/19/2015	Run No: 283968							
SampleType: MS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 201867	Analysis Date: 01/20/2015	Seq No: 6020549							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	73.90	5.0	50.00		148	60.5	156				
Benzene	60.16	5.0	50.00		120	70	135				
Chlorobenzene	55.10	5.0	50.00		110	70.5	132				
Toluene	61.59	5.0	50.00		123	70.5	137				
Trichloroethene	65.48	5.0	50.00		131	71.8	139				
Surr: 4-Bromofluorobenzene	45.52	0	50.00		91.0	70.6	123				
Surr: Dibromofluoromethane	52.13	0	50.00		104	78.7	124				
Surr: Toluene-d8	48.88	0	50.00		97.8	81.3	120				

Sample ID: 1501991-003AMSD	Client ID:	Units: ug/L	Prep Date: 01/19/2015	Run No: 283968							
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 201867	Analysis Date: 01/20/2015	Seq No: 6020550							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	73.55	5.0	50.00		147	60.5	156	73.90	0.475	20	
Benzene	60.34	5.0	50.00		121	70	135	60.16	0.299	20	

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: EarthCon Consultants, Inc.
 Project Name: Apollo Smyrna
 Workorder: 1501997

ANALYTICAL QC SUMMARY REPORT

BatchID: 201867

Sample ID: 1501991-003AMSD	Client ID:	Units: ug/L	Prep Date: 01/19/2015	Run No: 283968							
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 201867	Analysis Date: 01/20/2015	Seq No: 6020550							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chlorobenzene	54.92	5.0	50.00		110	70.5	132	55.10	0.327	20	
Toluene	62.41	5.0	50.00		125	70.5	137	61.59	1.32	20	
Trichloroethene	65.43	5.0	50.00		131	71.8	139	65.48	0.076	20	
Surr: 4-Bromofluorobenzene	46.73	0	50.00		93.5	70.6	123	45.52	0	0	
Surr: Dibromofluoromethane	51.30	0	50.00		103	78.7	124	52.13	0	0	
Surr: Toluene-d8	49.50	0	50.00		99.0	81.3	120	48.88	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1501997

ANALYTICAL QC SUMMARY REPORT

BatchID: 201992

Sample ID: MB-201992	Client ID:	Units: ug/L	Prep Date: 01/21/2015	Run No: 284163							
SampleType: MBLK	TestCode: GC Analysis of Gaseous Samples SOP-RSK 175	BatchID: 201992	Analysis Date: 01/22/2015	Seq No: 6024893							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethane	BRL	9									
Ethylene	BRL	7									
Methane	BRL	4									

Sample ID: LCS-201992	Client ID:	Units: ug/L	Prep Date: 01/21/2015	Run No: 284163							
SampleType: LCS	TestCode: GC Analysis of Gaseous Samples SOP-RSK 175	BatchID: 201992	Analysis Date: 01/22/2015	Seq No: 6024894							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethane	101.1	9	200.0		50.6	41.2	115				
Ethylene	68.45	7	200.0		34.2	26.5	115				
Methane	116.2	4	200.0		58.1	45.1	115				

Sample ID: LCSD-201992	Client ID:	Units: ug/L	Prep Date: 01/21/2015	Run No: 284163							
SampleType: LCSD	TestCode: GC Analysis of Gaseous Samples SOP-RSK 175	BatchID: 201992	Analysis Date: 01/22/2015	Seq No: 6024896							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethane	105.0	9	200.0		52.5	41.2	115	101.1	3.73	20	
Ethylene	71.05	7	200.0		35.5	26.5	115	68.45	3.73	20	
Methane	122.6	4	200.0		61.3	45.1	115	116.2	5.38	20	

Sample ID: 1501997-002BMS	Client ID: RW-2	Units: ug/L	Prep Date: 01/21/2015	Run No: 284163							
SampleType: MS	TestCode: GC Analysis of Gaseous Samples SOP-RSK 175	BatchID: 201992	Analysis Date: 01/22/2015	Seq No: 6024915							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethane	103.8	9	200.0		51.9	40.5	115				
Ethylene	70.52	7	200.0		35.3	25.1	115				
Methane	119.1	4	200.0		59.6	40.4	115				

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
BRL	Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S Spike Recovery outside limits due to matrix	

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1501997

ANALYTICAL QC SUMMARY REPORT

BatchID: 201992

Sample ID: 1501G37-002BMS	Client ID:	Units: ug/L	Prep Date: 01/21/2015	Run No: 284163							
SampleType: MS	TestCode: GC Analysis of Gaseous Samples SOP-RSK 175	BatchID: 201992	Analysis Date: 01/22/2015	Seq No: 6024918							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethane	106.6	9	200.0		53.3	40.5	115				
Ethylene	70.97	7	200.0		35.5	25.1	115				
Methane	130.3	4	200.0	5.957	62.2	40.4	115				

Sample ID: 1501997-002BMSD	Client ID: RW-2	Units: ug/L	Prep Date: 01/21/2015	Run No: 284163							
SampleType: MSD	TestCode: GC Analysis of Gaseous Samples SOP-RSK 175	BatchID: 201992	Analysis Date: 01/22/2015	Seq No: 6024916							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethane	107.5	9	200.0		53.7	40.5	115	103.8	3.54	20	
Ethylene	73.25	7	200.0		36.6	25.1	115	70.52	3.79	20	
Methane	123.7	4	200.0		61.9	40.4	115	119.1	3.77	20	

Sample ID: 1501G37-002BMSD	Client ID:	Units: ug/L	Prep Date: 01/21/2015	Run No: 284163							
SampleType: MSD	TestCode: GC Analysis of Gaseous Samples SOP-RSK 175	BatchID: 201992	Analysis Date: 01/22/2015	Seq No: 6024919							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethane	109.0	9	200.0		54.5	40.5	115	106.6	2.16	20	
Ethylene	72.70	7	200.0		36.4	25.1	115	70.97	2.42	20	
Methane	131.6	4	200.0	5.957	62.8	40.4	115	130.3	0.943	20	

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1501997

ANALYTICAL QC SUMMARY REPORT

BatchID: 202011

Sample ID: MB-202011	Client ID:	Units: mg/L	Prep Date: 01/21/2015	Run No: 284087							
SampleType: MBLK	TestCode: Sulfide by SW9030B/9034	BatchID: 202011	Analysis Date: 01/21/2015	Seq No: 6022771							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Sulfide BRL 2.00

Sample ID: LCS-202011	Client ID:	Units: mg/L	Prep Date: 01/21/2015	Run No: 284087							
SampleType: LCS	TestCode: Sulfide by SW9030B/9034	BatchID: 202011	Analysis Date: 01/21/2015	Seq No: 6022772							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Sulfide 336.0 2.00 336.0 100 40 120

Sample ID: 1501A83-001DMS	Client ID:	Units: mg/L	Prep Date: 01/21/2015	Run No: 284087							
SampleType: MS	TestCode: Sulfide by SW9030B/9034	BatchID: 202011	Analysis Date: 01/21/2015	Seq No: 6022790							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Sulfide 16.20 2.00 16.80 96.4 73.7 120

Sample ID: 1501A83-001DMSD	Client ID:	Units: mg/L	Prep Date: 01/21/2015	Run No: 284087							
SampleType: MSD	TestCode: Sulfide by SW9030B/9034	BatchID: 202011	Analysis Date: 01/21/2015	Seq No: 6022791							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Sulfide 16.60 2.00 16.80 98.8 73.7 120 16.20 2.44 20

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1501997

ANALYTICAL QC SUMMARY REPORT

BatchID: R284158

Sample ID: MB-R284158	Client ID:	Units: mg/L	Prep Date:	Run No: 284158							
SampleType: MBLK	TestCode: Total Organic Carbon (TOC) SW9060A	BatchID: R284158	Analysis Date: 01/21/2015	Seq No: 6024462							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Organic Carbon, Total

BRL 1.00

Sample ID: LCS-R284158	Client ID:	Units: mg/L	Prep Date:	Run No: 284158							
SampleType: LCS	TestCode: Total Organic Carbon (TOC) SW9060A	BatchID: R284158	Analysis Date: 01/21/2015	Seq No: 6024461							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Organic Carbon, Total

25.49 1.00 25.00 102 90 110

Sample ID: 1501997-002CMS	Client ID: RW-2	Units: mg/L	Prep Date:	Run No: 284158							
SampleType: MS	TestCode: Total Organic Carbon (TOC) SW9060A	BatchID: R284158	Analysis Date: 01/21/2015	Seq No: 6024467							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Organic Carbon, Total

38.42 1.00 25.00 11.42 108 80 120

Sample ID: 1501997-002CMSD	Client ID: RW-2	Units: mg/L	Prep Date:	Run No: 284158							
SampleType: MSD	TestCode: Total Organic Carbon (TOC) SW9060A	BatchID: R284158	Analysis Date: 01/21/2015	Seq No: 6024468							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Organic Carbon, Total

34.96 1.00 25.00 11.42 94.2 80 120 38.42 9.43 20

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: EarthCon Consultants, Inc.
 Project Name: Apollo Smyrna
 Workorder: 1501997

ANALYTICAL QC SUMMARY REPORT

BatchID: R284281

Sample ID: MB-R284281	Client ID:	Units: mg/L	Prep Date:	Run No: 284281							
SampleType: MBLK	TestCode: Alkalinity by SM2320B	BatchID: R284281	Analysis Date: 01/23/2015	Seq No: 6026885							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Alkalinity, Total (As CaCO3)

BRL 3.00

Sample ID: LCS-R284281	Client ID:	Units: mg/L	Prep Date:	Run No: 284281							
SampleType: LCS	TestCode: Alkalinity by SM2320B	BatchID: R284281	Analysis Date: 01/23/2015	Seq No: 6026886							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Alkalinity, Total (As CaCO3)

128.0 3.00 125.0 102 75 125

Sample ID: 1501C12-001EDUP	Client ID:	Units: mg/L	Prep Date:	Run No: 284281							
SampleType: DUP	TestCode: Alkalinity by SM2320B	BatchID: R284281	Analysis Date: 01/23/2015	Seq No: 6026896							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Alkalinity, Total (As CaCO3)

129.0 3.00 128.0 0.778 30

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
	BRL Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
	J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
	Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

April 17, 2015

Kristen Rivera
EarthCon Consultants, Inc.
1880 West Oak Parkway
Marietta GA 30062

TEL: (770) 973-2100
FAX: (770) 973-7395

RE: Apollo Smyrna

Dear Kristen Rivera:

Order No: 1504545

Analytical Environmental Services, Inc. received 4 samples on 4/8/2015 7:42:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/14-06/30/15.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/15.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Chantelle Kanhai
Project Manager

Client: EarthCon Consultants, Inc.

Project: Apollo Smyrna

Lab ID: 1504545

Case Narrative

The samples were analyzed for Methane, Ethane and Ethene.

Analytical Environmental Services, Inc

Date: 17-Apr-15

Client: EarthCon Consultants, Inc.	Client Sample ID: MW-2
Project Name: Apollo Smyrna	Collection Date: 4/7/2015 3:40:00 PM
Lab ID: 1504545-001	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) SW9060A								
Organic Carbon, Total	BRL	1.00		mg/L	R289683	1	04/10/2015 12:55	YS
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	205787	1	04/09/2015 15:08	CH
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	205787	1	04/09/2015 15:08	CH
1,1,2-Trichloroethane	BRL	5.0		ug/L	205787	1	04/09/2015 15:08	CH
1,1-Dichloroethane	BRL	5.0		ug/L	205787	1	04/09/2015 15:08	CH
1,1-Dichloroethene	BRL	5.0		ug/L	205787	1	04/09/2015 15:08	CH
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	205787	1	04/09/2015 15:08	CH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	205787	1	04/09/2015 15:08	CH
1,2-Dibromoethane	BRL	5.0		ug/L	205787	1	04/09/2015 15:08	CH
1,2-Dichlorobenzene	BRL	5.0		ug/L	205787	1	04/09/2015 15:08	CH
1,2-Dichloroethane	BRL	5.0		ug/L	205787	1	04/09/2015 15:08	CH
1,2-Dichloropropane	BRL	5.0		ug/L	205787	1	04/09/2015 15:08	CH
1,3-Dichlorobenzene	BRL	5.0		ug/L	205787	1	04/09/2015 15:08	CH
1,4-Dichlorobenzene	BRL	5.0		ug/L	205787	1	04/09/2015 15:08	CH
2-Butanone	BRL	50		ug/L	205787	1	04/09/2015 15:08	CH
2-Hexanone	BRL	10		ug/L	205787	1	04/09/2015 15:08	CH
4-Methyl-2-pentanone	BRL	10		ug/L	205787	1	04/09/2015 15:08	CH
Acetone	BRL	50		ug/L	205787	1	04/09/2015 15:08	CH
Benzene	BRL	5.0		ug/L	205787	1	04/09/2015 15:08	CH
Bromodichloromethane	BRL	5.0		ug/L	205787	1	04/09/2015 15:08	CH
Bromoform	BRL	5.0		ug/L	205787	1	04/09/2015 15:08	CH
Bromomethane	BRL	5.0		ug/L	205787	1	04/09/2015 15:08	CH
Carbon disulfide	BRL	5.0		ug/L	205787	1	04/09/2015 15:08	CH
Carbon tetrachloride	BRL	5.0		ug/L	205787	1	04/09/2015 15:08	CH
Chlorobenzene	BRL	5.0		ug/L	205787	1	04/09/2015 15:08	CH
Chloroethane	BRL	10		ug/L	205787	1	04/09/2015 15:08	CH
Chloroform	BRL	5.0		ug/L	205787	1	04/09/2015 15:08	CH
Chloromethane	BRL	10		ug/L	205787	1	04/09/2015 15:08	CH
cis-1,2-Dichloroethene	BRL	5.0		ug/L	205787	1	04/09/2015 15:08	CH
cis-1,3-Dichloropropene	BRL	5.0		ug/L	205787	1	04/09/2015 15:08	CH
Cyclohexane	BRL	5.0		ug/L	205787	1	04/09/2015 15:08	CH
Dibromochloromethane	BRL	5.0		ug/L	205787	1	04/09/2015 15:08	CH
Dichlorodifluoromethane	BRL	10		ug/L	205787	1	04/09/2015 15:08	CH
Ethylbenzene	BRL	5.0		ug/L	205787	1	04/09/2015 15:08	CH
Freon-113	BRL	10		ug/L	205787	1	04/09/2015 15:08	CH
Isopropylbenzene	BRL	5.0		ug/L	205787	1	04/09/2015 15:08	CH
m,p-Xylene	BRL	5.0		ug/L	205787	1	04/09/2015 15:08	CH
Methyl acetate	BRL	5.0		ug/L	205787	1	04/09/2015 15:08	CH
Methyl tert-butyl ether	BRL	5.0		ug/L	205787	1	04/09/2015 15:08	CH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: EarthCon Consultants, Inc.	Client Sample ID: MW-2
Project Name: Apollo Smyrna	Collection Date: 4/7/2015 3:40:00 PM
Lab ID: 1504545-001	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					(SW5030B)			
Methylcyclohexane	BRL	5.0		ug/L	205787	1	04/09/2015 15:08	CH
Methylene chloride	BRL	5.0		ug/L	205787	1	04/09/2015 15:08	CH
o-Xylene	BRL	5.0		ug/L	205787	1	04/09/2015 15:08	CH
Styrene	BRL	5.0		ug/L	205787	1	04/09/2015 15:08	CH
Tetrachloroethene	BRL	5.0		ug/L	205787	1	04/09/2015 15:08	CH
Toluene	BRL	5.0		ug/L	205787	1	04/09/2015 15:08	CH
trans-1,2-Dichloroethene	BRL	5.0		ug/L	205787	1	04/09/2015 15:08	CH
trans-1,3-Dichloropropene	BRL	5.0		ug/L	205787	1	04/09/2015 15:08	CH
Trichloroethene	BRL	5.0		ug/L	205787	1	04/09/2015 15:08	CH
Trichlorofluoromethane	BRL	5.0		ug/L	205787	1	04/09/2015 15:08	CH
Vinyl chloride	BRL	2.0		ug/L	205787	1	04/09/2015 15:08	CH
Surr: 4-Bromofluorobenzene	79.8	70.6-123		%REC	205787	1	04/09/2015 15:08	CH
Surr: Dibromofluoromethane	115	78.7-124		%REC	205787	1	04/09/2015 15:08	CH
Surr: Toluene-d8	102	81.3-120		%REC	205787	1	04/09/2015 15:08	CH
Sulfide by SM4500-S2-F								
Sulfide	BRL	1.00		mg/L	R289677	1	04/13/2015 12:35	PF
ION SCAN SW9056A								
Chloride	3.2	1.0		mg/L	R289689	1	04/08/2015 10:37	JW
Nitrate	0.67	0.25		mg/L	R289689	1	04/08/2015 10:37	JW
Sulfate	9.5	1.0		mg/L	R289689	1	04/08/2015 10:37	JW
GC Analysis of Gaseous Samples SOP-RSK 175					(RSK175)			
Ethane	BRL	9		ug/L	205793	1	04/10/2015 12:22	AB
Ethylene	BRL	7		ug/L	205793	1	04/10/2015 12:22	AB
Methane	BRL	4		ug/L	205793	1	04/10/2015 12:22	AB
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	21.0	3.00		mg/L	R289924	1	04/14/2015 11:40	PF

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 17-Apr-15

Client: EarthCon Consultants, Inc.	Client Sample ID: MW-10
Project Name: Apollo Smyrna	Collection Date: 4/7/2015 3:00:00 PM
Lab ID: 1504545-002	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) SW9060A								
Organic Carbon, Total	BRL	1.00		mg/L	R289683	1	04/10/2015 13:17	YS
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	205787	1	04/09/2015 15:32	CH
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	205787	1	04/09/2015 15:32	CH
1,1,2-Trichloroethane	BRL	5.0		ug/L	205787	1	04/09/2015 15:32	CH
1,1-Dichloroethane	BRL	5.0		ug/L	205787	1	04/09/2015 15:32	CH
1,1-Dichloroethene	BRL	5.0		ug/L	205787	1	04/09/2015 15:32	CH
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	205787	1	04/09/2015 15:32	CH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	205787	1	04/09/2015 15:32	CH
1,2-Dibromoethane	BRL	5.0		ug/L	205787	1	04/09/2015 15:32	CH
1,2-Dichlorobenzene	BRL	5.0		ug/L	205787	1	04/09/2015 15:32	CH
1,2-Dichloroethane	BRL	5.0		ug/L	205787	1	04/09/2015 15:32	CH
1,2-Dichloropropane	BRL	5.0		ug/L	205787	1	04/09/2015 15:32	CH
1,3-Dichlorobenzene	BRL	5.0		ug/L	205787	1	04/09/2015 15:32	CH
1,4-Dichlorobenzene	BRL	5.0		ug/L	205787	1	04/09/2015 15:32	CH
2-Butanone	BRL	50		ug/L	205787	1	04/09/2015 15:32	CH
2-Hexanone	BRL	10		ug/L	205787	1	04/09/2015 15:32	CH
4-Methyl-2-pentanone	BRL	10		ug/L	205787	1	04/09/2015 15:32	CH
Acetone	BRL	50		ug/L	205787	1	04/09/2015 15:32	CH
Benzene	BRL	5.0		ug/L	205787	1	04/09/2015 15:32	CH
Bromodichloromethane	BRL	5.0		ug/L	205787	1	04/09/2015 15:32	CH
Bromoform	BRL	5.0		ug/L	205787	1	04/09/2015 15:32	CH
Bromomethane	BRL	5.0		ug/L	205787	1	04/09/2015 15:32	CH
Carbon disulfide	BRL	5.0		ug/L	205787	1	04/09/2015 15:32	CH
Carbon tetrachloride	BRL	5.0		ug/L	205787	1	04/09/2015 15:32	CH
Chlorobenzene	BRL	5.0		ug/L	205787	1	04/09/2015 15:32	CH
Chloroethane	BRL	10		ug/L	205787	1	04/09/2015 15:32	CH
Chloroform	BRL	5.0		ug/L	205787	1	04/09/2015 15:32	CH
Chloromethane	BRL	10		ug/L	205787	1	04/09/2015 15:32	CH
cis-1,2-Dichloroethene	BRL	5.0		ug/L	205787	1	04/09/2015 15:32	CH
cis-1,3-Dichloropropene	BRL	5.0		ug/L	205787	1	04/09/2015 15:32	CH
Cyclohexane	BRL	5.0		ug/L	205787	1	04/09/2015 15:32	CH
Dibromochloromethane	BRL	5.0		ug/L	205787	1	04/09/2015 15:32	CH
Dichlorodifluoromethane	BRL	10		ug/L	205787	1	04/09/2015 15:32	CH
Ethylbenzene	BRL	5.0		ug/L	205787	1	04/09/2015 15:32	CH
Freon-113	BRL	10		ug/L	205787	1	04/09/2015 15:32	CH
Isopropylbenzene	BRL	5.0		ug/L	205787	1	04/09/2015 15:32	CH
m,p-Xylene	BRL	5.0		ug/L	205787	1	04/09/2015 15:32	CH
Methyl acetate	BRL	5.0		ug/L	205787	1	04/09/2015 15:32	CH
Methyl tert-butyl ether	BRL	5.0		ug/L	205787	1	04/09/2015 15:32	CH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: EarthCon Consultants, Inc.	Client Sample ID: MW-10
Project Name: Apollo Smyrna	Collection Date: 4/7/2015 3:00:00 PM
Lab ID: 1504545-002	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B			(SW5030B)					
Methylcyclohexane	BRL	5.0		ug/L	205787	1	04/09/2015 15:32	CH
Methylene chloride	BRL	5.0		ug/L	205787	1	04/09/2015 15:32	CH
o-Xylene	BRL	5.0		ug/L	205787	1	04/09/2015 15:32	CH
Styrene	BRL	5.0		ug/L	205787	1	04/09/2015 15:32	CH
Tetrachloroethene	BRL	5.0		ug/L	205787	1	04/09/2015 15:32	CH
Toluene	BRL	5.0		ug/L	205787	1	04/09/2015 15:32	CH
trans-1,2-Dichloroethene	BRL	5.0		ug/L	205787	1	04/09/2015 15:32	CH
trans-1,3-Dichloropropene	BRL	5.0		ug/L	205787	1	04/09/2015 15:32	CH
Trichloroethene	BRL	5.0		ug/L	205787	1	04/09/2015 15:32	CH
Trichlorofluoromethane	BRL	5.0		ug/L	205787	1	04/09/2015 15:32	CH
Vinyl chloride	BRL	2.0		ug/L	205787	1	04/09/2015 15:32	CH
Surr: 4-Bromofluorobenzene	75.3	70.6-123		%REC	205787	1	04/09/2015 15:32	CH
Surr: Dibromofluoromethane	118	78.7-124		%REC	205787	1	04/09/2015 15:32	CH
Surr: Toluene-d8	103	81.3-120		%REC	205787	1	04/09/2015 15:32	CH
Sulfide by SM4500-S2-F								
Sulfide	BRL	1.00		mg/L	R289677	1	04/13/2015 12:35	PF
ION SCAN SW9056A								
Chloride	7.5	1.0		mg/L	R289689	1	04/08/2015 10:51	JW
Nitrate	BRL	0.25		mg/L	R289689	1	04/08/2015 10:51	JW
Sulfate	1.4	1.0		mg/L	R289689	1	04/08/2015 10:51	JW
GC Analysis of Gaseous Samples SOP-RSK 175			(RSK175)					
Ethane	BRL	9		ug/L	205793	1	04/10/2015 14:12	AB
Ethylene	BRL	7		ug/L	205793	1	04/10/2015 14:12	AB
Methane	1500	40		ug/L	205793	10	04/10/2015 14:19	AB
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	39.0	3.00		mg/L	R289924	1	04/14/2015 11:40	PF

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 17-Apr-15

Client: EarthCon Consultants, Inc.	Client Sample ID: MW-12
Project Name: Apollo Smyrna	Collection Date: 4/7/2015 7:15:00 PM
Lab ID: 1504545-003	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) SW9060A								
Organic Carbon, Total	BRL	1.00		mg/L	R289683	1	04/10/2015 13:40	YS
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	205787	1	04/09/2015 15:56	CH
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	205787	1	04/09/2015 15:56	CH
1,1,2-Trichloroethane	BRL	5.0		ug/L	205787	1	04/09/2015 15:56	CH
1,1-Dichloroethane	BRL	5.0		ug/L	205787	1	04/09/2015 15:56	CH
1,1-Dichloroethene	BRL	5.0		ug/L	205787	1	04/09/2015 15:56	CH
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	205787	1	04/09/2015 15:56	CH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	205787	1	04/09/2015 15:56	CH
1,2-Dibromoethane	BRL	5.0		ug/L	205787	1	04/09/2015 15:56	CH
1,2-Dichlorobenzene	BRL	5.0		ug/L	205787	1	04/09/2015 15:56	CH
1,2-Dichloroethane	BRL	5.0		ug/L	205787	1	04/09/2015 15:56	CH
1,2-Dichloropropane	BRL	5.0		ug/L	205787	1	04/09/2015 15:56	CH
1,3-Dichlorobenzene	BRL	5.0		ug/L	205787	1	04/09/2015 15:56	CH
1,4-Dichlorobenzene	BRL	5.0		ug/L	205787	1	04/09/2015 15:56	CH
2-Butanone	BRL	50		ug/L	205787	1	04/09/2015 15:56	CH
2-Hexanone	BRL	10		ug/L	205787	1	04/09/2015 15:56	CH
4-Methyl-2-pentanone	BRL	10		ug/L	205787	1	04/09/2015 15:56	CH
Acetone	BRL	50		ug/L	205787	1	04/09/2015 15:56	CH
Benzene	BRL	5.0		ug/L	205787	1	04/09/2015 15:56	CH
Bromodichloromethane	BRL	5.0		ug/L	205787	1	04/09/2015 15:56	CH
Bromoform	BRL	5.0		ug/L	205787	1	04/09/2015 15:56	CH
Bromomethane	BRL	5.0		ug/L	205787	1	04/09/2015 15:56	CH
Carbon disulfide	BRL	5.0		ug/L	205787	1	04/09/2015 15:56	CH
Carbon tetrachloride	BRL	5.0		ug/L	205787	1	04/09/2015 15:56	CH
Chlorobenzene	BRL	5.0		ug/L	205787	1	04/09/2015 15:56	CH
Chloroethane	BRL	10		ug/L	205787	1	04/09/2015 15:56	CH
Chloroform	BRL	5.0		ug/L	205787	1	04/09/2015 15:56	CH
Chloromethane	BRL	10		ug/L	205787	1	04/09/2015 15:56	CH
cis-1,2-Dichloroethene	BRL	5.0		ug/L	205787	1	04/09/2015 15:56	CH
cis-1,3-Dichloropropene	BRL	5.0		ug/L	205787	1	04/09/2015 15:56	CH
Cyclohexane	BRL	5.0		ug/L	205787	1	04/09/2015 15:56	CH
Dibromochloromethane	BRL	5.0		ug/L	205787	1	04/09/2015 15:56	CH
Dichlorodifluoromethane	BRL	10		ug/L	205787	1	04/09/2015 15:56	CH
Ethylbenzene	BRL	5.0		ug/L	205787	1	04/09/2015 15:56	CH
Freon-113	BRL	10		ug/L	205787	1	04/09/2015 15:56	CH
Isopropylbenzene	BRL	5.0		ug/L	205787	1	04/09/2015 15:56	CH
m,p-Xylene	BRL	5.0		ug/L	205787	1	04/09/2015 15:56	CH
Methyl acetate	BRL	5.0		ug/L	205787	1	04/09/2015 15:56	CH
Methyl tert-butyl ether	BRL	5.0		ug/L	205787	1	04/09/2015 15:56	CH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: EarthCon Consultants, Inc.	Client Sample ID: MW-12
Project Name: Apollo Smyrna	Collection Date: 4/7/2015 7:15:00 PM
Lab ID: 1504545-003	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B			(SW5030B)					
Methylcyclohexane	BRL	5.0		ug/L	205787	1	04/09/2015 15:56	CH
Methylene chloride	BRL	5.0		ug/L	205787	1	04/09/2015 15:56	CH
o-Xylene	BRL	5.0		ug/L	205787	1	04/09/2015 15:56	CH
Styrene	BRL	5.0		ug/L	205787	1	04/09/2015 15:56	CH
Tetrachloroethene	BRL	5.0		ug/L	205787	1	04/09/2015 15:56	CH
Toluene	BRL	5.0		ug/L	205787	1	04/09/2015 15:56	CH
trans-1,2-Dichloroethene	BRL	5.0		ug/L	205787	1	04/09/2015 15:56	CH
trans-1,3-Dichloropropene	BRL	5.0		ug/L	205787	1	04/09/2015 15:56	CH
Trichloroethene	BRL	5.0		ug/L	205787	1	04/09/2015 15:56	CH
Trichlorofluoromethane	BRL	5.0		ug/L	205787	1	04/09/2015 15:56	CH
Vinyl chloride	BRL	2.0		ug/L	205787	1	04/09/2015 15:56	CH
Surr: 4-Bromofluorobenzene	82.3	70.6-123		%REC	205787	1	04/09/2015 15:56	CH
Surr: Dibromofluoromethane	111	78.7-124		%REC	205787	1	04/09/2015 15:56	CH
Surr: Toluene-d8	99.1	81.3-120		%REC	205787	1	04/09/2015 15:56	CH
Sulfide by SM4500-S2-F								
Sulfide	BRL	1.00		mg/L	R289677	1	04/13/2015 12:35	PF
ION SCAN SW9056A								
Chloride	6.5	1.0		mg/L	R289689	1	04/08/2015 11:06	JW
Nitrate	0.43	0.25		mg/L	R289689	1	04/08/2015 11:06	JW
Sulfate	BRL	1.0		mg/L	R289689	1	04/08/2015 11:06	JW
GC Analysis of Gaseous Samples SOP-RSK 175			(RSK175)					
Ethane	BRL	9		ug/L	205793	1	04/10/2015 12:41	AB
Ethylene	BRL	7		ug/L	205793	1	04/10/2015 12:41	AB
Methane	BRL	4		ug/L	205793	1	04/10/2015 12:41	AB
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	15.0	3.00		mg/L	R289924	1	04/14/2015 11:40	PF

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 17-Apr-15

Client: EarthCon Consultants, Inc.	Client Sample ID: MW-11
Project Name: Apollo Smyrna	Collection Date: 4/7/2015 7:05:00 PM
Lab ID: 1504545-004	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) SW9060A								
Organic Carbon, Total	1.14	1.00		mg/L	R289683	1	04/10/2015 14:03	YS
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	205787	1	04/09/2015 16:19	CH
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	205787	1	04/09/2015 16:19	CH
1,1,2-Trichloroethane	BRL	5.0		ug/L	205787	1	04/09/2015 16:19	CH
1,1-Dichloroethane	BRL	5.0		ug/L	205787	1	04/09/2015 16:19	CH
1,1-Dichloroethene	BRL	5.0		ug/L	205787	1	04/09/2015 16:19	CH
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	205787	1	04/09/2015 16:19	CH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	205787	1	04/09/2015 16:19	CH
1,2-Dibromoethane	BRL	5.0		ug/L	205787	1	04/09/2015 16:19	CH
1,2-Dichlorobenzene	BRL	5.0		ug/L	205787	1	04/09/2015 16:19	CH
1,2-Dichloroethane	BRL	5.0		ug/L	205787	1	04/09/2015 16:19	CH
1,2-Dichloropropane	BRL	5.0		ug/L	205787	1	04/09/2015 16:19	CH
1,3-Dichlorobenzene	BRL	5.0		ug/L	205787	1	04/09/2015 16:19	CH
1,4-Dichlorobenzene	BRL	5.0		ug/L	205787	1	04/09/2015 16:19	CH
2-Butanone	BRL	50		ug/L	205787	1	04/09/2015 16:19	CH
2-Hexanone	BRL	10		ug/L	205787	1	04/09/2015 16:19	CH
4-Methyl-2-pentanone	BRL	10		ug/L	205787	1	04/09/2015 16:19	CH
Acetone	BRL	50		ug/L	205787	1	04/09/2015 16:19	CH
Benzene	BRL	5.0		ug/L	205787	1	04/09/2015 16:19	CH
Bromodichloromethane	BRL	5.0		ug/L	205787	1	04/09/2015 16:19	CH
Bromoform	BRL	5.0		ug/L	205787	1	04/09/2015 16:19	CH
Bromomethane	BRL	5.0		ug/L	205787	1	04/09/2015 16:19	CH
Carbon disulfide	BRL	5.0		ug/L	205787	1	04/09/2015 16:19	CH
Carbon tetrachloride	BRL	5.0		ug/L	205787	1	04/09/2015 16:19	CH
Chlorobenzene	BRL	5.0		ug/L	205787	1	04/09/2015 16:19	CH
Chloroethane	BRL	10		ug/L	205787	1	04/09/2015 16:19	CH
Chloroform	BRL	5.0		ug/L	205787	1	04/09/2015 16:19	CH
Chloromethane	BRL	10		ug/L	205787	1	04/09/2015 16:19	CH
cis-1,2-Dichloroethene	BRL	5.0		ug/L	205787	1	04/09/2015 16:19	CH
cis-1,3-Dichloropropene	BRL	5.0		ug/L	205787	1	04/09/2015 16:19	CH
Cyclohexane	BRL	5.0		ug/L	205787	1	04/09/2015 16:19	CH
Dibromochloromethane	BRL	5.0		ug/L	205787	1	04/09/2015 16:19	CH
Dichlorodifluoromethane	BRL	10		ug/L	205787	1	04/09/2015 16:19	CH
Ethylbenzene	BRL	5.0		ug/L	205787	1	04/09/2015 16:19	CH
Freon-113	BRL	10		ug/L	205787	1	04/09/2015 16:19	CH
Isopropylbenzene	BRL	5.0		ug/L	205787	1	04/09/2015 16:19	CH
m,p-Xylene	BRL	5.0		ug/L	205787	1	04/09/2015 16:19	CH
Methyl acetate	BRL	5.0		ug/L	205787	1	04/09/2015 16:19	CH
Methyl tert-butyl ether	BRL	5.0		ug/L	205787	1	04/09/2015 16:19	CH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: EarthCon Consultants, Inc.	Client Sample ID: MW-11
Project Name: Apollo Smyrna	Collection Date: 4/7/2015 7:05:00 PM
Lab ID: 1504545-004	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					(SW5030B)			
Methylcyclohexane	BRL	5.0		ug/L	205787	1	04/09/2015 16:19	CH
Methylene chloride	BRL	5.0		ug/L	205787	1	04/09/2015 16:19	CH
o-Xylene	BRL	5.0		ug/L	205787	1	04/09/2015 16:19	CH
Styrene	BRL	5.0		ug/L	205787	1	04/09/2015 16:19	CH
Tetrachloroethene	BRL	5.0		ug/L	205787	1	04/09/2015 16:19	CH
Toluene	BRL	5.0		ug/L	205787	1	04/09/2015 16:19	CH
trans-1,2-Dichloroethene	BRL	5.0		ug/L	205787	1	04/09/2015 16:19	CH
trans-1,3-Dichloropropene	BRL	5.0		ug/L	205787	1	04/09/2015 16:19	CH
Trichloroethene	BRL	5.0		ug/L	205787	1	04/09/2015 16:19	CH
Trichlorofluoromethane	BRL	5.0		ug/L	205787	1	04/09/2015 16:19	CH
Vinyl chloride	BRL	2.0		ug/L	205787	1	04/09/2015 16:19	CH
Surr: 4-Bromofluorobenzene	78.8	70.6-123		%REC	205787	1	04/09/2015 16:19	CH
Surr: Dibromofluoromethane	115	78.7-124		%REC	205787	1	04/09/2015 16:19	CH
Surr: Toluene-d8	100	81.3-120		%REC	205787	1	04/09/2015 16:19	CH
Sulfide by SM4500-S2-F								
Sulfide	BRL	1.00		mg/L	R289677	1	04/13/2015 12:35	PF
ION SCAN SW9056A								
Chloride	8.9	1.0		mg/L	R289689	1	04/08/2015 11:21	JW
Nitrate	BRL	0.25		mg/L	R289689	1	04/08/2015 11:21	JW
Sulfate	7.9	1.0		mg/L	R289689	1	04/08/2015 11:21	JW
GC Analysis of Gaseous Samples SOP-RSK 175					(RSK175)			
Ethane	BRL	9		ug/L	205793	1	04/10/2015 12:46	AB
Ethylene	BRL	7		ug/L	205793	1	04/10/2015 12:46	AB
Methane	2900	100		ug/L	205793	25	04/10/2015 13:26	AB
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	37.0	3.00		mg/L	R289924	1	04/14/2015 11:40	PF

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Earth Con Consultants

Work Order Number 1504545

Checklist completed by Jouana Pacurar 4/8/15
Signature Date

Carrier name: FedEx UPS Courier Client US Mail Other

Shipping container/cooler in good condition? Yes No Not Present

Custody seals intact on shipping container/cooler? Yes No Not Present

Custody seals intact on sample bottles? Yes No Not Present

Container/Temp Blank temperature in compliance? ($0^{\circ} \leq 6^{\circ}C$)* Yes No

Cooler #1 3.1°C Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler #5 _____ Cooler #6 _____

Chain of custody present? Yes No

Chain of custody signed when relinquished and received? Yes No

Chain of custody agrees with sample labels? Yes No

Samples in proper container/bottle? Yes No

Sample containers intact? Yes No

Sufficient sample volume for indicated test? Yes No

All samples received within holding time? Yes No

Was TAT marked on the COC? Yes No

Proceed with Standard TAT as per project history? Yes No Not Applicable

Water - VOA vials have zero headspace? No VOA vials submitted Yes No

Water - pH acceptable upon receipt? Yes No Not Applicable

Adjusted? _____ Checked by JP

Sample Condition: Good Other(Explain) _____

(For diffusive samples or AIHA lead) Is a known blank included? Yes No

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

Client: EarthCon Consultants, Inc.
 Project Name: Apollo Smyrna
 Lab Order: 1504545

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1504545-001A	MW-2	4/7/2015 3:40:00PM	Groundwater	TCL VOLATILE ORGANICS		4/9/2015 2:11:00PM	04/09/2015
1504545-001B	MW-2	4/7/2015 3:40:00PM	Groundwater	GC Analysis of Gaseous Samples		4/10/2015 11:03:57AM	04/10/2015
1504545-001C	MW-2	4/7/2015 3:40:00PM	Groundwater	ION SCAN			04/08/2015
1504545-001D	MW-2	4/7/2015 3:40:00PM	Groundwater	Total Organic Carbon (TOC)			04/10/2015
1504545-001E	MW-2	4/7/2015 3:40:00PM	Groundwater	Alkalinity by SM2320B			04/14/2015
1504545-001F	MW-2	4/7/2015 3:40:00PM	Groundwater	Sulfide by SM4500-S2-F			04/13/2015
1504545-002A	MW-10	4/7/2015 3:00:00PM	Groundwater	TCL VOLATILE ORGANICS		4/9/2015 2:11:00PM	04/09/2015
1504545-002B	MW-10	4/7/2015 3:00:00PM	Groundwater	GC Analysis of Gaseous Samples		4/10/2015 11:03:57AM	04/10/2015
1504545-002C	MW-10	4/7/2015 3:00:00PM	Groundwater	ION SCAN			04/08/2015
1504545-002D	MW-10	4/7/2015 3:00:00PM	Groundwater	Total Organic Carbon (TOC)			04/10/2015
1504545-002E	MW-10	4/7/2015 3:00:00PM	Groundwater	Alkalinity by SM2320B			04/14/2015
1504545-002F	MW-10	4/7/2015 3:00:00PM	Groundwater	Sulfide by SM4500-S2-F			04/13/2015
1504545-003A	MW-12	4/7/2015 7:15:00PM	Groundwater	TCL VOLATILE ORGANICS		4/9/2015 2:11:00PM	04/09/2015
1504545-003B	MW-12	4/7/2015 7:15:00PM	Groundwater	GC Analysis of Gaseous Samples		4/10/2015 11:03:57AM	04/10/2015
1504545-003C	MW-12	4/7/2015 7:15:00PM	Groundwater	ION SCAN			04/08/2015
1504545-003D	MW-12	4/7/2015 7:15:00PM	Groundwater	Total Organic Carbon (TOC)			04/10/2015
1504545-003E	MW-12	4/7/2015 7:15:00PM	Groundwater	Alkalinity by SM2320B			04/14/2015
1504545-003F	MW-12	4/7/2015 7:15:00PM	Groundwater	Sulfide by SM4500-S2-F			04/13/2015
1504545-004A	MW-11	4/7/2015 7:05:00PM	Groundwater	TCL VOLATILE ORGANICS		4/9/2015 2:11:00PM	04/09/2015
1504545-004B	MW-11	4/7/2015 7:05:00PM	Groundwater	GC Analysis of Gaseous Samples		4/10/2015 11:03:57AM	04/10/2015
1504545-004C	MW-11	4/7/2015 7:05:00PM	Groundwater	ION SCAN			04/08/2015
1504545-004D	MW-11	4/7/2015 7:05:00PM	Groundwater	Total Organic Carbon (TOC)			04/10/2015
1504545-004E	MW-11	4/7/2015 7:05:00PM	Groundwater	Alkalinity by SM2320B			04/14/2015
1504545-004F	MW-11	4/7/2015 7:05:00PM	Groundwater	Sulfide by SM4500-S2-F			04/13/2015

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1504545

ANALYTICAL QC SUMMARY REPORT

BatchID: 205787

Sample ID: MB-205787	Client ID:	Units: ug/L	Prep Date: 04/09/2015	Run No: 289503							
Sample Type: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 205787	Analysis Date: 04/09/2015	Seq No: 6156088							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,2,4-Trichlorobenzene	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dibromoethane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,3-Dichlorobenzene	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
2-Butanone	BRL	50									
2-Hexanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	50									
Benzene	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Bromoform	BRL	5.0									
Bromomethane	BRL	5.0									
Carbon disulfide	BRL	5.0									
Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									
Chloroform	BRL	5.0									
Chloromethane	BRL	10									

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1504545

ANALYTICAL QC SUMMARY REPORT

BatchID: 205787

Sample ID: MB-205787	Client ID:	Units: ug/L	Prep Date: 04/09/2015	Run No: 289503							
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 205787	Analysis Date: 04/09/2015	Seq No: 6156088							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Freon-113	BRL	10									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	5.0									
Methyl acetate	BRL	5.0									
Methyl tert-butyl ether	BRL	5.0									
Methylcyclohexane	BRL	5.0									
Methylene chloride	BRL	5.0									
o-Xylene	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	2.0									
Surr: 4-Bromofluorobenzene	39.77	0	50.00		79.5	70.6	123				
Surr: Dibromofluoromethane	55.70	0	50.00		111	78.7	124				
Surr: Toluene-d8	50.15	0	50.00		100	81.3	120				

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1504545

ANALYTICAL QC SUMMARY REPORT

BatchID: 205787

Sample ID: LCS-205787	Client ID:	Units: ug/L	Prep Date: 04/09/2015	Run No: 289503							
SampleType: LCS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 205787	Analysis Date: 04/09/2015	Seq No: 6156087							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	66.75	5.0	50.00		134	64.2	137				
Benzene	54.76	5.0	50.00		110	72.8	128				
Chlorobenzene	53.06	5.0	50.00		106	72.3	126				
Toluene	56.77	5.0	50.00		114	74.9	127				
Trichloroethene	52.26	5.0	50.00		105	70.5	134				
Surr: 4-Bromofluorobenzene	41.50	0	50.00		83.0	70.6	123				
Surr: Dibromofluoromethane	54.48	0	50.00		109	78.7	124				
Surr: Toluene-d8	50.90	0	50.00		102	81.3	120				

Sample ID: 1504545-001AMS	Client ID: MW-2	Units: ug/L	Prep Date: 04/09/2015	Run No: 289619							
SampleType: MS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 205787	Analysis Date: 04/10/2015	Seq No: 6157246							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	55.73	5.0	50.00		111	60.5	156				
Benzene	52.00	5.0	50.00		104	70	135				
Chlorobenzene	49.91	5.0	50.00		99.8	70.5	132				
Toluene	53.20	5.0	50.00		106	70.5	137				
Trichloroethene	55.39	5.0	50.00		111	71.8	139				
Surr: 4-Bromofluorobenzene	47.64	0	50.00		95.3	70.6	123				
Surr: Dibromofluoromethane	53.06	0	50.00		106	78.7	124				
Surr: Toluene-d8	50.72	0	50.00		101	81.3	120				

Sample ID: 1504545-001AMSD	Client ID: MW-2	Units: ug/L	Prep Date: 04/09/2015	Run No: 289619							
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 205787	Analysis Date: 04/10/2015	Seq No: 6157247							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	55.09	5.0	50.00		110	60.5	156	55.73	1.16	20	
Benzene	51.05	5.0	50.00		102	70	135	52.00	1.84	20	

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1504545

ANALYTICAL QC SUMMARY REPORT

BatchID: 205787

Sample ID: 1504545-001AMSD	Client ID: MW-2	Units: ug/L	Prep Date: 04/09/2015	Run No: 289619
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 205787	Analysis Date: 04/10/2015	Seq No: 6157247

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorobenzene	50.50	5.0	50.00		101	70.5	132	49.91	1.18	20	
Toluene	53.00	5.0	50.00		106	70.5	137	53.20	0.377	20	
Trichloroethene	54.32	5.0	50.00		109	71.8	139	55.39	1.95	20	
Surr: 4-Bromofluorobenzene	48.47	0	50.00		96.9	70.6	123	47.64	0	0	
Surr: Dibromofluoromethane	53.10	0	50.00		106	78.7	124	53.06	0	0	
Surr: Toluene-d8	49.92	0	50.00		99.8	81.3	120	50.72	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1504545

ANALYTICAL QC SUMMARY REPORT

BatchID: 205793

Sample ID: MB-205793	Client ID:	Units: ug/L	Prep Date: 04/10/2015	Run No: 289614							
SampleType: MBLK	TestCode: GC Analysis of Gaseous Samples SOP-RSK 175	BatchID: 205793	Analysis Date: 04/10/2015	Seq No: 6157083							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethane	BRL	9									
Ethylene	BRL	7									
Methane	BRL	4									

Sample ID: LCS-205793	Client ID:	Units: ug/L	Prep Date: 04/10/2015	Run No: 289614							
SampleType: LCS	TestCode: GC Analysis of Gaseous Samples SOP-RSK 175	BatchID: 205793	Analysis Date: 04/10/2015	Seq No: 6157084							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethane	99.06	9	200.0		49.5	41.2	115				
Ethylene	65.34	7	200.0		32.7	26.5	115				
Methane	106.8	4	200.0		53.4	45.1	115				

Sample ID: LCSD-205793	Client ID:	Units: ug/L	Prep Date: 04/10/2015	Run No: 289614							
SampleType: LCSD	TestCode: GC Analysis of Gaseous Samples SOP-RSK 175	BatchID: 205793	Analysis Date: 04/10/2015	Seq No: 6157085							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethane	96.25	9	200.0		48.1	41.2	115	99.06	2.88	20	
Ethylene	63.24	7	200.0		31.6	26.5	115	65.34	3.26	20	
Methane	102.8	4	200.0		51.4	45.1	115	106.8	3.80	20	

Sample ID: 1504545-001BMS	Client ID: MW-2	Units: ug/L	Prep Date: 04/10/2015	Run No: 289614							
SampleType: MS	TestCode: GC Analysis of Gaseous Samples SOP-RSK 175	BatchID: 205793	Analysis Date: 04/10/2015	Seq No: 6157113							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethane	107.8	9	200.0		53.9	40.5	115				
Ethylene	70.70	7	200.0		35.3	25.1	115				
Methane	116.5	4	200.0		58.3	40.4	115				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1504545

ANALYTICAL QC SUMMARY REPORT

BatchID: 205793

Sample ID: 1504545-001BMSD	Client ID: MW-2	Units: ug/L	Prep Date: 04/10/2015	Run No: 289614
SampleType: MSD	TestCode: GC Analysis of Gaseous Samples SOP-RSK 175	BatchID: 205793	Analysis Date: 04/10/2015	Seq No: 6157114

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Ethane	102.3	9	200.0		51.1	40.5	115	107.8	5.29	20	
Ethylene	67.23	7	200.0		33.6	25.1	115	70.70	5.02	20	
Methane	111.8	4	200.0		55.9	40.4	115	116.5	4.12	20	

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
	BRL Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
	J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
	Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1504545

ANALYTICAL QC SUMMARY REPORT

BatchID: R289677

Sample ID: MB-R289677	Client ID:	Units: mg/L	Prep Date:	Run No: 289677							
SampleType: MBLK	TestCode: Sulfide by SM4500-S2-F	BatchID: R289677	Analysis Date: 04/13/2015	Seq No: 6158646							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Sulfide BRL 1.00

Sample ID: LCS-R289677	Client ID:	Units: mg/L	Prep Date:	Run No: 289677							
SampleType: LCS	TestCode: Sulfide by SM4500-S2-F	BatchID: R289677	Analysis Date: 04/13/2015	Seq No: 6158647							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Sulfide 296.0 1.00 296.0 100 90 110

Sample ID: 1504657-002FMS	Client ID:	Units: mg/L	Prep Date:	Run No: 289677							
SampleType: MS	TestCode: Sulfide by SM4500-S2-F	BatchID: R289677	Analysis Date: 04/13/2015	Seq No: 6158657							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Sulfide 12.40 1.00 14.80 83.8 80 120

Sample ID: 1504657-002FMSD	Client ID:	Units: mg/L	Prep Date:	Run No: 289677							
SampleType: MSD	TestCode: Sulfide by SM4500-S2-F	BatchID: R289677	Analysis Date: 04/13/2015	Seq No: 6158658							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Sulfide 12.60 1.00 14.80 85.1 80 120 12.40 1.60 20

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
	BRL Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
	J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
	Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1504545

ANALYTICAL QC SUMMARY REPORT

BatchID: R289683

Sample ID: MB-R289683	Client ID:	Units: mg/L	Prep Date:	Run No: 289683							
SampleType: MBLK	TestCode: Total Organic Carbon (TOC) SW9060A	BatchID: R289683	Analysis Date: 04/10/2015	Seq No: 6158830							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Organic Carbon, Total

BRL 1.00

Sample ID: LCS-R289683	Client ID:	Units: mg/L	Prep Date:	Run No: 289683							
SampleType: LCS	TestCode: Total Organic Carbon (TOC) SW9060A	BatchID: R289683	Analysis Date: 04/10/2015	Seq No: 6158829							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Organic Carbon, Total

26.90 1.00 25.00 108 90 110

Sample ID: 1504545-004DMS	Client ID: MW-11	Units: mg/L	Prep Date:	Run No: 289683							
SampleType: MS	TestCode: Total Organic Carbon (TOC) SW9060A	BatchID: R289683	Analysis Date: 04/13/2015	Seq No: 6158854							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Organic Carbon, Total

24.28 1.00 25.00 1.136 92.6 80 120

Sample ID: 1504545-004DMSD	Client ID: MW-11	Units: mg/L	Prep Date:	Run No: 289683							
SampleType: MSD	TestCode: Total Organic Carbon (TOC) SW9060A	BatchID: R289683	Analysis Date: 04/13/2015	Seq No: 6158855							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Organic Carbon, Total

25.99 1.00 25.00 1.136 99.4 80 120 24.28 6.80 20

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
	BRL Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
	J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
	Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1504545

ANALYTICAL QC SUMMARY REPORT

BatchID: R289689

Sample ID: MB-R289689	Client ID:	Units: mg/L	Prep Date:	Run No: 289689							
SampleType: MBLK	TestCode: ION SCAN SW9056A	BatchID: R289689	Analysis Date: 04/08/2015	Seq No: 6158886							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride	BRL	1.0									
Nitrate	BRL	0.25									
Sulfate	BRL	1.0									

Sample ID: LCS-R289689	Client ID:	Units: mg/L	Prep Date:	Run No: 289689							
SampleType: LCS	TestCode: ION SCAN SW9056A	BatchID: R289689	Analysis Date: 04/08/2015	Seq No: 6158885							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride	9.441	1.0	10.00		94.4	90	110				
Nitrate	4.573	0.25	5.000		91.5	90	110				
Sulfate	24.34	1.0	25.00		97.4	90	110				

Sample ID: 1504620-002BMS	Client ID:	Units: mg/L	Prep Date:	Run No: 289689							
SampleType: MS	TestCode: ION SCAN SW9056A	BatchID: R289689	Analysis Date: 04/08/2015	Seq No: 6158914							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride	127.5	10	100.0	39.12	88.3	90	110				S
Nitrate	47.72	2.5	50.00		95.4	90	110				
Sulfate	275.7	10	250.0	38.76	94.8	90	110				

Sample ID: 1504622-002BMS	Client ID:	Units: mg/L	Prep Date:	Run No: 289689							
SampleType: MS	TestCode: ION SCAN SW9056A	BatchID: R289689	Analysis Date: 04/08/2015	Seq No: 6158922							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride	129.4	10	100.0	40.43	89.0	90	110				S
Nitrate	48.42	2.5	50.00	3.134	90.6	90	110				
Sulfate	267.2	10	250.0	29.92	94.9	90	110				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1504545

ANALYTICAL QC SUMMARY REPORT

BatchID: R289689

Sample ID: 1504620-002BMSD	Client ID:	Units: mg/L	Prep Date:	Run No: 289689							
SampleType: MSD	TestCode: ION SCAN SW9056A	BatchID: R289689	Analysis Date: 04/08/2015	Seq No: 6158916							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride	131.4	10	100.0	39.12	92.3	90	110	127.5	3.05	20	
Nitrate	48.94	2.5	50.00		97.9	90	110	47.72	2.52	20	
Sulfate	279.3	10	250.0	38.76	96.2	90	110	275.7	1.28	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1504545

ANALYTICAL QC SUMMARY REPORT

BatchID: R289924

Sample ID: MB-R289924	Client ID:	Units: mg/L	Prep Date:	Run No: 289924							
SampleType: MBLK	TestCode: Alkalinity by SM2320B	BatchID: R289924	Analysis Date: 04/14/2015	Seq No: 6164433							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Alkalinity, Total (As CaCO3)

BRL 3.00

Sample ID: LCS-R289924	Client ID:	Units: mg/L	Prep Date:	Run No: 289924							
SampleType: LCS	TestCode: Alkalinity by SM2320B	BatchID: R289924	Analysis Date: 04/14/2015	Seq No: 6164434							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Alkalinity, Total (As CaCO3)

123.0 3.00 125.0 98.4 75 125

Sample ID: 1504545-001EDUP	Client ID: MW-2	Units: mg/L	Prep Date:	Run No: 289924							
SampleType: DUP	TestCode: Alkalinity by SM2320B	BatchID: R289924	Analysis Date: 04/14/2015	Seq No: 6164442							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Alkalinity, Total (As CaCO3)

21.00 3.00 21.00 0 30

Qualifiers:
 > Greater than Result value
 BRL Below reporting limit
 J Estimated value detected below Reporting Limit
 Rpt Lim Reporting Limit

< Less than Result value
 E Estimated (value above quantitation range)
 N Analyte not NELAC certified
 S Spike Recovery outside limits due to matrix

B Analyte detected in the associated method blank
 H Holding times for preparation or analysis exceeded
 R RPD outside limits due to matrix



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

April 21, 2015

Kristen Rivera
EarthCon Consultants, Inc.
1880 West Oak Parkway
Marietta GA 30062

TEL: (770) 973-2100
FAX: (770) 973-7395

RE: Apollo--Smryna

Dear Kristen Rivera:

Order No: 1504657

Analytical Environmental Services, Inc. received 10 samples on 4/9/2015 7:55:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/14-06/30/15.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/15.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Chantelle Kanhai
Project Manager



COMPANY: <u>EarthCon Consultants, Inc</u>		ADDRESS: <u>1800 West Oak Pkwy Bld 100 Ste 106 Marietta, GA 30062</u>			ANALYSIS REQUESTED										Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.		No # of Containers		
PHONE: <u>770-973-2100</u>		FAX: <u>770-973-7395</u>			VOCs	MMA Gases	Low Scan	TOC	Alkalinity	Sulfide						REMARKS			
SAMPLED BY: <u>Kevin Davis Keaton Henry</u>		SIGNATURE: <u>[Signature]</u>			PRESERVATION (See codes)										No # of Containers				
#	SAMPLE ID	DATE	TIME	Grab	Composite	Matrix (See codes)	H+	I	S+	I	I	O						REMARKS	
1	EB-1 <u>EB-1</u>	<u>4/8/15</u>	<u>0650</u>	X		<u>GW</u>	<u>2</u>	<u>2</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>Loop</u>						<u>2</u>
2	<u>DW-1</u>		<u>1010</u>	X		<u>GW</u>	<u>2</u>	<u>2</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>							<u>3</u>
3	<u>MW-9</u>		<u>0945</u>	X		<u>GW</u>	<u>2</u>	<u>2</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>							<u>3</u>
4	<u>TRIP Blank</u>		<u>-</u>	X		<u>W</u>	<u>2</u>												<u>2</u>
5	MW-6		1225	X		GW	2	2	1	1	1	1		<u>Loop</u>					3
6	<u>MW-5</u>		<u>1225</u>	X		<u>GW</u>	<u>2</u>	<u>2</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>							<u>3</u>
7	<u>MW-7</u>		<u>1500</u>	X		<u>GW</u>	<u>2</u>	<u>2</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>							<u>3</u>
8	<u>MW-13</u>		<u>1305</u>	X		<u>GW</u>	<u>2</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>							<u>3</u>
9	<u>MW-3</u>		<u>1800</u>	X		<u>GW</u>	<u>2</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>							<u>3</u>
10	<u>MW-15</u>		<u>1700</u>	X		<u>GW</u>	<u>2</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>							<u>3</u>
11	<u>MW-1</u>		<u>1915</u>	X		<u>GW</u>	<u>2</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>							<u>3</u>
12																			
13																			
14																			
RELINQUISHED BY: <u>[Signature]</u>		DATE/TIME: <u>4/8/15 2010</u>	RECEIVED BY: <u>[Signature]</u>		DATE/TIME: <u>4/9/15 7:55</u>	PROJECT INFORMATION										RECEIPT			
1: <u>[Signature]</u>			2: <u>[Signature]</u>			PROJECT NAME: <u>Apollo - Smyrna</u>										Total # of Containers: <u>68</u>			
3: <u>[Signature]</u>			4: <u>[Signature]</u>			PROJECT #: <u>02, 20140391.00</u>										Turnaround Time Request			
						SITE ADDRESS: <u>Smyrna, GA</u>										<input checked="" type="radio"/> Standard 5 Business Days			
						SEND REPORT TO: <u>Kristen Rivera</u>										<input type="radio"/> 2 Business Day Rush			
						INVOICE TO: (IF DIFFERENT FROM ABOVE)										<input type="radio"/> Next Business Day Rush			
																<input type="radio"/> Same Day Rush (auth req.)			
																<input type="radio"/> Other			
																STATE PROGRAM (if any): <u>GA</u>			
																E-mail? Y/N; Fax? Y/N			
																DATA PACKAGE: I II III IV			
SPECIAL INSTRUCTIONS/COMMENTS:		SHIPMENT METHOD																	
		OUT / / VIA:																	
		IN / / VIA:																	
		<u>CLIENT</u> FedEx UPS MAIL COURIER																	
		GREYHOUND OTHER																	
<p>SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY. IF TURNAROUND TIME IS NOT INDICATED, AES WILL PROCEED WITH STANDARD TAT OF SAMPLES. SAMPLES ARE DISPOSED 30 DAYS AFTER REPORT COMPLETION UNLESS OTHER ARRANGEMENTS ARE MADE.</p>																			

Client: EarthCon Consultants, Inc.

Project: Apollo--Smryna

Lab ID: 1504657

Case Narrative

IC Analysis by Method 9056A:

Due to sample matrix, sample 1504657-008 required a dilution during preparation and/or analysis resulting in elevated reporting limits.

Client: EarthCon Consultants, Inc.	Client Sample ID: EB-1
Project Name: Apollo--Smryna	Collection Date: 4/8/2015 6:50:00 AM
Lab ID: 1504657-001	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	205941	1	04/13/2015 19:25	CH
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	205941	1	04/13/2015 19:25	CH
1,1,2-Trichloroethane	BRL	5.0		ug/L	205941	1	04/13/2015 19:25	CH
1,1-Dichloroethane	BRL	5.0		ug/L	205941	1	04/13/2015 19:25	CH
1,1-Dichloroethene	BRL	5.0		ug/L	205941	1	04/13/2015 19:25	CH
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	205941	1	04/13/2015 19:25	CH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	205941	1	04/13/2015 19:25	CH
1,2-Dibromoethane	BRL	5.0		ug/L	205941	1	04/13/2015 19:25	CH
1,2-Dichlorobenzene	BRL	5.0		ug/L	205941	1	04/13/2015 19:25	CH
1,2-Dichloroethane	BRL	5.0		ug/L	205941	1	04/13/2015 19:25	CH
1,2-Dichloropropane	BRL	5.0		ug/L	205941	1	04/13/2015 19:25	CH
1,3-Dichlorobenzene	BRL	5.0		ug/L	205941	1	04/13/2015 19:25	CH
1,4-Dichlorobenzene	BRL	5.0		ug/L	205941	1	04/13/2015 19:25	CH
2-Butanone	BRL	50		ug/L	205941	1	04/13/2015 19:25	CH
2-Hexanone	BRL	10		ug/L	205941	1	04/13/2015 19:25	CH
4-Methyl-2-pentanone	BRL	10		ug/L	205941	1	04/13/2015 19:25	CH
Acetone	BRL	50		ug/L	205941	1	04/13/2015 19:25	CH
Benzene	BRL	5.0		ug/L	205941	1	04/13/2015 19:25	CH
Bromodichloromethane	BRL	5.0		ug/L	205941	1	04/13/2015 19:25	CH
Bromoform	BRL	5.0		ug/L	205941	1	04/13/2015 19:25	CH
Bromomethane	BRL	5.0		ug/L	205941	1	04/13/2015 19:25	CH
Carbon disulfide	BRL	5.0		ug/L	205941	1	04/13/2015 19:25	CH
Carbon tetrachloride	BRL	5.0		ug/L	205941	1	04/13/2015 19:25	CH
Chlorobenzene	BRL	5.0		ug/L	205941	1	04/13/2015 19:25	CH
Chloroethane	BRL	10		ug/L	205941	1	04/13/2015 19:25	CH
Chloroform	BRL	5.0		ug/L	205941	1	04/13/2015 19:25	CH
Chloromethane	BRL	10		ug/L	205941	1	04/13/2015 19:25	CH
cis-1,2-Dichloroethene	BRL	5.0		ug/L	205941	1	04/13/2015 19:25	CH
cis-1,3-Dichloropropene	BRL	5.0		ug/L	205941	1	04/13/2015 19:25	CH
Cyclohexane	BRL	5.0		ug/L	205941	1	04/13/2015 19:25	CH
Dibromochloromethane	BRL	5.0		ug/L	205941	1	04/13/2015 19:25	CH
Dichlorodifluoromethane	BRL	10		ug/L	205941	1	04/13/2015 19:25	CH
Ethylbenzene	BRL	5.0		ug/L	205941	1	04/13/2015 19:25	CH
Freon-113	BRL	10		ug/L	205941	1	04/13/2015 19:25	CH
Isopropylbenzene	BRL	5.0		ug/L	205941	1	04/13/2015 19:25	CH
m,p-Xylene	BRL	5.0		ug/L	205941	1	04/13/2015 19:25	CH
Methyl acetate	BRL	5.0		ug/L	205941	1	04/13/2015 19:25	CH
Methyl tert-butyl ether	BRL	5.0		ug/L	205941	1	04/13/2015 19:25	CH
Methylcyclohexane	BRL	5.0		ug/L	205941	1	04/13/2015 19:25	CH
Methylene chloride	BRL	5.0		ug/L	205941	1	04/13/2015 19:25	CH
o-Xylene	BRL	5.0		ug/L	205941	1	04/13/2015 19:25	CH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: EarthCon Consultants, Inc.	Client Sample ID: EB-1
Project Name: Apollo--Smryna	Collection Date: 4/8/2015 6:50:00 AM
Lab ID: 1504657-001	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	205941	1	04/13/2015 19:25	CH
Tetrachloroethene	BRL	5.0		ug/L	205941	1	04/13/2015 19:25	CH
Toluene	BRL	5.0		ug/L	205941	1	04/13/2015 19:25	CH
trans-1,2-Dichloroethene	BRL	5.0		ug/L	205941	1	04/13/2015 19:25	CH
trans-1,3-Dichloropropene	BRL	5.0		ug/L	205941	1	04/13/2015 19:25	CH
Trichloroethene	BRL	5.0		ug/L	205941	1	04/13/2015 19:25	CH
Trichlorofluoromethane	BRL	5.0		ug/L	205941	1	04/13/2015 19:25	CH
Vinyl chloride	BRL	2.0		ug/L	205941	1	04/13/2015 19:25	CH
Surr: 4-Bromofluorobenzene	82.5	70.6-123		%REC	205941	1	04/13/2015 19:25	CH
Surr: Dibromofluoromethane	113	78.7-124		%REC	205941	1	04/13/2015 19:25	CH
Surr: Toluene-d8	102	81.3-120		%REC	205941	1	04/13/2015 19:25	CH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: EarthCon Consultants, Inc.	Client Sample ID: DW-1
Project Name: Apollo--Smryna	Collection Date: 4/8/2015 10:10:00 AM
Lab ID: 1504657-002	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) SW9060A								
Organic Carbon, Total	5.42	1.00		mg/L	R289683	1	04/10/2015 14:57	YS
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	20	5.0		ug/L	205941	1	04/15/2015 00:45	CH
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	205941	1	04/15/2015 00:45	CH
1,1,2-Trichloroethane	BRL	5.0		ug/L	205941	1	04/15/2015 00:45	CH
1,1-Dichloroethane	88	5.0		ug/L	205941	1	04/15/2015 00:45	CH
1,1-Dichloroethene	150	5.0		ug/L	205941	1	04/15/2015 00:45	CH
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	205941	1	04/15/2015 00:45	CH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	205941	1	04/15/2015 00:45	CH
1,2-Dibromoethane	BRL	5.0		ug/L	205941	1	04/15/2015 00:45	CH
1,2-Dichlorobenzene	BRL	5.0		ug/L	205941	1	04/15/2015 00:45	CH
1,2-Dichloroethane	BRL	5.0		ug/L	205941	1	04/15/2015 00:45	CH
1,2-Dichloropropane	BRL	5.0		ug/L	205941	1	04/15/2015 00:45	CH
1,3-Dichlorobenzene	BRL	5.0		ug/L	205941	1	04/15/2015 00:45	CH
1,4-Dichlorobenzene	BRL	5.0		ug/L	205941	1	04/15/2015 00:45	CH
2-Butanone	BRL	50		ug/L	205941	1	04/15/2015 00:45	CH
2-Hexanone	BRL	10		ug/L	205941	1	04/15/2015 00:45	CH
4-Methyl-2-pentanone	BRL	10		ug/L	205941	1	04/15/2015 00:45	CH
Acetone	BRL	50		ug/L	205941	1	04/15/2015 00:45	CH
Benzene	BRL	5.0		ug/L	205941	1	04/15/2015 00:45	CH
Bromodichloromethane	BRL	5.0		ug/L	205941	1	04/15/2015 00:45	CH
Bromoform	BRL	5.0		ug/L	205941	1	04/15/2015 00:45	CH
Bromomethane	BRL	5.0		ug/L	205941	1	04/15/2015 00:45	CH
Carbon disulfide	BRL	5.0		ug/L	205941	1	04/15/2015 00:45	CH
Carbon tetrachloride	BRL	5.0		ug/L	205941	1	04/15/2015 00:45	CH
Chlorobenzene	BRL	5.0		ug/L	205941	1	04/15/2015 00:45	CH
Chloroethane	480	100		ug/L	205941	10	04/15/2015 00:22	CH
Chloroform	BRL	5.0		ug/L	205941	1	04/15/2015 00:45	CH
Chloromethane	BRL	10		ug/L	205941	1	04/15/2015 00:45	CH
cis-1,2-Dichloroethene	22	5.0		ug/L	205941	1	04/15/2015 00:45	CH
cis-1,3-Dichloropropene	BRL	5.0		ug/L	205941	1	04/15/2015 00:45	CH
Cyclohexane	BRL	5.0		ug/L	205941	1	04/15/2015 00:45	CH
Dibromochloromethane	BRL	5.0		ug/L	205941	1	04/15/2015 00:45	CH
Dichlorodifluoromethane	BRL	10		ug/L	205941	1	04/15/2015 00:45	CH
Ethylbenzene	BRL	5.0		ug/L	205941	1	04/15/2015 00:45	CH
Freon-113	BRL	10		ug/L	205941	1	04/15/2015 00:45	CH
Isopropylbenzene	BRL	5.0		ug/L	205941	1	04/15/2015 00:45	CH
m,p-Xylene	7.3	5.0		ug/L	205941	1	04/15/2015 00:45	CH
Methyl acetate	BRL	5.0		ug/L	205941	1	04/15/2015 00:45	CH
Methyl tert-butyl ether	BRL	5.0		ug/L	205941	1	04/15/2015 00:45	CH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: EarthCon Consultants, Inc.	Client Sample ID: DW-1
Project Name: Apollo--Smryna	Collection Date: 4/8/2015 10:10:00 AM
Lab ID: 1504657-002	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
Methylcyclohexane	BRL	5.0		ug/L	205941	1	04/15/2015 00:45	CH
Methylene chloride	5.3	5.0		ug/L	205941	1	04/15/2015 00:45	CH
o-Xylene	BRL	5.0		ug/L	205941	1	04/15/2015 00:45	CH
Styrene	BRL	5.0		ug/L	205941	1	04/15/2015 00:45	CH
Tetrachloroethene	120	5.0		ug/L	205941	1	04/15/2015 00:45	CH
Toluene	250	50		ug/L	205941	10	04/15/2015 00:22	CH
trans-1,2-Dichloroethene	BRL	5.0		ug/L	205941	1	04/15/2015 00:45	CH
trans-1,3-Dichloropropene	BRL	5.0		ug/L	205941	1	04/15/2015 00:45	CH
Trichloroethene	16	5.0		ug/L	205941	1	04/15/2015 00:45	CH
Trichlorofluoromethane	BRL	5.0		ug/L	205941	1	04/15/2015 00:45	CH
Vinyl chloride	19	2.0		ug/L	205941	1	04/15/2015 00:45	CH
Surr: 4-Bromofluorobenzene	88	70.6-123		%REC	205941	10	04/15/2015 00:22	CH
Surr: 4-Bromofluorobenzene	90.1	70.6-123		%REC	205941	1	04/15/2015 00:45	CH
Surr: Dibromofluoromethane	106	78.7-124		%REC	205941	10	04/15/2015 00:22	CH
Surr: Dibromofluoromethane	111	78.7-124		%REC	205941	1	04/15/2015 00:45	CH
Surr: Toluene-d8	99.3	81.3-120		%REC	205941	10	04/15/2015 00:22	CH
Surr: Toluene-d8	101	81.3-120		%REC	205941	1	04/15/2015 00:45	CH
Sulfide by SM4500-S2-F								
Sulfide	BRL	1.00		mg/L	R289677	1	04/13/2015 12:35	PF
ION SCAN SW9056A								
Chloride	29	1.0		mg/L	R289844	1	04/09/2015 12:44	JW
Nitrate	BRL	0.25		mg/L	R289844	1	04/09/2015 12:44	JW
Sulfate	1.9	1.0		mg/L	R289844	1	04/09/2015 12:44	JW
GC Analysis of Gaseous Samples SOP-RSK 175 (RSK175)								
Ethane	BRL	9		ug/L	205953	1	04/14/2015 09:41	AB
Ethylene	150	7		ug/L	205953	1	04/14/2015 09:41	AB
Methane	3300	100		ug/L	205953	25	04/14/2015 12:24	AB
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	60.0	3.00		mg/L	R289924	1	04/14/2015 11:40	PF

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
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- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 21-Apr-15

Client: EarthCon Consultants, Inc.	Client Sample ID: MW-9
Project Name: Apollo--Smryna	Collection Date: 4/8/2015 9:45:00 AM
Lab ID: 1504657-003	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) SW9060A								
Organic Carbon, Total	1.78	1.00		mg/L	R289683	1	04/10/2015 15:18	YS
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	205941	1	04/13/2015 19:49	CH
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	205941	1	04/13/2015 19:49	CH
1,1,2-Trichloroethane	BRL	5.0		ug/L	205941	1	04/13/2015 19:49	CH
1,1-Dichloroethane	BRL	5.0		ug/L	205941	1	04/13/2015 19:49	CH
1,1-Dichloroethene	BRL	5.0		ug/L	205941	1	04/13/2015 19:49	CH
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	205941	1	04/13/2015 19:49	CH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	205941	1	04/13/2015 19:49	CH
1,2-Dibromoethane	BRL	5.0		ug/L	205941	1	04/13/2015 19:49	CH
1,2-Dichlorobenzene	BRL	5.0		ug/L	205941	1	04/13/2015 19:49	CH
1,2-Dichloroethane	BRL	5.0		ug/L	205941	1	04/13/2015 19:49	CH
1,2-Dichloropropane	BRL	5.0		ug/L	205941	1	04/13/2015 19:49	CH
1,3-Dichlorobenzene	BRL	5.0		ug/L	205941	1	04/13/2015 19:49	CH
1,4-Dichlorobenzene	BRL	5.0		ug/L	205941	1	04/13/2015 19:49	CH
2-Butanone	BRL	50		ug/L	205941	1	04/13/2015 19:49	CH
2-Hexanone	BRL	10		ug/L	205941	1	04/13/2015 19:49	CH
4-Methyl-2-pentanone	BRL	10		ug/L	205941	1	04/13/2015 19:49	CH
Acetone	BRL	50		ug/L	205941	1	04/13/2015 19:49	CH
Benzene	BRL	5.0		ug/L	205941	1	04/13/2015 19:49	CH
Bromodichloromethane	BRL	5.0		ug/L	205941	1	04/13/2015 19:49	CH
Bromoform	BRL	5.0		ug/L	205941	1	04/13/2015 19:49	CH
Bromomethane	BRL	5.0		ug/L	205941	1	04/13/2015 19:49	CH
Carbon disulfide	BRL	5.0		ug/L	205941	1	04/13/2015 19:49	CH
Carbon tetrachloride	BRL	5.0		ug/L	205941	1	04/13/2015 19:49	CH
Chlorobenzene	BRL	5.0		ug/L	205941	1	04/13/2015 19:49	CH
Chloroethane	BRL	10		ug/L	205941	1	04/13/2015 19:49	CH
Chloroform	BRL	5.0		ug/L	205941	1	04/13/2015 19:49	CH
Chloromethane	BRL	10		ug/L	205941	1	04/13/2015 19:49	CH
cis-1,2-Dichloroethene	BRL	5.0		ug/L	205941	1	04/13/2015 19:49	CH
cis-1,3-Dichloropropene	BRL	5.0		ug/L	205941	1	04/13/2015 19:49	CH
Cyclohexane	BRL	5.0		ug/L	205941	1	04/13/2015 19:49	CH
Dibromochloromethane	BRL	5.0		ug/L	205941	1	04/13/2015 19:49	CH
Dichlorodifluoromethane	BRL	10		ug/L	205941	1	04/13/2015 19:49	CH
Ethylbenzene	BRL	5.0		ug/L	205941	1	04/13/2015 19:49	CH
Freon-113	BRL	10		ug/L	205941	1	04/13/2015 19:49	CH
Isopropylbenzene	BRL	5.0		ug/L	205941	1	04/13/2015 19:49	CH
m,p-Xylene	BRL	5.0		ug/L	205941	1	04/13/2015 19:49	CH
Methyl acetate	BRL	5.0		ug/L	205941	1	04/13/2015 19:49	CH
Methyl tert-butyl ether	BRL	5.0		ug/L	205941	1	04/13/2015 19:49	CH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: EarthCon Consultants, Inc.	Client Sample ID: MW-9
Project Name: Apollo--Smryna	Collection Date: 4/8/2015 9:45:00 AM
Lab ID: 1504657-003	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					(SW5030B)			
Methylcyclohexane	BRL	5.0		ug/L	205941	1	04/13/2015 19:49	CH
Methylene chloride	BRL	5.0		ug/L	205941	1	04/13/2015 19:49	CH
o-Xylene	BRL	5.0		ug/L	205941	1	04/13/2015 19:49	CH
Styrene	BRL	5.0		ug/L	205941	1	04/13/2015 19:49	CH
Tetrachloroethene	BRL	5.0		ug/L	205941	1	04/13/2015 19:49	CH
Toluene	BRL	5.0		ug/L	205941	1	04/13/2015 19:49	CH
trans-1,2-Dichloroethene	BRL	5.0		ug/L	205941	1	04/13/2015 19:49	CH
trans-1,3-Dichloropropene	BRL	5.0		ug/L	205941	1	04/13/2015 19:49	CH
Trichloroethene	BRL	5.0		ug/L	205941	1	04/13/2015 19:49	CH
Trichlorofluoromethane	BRL	5.0		ug/L	205941	1	04/13/2015 19:49	CH
Vinyl chloride	BRL	2.0		ug/L	205941	1	04/13/2015 19:49	CH
Surr: 4-Bromofluorobenzene	77.2	70.6-123		%REC	205941	1	04/13/2015 19:49	CH
Surr: Dibromofluoromethane	117	78.7-124		%REC	205941	1	04/13/2015 19:49	CH
Surr: Toluene-d8	102	81.3-120		%REC	205941	1	04/13/2015 19:49	CH
Sulfide by SM4500-S2-F								
Sulfide	BRL	1.00		mg/L	R289677	1	04/13/2015 12:35	PF
ION SCAN SW9056A								
Chloride	6.9	1.0		mg/L	R289844	1	04/09/2015 12:59	JW
Nitrate	BRL	0.25		mg/L	R289844	1	04/09/2015 12:59	JW
Sulfate	3.5	1.0		mg/L	R289844	1	04/09/2015 12:59	JW
GC Analysis of Gaseous Samples SOP-RSK 175					(RSK175)			
Ethane	BRL	9		ug/L	205953	1	04/14/2015 09:47	AB
Ethylene	BRL	7		ug/L	205953	1	04/14/2015 09:47	AB
Methane	380	20		ug/L	205953	5	04/14/2015 12:30	AB
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	33.0	3.00		mg/L	R289924	1	04/14/2015 11:40	PF

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 21-Apr-15

Client: EarthCon Consultants, Inc.	Client Sample ID: TRIP BLANK
Project Name: Apollo--Smryna	Collection Date: 4/8/2015
Lab ID: 1504657-004	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	205941	1	04/13/2015 16:39	CH
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	205941	1	04/13/2015 16:39	CH
1,1,2-Trichloroethane	BRL	5.0		ug/L	205941	1	04/13/2015 16:39	CH
1,1-Dichloroethane	BRL	5.0		ug/L	205941	1	04/13/2015 16:39	CH
1,1-Dichloroethene	BRL	5.0		ug/L	205941	1	04/13/2015 16:39	CH
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	205941	1	04/13/2015 16:39	CH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	205941	1	04/13/2015 16:39	CH
1,2-Dibromoethane	BRL	5.0		ug/L	205941	1	04/13/2015 16:39	CH
1,2-Dichlorobenzene	BRL	5.0		ug/L	205941	1	04/13/2015 16:39	CH
1,2-Dichloroethane	BRL	5.0		ug/L	205941	1	04/13/2015 16:39	CH
1,2-Dichloropropane	BRL	5.0		ug/L	205941	1	04/13/2015 16:39	CH
1,3-Dichlorobenzene	BRL	5.0		ug/L	205941	1	04/13/2015 16:39	CH
1,4-Dichlorobenzene	BRL	5.0		ug/L	205941	1	04/13/2015 16:39	CH
2-Butanone	BRL	50		ug/L	205941	1	04/13/2015 16:39	CH
2-Hexanone	BRL	10		ug/L	205941	1	04/13/2015 16:39	CH
4-Methyl-2-pentanone	BRL	10		ug/L	205941	1	04/13/2015 16:39	CH
Acetone	BRL	50		ug/L	205941	1	04/13/2015 16:39	CH
Benzene	BRL	5.0		ug/L	205941	1	04/13/2015 16:39	CH
Bromodichloromethane	BRL	5.0		ug/L	205941	1	04/13/2015 16:39	CH
Bromoform	BRL	5.0		ug/L	205941	1	04/13/2015 16:39	CH
Bromomethane	BRL	5.0		ug/L	205941	1	04/13/2015 16:39	CH
Carbon disulfide	BRL	5.0		ug/L	205941	1	04/13/2015 16:39	CH
Carbon tetrachloride	BRL	5.0		ug/L	205941	1	04/13/2015 16:39	CH
Chlorobenzene	BRL	5.0		ug/L	205941	1	04/13/2015 16:39	CH
Chloroethane	BRL	10		ug/L	205941	1	04/13/2015 16:39	CH
Chloroform	BRL	5.0		ug/L	205941	1	04/13/2015 16:39	CH
Chloromethane	BRL	10		ug/L	205941	1	04/13/2015 16:39	CH
cis-1,2-Dichloroethene	BRL	5.0		ug/L	205941	1	04/13/2015 16:39	CH
cis-1,3-Dichloropropene	BRL	5.0		ug/L	205941	1	04/13/2015 16:39	CH
Cyclohexane	BRL	5.0		ug/L	205941	1	04/13/2015 16:39	CH
Dibromochloromethane	BRL	5.0		ug/L	205941	1	04/13/2015 16:39	CH
Dichlorodifluoromethane	BRL	10		ug/L	205941	1	04/13/2015 16:39	CH
Ethylbenzene	BRL	5.0		ug/L	205941	1	04/13/2015 16:39	CH
Freon-113	BRL	10		ug/L	205941	1	04/13/2015 16:39	CH
Isopropylbenzene	BRL	5.0		ug/L	205941	1	04/13/2015 16:39	CH
m,p-Xylene	BRL	5.0		ug/L	205941	1	04/13/2015 16:39	CH
Methyl acetate	BRL	5.0		ug/L	205941	1	04/13/2015 16:39	CH
Methyl tert-butyl ether	BRL	5.0		ug/L	205941	1	04/13/2015 16:39	CH
Methylcyclohexane	BRL	5.0		ug/L	205941	1	04/13/2015 16:39	CH
Methylene chloride	BRL	5.0		ug/L	205941	1	04/13/2015 16:39	CH
o-Xylene	BRL	5.0		ug/L	205941	1	04/13/2015 16:39	CH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: EarthCon Consultants, Inc.	Client Sample ID: TRIP BLANK
Project Name: Apollo--Smryna	Collection Date: 4/8/2015
Lab ID: 1504657-004	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B			(SW5030B)					
Styrene	BRL	5.0		ug/L	205941	1	04/13/2015 16:39	CH
Tetrachloroethene	BRL	5.0		ug/L	205941	1	04/13/2015 16:39	CH
Toluene	BRL	5.0		ug/L	205941	1	04/13/2015 16:39	CH
trans-1,2-Dichloroethene	BRL	5.0		ug/L	205941	1	04/13/2015 16:39	CH
trans-1,3-Dichloropropene	BRL	5.0		ug/L	205941	1	04/13/2015 16:39	CH
Trichloroethene	BRL	5.0		ug/L	205941	1	04/13/2015 16:39	CH
Trichlorofluoromethane	BRL	5.0		ug/L	205941	1	04/13/2015 16:39	CH
Vinyl chloride	BRL	2.0		ug/L	205941	1	04/13/2015 16:39	CH
Surr: 4-Bromofluorobenzene	81.9	70.6-123		%REC	205941	1	04/13/2015 16:39	CH
Surr: Dibromofluoromethane	115	78.7-124		%REC	205941	1	04/13/2015 16:39	CH
Surr: Toluene-d8	100	81.3-120		%REC	205941	1	04/13/2015 16:39	CH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 21-Apr-15

Client: EarthCon Consultants, Inc.	Client Sample ID: MW-5
Project Name: Apollo--Smryna	Collection Date: 4/8/2015 12:25:00 PM
Lab ID: 1504657-005	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) SW9060A								
Organic Carbon, Total	BRL	1.00		mg/L	R289683	1	04/10/2015 15:42	YS
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	205941	1	04/13/2015 22:59	CH
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	205941	1	04/13/2015 22:59	CH
1,1,2-Trichloroethane	BRL	5.0		ug/L	205941	1	04/13/2015 22:59	CH
1,1-Dichloroethane	BRL	5.0		ug/L	205941	1	04/13/2015 22:59	CH
1,1-Dichloroethene	BRL	5.0		ug/L	205941	1	04/13/2015 22:59	CH
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	205941	1	04/13/2015 22:59	CH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	205941	1	04/13/2015 22:59	CH
1,2-Dibromoethane	BRL	5.0		ug/L	205941	1	04/13/2015 22:59	CH
1,2-Dichlorobenzene	BRL	5.0		ug/L	205941	1	04/13/2015 22:59	CH
1,2-Dichloroethane	BRL	5.0		ug/L	205941	1	04/13/2015 22:59	CH
1,2-Dichloropropane	BRL	5.0		ug/L	205941	1	04/13/2015 22:59	CH
1,3-Dichlorobenzene	BRL	5.0		ug/L	205941	1	04/13/2015 22:59	CH
1,4-Dichlorobenzene	BRL	5.0		ug/L	205941	1	04/13/2015 22:59	CH
2-Butanone	BRL	50		ug/L	205941	1	04/13/2015 22:59	CH
2-Hexanone	BRL	10		ug/L	205941	1	04/13/2015 22:59	CH
4-Methyl-2-pentanone	BRL	10		ug/L	205941	1	04/13/2015 22:59	CH
Acetone	BRL	50		ug/L	205941	1	04/13/2015 22:59	CH
Benzene	BRL	5.0		ug/L	205941	1	04/13/2015 22:59	CH
Bromodichloromethane	BRL	5.0		ug/L	205941	1	04/13/2015 22:59	CH
Bromoform	BRL	5.0		ug/L	205941	1	04/13/2015 22:59	CH
Bromomethane	BRL	5.0		ug/L	205941	1	04/13/2015 22:59	CH
Carbon disulfide	BRL	5.0		ug/L	205941	1	04/13/2015 22:59	CH
Carbon tetrachloride	BRL	5.0		ug/L	205941	1	04/13/2015 22:59	CH
Chlorobenzene	BRL	5.0		ug/L	205941	1	04/13/2015 22:59	CH
Chloroethane	BRL	10		ug/L	205941	1	04/13/2015 22:59	CH
Chloroform	BRL	5.0		ug/L	205941	1	04/13/2015 22:59	CH
Chloromethane	BRL	10		ug/L	205941	1	04/13/2015 22:59	CH
cis-1,2-Dichloroethene	BRL	5.0		ug/L	205941	1	04/13/2015 22:59	CH
cis-1,3-Dichloropropene	BRL	5.0		ug/L	205941	1	04/13/2015 22:59	CH
Cyclohexane	BRL	5.0		ug/L	205941	1	04/13/2015 22:59	CH
Dibromochloromethane	BRL	5.0		ug/L	205941	1	04/13/2015 22:59	CH
Dichlorodifluoromethane	BRL	10		ug/L	205941	1	04/13/2015 22:59	CH
Ethylbenzene	BRL	5.0		ug/L	205941	1	04/13/2015 22:59	CH
Freon-113	BRL	10		ug/L	205941	1	04/13/2015 22:59	CH
Isopropylbenzene	BRL	5.0		ug/L	205941	1	04/13/2015 22:59	CH
m,p-Xylene	BRL	5.0		ug/L	205941	1	04/13/2015 22:59	CH
Methyl acetate	BRL	5.0		ug/L	205941	1	04/13/2015 22:59	CH
Methyl tert-butyl ether	BRL	5.0		ug/L	205941	1	04/13/2015 22:59	CH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: EarthCon Consultants, Inc.	Client Sample ID: MW-5
Project Name: Apollo--Smryna	Collection Date: 4/8/2015 12:25:00 PM
Lab ID: 1504657-005	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					(SW5030B)			
Methylcyclohexane	BRL	5.0		ug/L	205941	1	04/13/2015 22:59	CH
Methylene chloride	BRL	5.0		ug/L	205941	1	04/13/2015 22:59	CH
o-Xylene	BRL	5.0		ug/L	205941	1	04/13/2015 22:59	CH
Styrene	BRL	5.0		ug/L	205941	1	04/13/2015 22:59	CH
Tetrachloroethene	BRL	5.0		ug/L	205941	1	04/13/2015 22:59	CH
Toluene	BRL	5.0		ug/L	205941	1	04/13/2015 22:59	CH
trans-1,2-Dichloroethene	BRL	5.0		ug/L	205941	1	04/13/2015 22:59	CH
trans-1,3-Dichloropropene	BRL	5.0		ug/L	205941	1	04/13/2015 22:59	CH
Trichloroethene	BRL	5.0		ug/L	205941	1	04/13/2015 22:59	CH
Trichlorofluoromethane	BRL	5.0		ug/L	205941	1	04/13/2015 22:59	CH
Vinyl chloride	BRL	2.0		ug/L	205941	1	04/13/2015 22:59	CH
Surr: 4-Bromofluorobenzene	79.3	70.6-123		%REC	205941	1	04/13/2015 22:59	CH
Surr: Dibromofluoromethane	115	78.7-124		%REC	205941	1	04/13/2015 22:59	CH
Surr: Toluene-d8	96.4	81.3-120		%REC	205941	1	04/13/2015 22:59	CH
Sulfide by SM4500-S2-F								
Sulfide	BRL	1.00		mg/L	R289677	1	04/13/2015 12:35	PF
ION SCAN SW9056A								
Chloride	5.3	1.0		mg/L	R289844	1	04/09/2015 13:14	JW
Nitrate	0.55	0.25		mg/L	R289844	1	04/09/2015 13:14	JW
Sulfate	1.2	1.0		mg/L	R289844	1	04/09/2015 13:14	JW
GC Analysis of Gaseous Samples SOP-RSK 175					(RSK175)			
Ethane	BRL	9		ug/L	205953	1	04/14/2015 10:01	AB
Ethylene	BRL	7		ug/L	205953	1	04/14/2015 10:01	AB
Methane	28	4		ug/L	205953	1	04/14/2015 10:01	AB
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	31.0	3.00		mg/L	R289924	1	04/14/2015 11:40	PF

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 21-Apr-15

Client: EarthCon Consultants, Inc.	Client Sample ID: MW-7
Project Name: Apollo--Smryna	Collection Date: 4/8/2015 3:00:00 PM
Lab ID: 1504657-006	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) SW9060A								
Organic Carbon, Total	1.87	1.00		mg/L	R289683	1	04/10/2015 16:06	YS
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	205941	1	04/14/2015 23:58	CH
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	205941	1	04/14/2015 23:58	CH
1,1,2-Trichloroethane	BRL	5.0		ug/L	205941	1	04/14/2015 23:58	CH
1,1-Dichloroethane	BRL	5.0		ug/L	205941	1	04/14/2015 23:58	CH
1,1-Dichloroethene	BRL	5.0		ug/L	205941	1	04/14/2015 23:58	CH
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	205941	1	04/14/2015 23:58	CH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	205941	1	04/14/2015 23:58	CH
1,2-Dibromoethane	BRL	5.0		ug/L	205941	1	04/14/2015 23:58	CH
1,2-Dichlorobenzene	BRL	5.0		ug/L	205941	1	04/14/2015 23:58	CH
1,2-Dichloroethane	BRL	5.0		ug/L	205941	1	04/14/2015 23:58	CH
1,2-Dichloropropane	BRL	5.0		ug/L	205941	1	04/14/2015 23:58	CH
1,3-Dichlorobenzene	BRL	5.0		ug/L	205941	1	04/14/2015 23:58	CH
1,4-Dichlorobenzene	BRL	5.0		ug/L	205941	1	04/14/2015 23:58	CH
2-Butanone	BRL	50		ug/L	205941	1	04/14/2015 23:58	CH
2-Hexanone	BRL	10		ug/L	205941	1	04/14/2015 23:58	CH
4-Methyl-2-pentanone	BRL	10		ug/L	205941	1	04/14/2015 23:58	CH
Acetone	BRL	50		ug/L	205941	1	04/14/2015 23:58	CH
Benzene	BRL	5.0		ug/L	205941	1	04/14/2015 23:58	CH
Bromodichloromethane	BRL	5.0		ug/L	205941	1	04/14/2015 23:58	CH
Bromoform	BRL	5.0		ug/L	205941	1	04/14/2015 23:58	CH
Bromomethane	BRL	5.0		ug/L	205941	1	04/14/2015 23:58	CH
Carbon disulfide	BRL	5.0		ug/L	205941	1	04/14/2015 23:58	CH
Carbon tetrachloride	BRL	5.0		ug/L	205941	1	04/14/2015 23:58	CH
Chlorobenzene	BRL	5.0		ug/L	205941	1	04/14/2015 23:58	CH
Chloroethane	BRL	10		ug/L	205941	1	04/14/2015 23:58	CH
Chloroform	BRL	5.0		ug/L	205941	1	04/14/2015 23:58	CH
Chloromethane	BRL	10		ug/L	205941	1	04/14/2015 23:58	CH
cis-1,2-Dichloroethene	35	5.0		ug/L	205941	1	04/14/2015 23:58	CH
cis-1,3-Dichloropropene	BRL	5.0		ug/L	205941	1	04/14/2015 23:58	CH
Cyclohexane	BRL	5.0		ug/L	205941	1	04/14/2015 23:58	CH
Dibromochloromethane	BRL	5.0		ug/L	205941	1	04/14/2015 23:58	CH
Dichlorodifluoromethane	BRL	10		ug/L	205941	1	04/14/2015 23:58	CH
Ethylbenzene	BRL	5.0		ug/L	205941	1	04/14/2015 23:58	CH
Freon-113	BRL	10		ug/L	205941	1	04/14/2015 23:58	CH
Isopropylbenzene	BRL	5.0		ug/L	205941	1	04/14/2015 23:58	CH
m,p-Xylene	BRL	5.0		ug/L	205941	1	04/14/2015 23:58	CH
Methyl acetate	BRL	5.0		ug/L	205941	1	04/14/2015 23:58	CH
Methyl tert-butyl ether	BRL	5.0		ug/L	205941	1	04/14/2015 23:58	CH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: EarthCon Consultants, Inc.	Client Sample ID: MW-7
Project Name: Apollo--Smryna	Collection Date: 4/8/2015 3:00:00 PM
Lab ID: 1504657-006	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					(SW5030B)			
Methylcyclohexane	BRL	5.0		ug/L	205941	1	04/14/2015 23:58	CH
Methylene chloride	BRL	5.0		ug/L	205941	1	04/14/2015 23:58	CH
o-Xylene	BRL	5.0		ug/L	205941	1	04/14/2015 23:58	CH
Styrene	BRL	5.0		ug/L	205941	1	04/14/2015 23:58	CH
Tetrachloroethene	BRL	5.0		ug/L	205941	1	04/14/2015 23:58	CH
Toluene	BRL	5.0		ug/L	205941	1	04/14/2015 23:58	CH
trans-1,2-Dichloroethene	BRL	5.0		ug/L	205941	1	04/14/2015 23:58	CH
trans-1,3-Dichloropropene	BRL	5.0		ug/L	205941	1	04/14/2015 23:58	CH
Trichloroethene	BRL	5.0		ug/L	205941	1	04/14/2015 23:58	CH
Trichlorofluoromethane	BRL	5.0		ug/L	205941	1	04/14/2015 23:58	CH
Vinyl chloride	47	2.0		ug/L	205941	1	04/14/2015 23:58	CH
Surr: 4-Bromofluorobenzene	83.7	70.6-123		%REC	205941	1	04/14/2015 23:58	CH
Surr: Dibromofluoromethane	110	78.7-124		%REC	205941	1	04/14/2015 23:58	CH
Surr: Toluene-d8	102	81.3-120		%REC	205941	1	04/14/2015 23:58	CH
Sulfide by SM4500-S2-F								
Sulfide	BRL	1.00		mg/L	R289677	1	04/13/2015 12:35	PF
ION SCAN SW9056A								
Chloride	9.2	1.0		mg/L	R289844	1	04/09/2015 13:28	JW
Nitrate	BRL	0.25		mg/L	R289844	1	04/09/2015 13:28	JW
Sulfate	BRL	1.0		mg/L	R289844	1	04/09/2015 13:28	JW
GC Analysis of Gaseous Samples SOP-RSK 175					(RSK175)			
Ethane	69	9		ug/L	205953	1	04/14/2015 10:09	AB
Ethylene	75	7		ug/L	205953	1	04/14/2015 10:09	AB
Methane	3900	200		ug/L	205953	50	04/14/2015 12:36	AB
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	51.0	3.00		mg/L	R289924	1	04/14/2015 11:40	PF

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 21-Apr-15

Client: EarthCon Consultants, Inc.	Client Sample ID: MW-13
Project Name: Apollo--Smryna	Collection Date: 4/8/2015 1:05:00 PM
Lab ID: 1504657-007	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) SW9060A								
Organic Carbon, Total	BRL	1.00		mg/L	R289683	1	04/10/2015 19:04	YS
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	205941	1	04/13/2015 20:13	CH
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	205941	1	04/13/2015 20:13	CH
1,1,2-Trichloroethane	BRL	5.0		ug/L	205941	1	04/13/2015 20:13	CH
1,1-Dichloroethane	BRL	5.0		ug/L	205941	1	04/13/2015 20:13	CH
1,1-Dichloroethene	BRL	5.0		ug/L	205941	1	04/13/2015 20:13	CH
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	205941	1	04/13/2015 20:13	CH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	205941	1	04/13/2015 20:13	CH
1,2-Dibromoethane	BRL	5.0		ug/L	205941	1	04/13/2015 20:13	CH
1,2-Dichlorobenzene	BRL	5.0		ug/L	205941	1	04/13/2015 20:13	CH
1,2-Dichloroethane	BRL	5.0		ug/L	205941	1	04/13/2015 20:13	CH
1,2-Dichloropropane	BRL	5.0		ug/L	205941	1	04/13/2015 20:13	CH
1,3-Dichlorobenzene	BRL	5.0		ug/L	205941	1	04/13/2015 20:13	CH
1,4-Dichlorobenzene	BRL	5.0		ug/L	205941	1	04/13/2015 20:13	CH
2-Butanone	BRL	50		ug/L	205941	1	04/13/2015 20:13	CH
2-Hexanone	BRL	10		ug/L	205941	1	04/13/2015 20:13	CH
4-Methyl-2-pentanone	BRL	10		ug/L	205941	1	04/13/2015 20:13	CH
Acetone	BRL	50		ug/L	205941	1	04/13/2015 20:13	CH
Benzene	BRL	5.0		ug/L	205941	1	04/13/2015 20:13	CH
Bromodichloromethane	BRL	5.0		ug/L	205941	1	04/13/2015 20:13	CH
Bromoform	BRL	5.0		ug/L	205941	1	04/13/2015 20:13	CH
Bromomethane	BRL	5.0		ug/L	205941	1	04/13/2015 20:13	CH
Carbon disulfide	BRL	5.0		ug/L	205941	1	04/13/2015 20:13	CH
Carbon tetrachloride	BRL	5.0		ug/L	205941	1	04/13/2015 20:13	CH
Chlorobenzene	BRL	5.0		ug/L	205941	1	04/13/2015 20:13	CH
Chloroethane	BRL	10		ug/L	205941	1	04/13/2015 20:13	CH
Chloroform	BRL	5.0		ug/L	205941	1	04/13/2015 20:13	CH
Chloromethane	BRL	10		ug/L	205941	1	04/13/2015 20:13	CH
cis-1,2-Dichloroethene	BRL	5.0		ug/L	205941	1	04/13/2015 20:13	CH
cis-1,3-Dichloropropene	BRL	5.0		ug/L	205941	1	04/13/2015 20:13	CH
Cyclohexane	BRL	5.0		ug/L	205941	1	04/13/2015 20:13	CH
Dibromochloromethane	BRL	5.0		ug/L	205941	1	04/13/2015 20:13	CH
Dichlorodifluoromethane	BRL	10		ug/L	205941	1	04/13/2015 20:13	CH
Ethylbenzene	BRL	5.0		ug/L	205941	1	04/13/2015 20:13	CH
Freon-113	BRL	10		ug/L	205941	1	04/13/2015 20:13	CH
Isopropylbenzene	BRL	5.0		ug/L	205941	1	04/13/2015 20:13	CH
m,p-Xylene	BRL	5.0		ug/L	205941	1	04/13/2015 20:13	CH
Methyl acetate	BRL	5.0		ug/L	205941	1	04/13/2015 20:13	CH
Methyl tert-butyl ether	BRL	5.0		ug/L	205941	1	04/13/2015 20:13	CH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: EarthCon Consultants, Inc.	Client Sample ID: MW-13
Project Name: Apollo--Smryna	Collection Date: 4/8/2015 1:05:00 PM
Lab ID: 1504657-007	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B			(SW5030B)					
Methylcyclohexane	BRL	5.0		ug/L	205941	1	04/13/2015 20:13	CH
Methylene chloride	BRL	5.0		ug/L	205941	1	04/13/2015 20:13	CH
o-Xylene	BRL	5.0		ug/L	205941	1	04/13/2015 20:13	CH
Styrene	BRL	5.0		ug/L	205941	1	04/13/2015 20:13	CH
Tetrachloroethene	BRL	5.0		ug/L	205941	1	04/13/2015 20:13	CH
Toluene	BRL	5.0		ug/L	205941	1	04/13/2015 20:13	CH
trans-1,2-Dichloroethene	BRL	5.0		ug/L	205941	1	04/13/2015 20:13	CH
trans-1,3-Dichloropropene	BRL	5.0		ug/L	205941	1	04/13/2015 20:13	CH
Trichloroethene	BRL	5.0		ug/L	205941	1	04/13/2015 20:13	CH
Trichlorofluoromethane	BRL	5.0		ug/L	205941	1	04/13/2015 20:13	CH
Vinyl chloride	BRL	2.0		ug/L	205941	1	04/13/2015 20:13	CH
Surr: 4-Bromofluorobenzene	78.1	70.6-123		%REC	205941	1	04/13/2015 20:13	CH
Surr: Dibromofluoromethane	121	78.7-124		%REC	205941	1	04/13/2015 20:13	CH
Surr: Toluene-d8	103	81.3-120		%REC	205941	1	04/13/2015 20:13	CH
Sulfide by SM4500-S2-F								
Sulfide	1.60	1.00		mg/L	R289677	1	04/13/2015 12:35	PF
ION SCAN SW9056A								
Chloride	10	1.0		mg/L	R289844	1	04/09/2015 13:43	JW
Nitrate	BRL	0.25		mg/L	R289844	1	04/09/2015 13:43	JW
Sulfate	1.5	1.0		mg/L	R289844	1	04/09/2015 13:43	JW
GC Analysis of Gaseous Samples SOP-RSK 175			(RSK175)					
Ethane	200	9		ug/L	205953	1	04/14/2015 10:14	AB
Ethylene	BRL	7		ug/L	205953	1	04/14/2015 10:14	AB
Methane	5400	200		ug/L	205953	50	04/14/2015 12:43	AB
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	55.0	3.00		mg/L	R289998	1	04/16/2015 15:00	PF

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 21-Apr-15

Client: EarthCon Consultants, Inc.	Client Sample ID: MW-3
Project Name: Apollo--Smryna	Collection Date: 4/8/2015 6:00:00 PM
Lab ID: 1504657-008	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) SW9060A								
Organic Carbon, Total	53.5	1.00		mg/L	R289683	1	04/10/2015 19:32	YS
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	170	5.0		ug/L	205941	1	04/14/2015 00:34	CH
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	205941	1	04/14/2015 00:34	CH
1,1,2-Trichloroethane	BRL	5.0		ug/L	205941	1	04/14/2015 00:34	CH
1,1-Dichloroethane	830	250		ug/L	205941	50	04/13/2015 21:24	CH
1,1-Dichloroethene	110	5.0		ug/L	205941	1	04/14/2015 00:34	CH
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	205941	1	04/14/2015 00:34	CH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	205941	1	04/14/2015 00:34	CH
1,2-Dibromoethane	BRL	5.0		ug/L	205941	1	04/14/2015 00:34	CH
1,2-Dichlorobenzene	BRL	5.0		ug/L	205941	1	04/14/2015 00:34	CH
1,2-Dichloroethane	BRL	5.0		ug/L	205941	1	04/14/2015 00:34	CH
1,2-Dichloropropane	BRL	5.0		ug/L	205941	1	04/14/2015 00:34	CH
1,3-Dichlorobenzene	BRL	5.0		ug/L	205941	1	04/14/2015 00:34	CH
1,4-Dichlorobenzene	BRL	5.0		ug/L	205941	1	04/14/2015 00:34	CH
2-Butanone	BRL	50		ug/L	205941	1	04/14/2015 00:34	CH
2-Hexanone	BRL	10		ug/L	205941	1	04/14/2015 00:34	CH
4-Methyl-2-pentanone	10	10		ug/L	205941	1	04/14/2015 00:34	CH
Acetone	20000	5000		ug/L	205941	100	04/14/2015 21:33	TH
Benzene	BRL	5.0		ug/L	205941	1	04/14/2015 00:34	CH
Bromodichloromethane	BRL	5.0		ug/L	205941	1	04/14/2015 00:34	CH
Bromoform	BRL	5.0		ug/L	205941	1	04/14/2015 00:34	CH
Bromomethane	BRL	5.0		ug/L	205941	1	04/14/2015 00:34	CH
Carbon disulfide	BRL	5.0		ug/L	205941	1	04/14/2015 00:34	CH
Carbon tetrachloride	BRL	5.0		ug/L	205941	1	04/14/2015 00:34	CH
Chlorobenzene	BRL	5.0		ug/L	205941	1	04/14/2015 00:34	CH
Chloroethane	600	500		ug/L	205941	50	04/13/2015 21:24	CH
Chloroform	BRL	5.0		ug/L	205941	1	04/14/2015 00:34	CH
Chloromethane	BRL	10		ug/L	205941	1	04/14/2015 00:34	CH
cis-1,2-Dichloroethene	280	250		ug/L	205941	50	04/13/2015 21:24	CH
cis-1,3-Dichloropropene	BRL	5.0		ug/L	205941	1	04/14/2015 00:34	CH
Cyclohexane	BRL	5.0		ug/L	205941	1	04/14/2015 00:34	CH
Dibromochloromethane	BRL	5.0		ug/L	205941	1	04/14/2015 00:34	CH
Dichlorodifluoromethane	BRL	10		ug/L	205941	1	04/14/2015 00:34	CH
Ethylbenzene	13	5.0		ug/L	205941	1	04/14/2015 00:34	CH
Freon-113	BRL	10		ug/L	205941	1	04/14/2015 00:34	CH
Isopropylbenzene	BRL	5.0		ug/L	205941	1	04/14/2015 00:34	CH
m,p-Xylene	62	5.0		ug/L	205941	1	04/14/2015 00:34	CH
Methyl acetate	BRL	5.0		ug/L	205941	1	04/14/2015 00:34	CH
Methyl tert-butyl ether	BRL	5.0		ug/L	205941	1	04/14/2015 00:34	CH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: EarthCon Consultants, Inc.	Client Sample ID: MW-3
Project Name: Apollo--Smryna	Collection Date: 4/8/2015 6:00:00 PM
Lab ID: 1504657-008	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
Methylcyclohexane	BRL	5.0		ug/L	205941	1	04/14/2015 00:34	CH
Methylene chloride	8.7	5.0		ug/L	205941	1	04/14/2015 00:34	CH
o-Xylene	25	5.0		ug/L	205941	1	04/14/2015 00:34	CH
Styrene	BRL	5.0		ug/L	205941	1	04/14/2015 00:34	CH
Tetrachloroethene	BRL	5.0		ug/L	205941	1	04/14/2015 00:34	CH
Toluene	260	50		ug/L	205941	10	04/14/2015 23:11	CH
trans-1,2-Dichloroethene	BRL	5.0		ug/L	205941	1	04/14/2015 00:34	CH
trans-1,3-Dichloropropene	BRL	5.0		ug/L	205941	1	04/14/2015 00:34	CH
Trichloroethene	BRL	5.0		ug/L	205941	1	04/14/2015 00:34	CH
Trichlorofluoromethane	BRL	5.0		ug/L	205941	1	04/14/2015 00:34	CH
Vinyl chloride	440	100		ug/L	205941	50	04/13/2015 21:24	CH
Surr: 4-Bromofluorobenzene	79.3	70.6-123		%REC	205941	50	04/13/2015 21:24	CH
Surr: 4-Bromofluorobenzene	86.4	70.6-123		%REC	205941	10	04/14/2015 23:11	CH
Surr: 4-Bromofluorobenzene	96.1	70.6-123		%REC	205941	1	04/14/2015 00:34	CH
Surr: 4-Bromofluorobenzene	99.8	70.6-123		%REC	205941	100	04/14/2015 21:33	TH
Surr: Dibromofluoromethane	116	78.7-124		%REC	205941	50	04/13/2015 21:24	CH
Surr: Dibromofluoromethane	109	78.7-124		%REC	205941	10	04/14/2015 23:11	CH
Surr: Dibromofluoromethane	117	78.7-124		%REC	205941	100	04/14/2015 21:33	TH
Surr: Dibromofluoromethane	122	78.7-124		%REC	205941	1	04/14/2015 00:34	CH
Surr: Toluene-d8	99	81.3-120		%REC	205941	50	04/13/2015 21:24	CH
Surr: Toluene-d8	101	81.3-120		%REC	205941	10	04/14/2015 23:11	CH
Surr: Toluene-d8	104	81.3-120		%REC	205941	100	04/14/2015 21:33	TH
Surr: Toluene-d8	109	81.3-120		%REC	205941	1	04/14/2015 00:34	CH
Sulfide by SM4500-S2-F								
Sulfide	BRL	1.00		mg/L	R289677	1	04/13/2015 12:35	PF
ION SCAN SW9056A								
Chloride	72	10		mg/L	R289844	10	04/09/2015 16:46	JW
Nitrate	BRL	2.5		mg/L	R289844	10	04/09/2015 16:46	JW
Sulfate	BRL	10		mg/L	R289844	10	04/09/2015 16:46	JW
GC Analysis of Gaseous Samples SOP-RSK 175 (RSK175)								
Ethane	280	9		ug/L	205953	1	04/14/2015 10:20	AB
Ethylene	220	7		ug/L	205953	1	04/14/2015 10:20	AB
Methane	3600	100		ug/L	205953	25	04/14/2015 12:51	AB
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	200	3.00		mg/L	R289998	1	04/16/2015 15:00	PF

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 21-Apr-15

Client: EarthCon Consultants, Inc.	Client Sample ID: MW-15
Project Name: Apollo--Smryna	Collection Date: 4/8/2015 5:00:00 PM
Lab ID: 1504657-009	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) SW9060A								
Organic Carbon, Total	7.07	1.00		mg/L	R289683	1	04/10/2015 19:58	YS
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	205941	1	04/13/2015 23:23	CH
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	205941	1	04/13/2015 23:23	CH
1,1,2-Trichloroethane	BRL	5.0		ug/L	205941	1	04/13/2015 23:23	CH
1,1-Dichloroethane	8.1	5.0		ug/L	205941	1	04/13/2015 23:23	CH
1,1-Dichloroethene	BRL	5.0		ug/L	205941	1	04/13/2015 23:23	CH
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	205941	1	04/13/2015 23:23	CH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	205941	1	04/13/2015 23:23	CH
1,2-Dibromoethane	BRL	5.0		ug/L	205941	1	04/13/2015 23:23	CH
1,2-Dichlorobenzene	BRL	5.0		ug/L	205941	1	04/13/2015 23:23	CH
1,2-Dichloroethane	BRL	5.0		ug/L	205941	1	04/13/2015 23:23	CH
1,2-Dichloropropane	BRL	5.0		ug/L	205941	1	04/13/2015 23:23	CH
1,3-Dichlorobenzene	BRL	5.0		ug/L	205941	1	04/13/2015 23:23	CH
1,4-Dichlorobenzene	BRL	5.0		ug/L	205941	1	04/13/2015 23:23	CH
2-Butanone	BRL	50		ug/L	205941	1	04/13/2015 23:23	CH
2-Hexanone	BRL	10		ug/L	205941	1	04/13/2015 23:23	CH
4-Methyl-2-pentanone	BRL	10		ug/L	205941	1	04/13/2015 23:23	CH
Acetone	BRL	50		ug/L	205941	1	04/13/2015 23:23	CH
Benzene	BRL	5.0		ug/L	205941	1	04/13/2015 23:23	CH
Bromodichloromethane	BRL	5.0		ug/L	205941	1	04/13/2015 23:23	CH
Bromoform	BRL	5.0		ug/L	205941	1	04/13/2015 23:23	CH
Bromomethane	BRL	5.0		ug/L	205941	1	04/13/2015 23:23	CH
Carbon disulfide	BRL	5.0		ug/L	205941	1	04/13/2015 23:23	CH
Carbon tetrachloride	BRL	5.0		ug/L	205941	1	04/13/2015 23:23	CH
Chlorobenzene	BRL	5.0		ug/L	205941	1	04/13/2015 23:23	CH
Chloroethane	110	10		ug/L	205941	1	04/13/2015 23:23	CH
Chloroform	BRL	5.0		ug/L	205941	1	04/13/2015 23:23	CH
Chloromethane	BRL	10		ug/L	205941	1	04/13/2015 23:23	CH
cis-1,2-Dichloroethene	BRL	5.0		ug/L	205941	1	04/13/2015 23:23	CH
cis-1,3-Dichloropropene	BRL	5.0		ug/L	205941	1	04/13/2015 23:23	CH
Cyclohexane	BRL	5.0		ug/L	205941	1	04/13/2015 23:23	CH
Dibromochloromethane	BRL	5.0		ug/L	205941	1	04/13/2015 23:23	CH
Dichlorodifluoromethane	BRL	10		ug/L	205941	1	04/13/2015 23:23	CH
Ethylbenzene	BRL	5.0		ug/L	205941	1	04/13/2015 23:23	CH
Freon-113	BRL	10		ug/L	205941	1	04/13/2015 23:23	CH
Isopropylbenzene	BRL	5.0		ug/L	205941	1	04/13/2015 23:23	CH
m,p-Xylene	BRL	5.0		ug/L	205941	1	04/13/2015 23:23	CH
Methyl acetate	BRL	5.0		ug/L	205941	1	04/13/2015 23:23	CH
Methyl tert-butyl ether	BRL	5.0		ug/L	205941	1	04/13/2015 23:23	CH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: EarthCon Consultants, Inc.	Client Sample ID: MW-15
Project Name: Apollo--Smryna	Collection Date: 4/8/2015 5:00:00 PM
Lab ID: 1504657-009	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					(SW5030B)			
Methylcyclohexane	BRL	5.0		ug/L	205941	1	04/13/2015 23:23	CH
Methylene chloride	BRL	5.0		ug/L	205941	1	04/13/2015 23:23	CH
o-Xylene	BRL	5.0		ug/L	205941	1	04/13/2015 23:23	CH
Styrene	BRL	5.0		ug/L	205941	1	04/13/2015 23:23	CH
Tetrachloroethene	BRL	5.0		ug/L	205941	1	04/13/2015 23:23	CH
Toluene	BRL	5.0		ug/L	205941	1	04/13/2015 23:23	CH
trans-1,2-Dichloroethene	BRL	5.0		ug/L	205941	1	04/13/2015 23:23	CH
trans-1,3-Dichloropropene	BRL	5.0		ug/L	205941	1	04/13/2015 23:23	CH
Trichloroethene	BRL	5.0		ug/L	205941	1	04/13/2015 23:23	CH
Trichlorofluoromethane	BRL	5.0		ug/L	205941	1	04/13/2015 23:23	CH
Vinyl chloride	10	2.0		ug/L	205941	1	04/13/2015 23:23	CH
Surr: 4-Bromofluorobenzene	83.4	70.6-123		%REC	205941	1	04/13/2015 23:23	CH
Surr: Dibromofluoromethane	119	78.7-124		%REC	205941	1	04/13/2015 23:23	CH
Surr: Toluene-d8	95	81.3-120		%REC	205941	1	04/13/2015 23:23	CH
Sulfide by SM4500-S2-F								
Sulfide	2.00	1.00		mg/L	R289677	1	04/13/2015 12:35	PF
ION SCAN SW9056A								
Chloride	36	1.0		mg/L	R289844	1	04/10/2015 09:39	JW
Nitrate	BRL	0.25		mg/L	R289844	1	04/10/2015 09:39	JW
Sulfate	1.2	1.0		mg/L	R289844	1	04/10/2015 09:39	JW
GC Analysis of Gaseous Samples SOP-RSK 175					(RSK175)			
Ethane	50	9		ug/L	205953	1	04/14/2015 10:34	AB
Ethylene	BRL	7		ug/L	205953	1	04/14/2015 10:34	AB
Methane	8700	400		ug/L	205953	100	04/14/2015 12:58	AB
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	164	3.00		mg/L	R289998	1	04/16/2015 15:00	PF

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 21-Apr-15

Client: EarthCon Consultants, Inc.	Client Sample ID: MW-1
Project Name: Apollo--Smryna	Collection Date: 4/8/2015 7:15:00 PM
Lab ID: 1504657-010	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) SW9060A								
Organic Carbon, Total	16.1	1.00		mg/L	R289683	1	04/10/2015 20:26	YS
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	14	5.0		ug/L	205941	1	04/15/2015 16:53	CH
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	205941	1	04/15/2015 16:53	CH
1,1,2-Trichloroethane	BRL	5.0		ug/L	205941	1	04/15/2015 16:53	CH
1,1-Dichloroethane	84	5.0		ug/L	205941	1	04/15/2015 16:53	CH
1,1-Dichloroethene	BRL	5.0		ug/L	205941	1	04/15/2015 16:53	CH
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	205941	1	04/15/2015 16:53	CH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	205941	1	04/15/2015 16:53	CH
1,2-Dibromoethane	BRL	5.0		ug/L	205941	1	04/15/2015 16:53	CH
1,2-Dichlorobenzene	BRL	5.0		ug/L	205941	1	04/15/2015 16:53	CH
1,2-Dichloroethane	BRL	5.0		ug/L	205941	1	04/15/2015 16:53	CH
1,2-Dichloropropane	BRL	5.0		ug/L	205941	1	04/15/2015 16:53	CH
1,3-Dichlorobenzene	BRL	5.0		ug/L	205941	1	04/15/2015 16:53	CH
1,4-Dichlorobenzene	BRL	5.0		ug/L	205941	1	04/15/2015 16:53	CH
2-Butanone	BRL	50		ug/L	205941	1	04/15/2015 16:53	CH
2-Hexanone	BRL	10		ug/L	205941	1	04/15/2015 16:53	CH
4-Methyl-2-pentanone	BRL	10		ug/L	205941	1	04/15/2015 16:53	CH
Acetone	BRL	50		ug/L	205941	1	04/15/2015 16:53	CH
Benzene	BRL	5.0		ug/L	205941	1	04/15/2015 16:53	CH
Bromodichloromethane	BRL	5.0		ug/L	205941	1	04/15/2015 16:53	CH
Bromoform	BRL	5.0		ug/L	205941	1	04/15/2015 16:53	CH
Bromomethane	BRL	5.0		ug/L	205941	1	04/15/2015 16:53	CH
Carbon disulfide	BRL	5.0		ug/L	205941	1	04/15/2015 16:53	CH
Carbon tetrachloride	BRL	5.0		ug/L	205941	1	04/15/2015 16:53	CH
Chlorobenzene	BRL	5.0		ug/L	205941	1	04/15/2015 16:53	CH
Chloroethane	10	10		ug/L	205941	1	04/15/2015 16:53	CH
Chloroform	BRL	5.0		ug/L	205941	1	04/15/2015 16:53	CH
Chloromethane	BRL	10		ug/L	205941	1	04/15/2015 16:53	CH
cis-1,2-Dichloroethene	41	5.0		ug/L	205941	1	04/15/2015 16:53	CH
cis-1,3-Dichloropropene	BRL	5.0		ug/L	205941	1	04/15/2015 16:53	CH
Cyclohexane	BRL	5.0		ug/L	205941	1	04/15/2015 16:53	CH
Dibromochloromethane	BRL	5.0		ug/L	205941	1	04/15/2015 16:53	CH
Dichlorodifluoromethane	BRL	10		ug/L	205941	1	04/15/2015 16:53	CH
Ethylbenzene	BRL	5.0		ug/L	205941	1	04/15/2015 16:53	CH
Freon-113	BRL	10		ug/L	205941	1	04/15/2015 16:53	CH
Isopropylbenzene	BRL	5.0		ug/L	205941	1	04/15/2015 16:53	CH
m,p-Xylene	BRL	5.0		ug/L	205941	1	04/15/2015 16:53	CH
Methyl acetate	BRL	5.0		ug/L	205941	1	04/15/2015 16:53	CH
Methyl tert-butyl ether	BRL	5.0		ug/L	205941	1	04/15/2015 16:53	CH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: EarthCon Consultants, Inc.	Client Sample ID: MW-1
Project Name: Apollo--Smryna	Collection Date: 4/8/2015 7:15:00 PM
Lab ID: 1504657-010	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					(SW5030B)			
Methylcyclohexane	BRL	5.0		ug/L	205941	1	04/15/2015 16:53	CH
Methylene chloride	BRL	5.0		ug/L	205941	1	04/15/2015 16:53	CH
o-Xylene	BRL	5.0		ug/L	205941	1	04/15/2015 16:53	CH
Styrene	BRL	5.0		ug/L	205941	1	04/15/2015 16:53	CH
Tetrachloroethene	8.1	5.0		ug/L	205941	1	04/15/2015 16:53	CH
Toluene	11	5.0		ug/L	205941	1	04/15/2015 16:53	CH
trans-1,2-Dichloroethene	BRL	5.0		ug/L	205941	1	04/15/2015 16:53	CH
trans-1,3-Dichloropropene	BRL	5.0		ug/L	205941	1	04/15/2015 16:53	CH
Trichloroethene	13	5.0		ug/L	205941	1	04/15/2015 16:53	CH
Trichlorofluoromethane	BRL	5.0		ug/L	205941	1	04/15/2015 16:53	CH
Vinyl chloride	30	2.0		ug/L	205941	1	04/15/2015 16:53	CH
Surr: 4-Bromofluorobenzene	79.5	70.6-123		%REC	205941	1	04/15/2015 16:53	CH
Surr: Dibromofluoromethane	115	78.7-124		%REC	205941	1	04/15/2015 16:53	CH
Surr: Toluene-d8	104	81.3-120		%REC	205941	1	04/15/2015 16:53	CH
Sulfide by SM4500-S2-F								
Sulfide	2.00	1.00		mg/L	R289677	1	04/13/2015 12:35	PF
ION SCAN SW9056A								
Chloride	29	1.0		mg/L	R289844	1	04/09/2015 17:15	JW
Nitrate	BRL	0.25		mg/L	R289844	1	04/09/2015 17:15	JW
Sulfate	16	1.0		mg/L	R289844	1	04/09/2015 17:15	JW
GC Analysis of Gaseous Samples SOP-RSK 175					(RSK175)			
Ethane	BRL	9		ug/L	205953	1	04/14/2015 10:55	AB
Ethylene	10	7		ug/L	205953	1	04/14/2015 10:55	AB
Methane	18	4		ug/L	205953	1	04/14/2015 10:55	AB
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	80.0	3.00		mg/L	R289998	1	04/16/2015 15:00	PF

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Earthcon

Work Order Number 1504657

Checklist completed by Toana Pacuvar 4/19/15
Signature Date

Carrier name: FedEx UPS Courier Client US Mail Other

Shipping container/cooler in good condition? Yes No Not Present
Custody seals intact on shipping container/cooler? Yes No Not Present
Custody seals intact on sample bottles? Yes No Not Present
Container/Temp Blank temperature in compliance? (0°≤6°C)* Yes No

Cooler #1 3.4°C Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Chain of custody present? Yes No
Chain of custody signed when relinquished and received? Yes No
Chain of custody agrees with sample labels? Yes No
Samples in proper container/bottle? Yes No
Sample containers intact? Yes No
Sufficient sample volume for indicated test? Yes No
All samples received within holding time? Yes No
Was TAT marked on the COC? Yes No
Proceed with Standard TAT as per project history? Yes No Not Applicable
Water - VOA vials have zero headspace? No VOA vials submitted Yes No
Water - pH acceptable upon receipt? Yes No Not Applicable

Adjusted? _____ Checked by JP

Sample Condition: Good Other(Explain) _____
(For diffusive samples or AIHA lead) Is a known blank included? Yes No

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

Client: EarthCon Consultants, Inc.
 Project Name: Apollo--Smryna
 Lab Order: 1504657

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1504657-001A	EB-1	4/8/2015 6:50:00AM	Aqueous	TCL VOLATILE ORGANICS		4/13/2015 3:01:00 PM	04/13/2015
1504657-002A	DW-1	4/8/2015 10:10:00AM	Groundwater	TCL VOLATILE ORGANICS		4/13/2015 3:01:00 PM	04/15/2015
1504657-002B	DW-1	4/8/2015 10:10:00AM	Groundwater	GC Analysis of Gaseous Samples		4/14/2015 9:38:30 AM	04/14/2015
1504657-002C	DW-1	4/8/2015 10:10:00AM	Groundwater	ION SCAN			04/09/2015
1504657-002D	DW-1	4/8/2015 10:10:00AM	Groundwater	Total Organic Carbon (TOC)			04/10/2015
1504657-002E	DW-1	4/8/2015 10:10:00AM	Groundwater	Alkalinity by SM2320B			04/14/2015
1504657-002F	DW-1	4/8/2015 10:10:00AM	Groundwater	Sulfide by SM4500-S2-F			04/13/2015
1504657-003A	MW-9	4/8/2015 9:45:00AM	Groundwater	TCL VOLATILE ORGANICS		4/13/2015 3:01:00 PM	04/13/2015
1504657-003B	MW-9	4/8/2015 9:45:00AM	Groundwater	GC Analysis of Gaseous Samples		4/14/2015 9:38:30 AM	04/14/2015
1504657-003C	MW-9	4/8/2015 9:45:00AM	Groundwater	ION SCAN			04/09/2015
1504657-003D	MW-9	4/8/2015 9:45:00AM	Groundwater	Total Organic Carbon (TOC)			04/10/2015
1504657-003E	MW-9	4/8/2015 9:45:00AM	Groundwater	Alkalinity by SM2320B			04/14/2015
1504657-003F	MW-9	4/8/2015 9:45:00AM	Groundwater	Sulfide by SM4500-S2-F			04/13/2015
1504657-004A	TRIP BLANK	4/8/2015 12:00:00AM	Aqueous	TCL VOLATILE ORGANICS		4/13/2015 3:01:00 PM	04/13/2015
1504657-005A	MW-5	4/8/2015 12:25:00PM	Groundwater	TCL VOLATILE ORGANICS		4/13/2015 3:01:00 PM	04/13/2015
1504657-005B	MW-5	4/8/2015 12:25:00PM	Groundwater	GC Analysis of Gaseous Samples		4/14/2015 9:38:30 AM	04/14/2015
1504657-005C	MW-5	4/8/2015 12:25:00PM	Groundwater	ION SCAN			04/09/2015
1504657-005D	MW-5	4/8/2015 12:25:00PM	Groundwater	Total Organic Carbon (TOC)			04/10/2015
1504657-005E	MW-5	4/8/2015 12:25:00PM	Groundwater	Alkalinity by SM2320B			04/14/2015
1504657-005F	MW-5	4/8/2015 12:25:00PM	Groundwater	Sulfide by SM4500-S2-F			04/13/2015
1504657-006A	MW-7	4/8/2015 3:00:00PM	Groundwater	TCL VOLATILE ORGANICS		4/13/2015 3:01:00 PM	04/14/2015
1504657-006B	MW-7	4/8/2015 3:00:00PM	Groundwater	GC Analysis of Gaseous Samples		4/14/2015 9:38:30 AM	04/14/2015
1504657-006C	MW-7	4/8/2015 3:00:00PM	Groundwater	ION SCAN			04/09/2015
1504657-006D	MW-7	4/8/2015 3:00:00PM	Groundwater	Total Organic Carbon (TOC)			04/10/2015
1504657-006E	MW-7	4/8/2015 3:00:00PM	Groundwater	Alkalinity by SM2320B			04/14/2015
1504657-006F	MW-7	4/8/2015 3:00:00PM	Groundwater	Sulfide by SM4500-S2-F			04/13/2015
1504657-007A	MW-13	4/8/2015 1:05:00PM	Groundwater	TCL VOLATILE ORGANICS		4/13/2015 3:01:00 PM	04/13/2015
1504657-007B	MW-13	4/8/2015 1:05:00PM	Groundwater	GC Analysis of Gaseous Samples		4/14/2015 9:38:30 AM	04/14/2015
1504657-007C	MW-13	4/8/2015 1:05:00PM	Groundwater	ION SCAN			04/09/2015

Client: EarthCon Consultants, Inc.
 Project Name: Apollo--Smryna
 Lab Order: 1504657

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1504657-007C	MW-13	4/8/2015 1:05:00PM	Groundwater	Alkalinity by SM2320B			04/16/2015
1504657-007D	MW-13	4/8/2015 1:05:00PM	Groundwater	Total Organic Carbon (TOC)			04/10/2015
1504657-007F	MW-13	4/8/2015 1:05:00PM	Groundwater	Sulfide by SM4500-S2-F			04/13/2015
1504657-008A	MW-3	4/8/2015 6:00:00PM	Groundwater	TCL VOLATILE ORGANICS		4/13/2015 3:01:00 PM	04/13/2015
1504657-008A	MW-3	4/8/2015 6:00:00PM	Groundwater	TCL VOLATILE ORGANICS		4/13/2015 3:01:00 PM	04/14/2015
1504657-008B	MW-3	4/8/2015 6:00:00PM	Groundwater	GC Analysis of Gaseous Samples		4/14/2015 9:38:30 AM	04/14/2015
1504657-008C	MW-3	4/8/2015 6:00:00PM	Groundwater	ION SCAN			04/09/2015
1504657-008D	MW-3	4/8/2015 6:00:00PM	Groundwater	Total Organic Carbon (TOC)			04/10/2015
1504657-008E	MW-3	4/8/2015 6:00:00PM	Groundwater	Alkalinity by SM2320B			04/16/2015
1504657-008F	MW-3	4/8/2015 6:00:00PM	Groundwater	Sulfide by SM4500-S2-F			04/13/2015
1504657-009A	MW-15	4/8/2015 5:00:00PM	Groundwater	TCL VOLATILE ORGANICS		4/13/2015 3:01:00 PM	04/13/2015
1504657-009B	MW-15	4/8/2015 5:00:00PM	Groundwater	GC Analysis of Gaseous Samples		4/14/2015 9:38:30 AM	04/14/2015
1504657-009C	MW-15	4/8/2015 5:00:00PM	Groundwater	ION SCAN			04/10/2015
1504657-009D	MW-15	4/8/2015 5:00:00PM	Groundwater	Total Organic Carbon (TOC)			04/10/2015
1504657-009E	MW-15	4/8/2015 5:00:00PM	Groundwater	Alkalinity by SM2320B			04/16/2015
1504657-009F	MW-15	4/8/2015 5:00:00PM	Groundwater	Sulfide by SM4500-S2-F			04/13/2015
1504657-010A	MW-1	4/8/2015 7:15:00PM	Groundwater	TCL VOLATILE ORGANICS		4/13/2015 3:01:00 PM	04/15/2015
1504657-010B	MW-1	4/8/2015 7:15:00PM	Groundwater	GC Analysis of Gaseous Samples		4/14/2015 9:38:30 AM	04/14/2015
1504657-010C	MW-1	4/8/2015 7:15:00PM	Groundwater	ION SCAN			04/09/2015
1504657-010D	MW-1	4/8/2015 7:15:00PM	Groundwater	Total Organic Carbon (TOC)			04/10/2015
1504657-010E	MW-1	4/8/2015 7:15:00PM	Groundwater	Alkalinity by SM2320B			04/16/2015
1504657-010F	MW-1	4/8/2015 7:15:00PM	Groundwater	Sulfide by SM4500-S2-F			04/13/2015

Client: EarthCon Consultants, Inc.
Project Name: Apollo--Smryna
Workorder: 1504657

ANALYTICAL QC SUMMARY REPORT

BatchID: 205941

Sample ID: MB-205941	Client ID:	Units: ug/L	Prep Date: 04/13/2015	Run No: 289729							
Sample Type: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 205941	Analysis Date: 04/13/2015	Seq No: 6160020							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,2,4-Trichlorobenzene	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dibromoethane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,3-Dichlorobenzene	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
2-Butanone	BRL	50									
2-Hexanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	50									
Benzene	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Bromoform	BRL	5.0									
Bromomethane	BRL	5.0									
Carbon disulfide	BRL	5.0									
Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									
Chloroform	BRL	5.0									
Chloromethane	BRL	10									

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: Apollo--Smryna
Workorder: 1504657

ANALYTICAL QC SUMMARY REPORT

BatchID: 205941

Sample ID: MB-205941	Client ID:	Units: ug/L	Prep Date: 04/13/2015	Run No: 289729							
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 205941	Analysis Date: 04/13/2015	Seq No: 6160020							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Freon-113	BRL	10									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	5.0									
Methyl acetate	BRL	5.0									
Methyl tert-butyl ether	BRL	5.0									
Methylcyclohexane	BRL	5.0									
Methylene chloride	BRL	5.0									
o-Xylene	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	2.0									
Surr: 4-Bromofluorobenzene	41.50	0	50.00		83.0	70.6	123				
Surr: Dibromofluoromethane	56.30	0	50.00		113	78.7	124				
Surr: Toluene-d8	50.09	0	50.00		100	81.3	120				

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: Apollo--Smryna
Workorder: 1504657

ANALYTICAL QC SUMMARY REPORT

BatchID: 205941

Sample ID: LCS-205941	Client ID:	Units: ug/L	Prep Date: 04/13/2015	Run No: 289729							
SampleType: LCS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 205941	Analysis Date: 04/13/2015	Seq No: 6160019							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	68.38	5.0	50.00		137	64.2	137				
Benzene	59.68	5.0	50.00		119	72.8	128				
Chlorobenzene	53.04	5.0	50.00		106	72.3	126				
Toluene	59.13	5.0	50.00		118	74.9	127				
Trichloroethene	57.04	5.0	50.00		114	70.5	134				
Surr: 4-Bromofluorobenzene	42.51	0	50.00		85.0	70.6	123				
Surr: Dibromofluoromethane	54.08	0	50.00		108	78.7	124				
Surr: Toluene-d8	50.03	0	50.00		100	81.3	120				

Sample ID: 1504763-001AMS	Client ID:	Units: ug/L	Prep Date: 04/13/2015	Run No: 289729							
SampleType: MS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 205941	Analysis Date: 04/13/2015	Seq No: 6160023							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	32910	2500	25000		132	60.5	156				
Benzene	26820	2500	25000		107	70	135				
Chlorobenzene	26220	2500	25000		105	70.5	132				
Toluene	28190	2500	25000		113	70.5	137				
Trichloroethene	25580	2500	25000		102	71.8	139				
Surr: 4-Bromofluorobenzene	23050	0	25000		92.2	70.6	123				
Surr: Dibromofluoromethane	28510	0	25000		114	78.7	124				
Surr: Toluene-d8	26290	0	25000		105	81.3	120				

Sample ID: 1504763-001AMSD	Client ID:	Units: ug/L	Prep Date: 04/13/2015	Run No: 289729							
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 205941	Analysis Date: 04/13/2015	Seq No: 6160024							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	29390	2500	25000		118	60.5	156	32910	11.3	20	
Benzene	26580	2500	25000		106	70	135	26820	0.880	20	

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: EarthCon Consultants, Inc.
Project Name: Apollo--Smryna
Workorder: 1504657

ANALYTICAL QC SUMMARY REPORT

BatchID: 205941

Sample ID: 1504763-001AMSD	Client ID:	Units: ug/L	Prep Date: 04/13/2015	Run No: 289729							
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 205941	Analysis Date: 04/13/2015	Seq No: 6160024							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chlorobenzene	25900	2500	25000		104	70.5	132	26220	1.23	20	
Toluene	27380	2500	25000		110	70.5	137	28190	2.90	20	
Trichloroethene	24840	2500	25000		99.4	71.8	139	25580	2.94	20	
Surr: 4-Bromofluorobenzene	23330	0	25000		93.3	70.6	123	23050	0	0	
Surr: Dibromofluoromethane	29100	0	25000		116	78.7	124	28510	0	0	
Surr: Toluene-d8	25200	0	25000		101	81.3	120	26290	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: Apollo--Smryna
Workorder: 1504657

ANALYTICAL QC SUMMARY REPORT

BatchID: 205953

Sample ID: MB-205953	Client ID:	Units: ug/L	Prep Date: 04/14/2015	Run No: 289777							
SampleType: MBLK	TestCode: GC Analysis of Gaseous Samples SOP-RSK 175	BatchID: 205953	Analysis Date: 04/14/2015	Seq No: 6161053							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethane	BRL	9									
Ethylene	BRL	7									
Methane	BRL	4									

Sample ID: LCS-205953	Client ID:	Units: ug/L	Prep Date: 04/14/2015	Run No: 289777							
SampleType: LCS	TestCode: GC Analysis of Gaseous Samples SOP-RSK 175	BatchID: 205953	Analysis Date: 04/14/2015	Seq No: 6161054							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethane	109.7	9	200.0		54.8	41.2	115				
Ethylene	71.04	7	200.0		35.5	26.5	115				
Methane	118.0	4	200.0		59.0	45.1	115				

Sample ID: LCSD-205953	Client ID:	Units: ug/L	Prep Date: 04/14/2015	Run No: 289777							
SampleType: LCSD	TestCode: GC Analysis of Gaseous Samples SOP-RSK 175	BatchID: 205953	Analysis Date: 04/14/2015	Seq No: 6161055							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethane	103.7	9	200.0		51.9	41.2	115	109.7	5.58	20	
Ethylene	67.66	7	200.0		33.8	26.5	115	71.04	4.87	20	
Methane	111.9	4	200.0		56.0	45.1	115	118.0	5.34	20	

Sample ID: 1504745-003BMS	Client ID:	Units: ug/L	Prep Date: 04/14/2015	Run No: 289777							
SampleType: MS	TestCode: GC Analysis of Gaseous Samples SOP-RSK 175	BatchID: 205953	Analysis Date: 04/14/2015	Seq No: 6161070							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethane	108.6	9	200.0		54.3	40.5	115				
Ethylene	68.12	7	200.0		34.1	25.1	115				
Methane	119.8	4	200.0	7.597	56.1	40.4	115				

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: EarthCon Consultants, Inc.
Project Name: Apollo--Smryna
Workorder: 1504657

ANALYTICAL QC SUMMARY REPORT

BatchID: 205953

Sample ID: 1504745-003BMSD	Client ID:	Units: ug/L	Prep Date: 04/14/2015	Run No: 289777							
SampleType: MSD	TestCode: GC Analysis of Gaseous Samples SOP-RSK 175	BatchID: 205953	Analysis Date: 04/14/2015	Seq No: 6161071							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethane	108.1	9	200.0		54.1	40.5	115	108.6	0.436	20	
Ethylene	67.76	7	200.0		33.9	25.1	115	68.12	0.533	20	
Methane	118.4	4	200.0	7.597	55.4	40.4	115	119.8	1.17	20	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: Apollo--Smryna
Workorder: 1504657

ANALYTICAL QC SUMMARY REPORT

BatchID: R289677

Sample ID: MB-R289677	Client ID:	Units: mg/L	Prep Date:	Run No: 289677							
SampleType: MBLK	TestCode: Sulfide by SM4500-S2-F	BatchID: R289677	Analysis Date: 04/13/2015	Seq No: 6158646							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Sulfide BRL 1.00

Sample ID: LCS-R289677	Client ID:	Units: mg/L	Prep Date:	Run No: 289677							
SampleType: LCS	TestCode: Sulfide by SM4500-S2-F	BatchID: R289677	Analysis Date: 04/13/2015	Seq No: 6158647							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Sulfide 296.0 1.00 296.0 100 90 110

Sample ID: 1504657-002FMS	Client ID: DW-1	Units: mg/L	Prep Date:	Run No: 289677							
SampleType: MS	TestCode: Sulfide by SM4500-S2-F	BatchID: R289677	Analysis Date: 04/13/2015	Seq No: 6158657							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Sulfide 12.40 1.00 14.80 83.8 80 120

Sample ID: 1504657-002FMSD	Client ID: DW-1	Units: mg/L	Prep Date:	Run No: 289677							
SampleType: MSD	TestCode: Sulfide by SM4500-S2-F	BatchID: R289677	Analysis Date: 04/13/2015	Seq No: 6158658							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Sulfide 12.60 1.00 14.80 85.1 80 120 12.40 1.60 20

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
BRL	Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S Spike Recovery outside limits due to matrix	

Client: EarthCon Consultants, Inc.
Project Name: Apollo--Smryna
Workorder: 1504657

ANALYTICAL QC SUMMARY REPORT

BatchID: R289683

Sample ID: MB-R289683	Client ID:	Units: mg/L	Prep Date:	Run No: 289683							
SampleType: MBLK	TestCode: Total Organic Carbon (TOC) SW9060A	BatchID: R289683	Analysis Date: 04/10/2015	Seq No: 6158830							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Organic Carbon, Total

BRL 1.00

Sample ID: LCS-R289683	Client ID:	Units: mg/L	Prep Date:	Run No: 289683							
SampleType: LCS	TestCode: Total Organic Carbon (TOC) SW9060A	BatchID: R289683	Analysis Date: 04/10/2015	Seq No: 6158829							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Organic Carbon, Total

26.90 1.00 25.00 108 90 110

Sample ID: 1504545-004DMS	Client ID:	Units: mg/L	Prep Date:	Run No: 289683							
SampleType: MS	TestCode: Total Organic Carbon (TOC) SW9060A	BatchID: R289683	Analysis Date: 04/13/2015	Seq No: 6158854							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Organic Carbon, Total

24.28 1.00 25.00 1.136 92.6 80 120

Sample ID: 1504545-004DMSD	Client ID:	Units: mg/L	Prep Date:	Run No: 289683							
SampleType: MSD	TestCode: Total Organic Carbon (TOC) SW9060A	BatchID: R289683	Analysis Date: 04/13/2015	Seq No: 6158855							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Organic Carbon, Total

25.99 1.00 25.00 1.136 99.4 80 120 24.28 6.80 20

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: EarthCon Consultants, Inc.
Project Name: Apollo--Smryna
Workorder: 1504657

ANALYTICAL QC SUMMARY REPORT

BatchID: R289844

Sample ID: MB-R289844	Client ID:	Units: mg/L	Prep Date:	Run No: 289844							
SampleType: MBLK	TestCode: ION SCAN SW9056A	BatchID: R289844	Analysis Date: 04/09/2015	Seq No: 6162843							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride	BRL	1.0									
Nitrate	BRL	0.25									
Sulfate	BRL	1.0									

Sample ID: LCS-R289844	Client ID:	Units: mg/L	Prep Date:	Run No: 289844							
SampleType: LCS	TestCode: ION SCAN SW9056A	BatchID: R289844	Analysis Date: 04/09/2015	Seq No: 6162842							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride	9.729	1.0	10.00		97.3	90	110				
Nitrate	4.722	0.25	5.000		94.4	90	110				
Sulfate	24.87	1.0	25.00		99.5	90	110				

Sample ID: 1504715-002BMS	Client ID:	Units: mg/L	Prep Date:	Run No: 289844							
SampleType: MS	TestCode: ION SCAN SW9056A	BatchID: R289844	Analysis Date: 04/09/2015	Seq No: 6162857							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride	122.3	10	100.0	39.05	83.2	90	110				S
Nitrate	46.29	2.5	50.00		92.6	90	110				
Sulfate	267.8	10	250.0	40.23	91.0	90	110				

Sample ID: 1504716-002BMS	Client ID:	Units: mg/L	Prep Date:	Run No: 289844							
SampleType: MS	TestCode: ION SCAN SW9056A	BatchID: R289844	Analysis Date: 04/09/2015	Seq No: 6162861							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride	121.4	10	100.0	35.44	85.9	90	110				S
Nitrate	49.38	2.5	50.00	3.683	91.4	90	110				
Sulfate	259.8	10	250.0	29.42	92.1	90	110				

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: EarthCon Consultants, Inc.
 Project Name: Apollo--Smryna
 Workorder: 1504657

ANALYTICAL QC SUMMARY REPORT

BatchID: R289844

Sample ID: 1504715-002BMSD	Client ID:	Units: mg/L	Prep Date:	Run No: 289844							
SampleType: MSD	TestCode: ION SCAN SW9056A	BatchID: R289844	Analysis Date: 04/09/2015	Seq No: 6162858							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride	123.6	10	100.0	39.05	84.5	90	110	122.3	1.07	20	S
Nitrate	46.79	2.5	50.00		93.6	90	110	46.29	1.07	20	
Sulfate	276.4	10	250.0	40.23	94.5	90	110	267.8	3.16	20	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
 Project Name: Apollo--Smryna
 Workorder: 1504657

ANALYTICAL QC SUMMARY REPORT

BatchID: R289924

Sample ID: MB-R289924	Client ID:	Units: mg/L	Prep Date:	Run No: 289924							
SampleType: MBLK	TestCode: Alkalinity by SM2320B	BatchID: R289924	Analysis Date: 04/14/2015	Seq No: 6164433							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Alkalinity, Total (As CaCO3)

BRL 3.00

Sample ID: LCS-R289924	Client ID:	Units: mg/L	Prep Date:	Run No: 289924							
SampleType: LCS	TestCode: Alkalinity by SM2320B	BatchID: R289924	Analysis Date: 04/14/2015	Seq No: 6164434							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Alkalinity, Total (As CaCO3)

123.0 3.00 125.0 98.4 75 125

Sample ID: 1504545-001EDUP	Client ID:	Units: mg/L	Prep Date:	Run No: 289924							
SampleType: DUP	TestCode: Alkalinity by SM2320B	BatchID: R289924	Analysis Date: 04/14/2015	Seq No: 6164442							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Alkalinity, Total (As CaCO3)

21.00 3.00 21.00 0 30

Qualifiers:
 > Greater than Result value
 BRL Below reporting limit
 J Estimated value detected below Reporting Limit
 Rpt Lim Reporting Limit

< Less than Result value
 E Estimated (value above quantitation range)
 N Analyte not NELAC certified
 S Spike Recovery outside limits due to matrix

B Analyte detected in the associated method blank
 H Holding times for preparation or analysis exceeded
 R RPD outside limits due to matrix

Client: EarthCon Consultants, Inc.
Project Name: Apollo--Smryna
Workorder: 1504657

ANALYTICAL QC SUMMARY REPORT

BatchID: R289998

Sample ID: MB-R289998	Client ID:	Units: mg/L	Prep Date:	Run No: 289998							
SampleType: MBLK	TestCode: Alkalinity by SM2320B	BatchID: R289998	Analysis Date: 04/16/2015	Seq No: 6165975							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Alkalinity, Total (As CaCO3)

BRL 3.00

Sample ID: LCS-R289998	Client ID:	Units: mg/L	Prep Date:	Run No: 289998							
SampleType: LCS	TestCode: Alkalinity by SM2320B	BatchID: R289998	Analysis Date: 04/16/2015	Seq No: 6165976							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Alkalinity, Total (As CaCO3)

123.0 3.00 125.0 98.4 75 125

Sample ID: 1504657-007CDUP	Client ID: MW-13	Units: mg/L	Prep Date:	Run No: 289998							
SampleType: DUP	TestCode: Alkalinity by SM2320B	BatchID: R289998	Analysis Date: 04/16/2015	Seq No: 6165987							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Alkalinity, Total (As CaCO3)

55.00 3.00 55.00 0 30

Qualifiers:
 > Greater than Result value
 BRL Below reporting limit
 J Estimated value detected below Reporting Limit
 Rpt Lim Reporting Limit

< Less than Result value
 E Estimated (value above quantitation range)
 N Analyte not NELAC certified
 S Spike Recovery outside limits due to matrix

B Analyte detected in the associated method blank
 H Holding times for preparation or analysis exceeded
 R RPD outside limits due to matrix



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

April 17, 2015

Kristen Rivera
EarthCon Consultants, Inc.
1880 West Oak Parkway
Marietta GA 30062

TEL: (770) 973-2100
FAX: (770) 973-7395

RE: Apollo Smyrna

Dear Kristen Rivera:

Order No: 1504658

Analytical Environmental Services, Inc. received 2 samples on 4/9/2015 7:55:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/14-06/30/15.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/15.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Chantelle Kanhai
Project Manager



ANALYTICAL ENVIRONMENTAL SERVICES, INC

3080 Presidential Drive, Atlanta GA 30340-3704

AES

TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1504658

Date: 4/8/15 Page 1 of 1

COMPANY: EarthCov Consultants, Inc		ADDRESS: 1880 WEST OAK PKWY Bld 100 STE 106 MARIETTA, GA 30062				ANALYSIS REQUESTED										Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.		No # of Containers																	
PHONE: 770-973-2100		FAX: 770-973-7395				<table border="1"> <tr> <td>VECS</td> <td>MMA GASES</td> <td>ION SOAN</td> <td>TOC</td> <td>ALKALINITY</td> <td>SULFIDE</td> <td></td> </tr> </table>													VECS	MMA GASES	ION SOAN	TOC	ALKALINITY	SULFIDE											
VECS	MMA GASES	ION SOAN	TOC	ALKALINITY	SULFIDE																														
SAMPLED BY: KEVIN ROUS		SIGNATURE: <i>[Signature]</i>				PRESERVATION (See codes)										REMARKS																			
#	SAMPLE ID	DATE	TIME	Grab	Composite	Matrix (See codes)	H	A	I	I	O																								
1	Muscle	4/8/15	1225	X		GW	2	2	1	1	1									8															
2	TRIP BLANK	4/8/15	—	X		W	2													2															
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RELINQUISHED BY: <i>[Signature]</i>		DATE/TIME 4/8/15 2010	RECEIVED BY: <i>[Signature]</i>		DATE/TIME 4/9/15 7:55	PROJECT INFORMATION										RECEIPT																			
1:			1:			PROJECT NAME: APOLLO IN SMCYANA										Total # of Containers 8/10																			
2:			2:			PROJECT #: 02-20140391.00										<input checked="" type="checkbox"/> Turnaround Time Request <input type="checkbox"/> Standard 5 Business Days <input type="checkbox"/> 2 Business Day Rush <input type="checkbox"/> Next Business Day Rush <input type="checkbox"/> Same Day Rush (auth req.) <input type="checkbox"/> Other _____																			
3:			3:			SITE ADDRESS: SMCYANA, GA																													
SPECIAL INSTRUCTIONS/COMMENTS:		SHIPMENT METHOD				INVOICE TO:										STATE PROGRAM (if any): GA																			
		OUT / / VIA:				(IF DIFFERENT FROM ABOVE)										E-mail? Y/N; Fax? Y/N																			
		IN <input checked="" type="checkbox"/> CLIENT FedEx UPS MAIL COURIER														DATA PACKAGE: I II III IV																			
		GREYHOUND OTHER _____				QUOTE #: _____ PO#: _____																													

Analytical Environmental Services, Inc

Date: 17-Apr-15

Client: EarthCon Consultants, Inc.	Client Sample ID: MW-6
Project Name: Apollo Smyrna	Collection Date: 4/8/2015 12:25:00 PM
Lab ID: 1504658-001	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) SW9060A								
Organic Carbon, Total	1.52	1.00		mg/L	R289683	1	04/10/2015 20:47	YS
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	205744	1	04/09/2015 19:56	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	205744	1	04/09/2015 19:56	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	205744	1	04/09/2015 19:56	GK
1,1-Dichloroethane	10.0	5.0		ug/L	205744	1	04/09/2015 19:56	GK
1,1-Dichloroethene	92	5.0		ug/L	205744	1	04/09/2015 19:56	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	205744	1	04/09/2015 19:56	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	205744	1	04/09/2015 19:56	GK
1,2-Dibromoethane	BRL	5.0		ug/L	205744	1	04/09/2015 19:56	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	205744	1	04/09/2015 19:56	GK
1,2-Dichloroethane	BRL	5.0		ug/L	205744	1	04/09/2015 19:56	GK
1,2-Dichloropropane	BRL	5.0		ug/L	205744	1	04/09/2015 19:56	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	205744	1	04/09/2015 19:56	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	205744	1	04/09/2015 19:56	GK
2-Butanone	BRL	50		ug/L	205744	1	04/09/2015 19:56	GK
2-Hexanone	BRL	10		ug/L	205744	1	04/09/2015 19:56	GK
4-Methyl-2-pentanone	BRL	10		ug/L	205744	1	04/09/2015 19:56	GK
Acetone	BRL	50		ug/L	205744	1	04/09/2015 19:56	GK
Benzene	BRL	5.0		ug/L	205744	1	04/09/2015 19:56	GK
Bromodichloromethane	BRL	5.0		ug/L	205744	1	04/09/2015 19:56	GK
Bromoform	BRL	5.0		ug/L	205744	1	04/09/2015 19:56	GK
Bromomethane	BRL	5.0		ug/L	205744	1	04/09/2015 19:56	GK
Carbon disulfide	BRL	5.0		ug/L	205744	1	04/09/2015 19:56	GK
Carbon tetrachloride	BRL	5.0		ug/L	205744	1	04/09/2015 19:56	GK
Chlorobenzene	BRL	5.0		ug/L	205744	1	04/09/2015 19:56	GK
Chloroethane	BRL	10		ug/L	205744	1	04/09/2015 19:56	GK
Chloroform	BRL	5.0		ug/L	205744	1	04/09/2015 19:56	GK
Chloromethane	BRL	10		ug/L	205744	1	04/09/2015 19:56	GK
cis-1,2-Dichloroethene	5.2	5.0		ug/L	205744	1	04/09/2015 19:56	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	205744	1	04/09/2015 19:56	GK
Cyclohexane	BRL	5.0		ug/L	205744	1	04/09/2015 19:56	GK
Dibromochloromethane	BRL	5.0		ug/L	205744	1	04/09/2015 19:56	GK
Dichlorodifluoromethane	BRL	10		ug/L	205744	1	04/09/2015 19:56	GK
Ethylbenzene	BRL	5.0		ug/L	205744	1	04/09/2015 19:56	GK
Freon-113	BRL	10		ug/L	205744	1	04/09/2015 19:56	GK
Isopropylbenzene	BRL	5.0		ug/L	205744	1	04/09/2015 19:56	GK
m,p-Xylene	BRL	5.0		ug/L	205744	1	04/09/2015 19:56	GK
Methyl acetate	BRL	5.0		ug/L	205744	1	04/09/2015 19:56	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	205744	1	04/09/2015 19:56	GK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: EarthCon Consultants, Inc.	Client Sample ID: MW-6
Project Name: Apollo Smyrna	Collection Date: 4/8/2015 12:25:00 PM
Lab ID: 1504658-001	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					(SW5030B)			
Methylcyclohexane	BRL	5.0		ug/L	205744	1	04/09/2015 19:56	GK
Methylene chloride	BRL	5.0		ug/L	205744	1	04/09/2015 19:56	GK
o-Xylene	BRL	5.0		ug/L	205744	1	04/09/2015 19:56	GK
Styrene	BRL	5.0		ug/L	205744	1	04/09/2015 19:56	GK
Tetrachloroethene	6.9	5.0		ug/L	205744	1	04/09/2015 19:56	GK
Toluene	BRL	5.0		ug/L	205744	1	04/09/2015 19:56	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	205744	1	04/09/2015 19:56	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	205744	1	04/09/2015 19:56	GK
Trichloroethene	BRL	5.0		ug/L	205744	1	04/09/2015 19:56	GK
Trichlorofluoromethane	BRL	5.0		ug/L	205744	1	04/09/2015 19:56	GK
Vinyl chloride	23	2.0		ug/L	205744	1	04/09/2015 19:56	GK
Surr: 4-Bromofluorobenzene	96.6	70.6-123		%REC	205744	1	04/09/2015 19:56	GK
Surr: Dibromofluoromethane	110	78.7-124		%REC	205744	1	04/09/2015 19:56	GK
Surr: Toluene-d8	102	81.3-120		%REC	205744	1	04/09/2015 19:56	GK
Sulfide by SM4500-S2-F								
Sulfide	1.00	1.00		mg/L	R289677	1	04/13/2015 12:35	PF
ION SCAN SW9056A								
Chloride	6.6	1.0		mg/L	R289844	1	04/09/2015 12:30	JW
Nitrate	BRL	0.25		mg/L	R289844	1	04/09/2015 12:30	JW
Sulfate	2.7	1.0		mg/L	R289844	1	04/09/2015 12:30	JW
GC Analysis of Gaseous Samples SOP-RSK 175					(RSK175)			
Ethane	9	9		ug/L	205953	1	04/14/2015 11:00	AB
Ethylene	BRL	7		ug/L	205953	1	04/14/2015 11:00	AB
Methane	1400	40		ug/L	205953	10	04/14/2015 13:03	AB
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	64.0	3.00		mg/L	R289998	1	04/16/2015 15:00	PF

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: EarthCon Consultants, Inc.	Client Sample ID: TRIP BLANK
Project Name: Apollo Smyrna	Collection Date: 4/8/2015
Lab ID: 1504658-002	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	205744	1	04/09/2015 19:32	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	205744	1	04/09/2015 19:32	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	205744	1	04/09/2015 19:32	GK
1,1-Dichloroethane	BRL	5.0		ug/L	205744	1	04/09/2015 19:32	GK
1,1-Dichloroethene	BRL	5.0		ug/L	205744	1	04/09/2015 19:32	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	205744	1	04/09/2015 19:32	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	205744	1	04/09/2015 19:32	GK
1,2-Dibromoethane	BRL	5.0		ug/L	205744	1	04/09/2015 19:32	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	205744	1	04/09/2015 19:32	GK
1,2-Dichloroethane	BRL	5.0		ug/L	205744	1	04/09/2015 19:32	GK
1,2-Dichloropropane	BRL	5.0		ug/L	205744	1	04/09/2015 19:32	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	205744	1	04/09/2015 19:32	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	205744	1	04/09/2015 19:32	GK
2-Butanone	BRL	50		ug/L	205744	1	04/09/2015 19:32	GK
2-Hexanone	BRL	10		ug/L	205744	1	04/09/2015 19:32	GK
4-Methyl-2-pentanone	BRL	10		ug/L	205744	1	04/09/2015 19:32	GK
Acetone	BRL	50		ug/L	205744	1	04/09/2015 19:32	GK
Benzene	BRL	5.0		ug/L	205744	1	04/09/2015 19:32	GK
Bromodichloromethane	BRL	5.0		ug/L	205744	1	04/09/2015 19:32	GK
Bromoform	BRL	5.0		ug/L	205744	1	04/09/2015 19:32	GK
Bromomethane	BRL	5.0		ug/L	205744	1	04/09/2015 19:32	GK
Carbon disulfide	BRL	5.0		ug/L	205744	1	04/09/2015 19:32	GK
Carbon tetrachloride	BRL	5.0		ug/L	205744	1	04/09/2015 19:32	GK
Chlorobenzene	BRL	5.0		ug/L	205744	1	04/09/2015 19:32	GK
Chloroethane	BRL	10		ug/L	205744	1	04/09/2015 19:32	GK
Chloroform	BRL	5.0		ug/L	205744	1	04/09/2015 19:32	GK
Chloromethane	BRL	10		ug/L	205744	1	04/09/2015 19:32	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	205744	1	04/09/2015 19:32	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	205744	1	04/09/2015 19:32	GK
Cyclohexane	BRL	5.0		ug/L	205744	1	04/09/2015 19:32	GK
Dibromochloromethane	BRL	5.0		ug/L	205744	1	04/09/2015 19:32	GK
Dichlorodifluoromethane	BRL	10		ug/L	205744	1	04/09/2015 19:32	GK
Ethylbenzene	BRL	5.0		ug/L	205744	1	04/09/2015 19:32	GK
Freon-113	BRL	10		ug/L	205744	1	04/09/2015 19:32	GK
Isopropylbenzene	BRL	5.0		ug/L	205744	1	04/09/2015 19:32	GK
m,p-Xylene	BRL	5.0		ug/L	205744	1	04/09/2015 19:32	GK
Methyl acetate	BRL	5.0		ug/L	205744	1	04/09/2015 19:32	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	205744	1	04/09/2015 19:32	GK
Methylcyclohexane	BRL	5.0		ug/L	205744	1	04/09/2015 19:32	GK
Methylene chloride	BRL	5.0		ug/L	205744	1	04/09/2015 19:32	GK
o-Xylene	BRL	5.0		ug/L	205744	1	04/09/2015 19:32	GK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: EarthCon Consultants, Inc.	Client Sample ID: TRIP BLANK
Project Name: Apollo Smyrna	Collection Date: 4/8/2015
Lab ID: 1504658-002	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	205744	1	04/09/2015 19:32	GK
Tetrachloroethene	BRL	5.0		ug/L	205744	1	04/09/2015 19:32	GK
Toluene	BRL	5.0		ug/L	205744	1	04/09/2015 19:32	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	205744	1	04/09/2015 19:32	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	205744	1	04/09/2015 19:32	GK
Trichloroethene	BRL	5.0		ug/L	205744	1	04/09/2015 19:32	GK
Trichlorofluoromethane	BRL	5.0		ug/L	205744	1	04/09/2015 19:32	GK
Vinyl chloride	BRL	2.0		ug/L	205744	1	04/09/2015 19:32	GK
Surr: 4-Bromofluorobenzene	98	70.6-123		%REC	205744	1	04/09/2015 19:32	GK
Surr: Dibromofluoromethane	108	78.7-124		%REC	205744	1	04/09/2015 19:32	GK
Surr: Toluene-d8	105	81.3-120		%REC	205744	1	04/09/2015 19:32	GK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Earthcon

Work Order Number 1504658

Checklist completed by Joanna Pacurar 4/19/15
Signature Date

Carrier name: FedEx UPS Courier Client US Mail Other

Shipping container/cooler in good condition? Yes No Not Present
Custody seals intact on shipping container/cooler? Yes No Not Present
Custody seals intact on sample bottles? Yes No Not Present
Container/Temp Blank temperature in compliance? (0°≤6°C)* Yes No

Cooler #1 3.4°C Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Chain of custody present? Yes No
Chain of custody signed when relinquished and received? Yes No
Chain of custody agrees with sample labels? Yes No
Samples in proper container/bottle? Yes No
Sample containers intact? Yes No
Sufficient sample volume for indicated test? Yes No
All samples received within holding time? Yes No
Was TAT marked on the COC? Yes No

Proceed with Standard TAT as per project history? Yes No Not Applicable
Water - VOA vials have zero headspace? No VOA vials submitted Yes No
Water - pH acceptable upon receipt? Yes No Not Applicable

Adjusted? _____ Checked by JP
Sample Condition: Good Other(Explain) _____

(For diffusive samples or AIHA lead) Is a known blank included? Yes No

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

Client: EarthCon Consultants, Inc.
 Project Name: Apollo Smyrna
 Lab Order: 1504658

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1504658-001A	MW-6	4/8/2015 12:25:00PM	Groundwater	TCL VOLATILE ORGANICS		4/9/2015 10:21:00 AM	04/09/2015
1504658-001B	MW-6	4/8/2015 12:25:00PM	Groundwater	GC Analysis of Gaseous Samples		4/14/2015 9:38:30 AM	04/14/2015
1504658-001C	MW-6	4/8/2015 12:25:00PM	Groundwater	ION SCAN			04/09/2015
1504658-001D	MW-6	4/8/2015 12:25:00PM	Groundwater	Total Organic Carbon (TOC)			04/10/2015
1504658-001E	MW-6	4/8/2015 12:25:00PM	Groundwater	Alkalinity by SM2320B			04/16/2015
1504658-001F	MW-6	4/8/2015 12:25:00PM	Groundwater	Sulfide by SM4500-S2-F			04/13/2015
1504658-002A	TRIP BLANK	4/8/2015 12:00:00AM	Aqueous	TCL VOLATILE ORGANICS		4/9/2015 10:21:00 AM	04/09/2015

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1504658

ANALYTICAL QC SUMMARY REPORT

BatchID: 205744

Sample ID: MB-205744	Client ID:	Units: ug/L	Prep Date: 04/09/2015	Run No: 289558							
Sample Type: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 205744	Analysis Date: 04/09/2015	Seq No: 6155757							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,2,4-Trichlorobenzene	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dibromoethane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,3-Dichlorobenzene	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
2-Butanone	BRL	50									
2-Hexanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	50									
Benzene	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Bromoform	BRL	5.0									
Bromomethane	BRL	5.0									
Carbon disulfide	BRL	5.0									
Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									
Chloroform	BRL	5.0									
Chloromethane	BRL	10									

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1504658

ANALYTICAL QC SUMMARY REPORT

BatchID: 205744

Sample ID: MB-205744	Client ID:	Units: ug/L	Prep Date: 04/09/2015	Run No: 289558							
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 205744	Analysis Date: 04/09/2015	Seq No: 6155757							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Freon-113	BRL	10									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	5.0									
Methyl acetate	BRL	5.0									
Methyl tert-butyl ether	BRL	5.0									
Methylcyclohexane	BRL	5.0									
Methylene chloride	BRL	5.0									
o-Xylene	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	2.0									
Surr: 4-Bromofluorobenzene	48.37	0	50.00		96.7	70.6	123				
Surr: Dibromofluoromethane	55.06	0	50.00		110	78.7	124				
Surr: Toluene-d8	51.77	0	50.00		104	81.3	120				

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1504658

ANALYTICAL QC SUMMARY REPORT

BatchID: 205744

Sample ID: LCS-205744	Client ID:	Units: ug/L	Prep Date: 04/09/2015	Run No: 289558							
SampleType: LCS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 205744	Analysis Date: 04/09/2015	Seq No: 6155756							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	39.00	5.0	50.00		78.0	64.2	137				
Benzene	40.96	5.0	50.00		81.9	72.8	128				
Chlorobenzene	43.90	5.0	50.00		87.8	72.3	126				
Toluene	42.26	5.0	50.00		84.5	74.9	127				
Trichloroethene	44.26	5.0	50.00		88.5	70.5	134				
Surr: 4-Bromofluorobenzene	49.20	0	50.00		98.4	70.6	123				
Surr: Dibromofluoromethane	55.11	0	50.00		110	78.7	124				
Surr: Toluene-d8	51.91	0	50.00		104	81.3	120				

Sample ID: 1504652-001AMS	Client ID:	Units: ug/L	Prep Date: 04/09/2015	Run No: 289558							
SampleType: MS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 205744	Analysis Date: 04/09/2015	Seq No: 6155759							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	40.16	5.0	50.00		80.3	60.5	156				
Benzene	42.41	5.0	50.00		84.8	70	135				
Chlorobenzene	44.62	5.0	50.00		89.2	70.5	132				
Toluene	43.81	5.0	50.00		87.6	70.5	137				
Trichloroethene	45.46	5.0	50.00		90.9	71.8	139				
Surr: 4-Bromofluorobenzene	48.86	0	50.00		97.7	70.6	123				
Surr: Dibromofluoromethane	55.24	0	50.00		110	78.7	124				
Surr: Toluene-d8	52.13	0	50.00		104	81.3	120				

Sample ID: 1504652-001AMSD	Client ID:	Units: ug/L	Prep Date: 04/09/2015	Run No: 289558							
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 205744	Analysis Date: 04/09/2015	Seq No: 6155760							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	38.49	5.0	50.00		77.0	60.5	156	40.16	4.25	20	
Benzene	41.80	5.0	50.00		83.6	70	135	42.41	1.45	20	

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: EarthCon Consultants, Inc.
 Project Name: Apollo Smyrna
 Workorder: 1504658

ANALYTICAL QC SUMMARY REPORT

BatchID: 205744

Sample ID: 1504652-001AMSD	Client ID:	Units: ug/L	Prep Date: 04/09/2015	Run No: 289558							
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 205744	Analysis Date: 04/09/2015	Seq No: 6155760							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chlorobenzene	45.90	5.0	50.00		91.8	70.5	132	44.62	2.83	20	
Toluene	43.19	5.0	50.00		86.4	70.5	137	43.81	1.43	20	
Trichloroethene	44.58	5.0	50.00		89.2	71.8	139	45.46	1.95	20	
Surr: 4-Bromofluorobenzene	48.98	0	50.00		98.0	70.6	123	48.86	0	0	
Surr: Dibromofluoromethane	52.51	0	50.00		105	78.7	124	55.24	0	0	
Surr: Toluene-d8	51.23	0	50.00		102	81.3	120	52.13	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1504658

ANALYTICAL QC SUMMARY REPORT

BatchID: 205953

Sample ID: MB-205953	Client ID:	Units: ug/L	Prep Date: 04/14/2015	Run No: 289777							
SampleType: MBLK	TestCode: GC Analysis of Gaseous Samples SOP-RSK 175	BatchID: 205953	Analysis Date: 04/14/2015	Seq No: 6161053							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethane	BRL	9									
Ethylene	BRL	7									
Methane	BRL	4									

Sample ID: LCS-205953	Client ID:	Units: ug/L	Prep Date: 04/14/2015	Run No: 289777							
SampleType: LCS	TestCode: GC Analysis of Gaseous Samples SOP-RSK 175	BatchID: 205953	Analysis Date: 04/14/2015	Seq No: 6161054							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethane	109.7	9	200.0		54.8	41.2	115				
Ethylene	71.04	7	200.0		35.5	26.5	115				
Methane	118.0	4	200.0		59.0	45.1	115				

Sample ID: LCSD-205953	Client ID:	Units: ug/L	Prep Date: 04/14/2015	Run No: 289777							
SampleType: LCSD	TestCode: GC Analysis of Gaseous Samples SOP-RSK 175	BatchID: 205953	Analysis Date: 04/14/2015	Seq No: 6161055							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethane	103.7	9	200.0		51.9	41.2	115	109.7	5.58	20	
Ethylene	67.66	7	200.0		33.8	26.5	115	71.04	4.87	20	
Methane	111.9	4	200.0		56.0	45.1	115	118.0	5.34	20	

Sample ID: 1504745-003BMS	Client ID:	Units: ug/L	Prep Date: 04/14/2015	Run No: 289777							
SampleType: MS	TestCode: GC Analysis of Gaseous Samples SOP-RSK 175	BatchID: 205953	Analysis Date: 04/14/2015	Seq No: 6161070							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethane	108.6	9	200.0		54.3	40.5	115				
Ethylene	68.12	7	200.0		34.1	25.1	115				
Methane	119.8	4	200.0	7.597	56.1	40.4	115				

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1504658

ANALYTICAL QC SUMMARY REPORT

BatchID: 205953

Sample ID: 1504745-003BMSD	Client ID:	Units: ug/L	Prep Date: 04/14/2015	Run No: 289777							
SampleType: MSD	TestCode: GC Analysis of Gaseous Samples SOP-RSK 175	BatchID: 205953	Analysis Date: 04/14/2015	Seq No: 6161071							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethane	108.1	9	200.0		54.1	40.5	115	108.6	0.436	20	
Ethylene	67.76	7	200.0		33.9	25.1	115	68.12	0.533	20	
Methane	118.4	4	200.0	7.597	55.4	40.4	115	119.8	1.17	20	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1504658

ANALYTICAL QC SUMMARY REPORT

BatchID: R289677

Sample ID: MB-R289677	Client ID:	Units: mg/L	Prep Date:	Run No: 289677							
SampleType: MBLK	TestCode: Sulfide by SM4500-S2-F	BatchID: R289677	Analysis Date: 04/13/2015	Seq No: 6158646							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Sulfide BRL 1.00

Sample ID: LCS-R289677	Client ID:	Units: mg/L	Prep Date:	Run No: 289677							
SampleType: LCS	TestCode: Sulfide by SM4500-S2-F	BatchID: R289677	Analysis Date: 04/13/2015	Seq No: 6158647							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Sulfide 296.0 1.00 296.0 100 90 110

Sample ID: 1504657-002FMS	Client ID:	Units: mg/L	Prep Date:	Run No: 289677							
SampleType: MS	TestCode: Sulfide by SM4500-S2-F	BatchID: R289677	Analysis Date: 04/13/2015	Seq No: 6158657							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Sulfide 12.40 1.00 14.80 83.8 80 120

Sample ID: 1504657-002FMSD	Client ID:	Units: mg/L	Prep Date:	Run No: 289677							
SampleType: MSD	TestCode: Sulfide by SM4500-S2-F	BatchID: R289677	Analysis Date: 04/13/2015	Seq No: 6158658							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Sulfide 12.60 1.00 14.80 85.1 80 120 12.40 1.60 20

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1504658

ANALYTICAL QC SUMMARY REPORT

BatchID: R289683

Sample ID: MB-R289683	Client ID:	Units: mg/L	Prep Date:	Run No: 289683							
SampleType: MBLK	TestCode: Total Organic Carbon (TOC) SW9060A	BatchID: R289683	Analysis Date: 04/10/2015	Seq No: 6158830							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Organic Carbon, Total

BRL 1.00

Sample ID: LCS-R289683	Client ID:	Units: mg/L	Prep Date:	Run No: 289683							
SampleType: LCS	TestCode: Total Organic Carbon (TOC) SW9060A	BatchID: R289683	Analysis Date: 04/10/2015	Seq No: 6158829							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Organic Carbon, Total

26.90 1.00 25.00 108 90 110

Sample ID: 1504545-004DMS	Client ID:	Units: mg/L	Prep Date:	Run No: 289683							
SampleType: MS	TestCode: Total Organic Carbon (TOC) SW9060A	BatchID: R289683	Analysis Date: 04/13/2015	Seq No: 6158854							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Organic Carbon, Total

24.28 1.00 25.00 1.136 92.6 80 120

Sample ID: 1504545-004DMSD	Client ID:	Units: mg/L	Prep Date:	Run No: 289683							
SampleType: MSD	TestCode: Total Organic Carbon (TOC) SW9060A	BatchID: R289683	Analysis Date: 04/13/2015	Seq No: 6158855							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Organic Carbon, Total

25.99 1.00 25.00 1.136 99.4 80 120 24.28 6.80 20

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
	BRL Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
	J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
	Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1504658

ANALYTICAL QC SUMMARY REPORT

BatchID: R289844

Sample ID: MB-R289844	Client ID:	Units: mg/L	Prep Date:	Run No: 289844							
SampleType: MBLK	TestCode: ION SCAN SW9056A	BatchID: R289844	Analysis Date: 04/09/2015	Seq No: 6162843							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride	BRL	1.0									
Nitrate	BRL	0.25									
Sulfate	BRL	1.0									

Sample ID: LCS-R289844	Client ID:	Units: mg/L	Prep Date:	Run No: 289844							
SampleType: LCS	TestCode: ION SCAN SW9056A	BatchID: R289844	Analysis Date: 04/09/2015	Seq No: 6162842							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride	9.729	1.0	10.00		97.3	90	110				
Nitrate	4.722	0.25	5.000		94.4	90	110				
Sulfate	24.87	1.0	25.00		99.5	90	110				

Sample ID: 1504715-002BMS	Client ID:	Units: mg/L	Prep Date:	Run No: 289844							
SampleType: MS	TestCode: ION SCAN SW9056A	BatchID: R289844	Analysis Date: 04/09/2015	Seq No: 6162857							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride	122.3	10	100.0	39.05	83.2	90	110				S
Nitrate	46.29	2.5	50.00		92.6	90	110				
Sulfate	267.8	10	250.0	40.23	91.0	90	110				

Sample ID: 1504716-002BMS	Client ID:	Units: mg/L	Prep Date:	Run No: 289844							
SampleType: MS	TestCode: ION SCAN SW9056A	BatchID: R289844	Analysis Date: 04/09/2015	Seq No: 6162861							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride	121.4	10	100.0	35.44	85.9	90	110				S
Nitrate	49.38	2.5	50.00	3.683	91.4	90	110				
Sulfate	259.8	10	250.0	29.42	92.1	90	110				

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: EarthCon Consultants, Inc.
 Project Name: Apollo Smyrna
 Workorder: 1504658

ANALYTICAL QC SUMMARY REPORT

BatchID: R289844

Sample ID: 1504715-002BMSD	Client ID:	Units: mg/L	Prep Date:	Run No: 289844							
SampleType: MSD	TestCode: ION SCAN SW9056A	BatchID: R289844	Analysis Date: 04/09/2015	Seq No: 6162858							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride	123.6	10	100.0	39.05	84.5	90	110	122.3	1.07	20	S
Nitrate	46.79	2.5	50.00		93.6	90	110	46.29	1.07	20	
Sulfate	276.4	10	250.0	40.23	94.5	90	110	267.8	3.16	20	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1504658

ANALYTICAL QC SUMMARY REPORT

BatchID: R289998

Sample ID: MB-R289998	Client ID:	Units: mg/L	Prep Date:	Run No: 289998							
SampleType: MBLK	TestCode: Alkalinity by SM2320B	BatchID: R289998	Analysis Date: 04/16/2015	Seq No: 6165975							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Alkalinity, Total (As CaCO3)

BRL 3.00

Sample ID: LCS-R289998	Client ID:	Units: mg/L	Prep Date:	Run No: 289998							
SampleType: LCS	TestCode: Alkalinity by SM2320B	BatchID: R289998	Analysis Date: 04/16/2015	Seq No: 6165976							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Alkalinity, Total (As CaCO3)

123.0 3.00 125.0 98.4 75 125

Sample ID: 1504657-007CDUP	Client ID:	Units: mg/L	Prep Date:	Run No: 289998							
SampleType: DUP	TestCode: Alkalinity by SM2320B	BatchID: R289998	Analysis Date: 04/16/2015	Seq No: 6165987							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Alkalinity, Total (As CaCO3)

55.00 3.00 55.00 0 30

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
	BRL Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
	J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
	Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	



April 21, 2015

Kristen Rivera
EarthCon Consultants, Inc.
1880 West Oak Parkway
Marietta GA 30062

TEL: (770) 973-2100
FAX: (770) 973-7395

RE: Apollo Smyrna

Dear Kristen Rivera:

Order No: 1504745

Analytical Environmental Services, Inc. received 7 samples on 4/9/2015 2:05:00 PM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/14-06/30/15.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/15.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Chantelle Kanhai
Project Manager

Client: EarthCon Consultants, Inc.

Project: Apollo Smyrna

Lab ID: 1504745

Case Narrative

Sample Receiving Nonconformance:

Sample "SW-1" was received but was not listed on the Chain of Custody. The sample was analyzed for VOCs per Kristen Rivera on 4/10/15 via email.

Analytical Environmental Services, Inc

Date: 21-Apr-15

Client: EarthCon Consultants, Inc.	Client Sample ID: MW-8
Project Name: Apollo Smyrna	Collection Date: 4/9/2015 9:45:00 AM
Lab ID: 1504745-001	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) SW9060A								
Organic Carbon, Total	2.16	1.00		mg/L	R289683	1	04/10/2015 21:36	YS
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	205928	1	04/14/2015 00:42	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	205928	1	04/14/2015 00:42	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	205928	1	04/14/2015 00:42	GK
1,1-Dichloroethane	BRL	5.0		ug/L	205928	1	04/14/2015 00:42	GK
1,1-Dichloroethene	17	5.0		ug/L	205928	1	04/14/2015 00:42	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	205928	1	04/14/2015 00:42	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	205928	1	04/14/2015 00:42	GK
1,2-Dibromoethane	BRL	5.0		ug/L	205928	1	04/14/2015 00:42	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	205928	1	04/14/2015 00:42	GK
1,2-Dichloroethane	BRL	5.0		ug/L	205928	1	04/14/2015 00:42	GK
1,2-Dichloropropane	BRL	5.0		ug/L	205928	1	04/14/2015 00:42	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	205928	1	04/14/2015 00:42	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	205928	1	04/14/2015 00:42	GK
2-Butanone	BRL	50		ug/L	205928	1	04/14/2015 00:42	GK
2-Hexanone	BRL	10		ug/L	205928	1	04/14/2015 00:42	GK
4-Methyl-2-pentanone	BRL	10		ug/L	205928	1	04/14/2015 00:42	GK
Acetone	BRL	50		ug/L	205928	1	04/14/2015 00:42	GK
Benzene	BRL	5.0		ug/L	205928	1	04/14/2015 00:42	GK
Bromodichloromethane	BRL	5.0		ug/L	205928	1	04/14/2015 00:42	GK
Bromoform	BRL	5.0		ug/L	205928	1	04/14/2015 00:42	GK
Bromomethane	BRL	5.0		ug/L	205928	1	04/14/2015 00:42	GK
Carbon disulfide	BRL	5.0		ug/L	205928	1	04/14/2015 00:42	GK
Carbon tetrachloride	BRL	5.0		ug/L	205928	1	04/14/2015 00:42	GK
Chlorobenzene	BRL	5.0		ug/L	205928	1	04/14/2015 00:42	GK
Chloroethane	BRL	10		ug/L	205928	1	04/14/2015 00:42	GK
Chloroform	5.1	5.0		ug/L	205928	1	04/14/2015 00:42	GK
Chloromethane	BRL	10		ug/L	205928	1	04/14/2015 00:42	GK
cis-1,2-Dichloroethene	33	5.0		ug/L	205928	1	04/14/2015 00:42	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	205928	1	04/14/2015 00:42	GK
Cyclohexane	BRL	5.0		ug/L	205928	1	04/14/2015 00:42	GK
Dibromochloromethane	BRL	5.0		ug/L	205928	1	04/14/2015 00:42	GK
Dichlorodifluoromethane	BRL	10		ug/L	205928	1	04/14/2015 00:42	GK
Ethylbenzene	BRL	5.0		ug/L	205928	1	04/14/2015 00:42	GK
Freon-113	BRL	10		ug/L	205928	1	04/14/2015 00:42	GK
Isopropylbenzene	BRL	5.0		ug/L	205928	1	04/14/2015 00:42	GK
m,p-Xylene	BRL	5.0		ug/L	205928	1	04/14/2015 00:42	GK
Methyl acetate	BRL	5.0		ug/L	205928	1	04/14/2015 00:42	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	205928	1	04/14/2015 00:42	GK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: EarthCon Consultants, Inc.	Client Sample ID: MW-8
Project Name: Apollo Smyrna	Collection Date: 4/9/2015 9:45:00 AM
Lab ID: 1504745-001	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
Methylcyclohexane	BRL	5.0		ug/L	205928	1	04/14/2015 00:42	GK
Methylene chloride	BRL	5.0		ug/L	205928	1	04/14/2015 00:42	GK
o-Xylene	BRL	5.0		ug/L	205928	1	04/14/2015 00:42	GK
Styrene	BRL	5.0		ug/L	205928	1	04/14/2015 00:42	GK
Tetrachloroethene	380	50		ug/L	205928	10	04/13/2015 20:41	GK
Toluene	BRL	5.0		ug/L	205928	1	04/14/2015 00:42	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	205928	1	04/14/2015 00:42	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	205928	1	04/14/2015 00:42	GK
Trichloroethene	710	50		ug/L	205928	10	04/13/2015 20:41	GK
Trichlorofluoromethane	BRL	5.0		ug/L	205928	1	04/14/2015 00:42	GK
Vinyl chloride	BRL	2.0		ug/L	205928	1	04/14/2015 00:42	GK
Surr: 4-Bromofluorobenzene	94.6	70.6-123		%REC	205928	1	04/14/2015 00:42	GK
Surr: 4-Bromofluorobenzene	96.3	70.6-123		%REC	205928	10	04/13/2015 20:41	GK
Surr: Dibromofluoromethane	104	78.7-124		%REC	205928	10	04/13/2015 20:41	GK
Surr: Dibromofluoromethane	110	78.7-124		%REC	205928	1	04/14/2015 00:42	GK
Surr: Toluene-d8	105	81.3-120		%REC	205928	1	04/14/2015 00:42	GK
Surr: Toluene-d8	104	81.3-120		%REC	205928	10	04/13/2015 20:41	GK
Sulfide by SM4500-S2-F								
Sulfide	BRL	1.00		mg/L	R289677	1	04/13/2015 12:35	PF
ION SCAN SW9056A								
Chloride	4.5	1.0		mg/L	R289844	1	04/09/2015 21:40	JW
Nitrate	BRL	0.25		mg/L	R289844	1	04/09/2015 21:40	JW
Sulfate	1.0	1.0		mg/L	R289844	1	04/09/2015 21:40	JW
GC Analysis of Gaseous Samples SOP-RSK 175 (RSK175)								
Ethane	BRL	9		ug/L	205953	1	04/14/2015 11:13	AB
Ethylene	BRL	7		ug/L	205953	1	04/14/2015 11:13	AB
Methane	460	20		ug/L	205953	5	04/14/2015 13:09	AB
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	25.0	3.00		mg/L	R289998	1	04/16/2015 15:00	PF

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 21-Apr-15

Client: EarthCon Consultants, Inc.	Client Sample ID: DUP-1
Project Name: Apollo Smyrna	Collection Date: 4/9/2015
Lab ID: 1504745-002	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) SW9060A								
Organic Carbon, Total	BRL	1.00		mg/L	R289683	1	04/10/2015 21:57	YS
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	1100	1000		ug/L	205928	500	04/13/2015 19:06	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	205928	1	04/14/2015 15:09	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	205928	1	04/14/2015 15:09	NP
1,1-Dichloroethane	57	5.0		ug/L	205928	1	04/14/2015 15:09	NP
1,1-Dichloroethene	10000	2500		ug/L	205928	500	04/13/2015 19:06	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	205928	1	04/14/2015 15:09	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	205928	1	04/14/2015 15:09	NP
1,2-Dibromoethane	BRL	5.0		ug/L	205928	1	04/14/2015 15:09	NP
1,2-Dichlorobenzene	5.1	5.0		ug/L	205928	1	04/14/2015 15:09	NP
1,2-Dichloroethane	BRL	5.0		ug/L	205928	1	04/14/2015 15:09	NP
1,2-Dichloropropane	BRL	5.0		ug/L	205928	1	04/14/2015 15:09	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	205928	1	04/14/2015 15:09	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	205928	1	04/14/2015 15:09	NP
2-Butanone	BRL	50		ug/L	205928	1	04/14/2015 15:09	NP
2-Hexanone	BRL	10		ug/L	205928	1	04/14/2015 15:09	NP
4-Methyl-2-pentanone	BRL	10		ug/L	205928	1	04/14/2015 15:09	NP
Acetone	BRL	50		ug/L	205928	1	04/14/2015 15:09	NP
Benzene	BRL	5.0		ug/L	205928	1	04/14/2015 15:09	NP
Bromodichloromethane	BRL	5.0		ug/L	205928	1	04/14/2015 15:09	NP
Bromoform	BRL	5.0		ug/L	205928	1	04/14/2015 15:09	NP
Bromomethane	BRL	5.0		ug/L	205928	1	04/14/2015 15:09	NP
Carbon disulfide	BRL	5.0		ug/L	205928	1	04/14/2015 15:09	NP
Carbon tetrachloride	BRL	5.0		ug/L	205928	1	04/14/2015 15:09	NP
Chlorobenzene	BRL	5.0		ug/L	205928	1	04/14/2015 15:09	NP
Chloroethane	BRL	10		ug/L	205928	1	04/14/2015 15:09	NP
Chloroform	BRL	5.0		ug/L	205928	1	04/14/2015 15:09	NP
Chloromethane	BRL	10		ug/L	205928	1	04/14/2015 15:09	NP
cis-1,2-Dichloroethene	20	5.0		ug/L	205928	1	04/14/2015 15:09	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	205928	1	04/14/2015 15:09	NP
Cyclohexane	9.6	5.0		ug/L	205928	1	04/14/2015 15:09	NP
Dibromochloromethane	BRL	5.0		ug/L	205928	1	04/14/2015 15:09	NP
Dichlorodifluoromethane	BRL	10		ug/L	205928	1	04/14/2015 15:09	NP
Ethylbenzene	BRL	5.0		ug/L	205928	1	04/14/2015 15:09	NP
Freon-113	1400	1000		ug/L	205928	500	04/13/2015 19:06	GK
Isopropylbenzene	BRL	5.0		ug/L	205928	1	04/14/2015 15:09	NP
m,p-Xylene	BRL	5.0		ug/L	205928	1	04/14/2015 15:09	NP
Methyl acetate	BRL	5.0		ug/L	205928	1	04/14/2015 15:09	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	205928	1	04/14/2015 15:09	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: EarthCon Consultants, Inc.	Client Sample ID: DUP-1
Project Name: Apollo Smyrna	Collection Date: 4/9/2015
Lab ID: 1504745-002	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					(SW5030B)			
Methylcyclohexane	BRL	5.0		ug/L	205928	1	04/14/2015 15:09	NP
Methylene chloride	BRL	5.0		ug/L	205928	1	04/14/2015 15:09	NP
o-Xylene	BRL	5.0		ug/L	205928	1	04/14/2015 15:09	NP
Styrene	BRL	5.0		ug/L	205928	1	04/14/2015 15:09	NP
Tetrachloroethene	1600	1000		ug/L	205928	500	04/13/2015 19:06	GK
Toluene	BRL	5.0		ug/L	205928	1	04/14/2015 15:09	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	205928	1	04/14/2015 15:09	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	205928	1	04/14/2015 15:09	NP
Trichloroethene	71	5.0		ug/L	205928	1	04/14/2015 15:09	NP
Trichlorofluoromethane	BRL	5.0		ug/L	205928	1	04/14/2015 15:09	NP
Vinyl chloride	5.5	2.0		ug/L	205928	1	04/14/2015 15:09	NP
Surr: 4-Bromofluorobenzene	96.8	70.6-123		%REC	205928	500	04/13/2015 19:06	GK
Surr: 4-Bromofluorobenzene	101	70.6-123		%REC	205928	1	04/14/2015 15:09	NP
Surr: Dibromofluoromethane	106	78.7-124		%REC	205928	500	04/13/2015 19:06	GK
Surr: Dibromofluoromethane	130	78.7-124	S	%REC	205928	1	04/14/2015 15:09	NP
Surr: Toluene-d8	104	81.3-120		%REC	205928	500	04/13/2015 19:06	GK
Surr: Toluene-d8	107	81.3-120		%REC	205928	1	04/14/2015 15:09	NP
Sulfide by SM4500-S2-F								
Sulfide	BRL	1.00		mg/L	R289677	1	04/13/2015 12:35	PF
ION SCAN SW9056A								
Chloride	53	2.0		mg/L	R289844	2	04/10/2015 10:08	JW
Nitrate	BRL	0.25		mg/L	R289844	1	04/09/2015 21:54	JW
Sulfate	BRL	1.0		mg/L	R289844	1	04/09/2015 21:54	JW
GC Analysis of Gaseous Samples SOP-RSK 175					(RSK175)			
Ethane	BRL	9		ug/L	205953	1	04/14/2015 11:18	AB
Ethylene	BRL	7		ug/L	205953	1	04/14/2015 11:18	AB
Methane	BRL	4		ug/L	205953	1	04/14/2015 11:18	AB
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	53.0	3.00		mg/L	R289998	1	04/16/2015 15:00	PF

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 21-Apr-15

Client: EarthCon Consultants, Inc.	Client Sample ID: MW-4
Project Name: Apollo Smyrna	Collection Date: 4/9/2015 9:35:00 AM
Lab ID: 1504745-003	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) SW9060A								
Organic Carbon, Total	1.09	1.00		mg/L	R289683	1	04/10/2015 22:19	YS
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	1000	1000		ug/L	205928	500	04/13/2015 19:29	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	205928	1	04/14/2015 15:33	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	205928	1	04/14/2015 15:33	NP
1,1-Dichloroethane	56	5.0		ug/L	205928	1	04/14/2015 15:33	NP
1,1-Dichloroethene	9800	2500		ug/L	205928	500	04/13/2015 19:29	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	205928	1	04/14/2015 15:33	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	205928	1	04/14/2015 15:33	NP
1,2-Dibromoethane	BRL	5.0		ug/L	205928	1	04/14/2015 15:33	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	205928	1	04/14/2015 15:33	NP
1,2-Dichloroethane	BRL	5.0		ug/L	205928	1	04/14/2015 15:33	NP
1,2-Dichloropropane	BRL	5.0		ug/L	205928	1	04/14/2015 15:33	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	205928	1	04/14/2015 15:33	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	205928	1	04/14/2015 15:33	NP
2-Butanone	BRL	50		ug/L	205928	1	04/14/2015 15:33	NP
2-Hexanone	BRL	10		ug/L	205928	1	04/14/2015 15:33	NP
4-Methyl-2-pentanone	BRL	10		ug/L	205928	1	04/14/2015 15:33	NP
Acetone	BRL	50		ug/L	205928	1	04/14/2015 15:33	NP
Benzene	BRL	5.0		ug/L	205928	1	04/14/2015 15:33	NP
Bromodichloromethane	BRL	5.0		ug/L	205928	1	04/14/2015 15:33	NP
Bromoform	BRL	5.0		ug/L	205928	1	04/14/2015 15:33	NP
Bromomethane	BRL	5.0		ug/L	205928	1	04/14/2015 15:33	NP
Carbon disulfide	BRL	5.0		ug/L	205928	1	04/14/2015 15:33	NP
Carbon tetrachloride	BRL	5.0		ug/L	205928	1	04/14/2015 15:33	NP
Chlorobenzene	BRL	5.0		ug/L	205928	1	04/14/2015 15:33	NP
Chloroethane	BRL	10		ug/L	205928	1	04/14/2015 15:33	NP
Chloroform	BRL	5.0		ug/L	205928	1	04/14/2015 15:33	NP
Chloromethane	BRL	10		ug/L	205928	1	04/14/2015 15:33	NP
cis-1,2-Dichloroethene	19	5.0		ug/L	205928	1	04/14/2015 15:33	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	205928	1	04/14/2015 15:33	NP
Cyclohexane	9.1	5.0		ug/L	205928	1	04/14/2015 15:33	NP
Dibromochloromethane	BRL	5.0		ug/L	205928	1	04/14/2015 15:33	NP
Dichlorodifluoromethane	BRL	10		ug/L	205928	1	04/14/2015 15:33	NP
Ethylbenzene	BRL	5.0		ug/L	205928	1	04/14/2015 15:33	NP
Freon-113	1400	1000		ug/L	205928	500	04/13/2015 19:29	GK
Isopropylbenzene	BRL	5.0		ug/L	205928	1	04/14/2015 15:33	NP
m,p-Xylene	BRL	5.0		ug/L	205928	1	04/14/2015 15:33	NP
Methyl acetate	BRL	5.0		ug/L	205928	1	04/14/2015 15:33	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	205928	1	04/14/2015 15:33	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: EarthCon Consultants, Inc.	Client Sample ID: MW-4
Project Name: Apollo Smyrna	Collection Date: 4/9/2015 9:35:00 AM
Lab ID: 1504745-003	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					(SW5030B)			
Methylcyclohexane	BRL	5.0		ug/L	205928	1	04/14/2015 15:33	NP
Methylene chloride	BRL	5.0		ug/L	205928	1	04/14/2015 15:33	NP
o-Xylene	BRL	5.0		ug/L	205928	1	04/14/2015 15:33	NP
Styrene	BRL	5.0		ug/L	205928	1	04/14/2015 15:33	NP
Tetrachloroethene	1600	1000		ug/L	205928	500	04/13/2015 19:29	GK
Toluene	BRL	5.0		ug/L	205928	1	04/14/2015 15:33	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	205928	1	04/14/2015 15:33	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	205928	1	04/14/2015 15:33	NP
Trichloroethene	67	5.0		ug/L	205928	1	04/14/2015 15:33	NP
Trichlorofluoromethane	BRL	5.0		ug/L	205928	1	04/14/2015 15:33	NP
Vinyl chloride	5.5	2.0		ug/L	205928	1	04/14/2015 15:33	NP
Surr: 4-Bromofluorobenzene	97.1	70.6-123		%REC	205928	500	04/13/2015 19:29	GK
Surr: 4-Bromofluorobenzene	98.1	70.6-123		%REC	205928	1	04/14/2015 15:33	NP
Surr: Dibromofluoromethane	106	78.7-124		%REC	205928	500	04/13/2015 19:29	GK
Surr: Dibromofluoromethane	132	78.7-124	S	%REC	205928	1	04/14/2015 15:33	NP
Surr: Toluene-d8	105	81.3-120		%REC	205928	500	04/13/2015 19:29	GK
Surr: Toluene-d8	105	81.3-120		%REC	205928	1	04/14/2015 15:33	NP
Sulfide by SM4500-S2-F								
Sulfide	BRL	1.00		mg/L	R289677	1	04/13/2015 12:35	PF
ION SCAN SW9056A								
Chloride	49	2.0		mg/L	R289844	2	04/10/2015 10:23	JW
Nitrate	BRL	0.25		mg/L	R289844	1	04/09/2015 22:09	JW
Sulfate	BRL	1.0		mg/L	R289844	1	04/09/2015 22:09	JW
GC Analysis of Gaseous Samples SOP-RSK 175					(RSK175)			
Ethane	BRL	9		ug/L	205953	1	04/14/2015 11:25	AB
Ethylene	BRL	7		ug/L	205953	1	04/14/2015 11:25	AB
Methane	BRL	4		ug/L	205953	1	04/14/2015 11:25	AB
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	53.0	3.00		mg/L	R289998	1	04/16/2015 15:00	PF

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: EarthCon Consultants, Inc.	Client Sample ID: TRIP BLANK
Project Name: Apollo Smyrna	Collection Date: 4/9/2015
Lab ID: 1504745-004	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	205928	1	04/13/2015 19:53	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	205928	1	04/13/2015 19:53	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	205928	1	04/13/2015 19:53	GK
1,1-Dichloroethane	BRL	5.0		ug/L	205928	1	04/13/2015 19:53	GK
1,1-Dichloroethene	BRL	5.0		ug/L	205928	1	04/13/2015 19:53	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	205928	1	04/13/2015 19:53	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	205928	1	04/13/2015 19:53	GK
1,2-Dibromoethane	BRL	5.0		ug/L	205928	1	04/13/2015 19:53	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	205928	1	04/13/2015 19:53	GK
1,2-Dichloroethane	BRL	5.0		ug/L	205928	1	04/13/2015 19:53	GK
1,2-Dichloropropane	BRL	5.0		ug/L	205928	1	04/13/2015 19:53	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	205928	1	04/13/2015 19:53	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	205928	1	04/13/2015 19:53	GK
2-Butanone	BRL	50		ug/L	205928	1	04/13/2015 19:53	GK
2-Hexanone	BRL	10		ug/L	205928	1	04/13/2015 19:53	GK
4-Methyl-2-pentanone	BRL	10		ug/L	205928	1	04/13/2015 19:53	GK
Acetone	BRL	50		ug/L	205928	1	04/13/2015 19:53	GK
Benzene	BRL	5.0		ug/L	205928	1	04/13/2015 19:53	GK
Bromodichloromethane	BRL	5.0		ug/L	205928	1	04/13/2015 19:53	GK
Bromoform	BRL	5.0		ug/L	205928	1	04/13/2015 19:53	GK
Bromomethane	BRL	5.0		ug/L	205928	1	04/13/2015 19:53	GK
Carbon disulfide	BRL	5.0		ug/L	205928	1	04/13/2015 19:53	GK
Carbon tetrachloride	BRL	5.0		ug/L	205928	1	04/13/2015 19:53	GK
Chlorobenzene	BRL	5.0		ug/L	205928	1	04/13/2015 19:53	GK
Chloroethane	BRL	10		ug/L	205928	1	04/13/2015 19:53	GK
Chloroform	BRL	5.0		ug/L	205928	1	04/13/2015 19:53	GK
Chloromethane	BRL	10		ug/L	205928	1	04/13/2015 19:53	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	205928	1	04/13/2015 19:53	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	205928	1	04/13/2015 19:53	GK
Cyclohexane	BRL	5.0		ug/L	205928	1	04/13/2015 19:53	GK
Dibromochloromethane	BRL	5.0		ug/L	205928	1	04/13/2015 19:53	GK
Dichlorodifluoromethane	BRL	10		ug/L	205928	1	04/13/2015 19:53	GK
Ethylbenzene	BRL	5.0		ug/L	205928	1	04/13/2015 19:53	GK
Freon-113	BRL	10		ug/L	205928	1	04/13/2015 19:53	GK
Isopropylbenzene	BRL	5.0		ug/L	205928	1	04/13/2015 19:53	GK
m,p-Xylene	BRL	5.0		ug/L	205928	1	04/13/2015 19:53	GK
Methyl acetate	BRL	5.0		ug/L	205928	1	04/13/2015 19:53	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	205928	1	04/13/2015 19:53	GK
Methylcyclohexane	BRL	5.0		ug/L	205928	1	04/13/2015 19:53	GK
Methylene chloride	BRL	5.0		ug/L	205928	1	04/13/2015 19:53	GK
o-Xylene	BRL	5.0		ug/L	205928	1	04/13/2015 19:53	GK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: EarthCon Consultants, Inc.	Client Sample ID: TRIP BLANK
Project Name: Apollo Smyrna	Collection Date: 4/9/2015
Lab ID: 1504745-004	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	205928	1	04/13/2015 19:53	GK
Tetrachloroethene	BRL	5.0		ug/L	205928	1	04/13/2015 19:53	GK
Toluene	BRL	5.0		ug/L	205928	1	04/13/2015 19:53	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	205928	1	04/13/2015 19:53	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	205928	1	04/13/2015 19:53	GK
Trichloroethene	BRL	5.0		ug/L	205928	1	04/13/2015 19:53	GK
Trichlorofluoromethane	BRL	5.0		ug/L	205928	1	04/13/2015 19:53	GK
Vinyl chloride	BRL	2.0		ug/L	205928	1	04/13/2015 19:53	GK
Surr: 4-Bromofluorobenzene	97.4	70.6-123		%REC	205928	1	04/13/2015 19:53	GK
Surr: Dibromofluoromethane	108	78.7-124		%REC	205928	1	04/13/2015 19:53	GK
Surr: Toluene-d8	105	81.3-120		%REC	205928	1	04/13/2015 19:53	GK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: EarthCon Consultants, Inc.	Client Sample ID: SW-2
Project Name: Apollo Smyrna	Collection Date: 4/9/2015 11:25:00 AM
Lab ID: 1504745-005	Matrix: Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	205928	1	04/13/2015 23:54	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	205928	1	04/13/2015 23:54	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	205928	1	04/13/2015 23:54	GK
1,1-Dichloroethane	BRL	5.0		ug/L	205928	1	04/13/2015 23:54	GK
1,1-Dichloroethene	BRL	5.0		ug/L	205928	1	04/13/2015 23:54	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	205928	1	04/13/2015 23:54	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	205928	1	04/13/2015 23:54	GK
1,2-Dibromoethane	BRL	5.0		ug/L	205928	1	04/13/2015 23:54	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	205928	1	04/13/2015 23:54	GK
1,2-Dichloroethane	BRL	5.0		ug/L	205928	1	04/13/2015 23:54	GK
1,2-Dichloropropane	BRL	5.0		ug/L	205928	1	04/13/2015 23:54	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	205928	1	04/13/2015 23:54	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	205928	1	04/13/2015 23:54	GK
2-Butanone	BRL	50		ug/L	205928	1	04/13/2015 23:54	GK
2-Hexanone	BRL	10		ug/L	205928	1	04/13/2015 23:54	GK
4-Methyl-2-pentanone	BRL	10		ug/L	205928	1	04/13/2015 23:54	GK
Acetone	BRL	50		ug/L	205928	1	04/13/2015 23:54	GK
Benzene	BRL	5.0		ug/L	205928	1	04/13/2015 23:54	GK
Bromodichloromethane	BRL	5.0		ug/L	205928	1	04/13/2015 23:54	GK
Bromoform	BRL	5.0		ug/L	205928	1	04/13/2015 23:54	GK
Bromomethane	BRL	5.0		ug/L	205928	1	04/13/2015 23:54	GK
Carbon disulfide	BRL	5.0		ug/L	205928	1	04/13/2015 23:54	GK
Carbon tetrachloride	BRL	5.0		ug/L	205928	1	04/13/2015 23:54	GK
Chlorobenzene	BRL	5.0		ug/L	205928	1	04/13/2015 23:54	GK
Chloroethane	BRL	10		ug/L	205928	1	04/13/2015 23:54	GK
Chloroform	BRL	5.0		ug/L	205928	1	04/13/2015 23:54	GK
Chloromethane	BRL	10		ug/L	205928	1	04/13/2015 23:54	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	205928	1	04/13/2015 23:54	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	205928	1	04/13/2015 23:54	GK
Cyclohexane	BRL	5.0		ug/L	205928	1	04/13/2015 23:54	GK
Dibromochloromethane	BRL	5.0		ug/L	205928	1	04/13/2015 23:54	GK
Dichlorodifluoromethane	BRL	10		ug/L	205928	1	04/13/2015 23:54	GK
Ethylbenzene	BRL	5.0		ug/L	205928	1	04/13/2015 23:54	GK
Freon-113	BRL	10		ug/L	205928	1	04/13/2015 23:54	GK
Isopropylbenzene	BRL	5.0		ug/L	205928	1	04/13/2015 23:54	GK
m,p-Xylene	BRL	5.0		ug/L	205928	1	04/13/2015 23:54	GK
Methyl acetate	BRL	5.0		ug/L	205928	1	04/13/2015 23:54	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	205928	1	04/13/2015 23:54	GK
Methylcyclohexane	BRL	5.0		ug/L	205928	1	04/13/2015 23:54	GK
Methylene chloride	BRL	5.0		ug/L	205928	1	04/13/2015 23:54	GK
o-Xylene	BRL	5.0		ug/L	205928	1	04/13/2015 23:54	GK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: EarthCon Consultants, Inc.	Client Sample ID: SW-2
Project Name: Apollo Smyrna	Collection Date: 4/9/2015 11:25:00 AM
Lab ID: 1504745-005	Matrix: Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					(SW5030B)			
Styrene	BRL	5.0		ug/L	205928	1	04/13/2015 23:54	GK
Tetrachloroethene	BRL	5.0		ug/L	205928	1	04/13/2015 23:54	GK
Toluene	BRL	5.0		ug/L	205928	1	04/13/2015 23:54	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	205928	1	04/13/2015 23:54	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	205928	1	04/13/2015 23:54	GK
Trichloroethene	BRL	5.0		ug/L	205928	1	04/13/2015 23:54	GK
Trichlorofluoromethane	BRL	5.0		ug/L	205928	1	04/13/2015 23:54	GK
Vinyl chloride	BRL	2.0		ug/L	205928	1	04/13/2015 23:54	GK
Surr: 4-Bromofluorobenzene	97.5	70.6-123		%REC	205928	1	04/13/2015 23:54	GK
Surr: Dibromofluoromethane	114	78.7-124		%REC	205928	1	04/13/2015 23:54	GK
Surr: Toluene-d8	105	81.3-120		%REC	205928	1	04/13/2015 23:54	GK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: EarthCon Consultants, Inc.	Client Sample ID: SED-2
Project Name: Apollo Smyrna	Collection Date: 4/9/2015 11:30:00 AM
Lab ID: 1504745-006	Matrix: Sediment

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
1,1,1-Trichloroethane	BRL	3.8		ug/Kg-dry	205837	1	04/10/2015 23:22	MD
1,1,2,2-Tetrachloroethane	BRL	3.8		ug/Kg-dry	205837	1	04/10/2015 23:22	MD
1,1,2-Trichloroethane	BRL	3.8		ug/Kg-dry	205837	1	04/10/2015 23:22	MD
1,1-Dichloroethane	BRL	3.8		ug/Kg-dry	205837	1	04/10/2015 23:22	MD
1,1-Dichloroethene	BRL	3.8		ug/Kg-dry	205837	1	04/10/2015 23:22	MD
1,2,4-Trichlorobenzene	BRL	3.8		ug/Kg-dry	205837	1	04/10/2015 23:22	MD
1,2-Dibromo-3-chloropropane	BRL	3.8		ug/Kg-dry	205837	1	04/10/2015 23:22	MD
1,2-Dibromoethane	BRL	3.8		ug/Kg-dry	205837	1	04/10/2015 23:22	MD
1,2-Dichlorobenzene	BRL	3.8		ug/Kg-dry	205837	1	04/10/2015 23:22	MD
1,2-Dichloroethane	BRL	3.8		ug/Kg-dry	205837	1	04/10/2015 23:22	MD
1,2-Dichloropropane	BRL	3.8		ug/Kg-dry	205837	1	04/10/2015 23:22	MD
1,3-Dichlorobenzene	BRL	3.8		ug/Kg-dry	205837	1	04/10/2015 23:22	MD
1,4-Dichlorobenzene	BRL	3.8		ug/Kg-dry	205837	1	04/10/2015 23:22	MD
2-Butanone	BRL	38		ug/Kg-dry	205837	1	04/10/2015 23:22	MD
2-Hexanone	BRL	7.7		ug/Kg-dry	205837	1	04/10/2015 23:22	MD
4-Methyl-2-pentanone	BRL	7.7		ug/Kg-dry	205837	1	04/10/2015 23:22	MD
Acetone	BRL	77		ug/Kg-dry	205837	1	04/10/2015 23:22	MD
Benzene	BRL	3.8		ug/Kg-dry	205837	1	04/10/2015 23:22	MD
Bromodichloromethane	BRL	3.8		ug/Kg-dry	205837	1	04/10/2015 23:22	MD
Bromoform	BRL	3.8		ug/Kg-dry	205837	1	04/10/2015 23:22	MD
Bromomethane	BRL	3.8		ug/Kg-dry	205837	1	04/10/2015 23:22	MD
Carbon disulfide	BRL	7.7		ug/Kg-dry	205837	1	04/10/2015 23:22	MD
Carbon tetrachloride	BRL	3.8		ug/Kg-dry	205837	1	04/10/2015 23:22	MD
Chlorobenzene	BRL	3.8		ug/Kg-dry	205837	1	04/10/2015 23:22	MD
Chloroethane	BRL	7.7		ug/Kg-dry	205837	1	04/10/2015 23:22	MD
Chloroform	BRL	3.8		ug/Kg-dry	205837	1	04/10/2015 23:22	MD
Chloromethane	BRL	7.7		ug/Kg-dry	205837	1	04/10/2015 23:22	MD
cis-1,2-Dichloroethene	BRL	3.8		ug/Kg-dry	205837	1	04/10/2015 23:22	MD
cis-1,3-Dichloropropene	BRL	3.8		ug/Kg-dry	205837	1	04/10/2015 23:22	MD
Cyclohexane	BRL	3.8		ug/Kg-dry	205837	1	04/10/2015 23:22	MD
Dibromochloromethane	BRL	3.8		ug/Kg-dry	205837	1	04/10/2015 23:22	MD
Dichlorodifluoromethane	BRL	7.7		ug/Kg-dry	205837	1	04/10/2015 23:22	MD
Ethylbenzene	BRL	3.8		ug/Kg-dry	205837	1	04/10/2015 23:22	MD
Freon-113	BRL	7.7		ug/Kg-dry	205837	1	04/10/2015 23:22	MD
Isopropylbenzene	BRL	3.8		ug/Kg-dry	205837	1	04/10/2015 23:22	MD
m,p-Xylene	BRL	3.8		ug/Kg-dry	205837	1	04/10/2015 23:22	MD
Methyl acetate	BRL	3.8		ug/Kg-dry	205837	1	04/10/2015 23:22	MD
Methyl tert-butyl ether	BRL	3.8		ug/Kg-dry	205837	1	04/10/2015 23:22	MD
Methylcyclohexane	BRL	3.8		ug/Kg-dry	205837	1	04/10/2015 23:22	MD
Methylene chloride	BRL	15		ug/Kg-dry	205837	1	04/10/2015 23:22	MD
o-Xylene	BRL	3.8		ug/Kg-dry	205837	1	04/10/2015 23:22	MD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: EarthCon Consultants, Inc.	Client Sample ID: SED-2
Project Name: Apollo Smyrna	Collection Date: 4/9/2015 11:30:00 AM
Lab ID: 1504745-006	Matrix: Sediment

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B			(SW5035)					
Styrene	BRL	3.8		ug/Kg-dry	205837	1	04/10/2015 23:22	MD
Tetrachloroethene	BRL	3.8		ug/Kg-dry	205837	1	04/10/2015 23:22	MD
Toluene	BRL	3.8		ug/Kg-dry	205837	1	04/10/2015 23:22	MD
trans-1,2-Dichloroethene	BRL	3.8		ug/Kg-dry	205837	1	04/10/2015 23:22	MD
trans-1,3-Dichloropropene	BRL	3.8		ug/Kg-dry	205837	1	04/10/2015 23:22	MD
Trichloroethene	BRL	3.8		ug/Kg-dry	205837	1	04/10/2015 23:22	MD
Trichlorofluoromethane	BRL	3.8		ug/Kg-dry	205837	1	04/10/2015 23:22	MD
Vinyl chloride	BRL	7.7		ug/Kg-dry	205837	1	04/10/2015 23:22	MD
Surr: 4-Bromofluorobenzene	93.9	70-128		%REC	205837	1	04/10/2015 23:22	MD
Surr: Dibromofluoromethane	98.4	78.2-128		%REC	205837	1	04/10/2015 23:22	MD
Surr: Toluene-d8	99.1	76.5-116		%REC	205837	1	04/10/2015 23:22	MD
PERCENT MOISTURE D2216								
Percent Moisture	29.6	0		wt%	R289882	1	04/15/2015 11:00	PF

Qualifiers:

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- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: EarthCon Consultants, Inc.	Client Sample ID: SW-1
Project Name: Apollo Smyrna	Collection Date: 4/9/2015 11:45:00 AM
Lab ID: 1504745-007	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	205928	1	04/14/2015 00:18	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	205928	1	04/14/2015 00:18	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	205928	1	04/14/2015 00:18	GK
1,1-Dichloroethane	5.9	5.0		ug/L	205928	1	04/14/2015 00:18	GK
1,1-Dichloroethene	BRL	5.0		ug/L	205928	1	04/14/2015 00:18	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	205928	1	04/14/2015 00:18	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	205928	1	04/14/2015 00:18	GK
1,2-Dibromoethane	BRL	5.0		ug/L	205928	1	04/14/2015 00:18	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	205928	1	04/14/2015 00:18	GK
1,2-Dichloroethane	BRL	5.0		ug/L	205928	1	04/14/2015 00:18	GK
1,2-Dichloropropane	BRL	5.0		ug/L	205928	1	04/14/2015 00:18	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	205928	1	04/14/2015 00:18	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	205928	1	04/14/2015 00:18	GK
2-Butanone	BRL	50		ug/L	205928	1	04/14/2015 00:18	GK
2-Hexanone	BRL	10		ug/L	205928	1	04/14/2015 00:18	GK
4-Methyl-2-pentanone	BRL	10		ug/L	205928	1	04/14/2015 00:18	GK
Acetone	BRL	50		ug/L	205928	1	04/14/2015 00:18	GK
Benzene	BRL	5.0		ug/L	205928	1	04/14/2015 00:18	GK
Bromodichloromethane	BRL	5.0		ug/L	205928	1	04/14/2015 00:18	GK
Bromoform	BRL	5.0		ug/L	205928	1	04/14/2015 00:18	GK
Bromomethane	BRL	5.0		ug/L	205928	1	04/14/2015 00:18	GK
Carbon disulfide	BRL	5.0		ug/L	205928	1	04/14/2015 00:18	GK
Carbon tetrachloride	BRL	5.0		ug/L	205928	1	04/14/2015 00:18	GK
Chlorobenzene	BRL	5.0		ug/L	205928	1	04/14/2015 00:18	GK
Chloroethane	BRL	10		ug/L	205928	1	04/14/2015 00:18	GK
Chloroform	BRL	5.0		ug/L	205928	1	04/14/2015 00:18	GK
Chloromethane	BRL	10		ug/L	205928	1	04/14/2015 00:18	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	205928	1	04/14/2015 00:18	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	205928	1	04/14/2015 00:18	GK
Cyclohexane	BRL	5.0		ug/L	205928	1	04/14/2015 00:18	GK
Dibromochloromethane	BRL	5.0		ug/L	205928	1	04/14/2015 00:18	GK
Dichlorodifluoromethane	BRL	10		ug/L	205928	1	04/14/2015 00:18	GK
Ethylbenzene	BRL	5.0		ug/L	205928	1	04/14/2015 00:18	GK
Freon-113	BRL	10		ug/L	205928	1	04/14/2015 00:18	GK
Isopropylbenzene	BRL	5.0		ug/L	205928	1	04/14/2015 00:18	GK
m,p-Xylene	BRL	5.0		ug/L	205928	1	04/14/2015 00:18	GK
Methyl acetate	BRL	5.0		ug/L	205928	1	04/14/2015 00:18	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	205928	1	04/14/2015 00:18	GK
Methylcyclohexane	BRL	5.0		ug/L	205928	1	04/14/2015 00:18	GK
Methylene chloride	BRL	5.0		ug/L	205928	1	04/14/2015 00:18	GK
o-Xylene	BRL	5.0		ug/L	205928	1	04/14/2015 00:18	GK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: EarthCon Consultants, Inc.	Client Sample ID: SW-1
Project Name: Apollo Smyrna	Collection Date: 4/9/2015 11:45:00 AM
Lab ID: 1504745-007	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					(SW5030B)			
Styrene	BRL	5.0		ug/L	205928	1	04/14/2015 00:18	GK
Tetrachloroethene	BRL	5.0		ug/L	205928	1	04/14/2015 00:18	GK
Toluene	BRL	5.0		ug/L	205928	1	04/14/2015 00:18	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	205928	1	04/14/2015 00:18	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	205928	1	04/14/2015 00:18	GK
Trichloroethene	BRL	5.0		ug/L	205928	1	04/14/2015 00:18	GK
Trichlorofluoromethane	BRL	5.0		ug/L	205928	1	04/14/2015 00:18	GK
Vinyl chloride	BRL	2.0		ug/L	205928	1	04/14/2015 00:18	GK
Surr: 4-Bromofluorobenzene	95.7	70.6-123		%REC	205928	1	04/14/2015 00:18	GK
Surr: Dibromofluoromethane	111	78.7-124		%REC	205928	1	04/14/2015 00:18	GK
Surr: Toluene-d8	105	81.3-120		%REC	205928	1	04/14/2015 00:18	GK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
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- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Earthcon Consultants

Work Order Number 1504745

Checklist completed by Katie Fourn 4/9/15
Signature Date

Carrier name: FedEx UPS Courier Client US Mail Other

Shipping container/cooler in good condition? Yes No Not Present

Custody seals intact on shipping container/cooler? Yes No Not Present

Custody seals intact on sample bottles? Yes No Not Present

Container/Temp Blank temperature in compliance? ($0^{\circ} \leq 6^{\circ}C$)* Yes No

Cooler #1 3.4°C Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler #5 _____ Cooler #6 _____

Chain of custody present? Yes No

Chain of custody signed when relinquished and received? Yes No

Chain of custody agrees with sample labels? Yes No

Samples in proper container/bottle? Yes No

Sample containers intact? Yes No

Sufficient sample volume for indicated test? Yes No

All samples received within holding time? Yes No

Was TAT marked on the COC? Yes No

Proceed with Standard TAT as per project history? Yes No Not Applicable

Water - VOA vials have zero headspace? No VOA vials submitted Yes No

Water - pH acceptable upon receipt? Yes No Not Applicable

Adjusted? _____ Checked by KF

Sample Condition: Good Other(Explain) _____

(For diffusive samples or AIHA lead) Is a known blank included? Yes No

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

Client: EarthCon Consultants, Inc.
 Project Name: Apollo Smyrna
 Lab Order: 1504745

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1504745-001A	MW-8	4/9/2015 9:45:00AM	Groundwater	TCL VOLATILE ORGANICS		4/13/2015 4:16:00 PM	04/13/2015
1504745-001A	MW-8	4/9/2015 9:45:00AM	Groundwater	TCL VOLATILE ORGANICS		4/13/2015 4:16:00 PM	04/14/2015
1504745-001B	MW-8	4/9/2015 9:45:00AM	Groundwater	GC Analysis of Gaseous Samples		4/14/2015 9:38:30 AM	04/14/2015
1504745-001C	MW-8	4/9/2015 9:45:00AM	Groundwater	Total Organic Carbon (TOC)			04/10/2015
1504745-001D	MW-8	4/9/2015 9:45:00AM	Groundwater	ION SCAN			04/09/2015
1504745-001E	MW-8	4/9/2015 9:45:00AM	Groundwater	Alkalinity by SM2320B			04/16/2015
1504745-001F	MW-8	4/9/2015 9:45:00AM	Groundwater	Sulfide by SM4500-S2-F			04/13/2015
1504745-002A	DUP-1	4/9/2015 12:00:00AM	Groundwater	TCL VOLATILE ORGANICS		4/13/2015 4:16:00 PM	04/13/2015
1504745-002A	DUP-1	4/9/2015 12:00:00AM	Groundwater	TCL VOLATILE ORGANICS		4/13/2015 4:16:00 PM	04/14/2015
1504745-002B	DUP-1	4/9/2015 12:00:00AM	Groundwater	GC Analysis of Gaseous Samples		4/14/2015 9:38:30 AM	04/14/2015
1504745-002C	DUP-1	4/9/2015 12:00:00AM	Groundwater	Total Organic Carbon (TOC)			04/10/2015
1504745-002D	DUP-1	4/9/2015 12:00:00AM	Groundwater	ION SCAN			04/09/2015
1504745-002D	DUP-1	4/9/2015 12:00:00AM	Groundwater	ION SCAN			04/10/2015
1504745-002E	DUP-1	4/9/2015 12:00:00AM	Groundwater	Alkalinity by SM2320B			04/16/2015
1504745-002F	DUP-1	4/9/2015 12:00:00AM	Groundwater	Sulfide by SM4500-S2-F			04/13/2015
1504745-003A	MW-4	4/9/2015 9:35:00AM	Groundwater	TCL VOLATILE ORGANICS		4/13/2015 4:16:00 PM	04/13/2015
1504745-003A	MW-4	4/9/2015 9:35:00AM	Groundwater	TCL VOLATILE ORGANICS		4/13/2015 4:16:00 PM	04/14/2015
1504745-003B	MW-4	4/9/2015 9:35:00AM	Groundwater	GC Analysis of Gaseous Samples		4/14/2015 9:38:30 AM	04/14/2015
1504745-003C	MW-4	4/9/2015 9:35:00AM	Groundwater	Total Organic Carbon (TOC)			04/10/2015
1504745-003D	MW-4	4/9/2015 9:35:00AM	Groundwater	ION SCAN			04/09/2015
1504745-003D	MW-4	4/9/2015 9:35:00AM	Groundwater	ION SCAN			04/10/2015
1504745-003E	MW-4	4/9/2015 9:35:00AM	Groundwater	Alkalinity by SM2320B			04/16/2015
1504745-003F	MW-4	4/9/2015 9:35:00AM	Groundwater	Sulfide by SM4500-S2-F			04/13/2015
1504745-004A	TRIP BLANK	4/9/2015 12:00:00AM	Groundwater	TCL VOLATILE ORGANICS		4/13/2015 4:16:00 PM	04/13/2015
1504745-005A	SW-2	4/9/2015 11:25:00AM	Surface Water	TCL VOLATILE ORGANICS		4/13/2015 4:16:00 PM	04/13/2015
1504745-006A	SED-2	4/9/2015 11:30:00AM	Sediment	TCL VOLATILE ORGANICS		4/10/2015 10:51:00 AM	04/10/2015
1504745-006B	SED-2	4/9/2015 11:30:00AM	Sediment	PERCENT MOISTURE			04/15/2015
1504745-007A	SW-1	4/9/2015 11:45:00AM	Aqueous	TCL VOLATILE ORGANICS		4/13/2015 4:16:00 PM	04/14/2015

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1504745

ANALYTICAL QC SUMMARY REPORT

BatchID: 205837

Sample ID: MB-205837	Client ID:	Units: ug/Kg	Prep Date: 04/10/2015	Run No: 289603							
Sample Type: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 205837	Analysis Date: 04/10/2015	Seq No: 6157981							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,2,4-Trichlorobenzene	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dibromoethane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,3-Dichlorobenzene	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
2-Butanone	BRL	50									
2-Hexanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	100									
Benzene	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Bromoform	BRL	5.0									
Bromomethane	BRL	5.0									
Carbon disulfide	BRL	10									
Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									
Chloroform	BRL	5.0									
Chloromethane	BRL	10									

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1504745

ANALYTICAL QC SUMMARY REPORT

BatchID: 205837

Sample ID: MB-205837	Client ID:	Units: ug/Kg	Prep Date: 04/10/2015	Run No: 289603							
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 205837	Analysis Date: 04/10/2015	Seq No: 6157981							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Freon-113	BRL	10									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	5.0									
Methyl acetate	BRL	5.0									
Methyl tert-butyl ether	BRL	5.0									
Methylcyclohexane	BRL	5.0									
Methylene chloride	BRL	20									
o-Xylene	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	10									
Surr: 4-Bromofluorobenzene	47.56	0	50.00		95.1	70	128				
Surr: Dibromofluoromethane	49.07	0	50.00		98.1	78.2	128				
Surr: Toluene-d8	49.56	0	50.00		99.1	76.5	116				

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1504745

ANALYTICAL QC SUMMARY REPORT

BatchID: 205837

Sample ID: LCS-205837	Client ID:	Units: ug/Kg	Prep Date: 04/10/2015	Run No: 289648							
SampleType: LCS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 205837	Analysis Date: 04/10/2015	Seq No: 6157984							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	45.41	5.0	50.00		90.8	69.9	145				
Benzene	51.16	5.0	50.00		102	72.3	130				
Chlorobenzene	50.56	5.0	50.00		101	69	130				
Toluene	50.43	5.0	50.00		101	71.1	130				
Trichloroethene	50.97	5.0	50.00		102	71.7	136				
Surr: 4-Bromofluorobenzene	47.87	0	50.00		95.7	70	128				
Surr: Dibromofluoromethane	49.77	0	50.00		99.5	78.2	128				
Surr: Toluene-d8	49.47	0	50.00		98.9	76.5	116				

Sample ID: 1504614-001AMS	Client ID:	Units: ug/Kg-dry	Prep Date: 04/10/2015	Run No: 289648							
SampleType: MS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 205837	Analysis Date: 04/10/2015	Seq No: 6157985							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	57.83	6.8	68.31		84.7	56.6	151				
Benzene	66.53	6.8	68.31		97.4	70.4	130				
Chlorobenzene	65.48	6.8	68.31		95.9	67.5	132				
Toluene	65.48	6.8	68.31	1.073	94.3	70.4	130				
Trichloroethene	66.09	6.8	68.31		96.8	70.1	137				
Surr: 4-Bromofluorobenzene	65.96	0	68.31		96.6	70	128				
Surr: Dibromofluoromethane	66.82	0	68.31		97.8	78.2	128				
Surr: Toluene-d8	68.21	0	68.31		99.9	76.5	116				

Sample ID: 1504614-001AMSD	Client ID:	Units: ug/Kg-dry	Prep Date: 04/10/2015	Run No: 289648							
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 205837	Analysis Date: 04/10/2015	Seq No: 6157986							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	57.79	6.8	68.31		84.6	56.6	151	57.83	0.071	20.4	
Benzene	67.66	6.8	68.31		99.1	70.4	130	66.53	1.69	16.9	

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1504745

ANALYTICAL QC SUMMARY REPORT

BatchID: 205837

Sample ID: 1504614-001AMSD	Client ID:	Units: ug/Kg-dry	Prep Date: 04/10/2015	Run No: 289648							
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 205837	Analysis Date: 04/10/2015	Seq No: 6157986							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chlorobenzene	67.25	6.8	68.31		98.5	67.5	132	65.48	2.68	14.6	
Toluene	65.37	6.8	68.31	1.073	94.1	70.4	130	65.48	0.167	16.6	
Trichloroethene	65.67	6.8	68.31		96.1	70.1	137	66.09	0.643	17	
Surr: 4-Bromofluorobenzene	64.67	0	68.31		94.7	70	128	65.96	0	0	
Surr: Dibromofluoromethane	66.13	0	68.31		96.8	78.2	128	66.82	0	0	
Surr: Toluene-d8	67.46	0	68.31		98.8	76.5	116	68.21	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1504745

ANALYTICAL QC SUMMARY REPORT

BatchID: 205928

Sample ID: MB-205928	Client ID:	Units: ug/L	Prep Date: 04/13/2015	Run No: 289718							
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 205928	Analysis Date: 04/13/2015	Seq No: 6159702							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,2,4-Trichlorobenzene	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dibromoethane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,3-Dichlorobenzene	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
2-Butanone	BRL	50									
2-Hexanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	50									
Benzene	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Bromoform	BRL	5.0									
Bromomethane	BRL	5.0									
Carbon disulfide	BRL	5.0									
Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									
Chloroform	BRL	5.0									
Chloromethane	BRL	10									

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1504745

ANALYTICAL QC SUMMARY REPORT

BatchID: 205928

Sample ID: MB-205928	Client ID:	Units: ug/L	Prep Date: 04/13/2015	Run No: 289718							
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 205928	Analysis Date: 04/13/2015	Seq No: 6159702							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Freon-113	BRL	10									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	5.0									
Methyl acetate	BRL	5.0									
Methyl tert-butyl ether	BRL	5.0									
Methylcyclohexane	BRL	5.0									
Methylene chloride	BRL	5.0									
o-Xylene	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	2.0									
Surr: 4-Bromofluorobenzene	47.96	0	50.00		95.9	70.6	123				
Surr: Dibromofluoromethane	52.57	0	50.00		105	78.7	124				
Surr: Toluene-d8	51.61	0	50.00		103	81.3	120				

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1504745

ANALYTICAL QC SUMMARY REPORT

BatchID: 205928

Sample ID: LCS-205928	Client ID:	Units: ug/L	Prep Date: 04/13/2015	Run No: 289718							
SampleType: LCS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 205928	Analysis Date: 04/13/2015	Seq No: 6159645							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	38.01	5.0	50.00		76.0	64.2	137				
Benzene	41.56	5.0	50.00		83.1	72.8	128				
Chlorobenzene	44.82	5.0	50.00		89.6	72.3	126				
Toluene	43.15	5.0	50.00		86.3	74.9	127				
Trichloroethene	44.25	5.0	50.00		88.5	70.5	134				
Surr: 4-Bromofluorobenzene	47.72	0	50.00		95.4	70.6	123				
Surr: Dibromofluoromethane	52.57	0	50.00		105	78.7	124				
Surr: Toluene-d8	51.58	0	50.00		103	81.3	120				

Sample ID: 1504982-001AMS	Client ID:	Units: ug/L	Prep Date: 04/13/2015	Run No: 289718							
SampleType: MS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 205928	Analysis Date: 04/13/2015	Seq No: 6159953							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	39.12	5.0	50.00		78.2	60.5	156				
Benzene	43.80	5.0	50.00		87.6	70	135				
Chlorobenzene	47.31	5.0	50.00		94.6	70.5	132				
Toluene	43.33	5.0	50.00		86.7	70.5	137				
Trichloroethene	46.64	5.0	50.00		93.3	71.8	139				
Surr: 4-Bromofluorobenzene	47.03	0	50.00		94.1	70.6	123				
Surr: Dibromofluoromethane	50.95	0	50.00		102	78.7	124				
Surr: Toluene-d8	50.74	0	50.00		101	81.3	120				

Sample ID: 1504982-001AMSD	Client ID:	Units: ug/L	Prep Date: 04/13/2015	Run No: 289718							
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 205928	Analysis Date: 04/13/2015	Seq No: 6159992							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	38.28	5.0	50.00		76.6	60.5	156	39.12	2.17	20	
Benzene	43.51	5.0	50.00		87.0	70	135	43.80	0.664	20	

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1504745

ANALYTICAL QC SUMMARY REPORT

BatchID: 205928

Sample ID: 1504982-001AMSD	Client ID:	Units: ug/L	Prep Date: 04/13/2015	Run No: 289718
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 205928	Analysis Date: 04/13/2015	Seq No: 6159992

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorobenzene	45.44	5.0	50.00		90.9	70.5	132	47.31	4.03	20	
Toluene	41.57	5.0	50.00		83.1	70.5	137	43.33	4.15	20	
Trichloroethene	46.03	5.0	50.00		92.1	71.8	139	46.64	1.32	20	
Surr: 4-Bromofluorobenzene	48.19	0	50.00		96.4	70.6	123	47.03	0	0	
Surr: Dibromofluoromethane	53.76	0	50.00		108	78.7	124	50.95	0	0	
Surr: Toluene-d8	51.42	0	50.00		103	81.3	120	50.74	0	0	

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
	BRL Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
	J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
	Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1504745

ANALYTICAL QC SUMMARY REPORT

BatchID: 205953

Sample ID: MB-205953	Client ID:	Units: ug/L	Prep Date: 04/14/2015	Run No: 289777							
SampleType: MBLK	TestCode: GC Analysis of Gaseous Samples SOP-RSK 175	BatchID: 205953	Analysis Date: 04/14/2015	Seq No: 6161053							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethane	BRL	9									
Ethylene	BRL	7									
Methane	BRL	4									

Sample ID: LCS-205953	Client ID:	Units: ug/L	Prep Date: 04/14/2015	Run No: 289777							
SampleType: LCS	TestCode: GC Analysis of Gaseous Samples SOP-RSK 175	BatchID: 205953	Analysis Date: 04/14/2015	Seq No: 6161054							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethane	109.7	9	200.0		54.8	41.2	115				
Ethylene	71.04	7	200.0		35.5	26.5	115				
Methane	118.0	4	200.0		59.0	45.1	115				

Sample ID: LCSD-205953	Client ID:	Units: ug/L	Prep Date: 04/14/2015	Run No: 289777							
SampleType: LCSD	TestCode: GC Analysis of Gaseous Samples SOP-RSK 175	BatchID: 205953	Analysis Date: 04/14/2015	Seq No: 6161055							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethane	103.7	9	200.0		51.9	41.2	115	109.7	5.58	20	
Ethylene	67.66	7	200.0		33.8	26.5	115	71.04	4.87	20	
Methane	111.9	4	200.0		56.0	45.1	115	118.0	5.34	20	

Sample ID: 1504745-003BMS	Client ID: MW-4	Units: ug/L	Prep Date: 04/14/2015	Run No: 289777							
SampleType: MS	TestCode: GC Analysis of Gaseous Samples SOP-RSK 175	BatchID: 205953	Analysis Date: 04/14/2015	Seq No: 6161070							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethane	108.6	9	200.0		54.3	40.5	115				
Ethylene	68.12	7	200.0		34.1	25.1	115				
Methane	119.8	4	200.0	7.597	56.1	40.4	115				

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1504745

ANALYTICAL QC SUMMARY REPORT

BatchID: 205953

Sample ID: 1504745-003BMSD	Client ID: MW-4	Units: ug/L	Prep Date: 04/14/2015	Run No: 289777
SampleType: MSD	TestCode: GC Analysis of Gaseous Samples SOP-RSK 175	BatchID: 205953	Analysis Date: 04/14/2015	Seq No: 6161071

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Ethane	108.1	9	200.0		54.1	40.5	115	108.6	0.436	20	
Ethylene	67.76	7	200.0		33.9	25.1	115	68.12	0.533	20	
Methane	118.4	4	200.0	7.597	55.4	40.4	115	119.8	1.17	20	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1504745

ANALYTICAL QC SUMMARY REPORT

BatchID: R289677

Sample ID: MB-R289677	Client ID:	Units: mg/L	Prep Date:	Run No: 289677							
SampleType: MBLK	TestCode: Sulfide by SM4500-S2-F	BatchID: R289677	Analysis Date: 04/13/2015	Seq No: 6158646							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Sulfide BRL 1.00

Sample ID: LCS-R289677	Client ID:	Units: mg/L	Prep Date:	Run No: 289677							
SampleType: LCS	TestCode: Sulfide by SM4500-S2-F	BatchID: R289677	Analysis Date: 04/13/2015	Seq No: 6158647							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Sulfide 296.0 1.00 296.0 100 90 110

Sample ID: 1504657-002FMS	Client ID:	Units: mg/L	Prep Date:	Run No: 289677							
SampleType: MS	TestCode: Sulfide by SM4500-S2-F	BatchID: R289677	Analysis Date: 04/13/2015	Seq No: 6158657							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Sulfide 12.40 1.00 14.80 83.8 80 120

Sample ID: 1504657-002FMSD	Client ID:	Units: mg/L	Prep Date:	Run No: 289677							
SampleType: MSD	TestCode: Sulfide by SM4500-S2-F	BatchID: R289677	Analysis Date: 04/13/2015	Seq No: 6158658							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Sulfide 12.60 1.00 14.80 85.1 80 120 12.40 1.60 20

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1504745

ANALYTICAL QC SUMMARY REPORT

BatchID: R289683

Sample ID: MB-R289683	Client ID:	Units: mg/L	Prep Date:	Run No: 289683							
SampleType: MBLK	TestCode: Total Organic Carbon (TOC) SW9060A	BatchID: R289683	Analysis Date: 04/10/2015	Seq No: 6158830							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Organic Carbon, Total

BRL 1.00

Sample ID: LCS-R289683	Client ID:	Units: mg/L	Prep Date:	Run No: 289683							
SampleType: LCS	TestCode: Total Organic Carbon (TOC) SW9060A	BatchID: R289683	Analysis Date: 04/10/2015	Seq No: 6158829							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Organic Carbon, Total

26.90 1.00 25.00 108 90 110

Sample ID: 1504545-004DMS	Client ID:	Units: mg/L	Prep Date:	Run No: 289683							
SampleType: MS	TestCode: Total Organic Carbon (TOC) SW9060A	BatchID: R289683	Analysis Date: 04/13/2015	Seq No: 6158854							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Organic Carbon, Total

24.28 1.00 25.00 1.136 92.6 80 120

Sample ID: 1504545-004DMSD	Client ID:	Units: mg/L	Prep Date:	Run No: 289683							
SampleType: MSD	TestCode: Total Organic Carbon (TOC) SW9060A	BatchID: R289683	Analysis Date: 04/13/2015	Seq No: 6158855							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Organic Carbon, Total

25.99 1.00 25.00 1.136 99.4 80 120 24.28 6.80 20

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1504745

ANALYTICAL QC SUMMARY REPORT

BatchID: R289844

Sample ID: MB-R289844	Client ID:	Units: mg/L	Prep Date:	Run No: 289844							
SampleType: MBLK	TestCode: ION SCAN SW9056A	BatchID: R289844	Analysis Date: 04/09/2015	Seq No: 6162843							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride
Nitrate
Sulfate

BRL
BRL
BRL

1.0
0.25
1.0

Sample ID: LCS-R289844	Client ID:	Units: mg/L	Prep Date:	Run No: 289844							
SampleType: LCS	TestCode: ION SCAN SW9056A	BatchID: R289844	Analysis Date: 04/09/2015	Seq No: 6162842							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride
Nitrate
Sulfate

9.729
4.722
24.87

1.0
0.25
1.0

10.00
5.000
25.00

97.3
94.4
99.5

90
90
90

110
110
110

Sample ID: 1504715-002BMS	Client ID:	Units: mg/L	Prep Date:	Run No: 289844							
SampleType: MS	TestCode: ION SCAN SW9056A	BatchID: R289844	Analysis Date: 04/09/2015	Seq No: 6162857							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride
Nitrate
Sulfate

122.3
46.29
267.8

10
2.5
10

100.0
50.00
250.0

39.05
3.683
40.23

83.2
92.6
91.0

90
90
90

110
110
110

S

Sample ID: 1504716-002BMS	Client ID:	Units: mg/L	Prep Date:	Run No: 289844							
SampleType: MS	TestCode: ION SCAN SW9056A	BatchID: R289844	Analysis Date: 04/09/2015	Seq No: 6162861							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride
Nitrate
Sulfate

121.4
49.38
259.8

10
2.5
10

100.0
50.00
250.0

35.44
3.683
29.42

85.9
91.4
92.1

90
90
90

110
110
110

S

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
	BRL Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
	J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
	Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1504745

ANALYTICAL QC SUMMARY REPORT

BatchID: R289844

Sample ID: 1504715-002BMSD	Client ID:	Units: mg/L	Prep Date:	Run No: 289844							
SampleType: MSD	TestCode: ION SCAN SW9056A	BatchID: R289844	Analysis Date: 04/09/2015	Seq No: 6162858							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride	123.6	10	100.0	39.05	84.5	90	110	122.3	1.07	20	S
Nitrate	46.79	2.5	50.00		93.6	90	110	46.29	1.07	20	
Sulfate	276.4	10	250.0	40.23	94.5	90	110	267.8	3.16	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: EarthCon Consultants, Inc.
Project Name: Apollo Smyrna
Workorder: 1504745

ANALYTICAL QC SUMMARY REPORT

BatchID: R289998

Sample ID: MB-R289998	Client ID:	Units: mg/L	Prep Date:	Run No: 289998							
SampleType: MBLK	TestCode: Alkalinity by SM2320B	BatchID: R289998	Analysis Date: 04/16/2015	Seq No: 6165975							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Alkalinity, Total (As CaCO3)

BRL 3.00

Sample ID: LCS-R289998	Client ID:	Units: mg/L	Prep Date:	Run No: 289998							
SampleType: LCS	TestCode: Alkalinity by SM2320B	BatchID: R289998	Analysis Date: 04/16/2015	Seq No: 6165976							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Alkalinity, Total (As CaCO3)

123.0 3.00 125.0 98.4 75 125

Sample ID: 1504657-007CDUP	Client ID:	Units: mg/L	Prep Date:	Run No: 289998							
SampleType: DUP	TestCode: Alkalinity by SM2320B	BatchID: R289998	Analysis Date: 04/16/2015	Seq No: 6165987							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Alkalinity, Total (As CaCO3)

55.00 3.00 55.00 0 30

Qualifiers:
 > Greater than Result value
 BRL Below reporting limit
 J Estimated value detected below Reporting Limit
 Rpt Lim Reporting Limit

< Less than Result value
 E Estimated (value above quantitation range)
 N Analyte not NELAC certified
 S Spike Recovery outside limits due to matrix

B Analyte detected in the associated method blank
 H Holding times for preparation or analysis exceeded
 R RPD outside limits due to matrix

APPENDIX D
FIELD SAMPLING FORMS



Groundwater Sampling Record

WELL No. <u>MW-13</u>	PROJECT # <u>02.20140391.00</u>	LOCATION <u>1850 S. Cobb Industrial Blvd., Smyrna, GA</u>	DATE <u>7-14-15</u>
SAMPLE No. <u>MW-13</u>	PROJECT NAME <u>Apollo Technologies</u>	FIELD PERSONNEL/COMPANY <u>P. Frix and K. Henry, EarthCon</u>	
SAMPLE TIME: <u>1445</u>	SITE <u>Smyrna, GA</u>	FIELD CONDITIONS/WEATHER <u>Partly cloudy 240° F</u>	

Well Condition Inspection (circle one)		Equipment Cleaning Procedures	
cover: <u>locked</u> not locked		- potable water and phosphate-free soap	<i>clean containers</i>
number: <u>legible</u> not legible		- potable water rinse	<i>single-use tubing</i>
outer casing: <u>good</u> fair poor		- water rinse: <u>distilled</u>	deionized
inner casing: <u>good</u> fair poor		- solvent rinse: acetone	hexane
well photographed: <u>yes</u> no		- air dry	

Casing Diameter: (circle one) 2" 4" 6" Other: _____

Casing Volume Calculation: $(\pi r^2 h)(7.48 \text{ gal/ft}^3)$
 Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
 Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet): <u>7.79</u>	Measuring Point Elevation (feet): _____
Depth of Well (feet): <u>2.15</u>	Groundwater Surface Elevation: _____
Water Column (feet): <u>27.21</u>	LNAPL present: <u>NO</u> thickness: _____
Casing Volume (gallons/liters): <u>118</u>	DNAPL present: _____ thickness: _____
Calculated Purge Volume (gallons/liters): <u>3.54</u>	Remarks: _____
Actual Purge Volume (gallons/liters): <u>2.75</u>	
Pump Intake Depth (feet): <u>2.11</u>	Ferrous Iron (mg/L): <u>0.69</u>

Well Evacuation

Water level recovery is: very slow slow moderate fast

Bailed dry: yes no

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
<u>1346</u>	<u>0</u>								PURGE START
<u>1355</u>	<u>0.5</u>	<u>14.3</u>	<u>5.48</u>	<u>1.21</u>	<u>69.2</u>	<u>0.164</u>	<u>22</u>	<u>8.41</u>	<i>No. later - 1000 ft</i>
<u>1401</u>	<u>1.0</u>	<u>14.7</u>	<u>5.49</u>	<u>0.97</u>	<u>58.0</u>	<u>0.163</u>	<u>14.5</u>	<u>8.46</u>	
<u>1406</u>	<u>1.75</u>	<u>14.2</u>	<u>5.50</u>	<u>0.87</u>	<u>55.0</u>	<u>0.130</u>	<u>9.67</u>	<u>8.43</u>	
<u>1413</u>	<u>1.5</u>	<u>14.3</u>	<u>5.50</u>	<u>0.75</u>	<u>50.6</u>	<u>0.163</u>	<u>8.38</u>	<u>8.45</u>	
<u>1424</u>	<u>2.0</u>	<u>14.4</u>	<u>5.49</u>	<u>0.61</u>	<u>43.1</u>	<u>0.163</u>	<u>5.48</u>	<u>8.48</u>	
<u>1431</u>	<u>2.5</u>	<u>14.5</u>	<u>5.50</u>	<u>0.64</u>	<u>38.1</u>	<u>0.163</u>	<u>4.12</u>	<u>8.48</u>	
<u>1437</u>	<u>2.75</u>	<u>14.5</u>	<u>5.51</u>	<u>0.60</u>	<u>36.4</u>	<u>0.163</u>	<u>1.55</u>	<u>8.50</u>	

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
_____	_____	_____	_____
_____	_____	_____	_____

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE/	PRESERVATIVES	QA REMARKS
<u>MW-13</u>	<u>VOL_{CO2}</u>	<u>40 mL VOA</u>	<u>HCl</u>	
	<u>NFE</u>	<u>40 mL VOA</u>	<u>HCl</u>	
	<u>TOC</u>	<u>250 mL HDPE</u>	<u>H2SO4</u>	
	<u>Alkalinity</u>	<u>500 mL HDPE</u>	<u>-</u>	
	<u> sulfate</u>	<u>500 mL HDPE</u>	<u>NaOH</u>	
	<u> Total Hardness</u>	<u>750 mL HDPE</u>	<u>-</u>	



Groundwater Sampling Record

WELL No. MW-7 PROJECT # 02.20140391.00 LOCATION 1850 S. Cobb Industrial Blvd., Smyrna, GA DATE 7-14-15
 SAMPLE No. MW-7 PROJECT NAME Apollo Technologies FIELD PERSONNEL/COMPANY P. Frix and K. Henry, EarthCon
 SAMPLE TIME: 1735 SITE Smyrna, GA FIELD CONDITIONS/WEATHER overcast ~40°F

Well Condition Inspection (circle one)
 cover: locked not locked
 number: legible not legible
 outer casing: good fair poor
 inner casing: good fair poor
 well photographed: yes no

Equipment Cleaning Procedures
 - potable water and phosphate-free soap
 - potable water rinse
 - water rinse: distilled deionized
 - solvent rinse: acetone hexane
 - air dry

*clean containers
single-use tubing*

Casing Diameter: (circle one) 2" 4" 6" Other: _____
 Casing Volume Calculation: $(\pi r^2 h)(7.48 \text{ gal/ft}^3)$
 Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
 Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet): 6.52
 Depth of Well (feet): 16.80
 Water Column (feet): 10.22
 Casing Volume (gallons/liters): 1.67
 Calculated Purge Volume (gallons/liters): 5.01
 Actual Purge Volume (gallons/liters): 4.5
 Pump Intake Depth (feet): 2.12

Measuring Point Elevation (feet): _____
 Groundwater Surface Elevation: _____
 LNAPL present: no thickness: _____
 DNAPL present: _____ thickness: _____
 Remarks: _____
 Ferrous Iron (mg/L): 2.19

Well Evacuation
 Water level recovery is: very slow slow moderate fast Bailed dry: yes no

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
1600	0								
1608	0.25	13.7	5.12	2.40	76.2	0.095	15.2	6.80	PURGE START
1620	1.25	13.2	5.14	0.97	76.2	0.113	47.4	6.81	None - clear
1630	1.75	13.2	5.26	0.61	72.6	0.137	24.0	6.83	brown
1638	2.25	13.4	5.35	0.61	68.4	0.170	18.8	6.81	Non-organic
1649	3.0	13.2	5.44	0.44	61.1	0.187	16.3	6.81	brown
1658	3.5	13.2	5.46	0.79	57.6	0.190	11.4	6.81	
1705	3.75	13.2	5.50	0.10	55.2	0.200	11.8	6.81	clearish
1715	4.0	13.2	5.53	0.59	52.2	0.208	9.68	6.81	
1726	4.5	13.0	5.56	0.57	50.1	0.221	7.68	6.81	

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE/ PRESERVATIVES	QA REMARKS
MW-7	VOL _{Ca}	40 mL VOA HCl	
	MEL	40 mL VOA HCl	
	TOL	250 mL HDPE H ₂ SO ₄	
	Alkalinity	500 mL HDPE	
	Sulfide	300 mL HDPE NaOH	
	Total Hardness	250 mL HDPE	Sample discarded due to excess of preservative



Groundwater Sampling Record

WELL No. MW-1 PROJECT # 02.20140391.00 LOCATION 1850 S. Cobb Industrial Blvd., Smyrna, GA DATE 1-15-15
 SAMPLE No. MW-1 PROJECT NAME Apollo Technologies FIELD PERSONNEL/COMPANY P. Frix and K. Henry, EarthCon
 SAMPLE TIME: 1113 SITE Smyrna, GA FIELD CONDITIONS/WEATHER Overcast, 40°F

Well Condition Inspection (circle one)
 cover: locked not locked
 number: legible not legible
 outer casing: good fair poor
 inner casing: good fair poor
 well photographed: yes no

Equipment Cleaning Procedures
 - potable water and phosphate-free soap
 - potable water rinse
 - water rinse: distilled deionized
 - solvent rinse: acetone hexane
 - air dry

clean containers
single-use tubing

Casing Diameter: (circle one) 2" 4" 6" Other: _____
 Casing Volume Calculation: $(\pi r^2 h)(7.48 \text{ gal/ft}^3)$
 Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
 Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet): 23.17 Measuring Point Elevation (feet): _____
 Depth of Well (feet): 36.61 Groundwater Surface Elevation: _____
 Water Column (feet): 2.44 LNAPL present: no thickness: _____
 Casing Volume (gallons/liters): 1.36 DNAPL present: _____ thickness: _____
 Calculated Purge Volume (gallons/liters): 4.14 Remarks: Purge rate is lowest sustainable to keep flow effort
 Actual Purge Volume (gallons/liters): 3.60 made to minimize drawdown
 Pump Intake Depth (feet): 23.17 Ferrrous Iron (mg/L): 2.49

Well Evacuation
 Water level recovery is: very slow slow moderate fast Bailed dry: yes no

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/REMARKS
0951	0								
1005	0.25	17.3	6.52	4.62	-174.5	0.316	4.66	23.91	PURGE START
1010	0.75	17.8	6.39	2.27	-154.8	0.296	2.81	24.21	Strong decrease
1014	1.25	17.3	6.43	1.70	-164.2	0.344	2.30	24.35	var color grey
1025	1.5	17.7	6.49	1.44	-166.1	0.369	2.27	24.52	
1030	1.75	17.6	6.50	1.31	-161.0	0.380	2.06	24.57	
1035	2.0	17.7	6.53	1.17	-165.5	0.399	3.08	24.68	
1047	2.25	17.4	6.54	1.18	-174.1	0.431	2.36	24.71	
1053	2.75	17.5	6.54	1.08	-180.0	0.463	2.37	24.90	
1058	3.25	18.1	6.57	0.97	-177.0	0.474	1.67	25.11	
1104	3.60	18.0	6.56	0.93	-174.7	0.486	1.40	25.28	

Measurement and Sampling Equipment
 Type _____ Manufacturer _____ Model # _____ Calibration Date _____

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE/	PRESERVATIVES	QA REMARKS
MW-1	VOCs	40 mL VOA	HCl	Some particulates in VOC vials.
	NEE	40 mL VOA	HCl	
	TOL	250 mL HDPE	H2SO4	
	alkalinity	500 mL HDPE		
	hardness	500 mL HDPE	NaOH	
	Iron	250 mL HDPE		



Groundwater Sampling Record

WELL No. <u>MW-6</u>	PROJECT # <u>02.20140391.00</u>	LOCATION <u>1850 S. Cobb Industrial Blvd., Smyrna, GA</u>
SAMPLE No. <u>MW-6</u>	PROJECT NAME <u>Apollo Technologies</u>	FIELD PERSONNEL/COMPANY <u>P. Frix and K. Henry, EarthCon</u>
SAMPLE TIME: <u>11:35</u>	SITE <u>Smyrna, GA</u>	DATE <u>11/15/2015</u>

Well Condition Inspection (circle one) cover: <input checked="" type="radio"/> locked not locked number: <input checked="" type="radio"/> legible not legible outer casing: <input checked="" type="radio"/> good fair poor inner casing: <input checked="" type="radio"/> good fair poor well photographed: yes <input checked="" type="radio"/> no	Equipment Cleaning Procedures <input checked="" type="checkbox"/> potable water and phosphate-free soap <input type="checkbox"/> potable water rinse water rinse: <input checked="" type="radio"/> distilled deionized solvent rinse: <input type="radio"/> acetone hexane <input type="checkbox"/> air dry
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Casing Diameter: (circle one) 2" 4" 6" Other: _____

Casing Volume Calculation: $(\pi r^2 h)(7.48 \text{ gal/ft}^3)$
 Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
 Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet): 9.07

Depth of Well (feet): 14.05

Water Column (feet): 9.98

Casing Volume (gallons/liters): 1.63

Calculated Purge Volume (gallons/liters): 4.88

Actual Purge Volume (gallons/liters): 5.60

Pump Intake Depth (feet): 14.5'

Measuring Point Elevation (feet): _____

Groundwater Surface Elevation: _____

LNAPL present: NO thickness: _____

DNAPL present: _____ thickness: _____

Remarks: _____

Ferrous Iron (mg/L): 2.95 (red color)

Well Evacuation

Water level recovery is: very slow slow moderate fast

Bailed dry: yes no

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/REMARKS
	0								
9:55	0.20	16.10	6.07	2.08	87.9	0.117	52.9	9.41	PURGE START
10:00	0.70	16.27	5.76	1.66	81.5	0.118	33.8	9.64	cloudy
10:05	1.00	16.03	5.75	1.47	71.6	0.120	73.6	9.71	slightly cloudy
10:10	1.45	16.28	5.78	1.21	57.6	0.122	16.3	9.81	"
10:25	2.0	16.31	5.66	1.22	48.0	0.121	15.9	9.91	clear
10:30	2.50	16.55	5.80	0.96	42.6	0.121	13.7	9.96	"
10:40	2.80	16.56	5.82	0.99	37.0	0.120	13.2	9.97	"
10:45	3.25	16.40	5.81	0.95	33.6	0.119	12.0	10.01	"
10:50	3.50	16.68	5.82	0.77	31.5	0.119	11.2	10.00	"
10:55	3.75	16.60	5.86	0.50	28.0	0.118	12.1	10.09	"
11:05	4.40	16.63	5.81	0.54	24.8	0.117	10.75	10.07	"
11:10	4.90	16.40	5.81	0.43	22.8	0.119	7.85	10.21	"
11:26	5.70	16.27	5.82	0.70	22.8	0.116	8.74	10.19	"

Measurement and Sampling Equipment

Type: YSI Meter Manufacturer: YSI Model #: 556 MPS Calibration Date: _____

Geo. Pump: _____ Manufacturer: Geo Tech Model #: 455471X

Turbidometer: _____ Manufacturer: LaMotte Model #: 2020 W2

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE/ PRESERVATIVES	QA REMARKS
<u>MW-6</u>	<u>Yol</u>	<u>70 mL VOA HCl</u>	
	<u>NEE</u>	<u>70 mL VOA HCl</u>	
	<u>TOL</u>	<u>250 mL HNO3 H2SO4</u>	
	<u>Alkalinity</u>	<u>500 mL HNO3</u>	
	<u>Sulfide</u>	<u>500 mL HNO3 NaOH</u>	
	<u>Iron</u>	<u>250 mL HNO3</u>	



Groundwater Sampling Record

WELL No. MW-3 PROJECT # 02.20140391.00 LOCATION 1850 S. Cobb Industrial Blvd., Smyrna, GA DATE 7-15-15
 SAMPLE No. MW-3 PROJECT NAME Apollo Technologies FIELD PERSONNEL/COMPANY P. Frix and K. Henry, EarthCon
 SAMPLE TIME: 1342 SITE Smyrna, GA FIELD CONDITIONS/WEATHER Overcast 10°F Light Rain 35°F

Well Condition Inspection (circle one)
 cover: locked not locked
 number: legible not legible
 outer casing: good fair poor
 inner casing: good fair poor
 well photographed: yes no

Equipment Cleaning Procedures
 - potable water and phosphate-free soap
 - potable water rinse
 - water rinse: distilled deionized
 - solvent rinse: acetone hexane
 - air dry

*clean containers
 as single-use tubing*

Casing Diameter: (circle one)
 2" 4" 6" Other: _____
 Casing Volume Calculation: $(\pi r^2 h)(7.48 \text{ gal/ft}^3)$
 Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
 Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet): 21.80
 Depth of Well (feet): ~48
 Water Column (feet): 26.12
 Casing Volume (gallons/liters): 17.06
 Calculated Purge Volume (gallons/liters): 57.17
 Actual Purge Volume (gallons/liters): 2.75
 Pump Intake Depth (feet): ~33

Measuring Point Elevation (feet): _____
 Groundwater Surface Elevation: _____
 LNAPL present: NO thickness: _____
 DNAPL present: _____ thickness: _____
 Remarks: Black sludge purged out before documentation of stability
 Ferrous Iron (mg/L): FAILED to record - inclement weather

Well Evacuation
 Water level recovery is: very slow slow moderate fast
 Bailed dry: yes no

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/REMARKS
<u>1245</u>	<u>0</u>								
<u>1305</u>	<u>1.0</u>	<u>16.6</u>	<u>7.27</u>	<u>1.11</u>	<u>-125</u>	<u>0532</u>	<u>40</u>	<u>22.91</u>	<u>PURGE START</u>
<u>1315</u>	<u>1.5</u>	<u>16.1</u>	<u>7.18</u>	<u>0.81</u>	<u>-19.5</u>	<u>0.570</u>	<u>4.44</u>	<u>22.70</u>	<u>black -> clear</u>
<u>1322</u>	<u>2.0</u>	<u>16.1</u>	<u>7.14</u>	<u>0.70</u>	<u>-152.4</u>	<u>0.576</u>	<u>5.02</u>	<u>22.71</u>	
<u>1339</u>	<u>2.75</u>	<u>16.2</u>	<u>7.06</u>	<u>0.67</u>	<u>-148.3</u>	<u>0.608</u>	<u>4.73</u>	<u>22.76</u>	

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
_____	_____	_____	_____
_____	_____	_____	_____

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE/	PRESERVATIVES	QA REMARKS
<u>MW-3</u>	<u>Vols</u>	<u>400ml VOA</u>	<u>HCl</u>	
	<u>MEE</u>	<u>400ml VOA</u>	<u>HCl</u>	
	<u>TA</u>	<u>250ml HDPE</u>	<u>H2SO4</u>	
	<u>Alkalinity</u>	<u>500ml HDPE</u>		
	<u>Self-de</u>	<u>500ml HDPE</u>	<u>NaOH</u>	<u>single dilutions due to excess of preservative</u>
	<u>Iron sum</u>	<u>250ml HDPE</u>		



Groundwater Sampling Record

WELL No. MW-8 PROJECT # 02.20140391.00 LOCATION 1850 S. Cobb Industrial Blvd., Smyrna, GA DATE 7/15/15
 SAMPLE No. MU-2 PROJECT NAME Apollo Technologies FIELD PERSONNEL/COMPANY P. Frix and K. Henry, EarthCon
 SAMPLE TIME: 14:30 SITE Smyrna, GA FIELD CONDITIONS/WEATHER _____

Well Condition Inspection (circle one)
 cover: locked not locked
 number: legible not legible
 outer casing: good fair poor
 inner casing: good fair poor
 well photographed: yes no

Equipment Cleaning Procedures
 - potable water and phosphate-free soap
 - potable water rinse
 - water rinse: distilled deionized
 - solvent rinse: acetone hexane
 - air dry

Casing Diameter: (circle one) 2" 4"
 6" Other: _____
 Casing Volume Calculation: $(\pi r^2 h)(7.48 \text{ gal/ft}^3)$
 Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
 Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet): 25.61
 Depth of Well (feet): 44.45
 Water Column (feet): 18.84
 Casing Volume (gallons/liters): 3.07
 Calculated Purge Volume (gallons/liters): 9.21
 Actual Purge Volume (gallons/liters): 2.90
 Pump Intake Depth (feet): 35
 Measuring Point Elevation (feet): _____
 Groundwater Surface Elevation: _____
 LNAPL present: NO thickness: _____
 DNAPL present: _____ thickness: _____
 Remarks: _____
 Ferrous Iron (mg/L): 0.14 very light pink

Well Evacuation
 Water level recovery is: very slow slow moderate fast

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/REMARKS
	0								
15:35	0.15	14.38	5.04	1.98	84.3	0.046	4.86	25.82	PURGE START
15:40	0.45	15.30	5.11	1.22	80.0	0.045	3.65	25.84	u
15:50	0.75	15.76	5.06	0.89	76.7	0.042	2.37	25.87	u
15:55	1.0	15.65	5.02	0.82	78.8	0.041	1.47	25.85	u
16:05	1.5	15.68	5.00	0.67	74.7	0.040	1.33	25.83	u
16:15	1.80	16.12	5.02	0.66	82.3	0.047	1.27	25.91	u
16:30	2.50	15.26	5.01	0.61	88.2	0.038	1.82	25.82	u

Measurement and Sampling Equipment
 Type Geo Pump Manufacturer Geotech Model # 556 MPJ Calibration Date _____
YSI YSI
Turbidometer LaMotte 2020 br
Calorimeter Hach Dr/320

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE/ PRESERVATIVES	QA REMARKS
<u>MW-8</u>	<u>Vol</u>	<u>40 mL VOA</u>	
<u>u</u>	<u>REE</u>	<u>40 mL VOA</u>	<u>HCl</u>
<u>u</u>	<u>TOC</u>	<u>250 mL HDPE</u>	<u>HCl</u>
<u>u</u>	<u>Alkalinity</u>	<u>500 mL HDPE</u>	<u>H2SO4</u>
<u>u</u>	<u>Sulfide</u>	<u>500 mL HDPE</u>	<u>NaOH</u>
<u>u</u>	<u>Ion Scan</u>	<u>250 mL HDPE</u>	



Groundwater Sampling Record

WELL No. <u>MW-4</u>	PROJECT # <u>02.20140391.00</u>	LOCATION <u>1850 S. Cobb Industrial Blvd., Smyrna, GA</u>	DATE <u>7-15-15</u>
SAMPLE No. <u>MW-4</u>	PROJECT NAME <u>Apollo Technologies</u>	FIELD PERSONNEL/COMPANY <u>P. Frix and K. Henry, EarthCon</u>	
SAMPLE TIME: <u>1730</u>	SITE <u>Smyrna, GA</u>	FIELD CONDITIONS/WEATHER <u>Overcast, ~40° F</u>	

Well Condition Inspection (circle one) cover: <input checked="" type="radio"/> locked not locked number: <input checked="" type="radio"/> legible not legible outer casing: <input checked="" type="radio"/> good fair poor inner casing: <input checked="" type="radio"/> good fair poor well photographed: yes <input checked="" type="radio"/> no		Equipment Cleaning Procedures - <input checked="" type="radio"/> potable water and phosphate-free soap - <input checked="" type="radio"/> potable water rinse - water rinse: <input checked="" type="radio"/> distilled deionized - solvent rinse: acetone hexane - air dry	
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*often re-using
single-use tubing*

Casing Diameter: (circle one) 2" <input type="radio"/> 4" <input checked="" type="radio"/> 6" <input type="radio"/> Other: _____	Casing Volume Calculation: $(\pi r^2 h)(7.48 \text{ gal/ft}^3)$ Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47 Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56
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Depth to Water (feet): <u>2.33</u>	Measuring Point Elevation (feet): _____
Depth of Well (feet): <u>33.37</u>	Groundwater Surface Elevation: _____
Water Column (feet): <u>31.04</u>	LNAPL present: <u>NO</u> thickness: _____
Casing Volume (gallons/liters): <u>20.26</u>	DNAPL present: _____ thickness: _____
Calculated Purge Volume (gallons/liters): <u>0.91</u>	Remarks: _____
Actual Purge Volume (gallons/liters): <u>2.25</u>	
Pump Intake Depth (feet): <u>~23</u>	Ferrous Iron (mg/L): <u>0.07</u>

Well Evacuation
 Water level recovery is: very slow slow moderate fast Bailed dry: yes no

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/REMARKS
<u>1645</u>	<u>0</u>								PURGE START
<u>1655</u>	<u>0.75</u>	<u>17.1</u>	<u>6.34</u>	<u>5.15</u>	<u>277</u>	<u>0.298</u>	<u>4.42</u>	<u>3.05</u>	<u>None</u>
<u>1702</u>	<u>1.25</u>	<u>16.4</u>	<u>6.29</u>	<u>2.60</u>	<u>35.6</u>	<u>0.298</u>	<u>2.83</u>	<u>3.08</u>	
<u>1710</u>	<u>1.75</u>	<u>15.7</u>	<u>6.26</u>	<u>1.88</u>	<u>42.1</u>	<u>0.298</u>	<u>4.10</u>	<u>2.83</u>	
<u>1716</u>	<u>2.0</u>	<u>15.3</u>	<u>6.25</u>	<u>1.73</u>	<u>47.5</u>	<u>0.298</u>	<u>4.22</u>	<u>2.88</u>	
<u>1725</u>	<u>2.25</u>	<u>16.4</u>	<u>6.23</u>	<u>1.64</u>	<u>49.5</u>	<u>0.299</u>	<u>3.38</u>	<u>2.88</u>	
								<u>3.03</u>	

Type	Manufacturer	Model #	Calibration Date

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE/ PRESERVATIVES	QA REMARKS
<u>MW-4</u>	<u>Vols</u>	<u>400-L VOA</u>	<u>HCl</u>
	<u>NFE</u>	<u>400-L VOA</u>	<u>HCl</u>
	<u>TOL</u>	<u>250-L HDPE</u>	<u>H₂SO₄</u>
	<u>Alk/acid</u>	<u>500-L HDPE</u>	<u>-</u>
	<u>6.0/6.0</u>	<u>500-L HDPE</u>	<u>NOH</u>
	<u>Top Scan</u>	<u>250-L HDPE</u>	<u>-</u>



Groundwater Sampling Record

WELL No. DW-1 PROJECT # 02.20140391.00 LOCATION 1850 S. Cobb Industrial Blvd., Smyrna, GA DATE 1/16/15
 SAMPLE No. DW-1 PROJECT NAME Apollo Technologies FIELD PERSONNEL/COMPANY P. Frix and K. Henry, EarthCon
 SAMPLE TIME: 10:45 SITE Smyrna, GA FIELD CONDITIONS/WEATHER clear ~ 35°F

Well Condition Inspection (circle one)
 cover: locked not locked
 number: legible not legible
 outer casing: good fair poor
 inner casing: good fair poor
 well photographed: yes no

Equipment Cleaning Procedures
 - potable water and phosphate-free soap
 - potable water rinse
 - water rinse: distilled deionized
 - solvent rinse: acetone hexane
 - air dry

o clean containers
 o single use tubing

Casing Diameter: (circle one) 2" 4" 6" Other: _____
 Casing Volume Calculation: $(\pi r^2 h)(7.48 \text{ gal/ft}^3)$
 Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
 Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet): 3.07
 Depth of Well (feet): 4.22
 Water Column (feet): 40.69
 Casing Volume (gallons/liters): 7.51
 Calculated Purge Volume (gallons/liters): 22.92
 Actual Purge Volume (gallons/liters): 6.20
 Pump Intake Depth (feet): _____

Measuring Point Elevation (feet): _____
 Groundwater Surface Elevation: _____
 LNAPL present: NO thickness: _____
 DNAPL present: _____ thickness: _____
 Remarks: Purge rate is lowest sustainable & keep flow after made to min. down on suspended solids inhibition due to
 Ferrous Iron (mg/L): 0.90

Well Evacuation
 Water level recovery is: very slow slow moderate fast Bailed dry: yes no

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/REMARKS
	0								PURGE START
9:11	1.70	12.91	6.41	1.82	59.6	0.322	9.21	16.29	clear
9:16	2.0	11.92	6.38	1.95	33.2	0.314	5.38	10.82	"
9:26	2.5	13.03	6.42	1.56	-48.8	0.326	4.92	11.43	"
9:31	2.85	13.12	6.46	1.40	-78.6	0.324	5.23	12.38	"
0946	2.5	12.53	6.46	1.40	-88.2	0.419	4.96	13.91	"
0953	3.75	12.31	6.47	1.57	-90.5	0.417	5.30	14.20	"
0958	4.0	13.50	6.47	1.47	-92.5	0.418	5.16	14.39	"
1003	4.30	12.86	6.48	1.48	-43.8	0.417	6.09	14.61	"
1013	4.60	11.80	6.48	1.65	-44.0	0.416	5.14	14.31	"
1023	5	11.67	6.47	1.65	-44.2	0.416	4.84	14.12	"
1033	5.5	12.51	6.44	1.91	-46.8	0.416	4.77	14.09	"
1041	6.15	13.62	6.48	1.39	-47.1	0.431	4.46	14.91	"

Measurement and Sampling Equipment
 Type _____ Manufacturer _____ Model # _____ Calibration Date _____

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE/ PRESERVATIVES	QA REMARKS
DW-1	VOL S	40 mL VBA HCl	
	MES	40 mL VBA HCl	
	TOC	250 mL HNO3	
	Alkalinity	600 mL HNO3	
	Sulfate	600 mL HNO3	
	Ion Scan	250 mL HNO3	



Groundwater Sampling Record

WELL No. <u>RW-1</u>	PROJECT # <u>02.20140391.00</u>	LOCATION <u>1850 S. Cobb Industrial Blvd., Smyrna, GA</u>	DATE <u>1-16-15</u>
SAMPLE No. <u>RW-1</u>	PROJECT NAME <u>Apollo Technologies</u>	FIELD PERSONNEL/COMPANY <u>P. Frix and K. Henry, EarthCon</u>	
SAMPLE TIME: <u>1534</u>	SITE <u>Smyrna, GA</u>	FIELD CONDITIONS/WEATHER <u>Clear ~ 35°F</u>	

Well Condition Inspection (circle one)		Equipment Cleaning Procedures	
cover: <u>locked</u> not locked		<u>potable water and phosphate-free soap</u>	
number: <u>legible</u> not legible		<u>potable water rinse</u>	
outer casing: <u>good</u> fair poor		- water rinse: <u>distilled</u> deionized	<u>Other notes →</u>
inner casing: <u>good</u> fair poor		- solvent rinse: <u>acetone</u> hexane	<u>single use tubing</u>
well photographed: yes <u>no</u>		- air dry	

Casing Diameter: (circle one)
 2" 4"
 6" Other: _____

Casing Volume Calculation: $(\pi r^2 h)(7.48 \text{ gal/ft}^3)$
 Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
 Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet): <u>2.79</u>	Measuring Point Elevation (feet): _____
Depth of Well (feet): <u>34.03</u>	Groundwater Surface Elevation: _____
Water Column (feet): <u>31.24</u>	LNAPL present: <u>NO</u> thickness: _____
Casing Volume (gallons/liters): <u>20.4</u>	DNAPL present: _____ thickness: _____
Calculated Purge Volume (gallons/liters): <u>61.2</u>	Remarks: <u>Due to suspected SS inhibition, volumetric purging was completed.</u>
Actual Purge Volume (gallons/liters): <u>40.5</u>	Ferrous Iron (mg/L): <u>2.19</u>
Pump Intake Depth (feet): <u>~24</u>	

Well Evacuation
 Water level recovery is: very slow slow moderate fast
 Bailed dry: yes no

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/REMARKS
<u>1100</u>	<u>0</u>								PURGE START
<u>1126</u>	<u>1.0</u>	<u>14.6</u>	<u>7.12</u>	<u>4.31</u>	<u>-80.8</u>	<u>0.196</u>	<u>17</u>	<u>4.10</u>	<u>brown, clear</u>
<u>1210</u>	<u>5.25</u>	<u>15.7</u>	<u>7.06</u>	<u>0.52</u>	<u>-97.2</u>	<u>0.246</u>	<u>31.2</u>	<u>9.57</u>	
<u>1238</u>	<u>10.0</u>	<u>16.5</u>	<u>7.12</u>	<u>0.36</u>	<u>-91.7</u>	<u>0.276</u>	<u>32.0</u>	<u>12.96</u>	
<u>1340</u>	<u>20.0</u>	<u>16.4</u>	<u>6.94</u>	<u>0.35</u>	<u>-106.1</u>	<u>0.446</u>	<u>21.0</u>	<u>18.61</u>	
<u>1434</u>	<u>30.0</u>	<u>16.7</u>	<u>6.83</u>	<u>0.35</u>	<u>-105.2</u>	<u>0.624</u>	<u>14.8</u>	<u>19.08</u>	
<u>1535</u>	<u>40.0</u>	<u>16.7</u>	<u>6.69</u>	<u>0.40</u>	<u>-106.2</u>	<u>0.825</u>	<u>5.24</u>	<u>19.76</u>	

Measurement and Sampling Equipment			
Type	Manufacturer	Model #	Calibration Date
_____	_____	_____	_____
_____	_____	_____	_____

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE/	PRESERVATIVES	QA REMARKS
<u>RW-1</u>	<u>VOCs</u>	<u>40 mL VOA</u>	<u>HCl</u>	
	<u>MPE</u>	<u>40 mL VOA</u>	<u>HCl</u>	
	<u>TOL</u>	<u>250 mL HDPE</u>	<u>H₂SO₄</u>	
	<u>Alkalinity</u>	<u>500 mL HDPE</u>		
	<u>SO₄ & NO₃</u>	<u>500 mL HDPE</u>	<u>NaOH</u>	
	<u>Iron Spec</u>	<u>250 mL HDPE</u>		

RW-1 Evacuation Summary

1/16/15

<u>Con. Vol</u>	<u>Time</u>	<u>UL</u>
1.0	1126	
2.0	1140	
4	1155	
6	1210	
8	1230	10.78
10	1238	12.96
12	1250	14.50
14	1307	
16	1312	15.95
18	-	-
20	1335	
22	1346	
24	1400	
26	1410	
28	1421	
30	1434	
32	1448	
34	1501	
36	1513	19.65
38	1524	
40	1535	



Groundwater Sampling Record

WELL No. DW-1 PROJECT # 02.20140391.00 LOCATION 1850 S Cobb Industrial Blvd SE, Smyrna, GA 30082 DATE 4/8/15
 SAMPLE No. PROJECT NAME Apollo Smyrna FIELD PERSONNEL/COMPANY E. Davis /EarthCon
 SAMPLE TIME: 1010 SITE Smyrna, GA FIELD CONDITIONS/WEATHER Sunny 690

Well Condition Inspection (circle one)
 cover: locked not locked
 number: legible not legible
 outer casing: good fair poor
 inner casing: good fair poor
 well photographed: yes no

Equipment Cleaning Procedures
 - potable water and phosphate-free soap
 - potable water rinse
 - water rinse: distilled deionized
 - solvent rinse: acetone hexane
 - air dry

Casing Diameter: (circle one) 2" 4" 6" Other: _____
 Casing Volume Calculation: $(\pi r^2 h) = 7.48 \text{ gal/ft}^3$
 Casing Volume (gallons/ft) for: $2" = 0.163$; $4" = 0.653$; $6" = 1.47$
 Casing Volume (liters/ft) for: $2" = 0.618$; $4" = 2.47$; $6" = 5.56$

Depth to Water (feet): 2.38
 Depth of Well (feet): 49.40
 Water Column (feet): 47.02
 Casing Volume (gallons/liters): 7.67
 Calculated Purge Volume (gallons/liters): 23.0
 Actual Purge Volume (gallons/liters): 3.5
 Pump Intake Depth (feet): ~45'

Measuring Point Elevation (feet): _____
 Groundwater Surface Elevation: _____
 LNAPL present: _____ thickness: _____
 DNAPL present: _____ thickness: _____
 Remarks: _____
 Ferrous Iron (mg/L): 1.11

Well Evacuation
 Water level recovery is: very slow slow moderate fast Bailed dry: yes no

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
0755	0								PURGE START
0821	—	16.04	6.54	2.68	-47.1	49	50.05	4.45	
0830	0.5	16.41	6.55	0.94	-58.0	98	34.34	5.76	
0840	0.8	16.61	6.53	0.53	-43.6	95	32.90	7.45	
0850	1.2	16.77	6.49	0.45	-33.0	99	26.43	8.03	
0900	1.5	16.81	6.47	0.41	-28.8	111	25.03	9.23	
0910	1.75	16.85	6.46	0.39	-30.2	125	26.12	9.57	
0920	2.10	16.89	6.45	0.36	-37.3	146	29.17	10.05	
0930	2.50	17.01	6.43	0.36	-42.7	169	27.45	10.70	
0940	2.75	17.14	6.42	0.32	-45.7	187	28.35	11.08	
0950	3.10	17.36	6.42	0.30	-49.5	204	23.41	11.42	
1000	3.40	17.49	6.41	0.28	-52.3	219	23.59	11.48	

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
<u>Water Quality</u>	<u>YSI</u>	<u>556</u>	<u>4/8/15</u>
<u>Turbidity</u>	<u>HFS Scientific</u>	<u>Micro TAP 2000</u>	<u>4/8/15</u>
<u>Bladder Pump</u>	<u>QED</u>	<u>Micro purge well wizard</u>	

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE/	PRESERVATIVES	QA REMARKS
2	VOCs	40ml	HCl	
2	MVA Gases	40ml	HCl	
1	TOC	250ml	H2SO4	
1	IONs	250ml	—	
1	ALKALINITY	500ml	—	
1	SULFIDE	500ml	Zn + NaOH	

Start purge - 0755
 End purge - 1000
 Sample - 1010



Groundwater Sampling Record

WELL No. <u>mw-2</u>	PROJECT # <u>02.20140391.00</u>	LOCATION <u>1850 S Cobb Industrial Blvd SE, Smyrna, GA 30082</u>	DATE <u>4/7/15</u>
SAMPLE No.	PROJECT NAME <u>Apollo Smyrna</u>	FIELD PERSONNEL/COMPANY <u>K. Davis</u>	/EarthCon
SAMPLE TIME: <u>1540</u>	SITE <u>Smyrna, GA</u>	FIELD CONDITIONS/WEATHER <u>partly cloudy 740</u>	

Well Condition Inspection (circle one) cover: <u>locked</u> not locked number: legible <u>not legible</u> outer casing: <u>good</u> fair poor inner casing: <u>good</u> fair poor well photographed: yes <u>no</u>	Equipment Cleaning Procedures - potable water and phosphate-free soap <input checked="" type="checkbox"/> - potable water rinse - water rinse: distilled <input checked="" type="checkbox"/> deionized - solvent rinse: acetone hexane - air dry
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Casing Diameter: (circle one) <u>2"</u> 4" 6" Other: _____	Casing Volume Calculation: $(\pi r^2 h)(7.48 \text{ gal/ft}^3)$ Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47 Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56
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Depth to Water (feet): <u>24.28</u> Depth of Well (feet): <u>40.37</u> Water Column (feet): <u>22.09</u> Casing Volume (gallons/liters): <u>3.6</u> Calculated Purge Volume (gallons/liters): <u>10.0</u> Actual Purge Volume (gallons/liters): <u>3.0</u> Pump Intake Depth (feet): <u>23.5'</u>	Measuring Point Elevation (feet): _____ Groundwater Surface Elevation: _____ LNAPL present: _____ thickness: _____ DNAPL present: _____ thickness: _____ Remarks: _____ Ferrous Iron (mg/L): <u>0.10</u>
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Well Evacuation

Water level recovery is: very slow slow moderate <u>fast</u>		Bailed dry: yes <u>no</u>								
TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/REMARKS	
1340	0								PURGE START	
1355	—	21.87	6.21	10.09	115.8	69	106.3	24.43	Turbid	
1405	0.3	22.26	6.03	4.57	126.5	60	374.3	24.45	↓	
1415	0.7	22.35	6.13	4.35	123.8	59	326.3	24.55		
1425	1.0	21.96	6.15	4.25	125.7	58	245.1	24.53		
1435	1.3	22.70	6.15	4.35	126.5	58	184.0	24.47		
1445	1.7	22.70	6.15	4.30	128.7	58	126.3	24.47		
1455	2.0	22.19	6.14	4.40	131.5	58	94.03	24.47		
1505	2.25	21.69	6.14	4.49	132.6	58	151.0	24.47		
1515	2.6	21.46	6.14	4.53	133.2	58	92.57	24.48		
1525	2.9	21.56	6.13	4.34	134.8	57	105.8	24.48		Turbid

Measurement and Sampling Equipment Type <u>water clarity turbidity meter bladder pump</u> Manufacturer <u>YSI</u> Model # <u>556</u> Calibration Date <u>4/7/15</u>	Manufacturer <u>MF Scientific</u> Model # <u>microTRU 2000</u> Calibration Date <u>4/7/15</u>	Manufacturer <u>QED</u> Model # <u>micropump well drilled</u> Calibration Date _____
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SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE/ PRESERVATIVES	QA REMARKS
2	VOCs	40ml / HCl	
2	MVA Gases	40ml / HCl	
1	TOC	250ml / H2SO4	
1	Fouls	250ml / -	
1	Alkalinity	500ml / -	
1	Sulfide	500ml / H2SO4 2ml + NaOH	

START Purge - 1340
 END Purge - 1525
 Sample - 1540



Groundwater Sampling Record

WELL No. MW-3 PROJECT # 02.20140391.00 LOCATION 1850 S Cobb Industrial Blvd SE, Smyrna, GA 30082 DATE 4/8/15
 SAMPLE No. _____ PROJECT NAME Apollo Smyrna FIELD PERSONNEL/COMPANY R. Davis /EarthCon
 SAMPLE TIME: 1800 SITE Smyrna, GA FIELD CONDITIONS/WEATHER Sunny 85°

Well Condition Inspection (circle one)
 cover: locked not locked
 number: legible not legible
 outer casing: good fair poor
 inner casing: good fair poor
 well photographed: yes no

Equipment Cleaning Procedures
 - potable water and phosphate-free soap
 - potable water rinse
 - water rinse: distilled deionized
 - solvent rinse: acetone hexane
 - air dry

Casing Diameter:
 (circle one)
 2" 4" 6" Other: _____

Casing Volume Calculation: $(\pi r^2 h)(7.48 \text{ gal/ft}^3)$
 Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
 Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet): 21.15
 Depth of Well (feet): 41.95
 Water Column (feet): 20.8
 Casing Volume (gallons/liters): 17.5
 Calculated Purge Volume (gallons/liters): 32.5
 Actual Purge Volume (gallons/liters): 4.3
 Pump Intake Depth (feet): 240' 35"

Measuring Point Elevation (feet): _____
 Groundwater Surface Elevation: _____ thickness: _____
 LNAPL present: _____ thickness: _____
 DNAPL present: _____
 Remarks: _____
 Ferrous Iron (mg/L): *1.74

Well Evacuation
 Water level recovery is: very slow slow moderate fast Bailed dry: yes no
 * 3ml to 22ml Dissolved

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
1540	0								PURGE START
1546	-	21.43	6.62	1.80	-126.9	669	32.63	21.48	
1555	0.4	20.61	6.73	0.40	-101.4	625	41.82	21.71	
1605	0.75	21.14	6.80	0.25	-105.5	573	53.55	21.76	
1615	1.1	20.76	6.78	0.22	-127.5	574	50.81	21.78	
1625	1.5	21.48	6.74	0.19	-114.7	598	44.13	21.76	
1635	1.75	21.32	6.70	0.20	-113.1	626	34.05	21.76	
1645	2.2	21.33	6.66	0.19	-110.4	667	31.78	21.76	
1655	2.5	21.30	6.63	0.16	-105.4	696	28.96	21.76	
1705	2.8	21.10	6.61	0.15	-102.9	712	28.85	21.78	
1715	3.2	21.86	6.60	0.16	-103.4	731	19.78	21.79	
1725	3.5	21.58	6.59	0.16	-112.2	753	18.59	21.80	
1735	3.8	22.01	6.59	0.15	-117.2	756	16.77	21.80	
1745	4.2	21.54	6.59	0.15	-115.8	765	13.30	21.80	

Measurement and Sampling Equipment
 Type: Quality Manufacturer: YSI Model #: 556 Calibration Date: 4/8/15
Turbidity HF Scientific Memo TPAW 20000 4/8/15
POL Pump Geotech Geo Pump

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE/	PRESERVATIVES	QA REMARKS
2	VOCs	40ml / HCl		
2	MHA Gases	40ml / HCl		
1	TOC	250ml / H2SO4		
1	Toys	250ml		
1	Alkalinity	500ml		
1	Sulf-de	500ml	Zn + NaOH	

START purge - 1540
 END purge - 1745

Sample - 1800



Groundwater Sampling Record

WELL No. <u>MW-4</u>	PROJECT # <u>02.20140391.00</u>	LOCATION <u>1850 S Cobb Industrial Blvd SE, Smyrna, GA 30082</u>	DATE <u>4/9/15</u>
SAMPLE No.	PROJECT NAME <u>Apollo Smyrna</u>	FIELD PERSONNEL/COMPANY <u>Kenston Henry</u>	/EarthCon
SAMPLE TIME: <u>9:35</u>	SITE <u>Smyrna, GA</u>	FIELD CONDITIONS/WEATHER <u>Sunny, 70's</u>	

Well Condition Inspection (circle one) cover: <u>locked</u> not locked number: <u>legible</u> not legible outer casing: <u>good</u> fair poor inner casing: <u>good</u> fair poor well photographed: <u>yes</u> no	Equipment Cleaning Procedures <u>potable water and phosphate-free soap</u> - potable water rinse - water rinse: <u>distilled</u> deionized - solvent rinse: acetone hexane <u>air dry</u>
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Casing Diameter: (circle one) 2" <u>4"</u> 6" Other: _____	Casing Volume Calculation: $(\pi^2 h)(7.48 \text{ gal/ft}^3)$ Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47 Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56
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Depth to Water (feet): <u>2.08</u> Depth of Well (feet): <u>35.71</u> Water Column (feet): <u>31.63</u> Casing Volume (gallons/liters): <u>20.7</u> Calculated Purge Volume (gallons/liters): <u>62.0</u> Actual Purge Volume (gallons/liters): <u>2.0</u> Pump Intake Depth (feet): <u>20'</u>	Measuring Point Elevation (feet): _____ Groundwater Surface Elevation: _____ LNAPL present: _____ thickness: _____ DNAPL present: _____ thickness: _____ Remarks: _____ Ferrous Iron (mg/L): <u>0.02</u>
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Well Evacuation
 Water level recovery is: very slow slow moderate fast Bailed dry: yes no

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
<u>846</u>	<u>0</u>								PURGE START
<u>850</u>	<u>0.10</u>	<u>18.18</u>	<u>6.03</u>	<u>0.92</u>	<u>-40.1</u>	<u>279</u>	<u>8.57</u>	<u>2.53</u>	<u>blank spec</u>
<u>855</u>	<u>0.50</u>	<u>17.40</u>	<u>5.69</u>	<u>0.57</u>	<u>-25.4</u>	<u>277</u>	<u>6.81</u>	<u>2.71</u>	<u>clear w/black</u>
<u>900</u>	<u>0.75</u>	<u>18.11</u>	<u>5.81</u>	<u>0.54</u>	<u>-32.0</u>	<u>278</u>	<u>2.68</u>	<u>2.73</u>	<u>" "</u>
<u>905</u>	<u>1.10</u>	<u>18.30</u>	<u>5.91</u>	<u>0.56</u>	<u>-31.7</u>	<u>279</u>	<u>3.20</u>	<u>2.76</u>	<u>" "</u>
<u>910</u>	<u>1.45</u>	<u>18.24</u>	<u>5.94</u>	<u>0.55</u>	<u>-36.1</u>	<u>279</u>	<u>7.11</u>	<u>2.81</u>	<u>" "</u>
<u>915</u>	<u>1.75</u>	<u>18.39</u>	<u>5.97</u>	<u>0.52</u>	<u>-38.5</u>	<u>281</u>	<u>3.24</u>	<u>2.81</u>	<u>" "</u>

Measurement and Sampling Equipment Type <u>Water Quality</u> <u>Turbidimeter</u> <u>Colorimeter</u>	Manufacturer <u>YSI</u> <u>Scientific Inc</u> <u>HACH</u>	Model # <u>556 MPS</u> <u>Micro TDW</u> <u>DR/890</u>	Calibration Date <u>4/9/15</u> <u>4/9/15</u>
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SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE/	PRESERVATIVES	QA REMARKS
<u>MW-4 / DUP-1</u>	<u>VOC</u>	<u>40 mL HDPE</u>	<u>HCl</u>	
<u>"</u>	<u>MNA</u>	<u>40 mL HDPE</u>	<u>HCl</u>	
<u>"</u>	<u>TOC</u>	<u>250 mL HDPE</u>	<u>H₂SO₄</u>	
<u>"</u>	<u>Ion Jean</u>	<u>250 mL HDPE</u>	<u>---</u>	
<u>"</u>	<u>Alkalinity</u>	<u>500 mL HDPE</u>	<u>---</u>	
<u>"</u>	<u>Sulfide</u>	<u>500 mL HDPE</u>	<u>NaOH</u>	



Groundwater Sampling Record

WELL No. <u>MW-5</u>	PROJECT #	LOCATION	DATE <u>4/8/15</u>
SAMPLE No.	PROJECT NAME <u>Apollo Smyrna</u>	FIELD PERSONNEL/COMPANY <u>Keaton Henry</u>	
SAMPLE TIME: <u>1225</u>	SITE	FIELD CONDITIONS/WEATHER <u>Sunny, 70S</u>	

Well Condition Inspection (circle one) cover: <u>locked</u> not locked number: <u>legible</u> not legible outer casing: <u>good</u> fair poor inner casing: <u>good</u> fair poor well photographed: yes <u>no</u>	Equipment Cleaning Procedures <u>- potable water and phosphate-free soap</u> - potable water rinse - water rinse: <u>distilled</u> deionized - solvent rinse: acetone hexane <u>- air dry</u>
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Casing Diameter: (circle one) <u>2"</u> 4" 6" Other: _____	Casing Volume Calculation: $(\pi r^2 h)(7.48 \text{ gal/ft}^3)$ Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47 Casing Volume (liters/ft) for: 2" = 0.617; 4" = 2.47; 6" = 5.56
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Depth to Water (feet): <u>6.20</u>	Measuring Point Elevation (feet): _____
Depth of Well (feet): <u>19.94</u>	Groundwater Surface Elevation: _____
Water Column (feet): <u>13.74</u>	LNAPL present: _____ thickness: _____
Casing Volume (gallons): <u>2.24</u>	DNAPL present: _____ thickness: _____
Calculated Purge Volume (gallons): <u>6.72</u>	Remarks: <u>Follows Iron = 0.00</u>
Actual Purge Volume (gallons): _____	

Well Evacuation
 Water level recovery is: very slow slow moderate fast Bailed dry: yes no

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DO	CONDUCTIVITY (µs/cm)	ORP	TURBIDITY (NTU)	ODOR/COLOR/REMARKS
1054	0							PURGE START
1100	0.50	18.93	4.60	-	59	3.3	22.86	clean
1105	0.80	19.38	4.60	0.47	59	-1.1	16.14	"
1110	0.25	18.98	4.65	0.36	59	-13.6	15.00	"
1115	1.55	19.11	4.73	0.37	60	-32.3	14.03	"
1120	2.00	18.80	4.60	0.31	60	-22.6	13.30	"
1125	2.35	19.25	4.77	0.30	60	-6.5	9.57	"
1130	2.75	18.92	4.87	0.31	60	-28.6	14.16	"
1135	3.15	19.02	4.78	0.27	61	-25.8	14.03	"
1145	3.60	19.17	4.96	0.32	60	-27.1	10.95	"
1150	4.00	18.84	4.60	0.25	60	7.7	12.16	"
1155	4.30	14.87	4.45	0.25	62	-8.0	4.83	"

id to up to wire run →

Type	Manufacturer	Model #	Calibration Date
Water Quality Turbidimeter	YSI	556 MPS	4/8/15
Colorimeter	Scientific Inc. HACH	Micro TPW DR/890	4/8/15

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE/PRESERVATIVES	QA REMARKS
MW-5	VOC	40 mL HOPE HCl	
	MMA	" " " "	
	TOC	250 mL " H ₂ SO ₄	
	Ion Scan	" " " "	
	Alkalinity	500 mL " "	
	Sulfide	" " " NaOH	



Groundwater Sampling Record

WELL No. <u>MW-5</u>	PROJECT # <u>02-2003-0385-00</u>	LOCATION <u>St. George, SC</u>	DATE
SAMPLE No.	PROJECT NAME <u>Apollo Smyrna</u>	FIELD PERSONNEL/COMPANY <u>Keaton Henry</u>	
SAMPLE TIME: <u>1225</u>	SITE <u>Reliable Electric</u>	FIELD CONDITIONS/WEATHER <u>Sunny, 70S</u>	

Well Condition Inspection (circle one)		Equipment Cleaning Procedures	
cover: locked	not locked	- potable water and phosphate-free soap	
number: legible	not legible	- potable water rinse	
outer casing: good	fair	poor	- water rinse: distilled deionized
inner casing: good	fair	poor	- solvent rinse: acetone hexane
well photographed: yes	no	- air dry	

Casing Diameter: (circle one) 2" 4" 6" Other: _____	Casing Volume Calculation: $(\pi r^2 h)(7.48 \text{ gal/ft}^3)$ Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47 Casing Volume (liters/ft) for: 2" = 0.617; 4" = 2.47; 6" = 5.56
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Depth to Water (feet): _____	Measuring Point Elevation (feet): _____
Depth of Well (feet): _____	Groundwater Surface Elevation: _____
Water Column (feet): _____	LNAPL present: _____ thickness: _____
Casing Volume (gallons): _____	DNAPL present: _____ thickness: _____
Calculated Purge Volume (gallons): _____	Remarks: _____
Actual Purge Volume (gallons): _____	

Well Evacuation
 Water level recovery is: very slow slow moderate fast Bailed dry: yes no

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	Dissolved Oxygen (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	ODOR/COLOR/ REMARKS
	0							PURGE START
1200	4.75	18.84	7.89	0.26	4.5	61	4.55	clear
1205	5.25	19.02	7.78	0.27	-3.5	61	2.95	u

WL
6.52
6.75

Measurement and Sampling Equipment			
Type	Manufacturer	Model #	Calibration Date
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE/ PRESERVATIVES	QA REMARKS

WELL No. <u>NW-11</u>	PROJECT # <u>02-00000000</u>	LOCATION <u>SC</u>	DATE <u>4/7/15</u>
SAMPLE No.	PROJECT NAME <u>Agoko Snyring</u>	FIELD PERSONNEL/COMPANY <u>Keaton Henry</u>	
SAMPLE TIME: <u>19:05</u>	SITE <u>SC</u>	FIELD CONDITIONS/WEATHER <u>Partly Cloudy, 70's</u>	

Well Condition Inspection (circle one) cover: <u>locked</u> not locked number: <u>legible</u> not legible outer casing: <u>good</u> fair poor inner casing: <u>good</u> fair poor well photographed: yes <u>no</u>	Equipment Cleaning Procedures <u>potable water and phosphate-free soap</u> - potable water rinse - water rinse: <u>distilled</u> deionized - solvent rinse: acetone hexane <u>air dry</u>
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Casing Diameter: (circle one) <u>2"</u> 4" 6" Other: _____	Casing Volume Calculation: $(\pi r^2 h)(7.48 \text{ gal/ft}^3)$ Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47 Casing Volume (liters/ft) for: 2" = 0.617; 4" = 2.47; 6" = 5.56
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Depth to Water (feet): <u>19.45</u> Depth of Well (feet): <u>29.79</u> Water Column (feet): <u>10.34</u> Casing Volume (gallons): <u>1.685</u> Calculated Purge Volume (gallons): <u>5.06</u> Actual Purge Volume (gallons): <u>4.60</u>	Measuring Point Elevation (feet): _____ Groundwater Surface Elevation: _____ LNAPL present: _____ thickness: _____ DNAPL present: _____ thickness: _____ Remarks: <u>Follows Iron = 2.63 (calculated Dnc) = 30/50</u>
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Well Evacuation
 Water level recovery is: very slow slow moderate fast Bailed dry: yes no

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	Dissolved Oxygen (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	ODOR/COLOR/ REMARKS
1750	0							PURGE START
1755	0.20	19.46	5.46	2.25	-31.9	264	14.41	clear 20.48
1800	0.60	19.49	5.56	0.53	-32.2	261	4.85	clear 20.53
1805	1.05	19.56	5.71	0.33	-32.2	253	3.98	clear 20.49
1810	1.60	19.46	5.81	0.23	-30.6	243	6.56	" 20.56
1815	2.00	19.46	5.86	0.19	-31.5	235	5.15	" 20.47
1820	2.40	19.78	5.86	0.17	-26.7	217	2.30	" 20.44
1825	2.80	19.75	5.94	0.14	-24.6	204	2.31	" 20.41
1830	3.20	19.65	5.90	0.13	-24.7	199	3.36	" 20.43
1835	3.60	19.87	5.97	0.14	-26.5	194	2.61	" 20.21

Type <u>Water Quality</u> <u>Turbidimeter</u> <u>Colorimeter</u>	Manufacturer <u>YSI</u> <u>Scientific Inc</u> <u>HACH</u>	Model # <u>556 MPS</u> <u>Mico TPW</u> <u>DR/890</u>	Calibration Date <u>4/7/2015</u> <u>4/7/2015</u>
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SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE/	PRESERVATIVES	QA REMARKS
NW-11	VOC VOC	40 mL HOPE	HCl	
"	MNA	40 mL HOPE	HCl	
"	TOC	250 mL HOPE	H ₂ SO ₄	
"	Tan Jan	250 mL HOPE		
"	Alkalinity	500 mL HOPE		
"	Sulfide	500 mL HOPE	NaOH	



Groundwater Sampling Record

WELL No. <u>MW-42</u>	PROJECT # <u>02.20140391.00</u>	LOCATION <u>1850 S Cobb Industrial Blvd SE, Smyrna, GA 30082</u>	DATE <u>4/2/15</u>
SAMPLE No.	PROJECT NAME <u>Apollo Smyrna</u>	FIELD PERSONNEL/COMPANY <u>R. Davis</u>	/EarthCon
SAMPLE TIME: <u>19:05</u>	SITE <u>Smyrna, GA</u>	FIELD CONDITIONS/WEATHER <u>cloudy 74°</u>	

Well Condition Inspection (circle one) cover: <u>locked</u> not locked number: <u>legible</u> not legible outer casing: <u>good</u> fair poor inner casing: <u>good</u> fair poor well photographed: yes <u>no</u>	Equipment Cleaning Procedures - potable water and phosphate-free soap <input checked="" type="checkbox"/> - potable water rinse - water rinse: <u>distilled</u> deionized - solvent rinse: <u>acetone</u> hexane - air dry
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Casing Diameter: (circle one) <u>2"</u> 4" 6" Other: _____	Casing Volume Calculation: $(\pi r^2 h) (7.48 \text{ gal/ft}^3)$ Casing Volume (gallons/ft) for <u>2"</u> = 0.163; 4" = 0.653; 6" = 1.47 Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56
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Depth to Water (feet): <u>24.55</u> Depth of Well (feet): <u>38.15</u> Water Column (feet): <u>13.7</u> Casing Volume (gallons/liters): <u>2.23</u> Calculated Purge Volume (gallons/liters): <u>6.70</u> Actual Purge Volume (gallons/liters): <u>2.0</u> Pump Intake Depth (feet): <u>~ 34' (TCC)</u>	Measuring Point Elevation (feet): _____ Groundwater Surface Elevation: _____ LNAPL present: _____ thickness: _____ DNAPL present: _____ thickness: _____ Remarks: _____ Ferrous Iron (mg/L): <u>0.04</u>
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Well Evacuation
 Water level recovery is: very slow slow moderate fast Bailed dry: yes no

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
<u>1753</u>	<u>0</u>								PURGE START
<u>1802</u>	<u>—</u>	<u>20.05</u>	<u>5.11</u>	<u>3.74</u>	<u>171.5</u>	<u>51</u>	<u>74.64</u>	<u>24.60</u>	
<u>1810</u>	<u>0.2</u>	<u>20.01</u>	<u>5.02</u>	<u>2.11</u>	<u>200.9</u>	<u>48</u>	<u>53.48</u>	<u>24.69</u>	
<u>1820</u>	<u>0.34</u>	<u>19.14</u>	<u>5.05</u>	<u>1.38</u>	<u>207.2</u>	<u>48</u>	<u>42.66</u>	<u>24.72</u>	
<u>1830</u>	<u>0.73</u>	<u>18.45</u>	<u>5.06</u>	<u>0.99</u>	<u>214.4</u>	<u>47</u>	<u>27.65</u>	<u>24.75</u>	
<u>1840</u>	<u>1.0</u>	<u>18.49</u>	<u>5.07</u>	<u>0.85</u>	<u>220.3</u>	<u>47</u>	<u>21.78</u>	<u>24.85</u>	
<u>1850</u>	<u>1.5</u>	<u>18.66</u>	<u>5.08</u>	<u>0.83</u>	<u>224.9</u>	<u>46</u>	<u>11.40</u>	<u>24.84</u>	
<u>1900</u>	<u>1.8</u>	<u>18.30</u>	<u>5.08</u>	<u>0.77</u>	<u>229.3</u>	<u>46</u>	<u>5.32</u>	<u>24.81</u>	

Measurement and Sampling Equipment			
Type	Manufacturer	Model #	Calibration Date
<u>data quality</u>	<u>VLI</u>	<u>5576</u>	<u>4/2/15</u>
<u>Turbidity</u>	<u>HANNA SCIENTIFIC</u>	<u>HI9142P</u>	<u>4/2/15</u>
<u>bladder pump</u>	<u>QED</u>	<u>Micro Pump Well Wizard</u>	

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE/	PRESERVATIVES	QA REMARKS
<u>2</u>	<u>VOCs</u>	<u>40ml / HC</u>		
<u>2</u>	<u>MVA CAGES</u>	<u>40ml / HC</u>		
<u>1</u>	<u>TOC</u>	<u>250ml / H2SO4</u>		
<u>1</u>	<u>ions</u>	<u>250ml / -</u>		
<u>1</u>	<u>Alkalinity</u>	<u>500ml / -</u>		
<u>1</u>	<u>Self-Disp</u>	<u>500ml / 2N + NaOH</u>		

START Purge - 1753
 END Purge - 1902

Sample - 1915

WELL No. <u>MW-13</u>	PROJECT # <u>02-2003-006.00</u>	LOCATION <u>Smyrna GA</u>	STATE <u>SC</u>	DATE <u>4/18/15</u>
SAMPLE No.	PROJECT NAME <u>Apollo Smyrna</u>	FIELD PERSONNEL/COMPANY <u>Kersten Henry</u>		
SAMPLE TIME: <u>1505</u>	SITE <u>Relink Electric</u>	FIELD CONDITIONS/WEATHER <u>Sunny, 80°</u>		

Well Condition Inspection (circle one) cover: <u>locked</u> not locked number: <u>legible</u> not legible outer casing: <u>good</u> fair poor inner casing: <u>good</u> fair poor well photographed: yes <u>no</u>	Equipment Cleaning Procedures - potable water and phosphate-free soap - potable water rinse - water rinse: <u>distilled</u> deionized - solvent rinse: <u>acetone</u> hexane - <u>air dry</u>
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Casing Diameter: (circle one) <u>2"</u> 4" 6" Other: _____	Casing Volume Calculation: $(\pi r^2 h)(7.48 \text{ gal/ft}^3)$ Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47 Casing Volume (liters/ft) for: 2" = 0.617; 4" = 2.47; 6" = 5.56
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Depth to Water (feet): <u>7.36</u> Depth of Well (feet): <u>15.48</u> Water Column (feet): <u>8.12</u> Casing Volume (gallons): <u>1.32</u> Calculated Purge Volume (gallons): <u>3.97</u> Actual Purge Volume (gallons): _____	Measuring Point Elevation (feet): _____ Groundwater Surface Elevation: _____ LNAPL present: _____ thickness: _____ DNAPL present: _____ thickness: _____ Remarks: <u>Ferrous Iron = 0.64 diluted 1 time (50/50)</u>
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Well Evacuation
 Water level recovery is: very slow slow moderate fast Bailed dry: yes no

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	Dissolved Oxygen (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	ODOR/COLOR/ REMARKS
<u>1353</u>	<u>0</u>							PURGE START
<u>1355</u>	<u>0.15</u>	<u>14.50</u>	<u>5.58</u>	<u>2.24</u>	<u>-103.7</u>	<u>159</u>	<u>68.95</u>	<u>cloudy</u>
<u>1400</u>	<u>0.50</u>	<u>14.17</u>	<u>4.98</u>	<u>1.65</u>	<u>-80.0</u>	<u>158</u>	<u>45.98</u>	<u>sl cloudy</u>
<u>1405</u>	<u>0.80</u>	<u>14.30</u>	<u>5.09</u>	<u>1.68</u>	<u>-70.0</u>	<u>160</u>	<u>23.93</u>	<u>clear</u>
<u>1410</u>	<u>1.15</u>	<u>14.28</u>	<u>5.22</u>	<u>1.71</u>	<u>-63.5</u>	<u>161</u>	<u>14.40</u>	<u>"</u>
<u>1416</u>	<u>1.55</u>	<u>14.30</u>	<u>5.30</u>	<u>1.10</u>	<u>-67.5</u>	<u>161</u>	<u>14.45</u>	<u>"</u>
<u>1420</u>	<u>1.80</u>	<u>14.33</u>	<u>5.41</u>	<u>0.83</u>	<u>-57.4</u>	<u>162</u>	<u>6.82</u>	<u>"</u>
<u>1425</u>	<u>2.0</u>	<u>14.41</u>	<u>5.64</u>	<u>0.71</u>	<u>-70.4</u>	<u>161</u>	<u>4.71</u>	<u>"</u>
<u>1430</u>	<u>2.25</u>	<u>14.43</u>	<u>5.65</u>	<u>0.58</u>	<u>-85.8</u>	<u>161</u>	<u>4.05</u>	<u>"</u>
<u>1435</u>	<u>2.5</u>	<u>14.28</u>	<u>5.62</u>	<u>0.50</u>	<u>-78.1</u>	<u>160</u>	<u>6.00</u>	<u>"</u>

7.84'
8.06'
8.15'
8.19'
8.23'
8.24'
8.22'
8.22'
8.24'

Measurement and Sampling Equipment Type: <u>Water Quality</u> <u>Turbidimeter</u> <u>Colorimeter</u>	Manufacturer: <u>KIT</u> <u>Scientific Inc</u> <u>HACH</u>	Model #: <u>556 MPS</u> <u>Micro T10W</u> <u>DR/890</u>	Calibration Date: <u>4/18/15</u> <u>4/18/15</u>
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SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE/	PRESERVATIVES	QA REMARKS
<u>MW-13</u>	<u>VOC</u>	<u>40 mL HDPE</u>	<u>HCl</u>	
<u>"</u>	<u>MVA</u>	<u>" " "</u>	<u>"</u>	
<u>"</u>	<u>TOC</u>	<u>250 mL "</u>	<u>H₂SO₄</u>	
<u>"</u>	<u>Ion Scan</u>	<u>" " "</u>	<u>"</u>	
<u>"</u>	<u>Alkalinity</u>	<u>500 mL "</u>	<u>"</u>	
<u>"</u>	<u>Sulfide</u>	<u>" " "</u>	<u>NaOH</u>	



Groundwater Sampling Record

WELL No. <u>MW-15</u>	PROJECT # <u>02.20140391.00</u>	LOCATION <u>1850 S Cobb Industrial Blvd SE, Smyrna, GA 30082</u>	DATE <u>4/28/15</u>
SAMPLE No.	PROJECT NAME <u>Apollo Smyrna</u>	FIELD PERSONNEL/COMPANY <u>Keaton Henry</u>	/EarthCon
SAMPLE TIME: <u>17:00</u>	SITE <u>Smyrna, GA</u>	FIELD CONDITIONS/WEATHER <u>Sunny 80</u>	

Well Condition Inspection (circle one) cover: <u>locked</u> not locked number: <u>legible</u> not legible outer casing: <u>good</u> fair poor inner casing: <u>good</u> fair poor well photographed: yes <u>no</u>	Equipment Cleaning Procedures <u>potable water and phosphate-free soap</u> - potable water rinse - water rinse: <u>distilled</u> deionized - solvent rinse: acetone hexane <u>air dry</u>
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Casing Diameter: (circle one) <u>2"</u> 4" 6" Other: _____	Casing Volume Calculation: $(\pi r^2 h)(7.48 \text{ gal/ft}^3)$ Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47 Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56
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Depth to Water (feet): <u>5.06</u> Depth of Well (feet): <u>14.38</u> Water Column (feet): <u>9.32</u> Casing Volume (gallons/liters): <u>1.52</u> Calculated Purge Volume (gallons/liters): <u>4.56</u> Actual Purge Volume (gallons/liters): <u>2.80</u> Pump Intake Depth (feet): <u>~10'</u>	Measuring Point Elevation (feet): _____ Groundwater Surface Elevation: _____ LNAPL present: _____ thickness: _____ DNAPL present: _____ thickness: _____ Remarks: _____ Ferrous Iron (mg/L): <u>1.25</u> (calculated to only 3 mg/L sample)
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Well Evacuation
 Water level recovery is: very slow slow moderate fast Bailed dry: yes no

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
1557	0								PURGE START
1600	0.40	17.29	5.74	0.26	-110.7	509	6.40	5.43	clear
1605	0.60	17.46	5.62	0.28	-103.9	509	6.85	5.50	"
1610	0.90	17.30	5.72	0.23	-95.9	507	5.15	5.59	"
1615	1.40	17.31	5.79	0.17	-94.2	509	3.88	5.71	"
1620	1.70	17.41	5.83	0.14	-84.1	512	6.78	5.74	"
1625	2.0	18.20	5.89	0.12	-99.8	517	5.19	5.75	"

Measurement and Sampling Equipment Type <u>Water Quality</u> <u>Turbidimeter</u> <u>Colorimeter</u>	Manufacturer <u>VSL</u> <u>Scientific Inc</u> <u>HACH</u>	Model # <u>556 MPS</u> <u>Micro TPW</u> <u>DR/890</u>	Calibration Date <u>4/8/15</u> <u>4/8/15</u>
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SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE/	PRESERVATIVES	QA REMARKS
MW-15	VOC	40 mL HDPE	HCl	
"	MNA	" " "	"	
"	TOC	250 mL "	H ₂ SO ₄	
"	Ion Scan	" " "	-	
"	Alkalinity	500 mL "	-	
"	Sulfide	" " "	NaOH	

APPENDIX E

GROUNDWATER TREND GRAPHS AND HISTORICAL DATA SUMMARY

TABLE E1. HISTORICAL GROUNDWATER DATA

Monitoring Well	Date	1,1,1-Trichloroethane mg/L	1,1,2-Trichloroethane mg/L	1,1-Dichloroethane mg/L	1,1-Dichloroethene mg/L	1,2-Dichloroethane mg/L	4-Methyl-2-Pentanone mg/L	Acetone mg/L	Benzene mg/L	Carbon Disulfide mg/L	Freon-113 mg/L	Chlorobenzene mg/L	Chloroethane mg/L	Chloroform mg/L	cis-1,2-Dichloroethene mg/L	Ethylbenzene mg/L	Isopropylbenzene mg/L	Methylcyclohexane mg/L	Methylene chloride mg/L	Tetrachloroethene mg/L	Toluene mg/L	trans-1,2-Dichloroethene mg/L	Trichloroethene mg/L	Vinyl Chloride mg/L
RW-1	7/13/1995	16.249	< 0.5	4.435	9.113	9.113	< 0.5	3.705	< 0.5	< 0.5	--	< 0.5	< 0.5	--	--	< 0.5	< 0.5	--	11.604	--	< 0.5	--	< 0.05	< 0.5
RW-1	3/22/1996	13	< 0.01	2.2	6.4	0.001	< 0.01	0.12	< 0.01	< 0.01	--	< 0.01	--	0.002	--	< 0.01	< 0.01	--	3.8	0.47	0.034	--	0.033	--
RW-1	8/15/1997	0.68	< 0.025	0.16	0.16	< 0.005	< 0.05	< 0.5	< 0.025	< 0.025	--	< 0.025	< 0.005	< 0.005	--	< 0.025	< 0.025	--	< 0.05	0.13	< 0.025	--	< 0.025	< 0.005
RW-1	11/5/1997	18	< 0.25	4.5	11	< 0.005	< 0.5	77	< 0.25	< 0.25	--	< 0.25	< 0.005	< 0.005	--	< 0.25	< 0.25	--	61	1.1	0.44	--	< 0.25	< 0.005
RW-1	11/27/2000	11	--	8.4	16	0.032	--	23	--	--	--	--	0.72	< 0.005	--	--	--	--	21	1	0.77	--	0.48	1.7
RW-1	7/20/2001	0.28	< 0.005	0.21	0.49	< 0.005	< 0.01	< 0.005	< 0.005	< 0.005	--	< 0.005	0.03	0.048	--	< 0.005	--	--	0.1	0.11	0.025	--	0.081	0.043
RW-1	2/5/2002	6	< 0.005	4.1	10	< 0.005	< 0.01	0.8	< 0.005	< 0.005	--	< 0.005	0.65	< 0.005	--	< 0.005	--	--	1.2	0.8	0.39	--	0.36	1
RW-1	7/23/2002	10	< 0.005	6.5	17	0.011	< 0.01	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	0.0071	--	< 0.005	--	--	0.61	0.27	0.14	--	0.35	0.93
RW-1	12/18/2002	13	< 0.005	6.9	21	0.011	< 0.01	< 0.005	< 0.005	< 0.005	--	< 0.005	1.2	< 0.005	--	< 0.005	--	--	1.1	0.72	0.24	--	0.26	1
RW-1	6/5/2003	6.6	< 0.005	5.2	15	0.013	< 0.01	< 0.005	< 0.005	< 0.005	--	< 0.005	0.65	< 0.005	--	0.0087	--	--	0.32	0.93	0.32	--	0.38	< 0.005
RW-1	12/10/2003	12	< 0.005	11	14	0.013	< 0.01	< 0.02	< 0.005	< 0.005	< 0.01	< 0.005	< 1	< 0.005	0.63	0.0071	< 0.005	0.0062	0.19	0.94	< 0.5	--	< 0.5	2.5
RW-1	6/17/2004	11	< 0.005	5.7	14	0.014	< 0.01	< 0.02	< 0.005	< 0.005	< 0.01	< 0.005	0.17	< 0.005	0.51	0.0085	< 0.005	< 0.005	0.27	0.48	0.3	--	0.3	0.97
RW-1	1/25/2005	9.1	< 0.5	6.9	15	< 0.5	< 1	< 2	< 0.5	< 0.5	< 1	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.63	< 0.5	--	< 0.5	1
RW-1	12/13/2005	6.3	< 0.5	11	18	< 0.5	< 1	17	< 0.5	< 0.5	1.2	< 0.005	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1.4	0.52	0.86	--	< 0.5	1.7
RW-1	7/10/2006	4.6	< 0.5	5.2	11	< 0.5	< 1	15	< 0.5	< 0.5	< 1	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.86	< 0.5	0.78	--	< 0.5	0.64
RW-1	2/14/2007	5.3	< 0.005	7.9	16	0.019	0.015	37	< 0.005	< 0.005	0.6	< 0.005	1.5	< 0.005	0.78	0.02	< 0.005	0.0055	1.7	0.56	0.86	--	0.3	1.4
RW-1	8/6/2007	2.5	< 0.005	5.4	11	0.015	< 0.01	55	< 0.005	< 0.005	< 0.01	< 0.005	1.6	< 0.005	0.35	0.012	< 0.005	< 0.005	2.3	0.16	0.64	--	0.19	0.79
RW-1	2/28/2008	4.7	< 0.005	4.7	14	0.017	< 0.01	53	< 0.005	--	--	< 0.005	3	< 0.005	0.85	0.016	< 0.005	0.0062	2.2	0.31	0.71	--	0.19	0.87
RW-1	11/26/2008	3.9	< 0.5	3.4	15	< 0.5	< 1	43	< 0.5	< 0.5	< 1	< 0.5	3.7	< 0.5	0.67	< 0.5	< 0.5	< 0.5	4.4	< 0.5	0.81	--	< 0.5	0.82
RW-1	9/10/2009	5.4	< 0.005	3.2	15	0.017	< 0.01	50	--	< 0.005	0.3	< 0.005	< 0.01	< 0.005	0.77	0.016	--	0.0096	3.2	0.11	0.89	--	0.23	0.8
RW-1	3/17/2010	2	< 0.005	1.4	8.8	0.0086	< 0.01	19	< 0.005	< 0.005	0.098	< 0.005	2.9	< 0.005	0.41	0.0061	< 0.005	< 0.005	2.2	0.07	0.49	< 0.005	0.46	0.46
RW-1	9/20/2010	0.81	< 0.5	1.8	1.8	< 0.5	< 1	49	< 0.5	< 0.5	< 1	< 0.5	3.9	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1.6	< 0.5	1.4	< 0.5	< 0.5	1.8
RW-1	4/8/2011	1.6	< 0.005	2.4	9.5	0.014	0.014	53	< 0.005	< 0.005	0.13	< 0.005	2.9	< 0.005	0.53	0.0096	< 0.005	< 0.005	4	0.078	1.2	< 0.005	0.15	0.88
RW-1	10/21/2011	2.2	< 0.005	2.3	11	0.012	< 0.01	37	< 0.005	< 0.005	< 0.01	< 0.005	3.5	< 0.005	0.4	0.0094	< 0.005	< 0.005	3.1	0.06	1.1	< 0.005	0.15	1.3
RW-1	10/3/2012	0.19	--	0.21	1.1	< 0.005	< 0.01	1.9	--	--	0.036	< 0.005	0.32	< 0.005	0.054	< 0.005	--	< 0.005	0.25	0.022	0.11	< 0.005	0.019	0.19
RW-1	6/13/2013	0.16	< 0.1	1.2	1.7	< 0.1	< 1	10	< 0.1	--	0.12	< 0.1	1.1	< 0.5	0.16	< 0.1	< 0.1	--	1.2	< 0.1	0.84	< 0.1	< 0.1	1.2
RW-1	12/5/2013	0.76	< 0.001	1.4	< 0.001	0.012	< 0.01	2.5	< 0.001	< 0.001	0.11	< 0.001	1.4	< 0.005	0.39	0.0072	< 0.001	0.0048	0.2	0.082	0.44	0.0026	0.14	0.68
RW-1	10/8/2014	0.3	< 0.005	1.8	1.2	0.015	< 0.01	1.7	< 0.005	< 0.005	0.13	< 0.005	0.78	< 0.005	0.15	0.0065	< 0.005	< 0.005	0.2	0.0072	0.45	< 0.005	0.014	0.61
RW-1	1/16/2015	0.18	< 0.005	0.47	0.87	0.0086	< 0.01	4.5	< 0.005	< 0.005	< 0.01	< 0.005	0.89	< 0.005	0.11	0.0086	< 0.005	< 0.005	0.018	0.023	0.4	< 0.005	0.031	0.35

Notes
mg/L - milligrams per liter
< - less than reporting limit
-- no data

TABLE E1. HISTORICAL GROUNDWATER DATA

Monitoring Well	Date	1,1,1-Trichloroethane mg/L	1,1,2-Trichloroethane mg/L	1,1-Dichloroethane mg/L	1,1-Dichloroethene mg/L	1,2-Dichloroethane mg/L	4-Methyl-2-Pentanone mg/L	Acetone mg/L	Benzene mg/L	Carbon Disulfide mg/L	Freon-113 mg/L	Chlorobenzene mg/L	Chloroethane mg/L	Chloroform mg/L	cis-1,2-Dichloroethene mg/L	Ethylbenzene mg/L	Isopropylbenzene mg/L	Methylcyclohexane mg/L	Methylene chloride mg/L	Tetrachloroethene mg/L	Toluene mg/L	trans-1,2-Dichloroethene mg/L	Trichloroethene mg/L	Vinyl Chloride mg/L
RW-2	7/13/1995	0.377	< 0.5	0.062	0.192	0.192	< 0.5	3.792	< 0.5	< 0.5	--	< 0.5	< 0.5	< 0.5	--	< 0.5	< 0.5	--	1.306	0.335	< 0.5	--	< 0.05	< 0.5
RW-2	3/22/1996	0.084	< 0.01	0.028	0.044	--	< 0.01	0.76	< 0.01	< 0.01	--	< 0.01	--	--	--	< 0.01	< 0.01	--	0.37	0.015	0.002	--	0.008	--
RW-2	8/15/1997	0.17	< 0.005	0.02	0.039	< 0.005	< 0.01	< 0.1	< 0.005	< 0.005	--	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	0.065	0.015	< 0.005	--	< 0.005	< 0.005
RW-2	11/5/1997	0.54	< 0.025	0.082	0.31	< 0.005	< 0.025	< 0.5	< 0.025	< 0.025	--	< 0.025	< 0.005	< 0.005	--	< 0.025	< 0.025	--	0.6	0.05	< 0.025	--	< 0.025	< 0.005
RW-2	11/27/2000	0.063	--	0.0079	0.054	< 0.005	--	< 0.005	--	--	--	--	< 0.005	0.0072	--	--	--	--	< 0.005	0.044	< 0.005	--	< 0.005	< 0.005
RW-2	7/20/2001	0.025	< 0.005	< 0.005	0.027	< 0.005	< 0.01	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	0.009	--	< 0.005	--	--	< 0.005	0.021	< 0.005	--	< 0.005	< 0.005
RW-2	2/5/2002	0.058	< 0.005	0.012	0.06	< 0.005	< 0.01	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	0.019	--	< 0.005	--	--	< 0.005	0.053	< 0.005	--	< 0.005	< 0.005
RW-2	7/23/2002	0.033	< 0.005	0.024	0.043	< 0.005	< 0.01	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	0.0064	--	< 0.005	--	--	< 0.005	0.035	< 0.005	--	< 0.005	< 0.005
RW-2	12/18/2002	0.13	< 0.005	< 0.005	0.13	< 0.005	< 0.01	< 0.005	< 0.005	< 0.005	--	< 0.005	0.0061	0.019	--	< 0.005	--	--	< 0.005	1.209	< 0.005	--	0.0054	0.0062
RW-2	6/5/2003	0.048	< 0.005	0.13	0.11	< 0.005	< 0.01	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	0.014	--	< 0.005	--	--	< 0.005	0.11	< 0.005	--	0.0068	< 0.005
RW-2	12/10/2003	0.12	< 0.005	0.29	0.25	< 0.005	< 0.01	0.21	< 0.005	< 0.005	< 0.01	< 0.005	0.019	0.019	0.021	< 0.005	< 0.005	< 0.005	0.0063	0.2	< 0.005	--	0.011	0.0045
RW-2	6/17/2004	0.16	< 0.005	0.23	0.33	< 0.005	< 0.01	< 0.02	< 0.005	< 0.005	< 0.01	< 0.005	0.047	0.011	0.036	< 0.005	< 0.005	< 0.005	0.038	0.18	< 0.005	--	0.041	0.01
RW-2	1/25/2005	0.092	< 0.005	0.18	0.2	< 0.005	< 0.01	< 0.02	< 0.005	< 0.005	< 0.01	< 0.005	0.033	0.01	0.033	< 0.005	< 0.005	< 0.005	0.032	0.087	< 0.005	--	0.028	0.01
RW-2	12/13/2005	0.15	< 0.005	0.54	0.54	< 0.005	< 0.01	< 0.05	< 0.005	< 0.005	< 0.01	< 0.5	0.071	0.01	0.14	< 0.005	< 0.005	< 0.005	0.015	0.16	< 0.005	--	0.11	0.044
RW-2	7/10/2006	0.059	< 0.005	0.18	0.32	< 0.005	< 0.01	< 0.05	< 0.005	< 0.005	< 0.01	< 0.005	0.03	< 0.005	0.056	< 0.005	< 0.005	< 0.005	0.0085	0.091	< 0.005	--	0.06	0.0077
RW-2	2/14/2007	0.061	< 0.005	0.28	0.21	< 0.005	< 0.01	0.34	< 0.005	< 0.005	< 0.01	< 0.005	0.043	0.0091	0.1	< 0.005	< 0.005	< 0.005	0.012	0.1	< 0.005	--	0.075	0.015
RW-2	8/6/2007	0.077	< 0.005	0.22	0.27	< 0.005	< 0.01	0.6	< 0.005	< 0.005	< 0.01	< 0.005	0.026	0.0068	0.088	< 0.005	< 0.005	< 0.005	< 0.005	0.11	< 0.005	--	0.11	0.031
RW-2	2/28/2008	0.065	< 0.005	0.22	0.19	< 0.005	< 0.01	< 0.05	< 0.005	< 0.005	< 0.01	< 0.005	0.017	0.0075	0.078	< 0.005	< 0.005	< 0.005	< 0.005	0.09	< 0.005	--	0.094	0.021
RW-2	11/26/2008	0.069	< 0.005	0.14	0.25	< 0.005	< 0.01	0.99	< 0.005	< 0.005	< 0.01	< 0.005	0.021	< 0.005	0.081	< 0.005	< 0.005	< 0.005	0.274	0.1	< 0.005	--	0.13	0.029
RW-2	9/10/2009	0.043	< 0.005	0.093	0.1	< 0.005	< 0.01	< 0.05	< 0.005	< 0.005	< 0.01	< 0.005	< 0.01	0.0065	0.071	< 0.005	< 0.005	< 0.005	< 0.005	0.069	< 0.005	--	0.1	0.023
RW-2	3/17/2010	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.01	0.19	< 0.005	< 0.005	< 0.01	< 0.005	< 0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.002
RW-2	9/17/2010	0.095	< 0.005	0.037	0.51	< 0.005	< 0.01	< 0.05	< 0.005	< 0.005	0.034	< 0.005	0.01	< 0.005	0.0066	< 0.005	< 0.005	< 0.005	0.0058	0.081	< 0.005	< 0.005	0.0075	0.0067
RW-2	4/8/2011	0.019	< 0.005	0.089	0.057	< 0.005	< 0.01	0.077	< 0.005	< 0.005	< 0.01	< 0.005	< 0.01	< 0.005	0.086	< 0.005	< 0.005	< 0.005	< 0.005	0.059	< 0.005	< 0.005	0.1	0.022
RW-2	10/21/2011	0.012	< 0.005	0.081	0.032	< 0.005	< 0.01	< 0.05	< 0.005	< 0.005	< 0.01	< 0.005	< 0.01	< 0.005	0.12	< 0.005	< 0.005	< 0.005	< 0.005	0.04	< 0.005	< 0.005	0.06	0.018
RW-2	10/2/2012	0.015	--	0.1	0.038	< 0.005	< 0.01	< 0.05	--	--	< 0.01	< 0.005	0.041	< 0.005	0.16	< 0.005	--	< 0.005	< 0.005	0.071	< 0.005	< 0.005	0.11	0.022
RW-2	6/13/2013	0.013	< 0.001	0.038	0.016	< 0.001	< 0.01	< 0.05	< 0.001	--	< 0.001	< 0.001	0.015	< 0.005	0.25	< 0.001	< 0.001	--	< 0.005	0.092	< 0.005	< 0.001	0.13	0.0065
RW-2	12/4/2013	0.013	< 0.001	0.046	0.03	< 0.001	< 0.01	< 0.05	< 0.001	< 0.001	< 0.001	< 0.001	0.036	< 0.005	0.32	< 0.001	< 0.001	< 0.001	< 0.005	0.083	< 0.005	< 0.001	0.13	0.014
RW-2	10/8/2014	0.014	< 0.005	0.036	0.027	< 0.005	< 0.01	< 0.05	< 0.005	< 0.005	< 0.01	< 0.005	0.022	< 0.005	0.36	< 0.005	< 0.005	< 0.005	< 0.005	0.13	< 0.005	< 0.005	0.18	0.0088
RW-2	1/16/2015	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.01	< 0.05	< 0.005	< 0.005	< 0.01	< 0.005	< 0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.002

Notes
mg/L - milligrams per liter
< - less than reporting limit
-- no data

TABLE E1. HISTORICAL GROUNDWATER DATA

Monitoring Well	Date	1,1,1-Trichloroethane mg/L	1,1,2-Trichloroethane mg/L	1,1-Dichloroethane mg/L	1,1-Dichloroethene mg/L	1,2-Dichloroethane mg/L	4-Methyl-2-Pentanone mg/L	Acetone mg/L	Benzene mg/L	Carbon Disulfide mg/L	Freon-113 mg/L	Chlorobenzene mg/L	Chloroethane mg/L	Chloroform mg/L	cis-1,2-Dichloroethene mg/L	Ethylbenzene mg/L	Isopropylbenzene mg/L	Methylcyclohexane mg/L	Methylene chloride mg/L	Tetrachloroethene mg/L	Toluene mg/L	trans-1,2-Dichloroethene mg/L	Trichloroethene mg/L	Vinyl Chloride mg/L	
DW-1	11/5/1997	3	< 0.25	< 0.25	1.9	< 0.005	< 0.25	54	< 0.25	< 0.25	--	< 0.25	< 0.005	< 0.005	--	< 0.25	< 0.25	--	28	0.32	< 0.25	--	< 0.25	< 0.005	
DW-1	11/27/2000	0.78	--	< 0.005	0.85	< 0.005	--	< 0.005	--	--	--	--	< 0.005	< 0.005	--	--	--	--	< 0.005	0.14	< 0.005	--	< 0.005	< 0.005	
DW-1	7/20/2001	0.49	< 0.005	0.011	0.54	< 0.005	< 0.01	< 0.005	< 0.005	--	--	< 0.005	< 0.005	< 0.005	--	< 0.005	--	--	< 0.005	0.14	< 0.005	--	0.0084	< 0.005	
DW-1	2/5/2002	1.2	< 0.005	0.0092	1.7	< 0.005	< 0.01	< 0.005	< 0.005	--	--	< 0.005	< 0.005	< 0.005	--	< 0.005	--	--	< 0.005	0.3	< 0.005	--	0.0054	< 0.005	
DW-1	7/23/2002	0.46	< 0.005	< 0.005	0.75	< 0.005	< 0.01	< 0.005	< 0.005	--	--	< 0.005	< 0.005	< 0.005	--	< 0.005	--	--	< 0.005	0.15	< 0.005	--	< 0.005	< 0.005	
DW-1	12/18/2002	1	< 0.005	1.6	1.6	< 0.005	< 0.01	< 0.005	< 0.005	--	--	< 0.005	< 0.005	< 0.005	--	< 0.005	--	--	< 0.005	0.24	< 0.005	--	< 0.005	< 0.005	
DW-1	6/5/2003	5	< 0.005	0.1	11	0.0076	< 0.01	< 0.005	< 0.005	--	--	< 0.005	< 0.005	< 0.005	--	< 0.005	--	--	0.014	2	< 0.005	--	0.04	< 0.005	
DW-1	12/10/2003	12	< 0.5	< 0.5	15	< 0.5	< 1	< 2	< 0.5	< 0.5	< 1	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	3.6	< 0.5	--	< 0.5	< 0.2	
DW-1	6/17/2004	4.2	< 0.005	0.12	6.5	< 0.005	< 0.01	< 0.02	< 0.005	< 0.005	< 0.01	< 0.005	< 0.01	< 0.005	0.0055	< 0.005	< 0.005	< 0.005	< 0.005	1.2	< 0.005	--	0.023	< 0.002	
DW-1	1/25/2005	6.2	< 0.5	< 0.5	12	< 0.5	< 1	< 2	< 0.5	< 0.5	< 1	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	2.3	< 0.5	--	< 0.5	< 0.2	
DW-1	12/13/2005	1.5	< 0.5	5.8	5.7	< 0.5	< 1	39	< 0.5	< 0.5	< 1	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	3.6	0.76	< 0.5	--	< 0.5	0.74
DW-1	7/10/2006	0.61	< 0.5	12	3.9	< 0.5	< 1	150	< 0.5	< 0.5	< 1	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	6.3	< 0.5	0.98	--	< 0.5	1.7
DW-1	2/14/2007	0.026	< 0.005	0.16	0.06	< 0.005	< 0.01	0.38	< 0.005	< 0.005	< 0.01	< 0.005	< 0.01	< 0.005	0.012	< 0.005	< 0.005	< 0.005	< 0.005	0.031	0.013	--	0.013	0.013	
DW-1	8/6/2007	0.55	< 0.005	7.3	2.3	0.0091	< 0.01	330	< 0.005	< 0.005	< 0.01	< 0.005	0.86	< 0.005	0.16	< 0.005	< 0.005	< 0.005	3.9	0.27	0.95	--	0.079	0.82	
DW-1	2/28/2008	0.49	< 0.005	7.1	2.3	0.015	< 0.01	150	--	--	--	--	16	< 0.005	0.22	0.011	< 0.005	0.006	2	0.37	1.2	--	0.13	1.2	
DW-1	11/26/2008	0.29	< 0.005	3.6	1.6	0.0097	< 0.01	140	< 0.005	< 0.005	< 0.01	< 0.005	1.3	< 0.005	0.16	0.0058	< 0.005	< 0.005	0.85	0.24	0.66	--	0.1	0.77	
DW-1	9/10/2009	0.36	< 0.005	3.4	1.2	0.0079	< 0.01	48	< 0.005	< 0.005	0.068	< 0.005	< 0.01	< 0.005	0.2	0.0058	< 0.005	< 0.005	0.43	0.23	0.55	--	0.12	0.7	
DW-1	3/17/2010	0.37	< 0.005	2.1	1.4	0.0062	< 0.01	14	< 0.005	< 0.005	0.055	< 0.005	1.7	< 0.005	0.19	< 0.005	< 0.005	< 0.005	0.26	0.28	0.36	< 0.005	0.52	0.52	
DW-1	9/17/2010	0.31	< 0.005	1.4	1	0.0058	< 0.01	11	< 0.005	< 0.005	0.059	< 0.005	1	< 0.005	0.16	< 0.005	< 0.005	< 0.005	0.13	0.34	0.36	< 0.005	0.14	0.31	
DW-1	4/8/2011	0.35	< 0.005	1.5	1.1	< 0.005	< 0.01	10	< 0.005	< 0.005	0.068	< 0.005	0.73	< 0.005	0.16	< 0.005	< 0.005	< 0.005	0.12	0.37	0.31	< 0.005	0.14	0.29	
DW-1	10/21/2011	0.24	< 0.005	0.78	0.76	< 0.005	< 0.01	3.5	< 0.005	< 0.005	< 0.01	< 0.005	0.63	< 0.005	0.097	< 0.005	< 0.005	< 0.005	0.046	0.3	0.22	< 0.005	0.11	0.15	
DW-1	10/2/2012	0.23	--	0.68	0.84	0.0054	< 0.01	2.5	--	--	0.076	< 0.005	1.2	< 0.005	0.069	< 0.005	--	< 0.005	0.032	0.26	0.29	< 0.005	0.049	0.14	
DW-1	6/13/2013	0.25	< 0.001	0.53	0.68	0.007	< 0.01	0.77	< 0.001	--	0.079	< 0.001	0.88	< 0.005	0.056	0.005	< 0.001	--	0.024	0.34	0.4	0.0011	0.04	0.11	
DW-1	12/5/2013	0.41	< 0.001	0.93	1.2	0.0095	< 0.01	0.077	< 0.001	< 0.001	0.13	< 0.001	1.4	< 0.005	0.08	0.0063	< 0.001	0.0032	0.037	0.54	0.49	0.001	0.051	0.18	
DW-1	10/8/2014	0.2	< 0.005	0.5	0.76	0.0091	< 0.01	0.36	< 0.005	< 0.005	0.1	< 0.005	0.89	< 0.005	0.29	0.0051	< 0.005	< 0.005	0.022	0.097	0.5	< 0.005	0.067	0.11	
DW-1	1/16/2015	0.077	< 0.005	0.28	0.69	0.0067	< 0.01	0.093	< 0.005	< 0.005	< 0.01	< 0.005	0.76	< 0.005	0.052	0.0064	< 0.005	< 0.005	0.019	0.52	0.46	< 0.005	0.038	0.051	
DW-1	4/8/2015	0.02	< 0.005	0.088	0.15	< 0.005	< 0.01	< 0.05	< 0.005	< 0.005	< 0.01	< 0.005	0.48	< 0.005	0.022	< 0.005	< 0.005	< 0.005	0.0053	0.12	0.25	< 0.005	0.016	0.019	

Notes

mg/L - milligrams per liter
 < - less than reporting limit
 -- no data

TABLE E1. HISTORICAL GROUNDWATER DATA

Monitoring Well	Date	1,1,1-Trichloroethane mg/L	1,1,2-Trichloroethane mg/L	1,1-Dichloroethane mg/L	1,1-Dichloroethene mg/L	1,2-Dichloroethane mg/L	4-Methyl-2-Pentanone mg/L	Acetone mg/L	Benzene mg/L	Carbon Disulfide mg/L	Freon-113 mg/L	Chlorobenzene mg/L	Chloroethane mg/L	Chloroform mg/L	cis-1,2-Dichloroethene mg/L	Ethylbenzene mg/L	Isopropylbenzene mg/L	Methylcyclohexane mg/L	Methylene chloride mg/L	Tetrachloroethene mg/L	Toluene mg/L	trans-1,2-Dichloroethene mg/L	Trichloroethene mg/L	Vinyl Chloride mg/L
MW-1	7/13/1995	140	< 0.5	1.69	53.816	1.69	< 0.5	95.204	< 0.5	< 0.5	--	< 0.5	< 0.5	--	--	< 0.5	--	--	141.054	16.293	6.752	--	0.358	< 0.05
MW-1	3/22/1996	200	--	4.5	13	--	--	55	--	< 0.05	--	--	0.26	0.015	--	--	--	--	160	2.3	39	--	0.017	< 0.05
MW-1	8/15/1997	500	< 25	< 25	26	< 0.005	< 50	< 500	< 25	< 25	--	< 25	< 0.005	< 0.005	--	< 25	< 25	--	390	< 25	48	--	< 2.5	< 10
MW-1	11/27/2000	64	--	1.9	7.6	< 0.005	--	8.1	--	--	--	--	0.011	< 0.005	--	--	--	--	29	1.1	29	--	0.41	< 0.005
MW-1	7/20/2001	74	< 0.005	1.1	6.7	< 0.005	< 0.01	< 0.005	< 0.005	0.0073	--	< 0.005	< 0.005	< 0.005	--	0.023	--	--	8.3	1.1	22	--	0.94	< 0.005
MW-1	2/5/2002	6.1	< 0.005	1.8	6.8	< 0.005	< 0.01	9	< 0.005	< 0.005	--	< 0.005	< 0.005	< 0.005	--	0.029	--	--	4.3	0.57	25	--	2.6	< 0.005
MW-1	7/23/2002	65	< 0.005	0.75	4.9	0.011	0.021	2.9	< 0.005	< 0.005	--	< 0.005	< 0.005	0.0052	--	0.027	--	--	16	0.91	20	--	0.67	< 0.005
MW-1	12/18/2002	96	< 0.005	1.2	6.4	< 0.005	0.018	19	< 0.005	< 0.005	--	< 0.005	< 0.005	< 0.005	--	0.035	--	--	15	1.8	26	--	1.4	0.0071
MW-1	6/5/2003	45	< 0.005	0.55	3.4	< 0.005	< 0.01	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	< 0.005	--	0.031	--	--	3.5	0.81	15	--	2.4	< 0.005
MW-1	12/10/2003	73	< 2.5	< 2.5	15	< 2.5	< 5	< 10	< 2.5	< 2.5	< 5	< 2.5	< 5	< 2.5	5.4	< 2.5	< 2.5	< 2.5	4.8	2.9	25	--	< 2.5	< 1
MW-1	6/17/2004	42	< 0.005	0.32	2.2	< 0.005	0.024	< 0.02	< 0.005	< 0.005	< 0.01	0.009	< 0.01	< 0.005	4.7	0.033	< 0.005	< 0.005	5.9	0.32	14	--	0.93	< 0.002
MW-1	1/25/2005	30	< 2.5	15	< 2.5	< 2.5	< 5	< 10	< 2.5	< 2.5	< 5	< 2.5	< 5	< 2.5	15	< 2.5	< 2.5	< 2.5	< 2.5	< 2.3	6.9	--	5	< 1
MW-1	12/13/2005	22	< 2.5	9.7	2.6	< 2.5	< 5	480	< 2.5	< 2.5	< 5	< 2.5	< 5	< 2.5	49	< 2.5	< 2.5	< 2.5	3.4	< 2.5	11	--	< 2.5	< 1
MW-1	7/10/2006	9.3	< 2.5	9.6	< 2.5	< 2.5	< 5	1000	< 2.5	< 2.5	< 5	< 2.5	< 5	< 2.5	56	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	7.3	--	2.5	< 2.5
MW-1	2/14/2007	< 0.005	< 0.005	18	3.1	< 0.005	0.61	3900	< 0.005	< 0.005	< 0.01	0.042	< 0.01	< 0.005	91	0.073	0.0054	0.007	< 0.005	0.58	9.3	--	0.41	0.97
MW-1	8/6/2007	4	< 0.25	22	3.2	< 0.25	< 0.5	12000	< 0.25	< 0.25	< 0.5	< 0.25	< 0.5	< 0.25	100	< 0.25	< 0.25	< 0.25	7.5	0.58	9.7	--	< 0.25	0.79
MW-1	2/28/2008	1.6	< 0.005	18	2	< 0.005	0.83	900	--	--	--	0.043	< 0.01	< 0.005	100	0.095	< 0.005	0.014	< 0.005	0.011	5.7	--	0.016	1.2
MW-1	11/26/2008	2.9	< 0.25	27	6.9	< 0.25	0.57	7000	< 0.25	< 0.25	< 0.5	< 0.25	< 0.5	< 0.25	110	< 0.25	< 0.25	< 0.25	0.98	< 0.25	9.6	--	< 0.25	6
MW-1	9/10/2009	35	< 0.25	25	9.4	0.038	< 0.5	3200	< 0.25	< 0.25	--	< 0.25	< 0.0099	< 0.0076	100	--	< 0.25	< 0.25	4.4	< 0.0086	12	--	0.054	2.9
MW-1	3/17/2010	1.7	< 0.005	36	12	< 0.005	0.32	2600	< 0.005	< 0.005	0.031	0.037	0.017	< 0.005	120	0.056	< 0.005	< 0.005	0.065	0.0073	6.5	0.11	< 0.005	3.6
MW-1	9/16/2010	2.9	< 0.005	8.5	2.5	< 0.005	0.14	1200	< 0.005	< 0.005	< 0.01	0.041	< 0.01	< 0.005	49	0.065	< 0.005	0.0065	< 0.005	0.0064	6.3	0.089	0.088	4.1
MW-1	4/8/2011	1.4	< 0.005	9.4	1.5	0.009	0.14	420	< 0.005	< 0.005	0.012	0.024	< 0.01	< 0.005	16	0.064	< 0.005	0.0065	0.23	< 0.005	4.9	0.016	0.023	2.8
MW-1	10/21/2011	3.8	< 0.005	6.8	0.93	< 0.005	0.082	460	< 0.005	< 0.005	< 0.01	0.01	< 0.01	< 0.005	14	0.027	< 0.005	< 0.005	0.49	< 0.005	2.9	< 0.005	0.027	0.75
MW-1	8/6/2012	4.8	--	1.5	0.28	< 0.005	0.032	92	--	--	< 0.01	0.0096	< 0.01	< 0.005	3.5	0.029	--	< 0.005	0.19	0.019	2.6	0.0094	0.11	0.15
MW-1	6/14/2013	0.24	< 0.01	0.56	0.018	< 0.01	< 0.1	0.78	< 0.01	--	< 0.01	< 0.01	< 0.05	< 0.05	0.2	0.019	< 0.01	--	< 0.05	< 0.01	0.41	< 0.01	< 0.01	0.092
MW-1	12/5/2013	0.057	< 0.001	0.12	0.0031	< 0.001	< 0.01	0.26	< 0.001	< 0.001	0.0036	< 0.001	< 0.005	< 0.005	0.12	0.0065	< 0.001	0.0023	< 0.005	0.0051	0.026	< 0.001	0.028	0.049
MW-1	10/8/2014	0.09	< 0.005	0.19	0.012	< 0.005	< 0.01	0.17	< 0.005	0.013	< 0.01	< 0.005	< 0.01	< 0.005	0.16	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.018	< 0.005	0.047	0.082
MW-1	1/15/2015	0.11	< 0.005	0.57	0.019	< 0.005	< 0.01	4.5	< 0.005	< 0.005	< 0.01	< 0.005	0.057	< 0.005	0.19	< 0.005	< 0.005	< 0.005	< 0.005	0.021	0.055	< 0.005	0.1	0.16
MW-1	4/8/2015	0.014	< 0.005	0.084	< 0.005	< 0.005	< 0.01	< 0.05	< 0.005	< 0.005	< 0.01	< 0.005	0.01	< 0.005	0.041	< 0.005	< 0.005	< 0.005	< 0.005	0.0081	0.011	< 0.005	0.013	0.03

Notes
mg/L - milligrams per liter
< - less than reporting limit
-- no data

TABLE E1. HISTORICAL GROUNDWATER DATA

Monitoring Well	Date	1,1,1-Trichloroethane mg/L	1,1,2-Trichloroethane mg/L	1,1-Dichloroethane mg/L	1,1-Dichloroethene mg/L	1,2-Dichloroethane mg/L	4-Methyl-2-Pentanone mg/L	Acetone mg/L	Benzene mg/L	Carbon Disulfide mg/L	Freon-113 mg/L	Chlorobenzene mg/L	Chloroethane mg/L	Chloroform mg/L	cis-1,2-Dichloroethene mg/L	Ethylbenzene mg/L	Isopropylbenzene mg/L	Methylcyclohexane mg/L	Methylene chloride mg/L	Tetrachloroethene mg/L	Toluene mg/L	trans-1,2-Dichloroethene mg/L	Trichloroethene mg/L	Vinyl Chloride mg/L	
MW-2	7/13/1995	0.016	< 0.01	0.013	0.0071	--	< 0.01	0.262	< 0.01	< 0.01	--	< 0.01	< 0.01	< 0.01	--	< 0.01	< 0.01	--	0.047	--	--	--	0.0012	< 0.001	
MW-2	3/22/1996	0.003	< 0.01	0.002	< 0	--	< 0.01	0.017	< 0.01	< 0.01	--	< 0.01	--	--	--	< 0.01	< 0.01	--	0.009	0.003	0.001	--	< 0.01	< 0.01	
MW-2	8/15/1997	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.01	< 0.1	< 0.005	< 0.005	--	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	--	< 0.01	< 0.005	< 0.005	--	< 0.005	< 0.002	
MW-2	11/27/2000	--	< 0.005	< 0.005	< 0.005	< 0.005	< 0.01	--	< 0.005	< 0.005	< 0.01	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	
MW-2	7/20/2001	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.01	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	< 0.005	--	< 0.005	--	--	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	
MW-2	2/5/2002	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.01	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	< 0.005	--	< 0.005	--	--	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	
MW-2	7/23/2002	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.01	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	< 0.005	--	< 0.005	--	--	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	
MW-2	12/18/2002	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.01	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	< 0.005	--	< 0.005	--	--	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	
MW-2	6/5/2003	< 0.005	< 0.005	< 0.005	0.029	< 0.005	< 0.01	0.029	< 0.005	< 0.005	--	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	--	--	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	
MW-2	12/10/2003	< 0.005	< 0.005	< 0.005	< 0.02	< 0.005	< 0.01	< 0.02	< 0.005	< 0.005	< 0.01	< 0.005	< 0.01	< 0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.002	
MW-2	6/17/2004	< 0.005	< 0.005	< 0.005	< 0.02	< 0.005	< 0.01	< 0.02	< 0.005	< 0.005	< 0.01	< 0.005	< 0.01	< 0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.002	
MW-2	1/25/2005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.005	< 0.01	< 0.02	< 0.005	< 0.005	< 0.01	< 0.005	< 0.01	< 0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.002	
MW-2	12/13/2005	< 0.005	< 0.005	< 0.005	< 0.05	< 0.005	< 0.01	< 0.05	< 0.005	< 0.005	< 0.01	< 0.005	< 0.01	< 0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.019	< 0.005	--	< 0.005	< 0.002	
MW-2	7/10/2006	< 0.005	< 0.005	< 0.005	< 0.05	< 0.005	< 0.01	< 0.05	< 0.005	< 0.005	< 0.01	< 0.005	< 0.01	< 0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.002	
MW-2	2/14/2007	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.01	< 0.05	< 0.005	< 0.005	< 0.01	< 0.005	< 0.01	< 0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.002
MW-2	8/6/2007	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.01	< 0.05	< 0.005	< 0.005	< 0.01	< 0.005	< 0.01	< 0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.002
MW-2	2/28/2008	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.01	< 0.05	< 0.005	< 0.005	< 0.01	< 0.005	< 0.01	< 0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.002
MW-2	11/26/2008	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.01	< 0.05	< 0.005	< 0.005	< 0.01	< 0.005	< 0.01	< 0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.002
MW-2	9/10/2009	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.01	< 0.05	< 0.005	< 0.005	< 0.01	< 0.005	< 0.01	< 0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.002
MW-2	3/16/2010	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.01	< 0.05	< 0.005	< 0.005	< 0.01	< 0.005	< 0.01	< 0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.002	
MW-2	9/17/2010	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.01	< 0.05	< 0.005	< 0.005	< 0.01	< 0.005	< 0.01	< 0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.002	
MW-2	4/8/2011	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.01	< 0.05	< 0.005	< 0.005	< 0.01	< 0.005	< 0.01	< 0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.002	
MW-2	10/21/2011	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.01	< 0.05	< 0.005	< 0.005	< 0.01	< 0.005	< 0.01	< 0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.002	
MW-2	9/28/2012	< 0.005	--	< 0.005	< 0.005	< 0.005	< 0.01	< 0.05	--	--	< 0.01	< 0.005	< 0.01	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.002	
MW-2	6/11/2013	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.01	< 0.05	< 0.001	--	< 0.001	< 0.001	< 0.005	< 0.005	< 0.001	< 0.001	< 0.001	--	< 0.005	< 0.001	< 0.005	< 0.001	< 0.001	< 0.001	
MW-2	12/3/2013	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.01	< 0.05	< 0.001	< 0.001	< 0.001	< 0.001	< 0.005	< 0.005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.005	< 0.001	< 0.005	< 0.001	< 0.001	< 0.001	
MW-2	4/7/2015	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.01	< 0.05	< 0.005	< 0.005	< 0.01	< 0.005	< 0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.002	

Notes
mg/L - milligrams per liter
< - less than reporting limit
-- no data

TABLE E1. HISTORICAL GROUNDWATER DATA

Monitoring Well	Date	1,1,1-Trichloroethane mg/L	1,1,2-Trichloroethane mg/L	1,1-Dichloroethane mg/L	1,1-Dichloroethene mg/L	1,2-Dichloroethane mg/L	4-Methyl-2-Pentanone mg/L	Acetone mg/L	Benzene mg/L	Carbon Disulfide mg/L	Freon-113 mg/L	Chlorobenzene mg/L	Chloroethane mg/L	Chloroform mg/L	cis-1,2-Dichloroethene mg/L	Ethylbenzene mg/L	Isopropylbenzene mg/L	Methylcyclohexane mg/L	Methylene chloride mg/L	Tetrachloroethene mg/L	Toluene mg/L	trans-1,2-Dichloroethene mg/L	Trichloroethene mg/L	Vinyl Chloride mg/L
MW-3	7/13/1995	203.981	< 0.5	4.298	34.101	34.101	< 0.5	89.065	< 0.5	< 0.5	--	< 0.5	< 0.5	--	--	< 0.5	< 0.5	--	77.212	0.721	29.809	--	< 0.05	< 0.05
MW-3	3/22/1996	25	0.005	0.56	4.5	0.051	< 0.01	46	< 0.01	< 0.01	--	< 0.01	0.012	0.008	--	0.026	< 0.01	--	1	2.1	3.2	--	0.79	< 0.01
MW-3	8/15/1997	43	< 2.5	3.6	9.5	< 0.005	< 5	100	< 2.5	< 2.5	--	< 2.5	< 0.005	< 0.005	--	< 2.5	< 2.5	--	110	< 2.5	3.1	--	< 2.5	< 1
MW-3	11/27/2000	11	--	10	6.6	0.029	--	42	--	--	--	--	0.35	0.0075	--	--	--	--	52	0.56	2.4	--	0.66	0.73
MW-3	7/20/2001	34	0.005	25	16	0.072	0.053	< 0.005	< 0.005	< 0.005	--	< 0.005	1.1	0.03	--	0.079	--	--	130	0.53	6.5	--	1.4	1.4
MW-3	2/5/2002	29	< 0.005	24	11	< 0.005	0.14	560	< 0.005	< 0.005	--	< 0.005	1.4	0.011	--	0.072	--	--	160	0.37	4.6	--	1.7	1.4
MW-3	7/23/2002	13	< 0.005	33	13	0.074	0.072	110	< 0.005	< 0.005	--	< 0.005	2.7	< 0.005	--	0.083	--	--	150	0.23	7.3	--	1.1	3.6
MW-3	12/18/2002	3.4	< 0.005	7.2	1.6	0.02	0.024	83	< 0.005	< 0.005	--	< 0.005	0.19	< 0.005	--	0.013	--	--	28	0.08	1.5	--	0.18	0.13
MW-3	6/5/2003	2.9	< 0.005	0.007	6.1	0.0069	< 0.01	< 0.005	< 0.005	< 0.005	--	< 0.005	0.16	0.0069	--	< 0.005	--	--	1.2	0.31	0.18	--	0.14	0.57
MW-3	12/10/2003	0.7	< 0.005	0.78	1.8	< 0.005	< 0.01	< 0.02	< 0.005	< 0.005	< 0.01	< 0.005	0.018	< 0.005	0.06	< 0.005	< 0.005	< 0.005	0.26	0.046	0.041	--	0.026	0.064
MW-3	6/17/2004	1.4	< 0.005	1.9	1.5	< 0.005	< 0.01	3.1	< 0.005	< 0.005	< 0.01	< 0.005	0.31	< 0.005	0.58	< 0.005	< 0.005	< 0.005	2.2	0.018	0.18	--	0.05	0.19
MW-3	1/25/2005	1.7	< 0.5	2.5	3	< 0.5	< 1	< 2	< 0.5	< 0.5	< 1	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	--	< 0.5	0.23
MW-3	12/13/2005	3.4	< 0.5	17	7.4	< 0.5	< 1	59	< 0.5	< 0.5	< 1	< 0.5	1.6	< 0.5	5.2	< 0.5	< 0.5	< 0.5	6.5	< 0.5	1.2	--	< 0.5	2.8
MW-3	7/10/2006	< 0.005	< 0.005	0.008	< 5	< 0.005	< 0.01	4.3	< 0.005	< 0.005	< 0.01	< 0.005	< 0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.0093	< 0.005	< 0.005	--	< 0.005	< 0.002
MW-3	2/14/2007	1.2	< 0.005	1.6	2.6	0.0073	< 0.01	18	< 0.005	< 0.005	< 0.01	< 0.005	0.21	0.0075	0.17	< 0.005	< 0.005	< 0.005	0.44	0.1	0.13	--	0.14	0.16
MW-3	8/6/2007	11	0.005	15	7.3	0.022	0.034	270	< 0.005	< 0.005	< 0.01	< 0.005	0.84	< 0.005	7.1	0.055	< 0.005	0.0052	14	0.25	4.1	--	0.96	1.5
MW-3	2/28/2008	0.97	< 0.005	2.3	1.5	0.0074	0.011	85	--	--	--	< 0.005	0.88	0.005	0.73	0.017	< 0.005	< 0.005	1.9	0.28	0.98	--	0.25	< 0.002
MW-3	11/26/2008	7.2	< 0.1	9.8	8.5	< 0.1	< 0.2	150	< 0.1	< 0.1	< 0.2	< 0.1	1.7	< 0.1	4.9	< 0.1	< 0.1	< 0.1	17	0.27	5	--	0.71	2.4
MW-3	9/10/2009	2.4	< 0.005	3.2	1.2	< 0.005	< 0.01	44	--	< 0.005	0.027	< 0.005	< 0.01	< 0.005	2	0.014	--	< 0.005	0.28	0.093	0.8	--	0.5	0.7
MW-3	3/17/2010	2.2	< 0.005	5.3	2.5	0.011	0.018	160	< 0.005	< 0.005	0.021	< 0.005	2	< 0.005	3.4	0.024	< 0.005	< 0.005	2.2	0.13	2.1	< 0.005	0.19	1.6
MW-3	9/17/2010	0.81	< 0.005	1.9	2.5	< 0.005	< 0.01	19	< 0.005	< 0.005	< 0.01	< 0.005	0.12	< 0.005	1.4	0.0074	< 0.005	< 0.005	0.027	0.0064	0.25	< 0.005	0.0077	0.47
MW-3	4/8/2011	0.5	< 0.005	0.41	0.13	< 0.005	< 0.01	0.72	< 0.005	< 0.005	< 0.01	< 0.005	0.028	< 0.005	0.32	< 0.005	< 0.005	< 0.005	< 0.005	0.0058	0.067	< 0.005	0.0074	0.08
MW-3	10/21/2011	0.085	< 0.005	0.17	0.021	< 0.005	0.011	86	< 0.005	< 0.005	< 0.01	< 0.005	< 0.01	< 0.005	0.23	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.085	< 0.005	< 0.005	0.015
MW-3	10/3/2012	2.5	--	2.3	1.5	0.0061	0.012	39	--	--	0.044	< 0.005	0.24	< 0.005	3.2	0.022	--	0.0063	< 0.005	0.012	0.63	0.0051	0.045	0.87
MW-3	6/14/2013	0.24	< 0.05	4	0.24	< 0.05	< 0.5	15	< 0.05	--	< 0.05	< 0.05	0.27	< 0.25	1.7	< 0.05	< 0.05	--	< 0.25	< 0.05	0.64	< 0.05	< 0.05	1.2
MW-3	12/5/2013	2.9	< 0.25	2.9	1.7	< 0.25	< 2.5	--	< 0.25	< 0.25	< 0.25	< 0.25	< 1.2	< 1.2	5.1	< 0.25	< 0.25	< 0.25	< 1.2	< 0.25	< 1.2	< 0.25	< 0.25	1.6
MW-3	10/8/2014	1.6	< 0.005	3	1.5	0.0093	0.023	53	< 0.005	< 0.005	< 0.01	< 0.005	0.24	< 0.005	5	0.033	< 0.005	0.0093	< 0.005	0.0057	0.88	0.0065	0.073	1.4
MW-3	1/15/2015	0.37	< 0.005	0.76	0.39	< 0.005	< 0.01	18	< 0.005	< 0.005	< 0.01	< 0.005	0.29	< 0.005	0.55	0.0057	< 0.005	< 0.005	0.018	< 0.005	0.18	0.0067	< 0.005	0.38
MW-3	4/8/2015	0.17	< 0.005	0.83	0.11	< 0.005	0.01	20	< 0.005	< 0.005	< 0.01	< 0.005	0.6	< 0.005	0.28	0.013	< 0.005	< 0.005	0.0087	< 0.005	0.26	< 0.005	< 0.005	0.44

Notes

mg/L - milligrams per liter
< - less than reporting limit
-- no data

TABLE E1. HISTORICAL GROUNDWATER DATA

Monitoring Well	Date	1,1,1-Trichloroethane mg/L	1,1,2-Trichloroethane mg/L	1,1-Dichloroethane mg/L	1,1-Dichloroethene mg/L	1,2-Dichloroethane mg/L	4-Methyl-2-Pentanone mg/L	Acetone mg/L	Benzene mg/L	Carbon Disulfide mg/L	Freon-113 mg/L	Chlorobenzene mg/L	Chloroethane mg/L	Chloroform mg/L	cis-1,2-Dichloroethene mg/L	Ethylbenzene mg/L	Isopropylbenzene mg/L	Methylcyclohexane mg/L	Methylene chloride mg/L	Tetrachloroethene mg/L	Toluene mg/L	trans-1,2-Dichloroethene mg/L	Trichloroethene mg/L	Vinyl Chloride mg/L
MW-4	1/25/2005	3.4	< 0.5	< 0.5	13	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1.7	< 0.5	--	< 0.5	< 0.2
MW-4	12/13/2005	2.2	< 0.5	< 0.5	11	< 0.5	< 1	7	< 0.5	< 0.5	< 1	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1.2	< 0.5	--	< 0.5	< 0.2
MW-4	7/10/2006	2	< 0.5	< 0.5	11	< 0.5	< 1	< 5	< 0.5	< 0.5	< 1	< 0.5	< 1	< 0.5	< 0.005	< 0.5	< 0.5	< 0.5	< 0.5	1.5	< 0.5	--	< 0.5	< 0.2
MW-4	2/14/2007	3.6	0.008	< 0.005	18	< 0.005	< 0.01	< 0.05	< 0.005	< 0.005	< 0.01	< 0.005	< 0.01	< 0.005	< 0.005	< 0.005	< 0.005	0.0094	< 0.005	2	< 0.005	--	0.032	< 0.002
MW-4	8/6/2007	2.3	0.0055	0.033	19	< 0.005	< 0.01	< 0.05	< 0.05	< 0.005	< 0.01	< 0.005	< 0.01	< 0.005	< 0.005	< 0.005	< 0.005	0.0055	< 0.005	1.7	< 0.005	--	0.021	< 0.002
MW-4	2/28/2008	3.5	0.008	0.063	27	0.0075	< 0.01	< 0.05	--	--	--	--	< 0.01	< 0.005	0.022	< 0.005	< 0.005	0.016	< 0.005	2.2	< 0.005	--	0.035	< 0.002
MW-4	11/26/2008	1.4	< 0.5	< 0.5	13	< 0.5	< 1	< 5	< 0.5	< 0.5	< 1	< 0.5	< 1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1.2	< 0.5	--	< 0.5	< 0.2
MW-4	9/10/2009	2.9	< 0.5	< 0.013	18	0.024	< 0.5	< 0.55	< 0.5	< 0.5	2.5	< 0.5	< 0.02	< 0.005	< 0.5	< 0.5	< 0.5	< 0.5	< 0.096	2.2	< 0.015	--	< 0.012	< 0.019
MW-4	3/16/2010	2.2	0.0051	0.046	28	< 0.005	< 0.01	< 0.05	< 0.005	< 0.005	1.9	< 0.005	< 0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	1.7	< 0.005	< 0.005	0.023	< 0.002
MW-4	9/20/2010	2.9	< 0.005	0.023	4.6	< 0.005	< 0.01	< 0.05	< 0.005	< 0.005	0.39	< 0.005	< 0.01	< 0.005	0.015	< 0.005	< 0.005	< 0.005	< 0.005	0.46	< 0.005	< 0.005	0.02	< 0.002
MW-4	4/8/2011	2.5	< 0.005	0.09	9.1	< 0.005	< 0.01	< 0.05	< 0.005	< 0.005	0.84	< 0.005	< 0.01	< 0.005	0.042	< 0.005	< 0.005	< 0.005	< 0.005	0.92	< 0.005	< 0.005	0.12	< 0.002
MW-4	10/21/2011	0.89	< 0.005	0.088	3.2	< 0.005	< 0.01	< 0.05	< 0.005	< 0.005	< 0.01	< 0.005	< 0.01	< 0.005	0.069	< 0.005	< 0.005	< 0.005	< 0.005	0.42	< 0.005	< 0.005	0.11	< 0.002
MW-4	8/7/2012	1.7	--	0.061	9.4	< 0.005	< 0.01	< 0.05	--	--	< 0.01	< 0.005	< 0.01	< 0.005	0.013	< 0.005	--	< 0.005	< 0.005	0.62	< 0.005	< 0.005	0.069	< 0.002
MW-4	6/13/2013	1.6	< 0.2	< 0.2	8.6	< 0.2	< 2	< 10	< 0.2	--	0.6	< 0.2	< 1	< 1	< 0.2	< 0.2	< 0.2	--	< 1	1.5	< 1	< 0.2	< 0.2	< 0.2
MW-4	12/5/2013	2.1	< 0.025	0.12	14	< 0.025	< 0.25	< 1.2	< 0.025	< 0.025	1.6	< 0.025	< 0.12	< 0.12	0.039	< 0.025	< 0.025	< 0.025	< 0.12	1.6	< 0.12	< 0.025	0.12	< 0.025
MW-4	10/8/2014	2.4	< 0.005	0.075	16	< 0.005	< 0.01	< 0.05	< 0.005	< 0.005	2.4	< 0.005	< 0.01	< 0.005	0.011	< 0.005	< 0.005	0.0098	< 0.005	2.1	< 0.005	< 0.005	0.14	< 0.002
MW-4	1/15/2015	2.6	< 0.005	0.083	36	< 0.005	< 0.01	< 0.05	< 0.005	< 0.005	< 0.01	< 0.005	< 0.01	< 0.005	0.037	< 0.005	< 0.005	0.008	< 0.005	2.6	< 0.005	< 0.005	0.12	< 0.002
MW-4	4/9/2015	1	< 0.005	0.056	9.8	< 0.005	< 0.01	< 0.05	< 0.005	< 0.005	1.4	< 0.005	< 0.01	< 0.005	0.019	< 0.005	< 0.005	< 0.005	< 0.005	1.6	< 0.005	< 0.005	0.067	0.0055

Notes

mg/L - milligrams per liter
< - less than reporting limit
-- no data

TABLE E1. HISTORICAL GROUNDWATER DATA

Monitoring Well	Date	1,1,1-Trichloroethane mg/L	1,1,2-Trichloroethane mg/L	1,1-Dichloroethane mg/L	1,1-Dichloroethene mg/L	1,2-Dichloroethane mg/L	4-Methyl-2-Pentanone mg/L	Acetone mg/L	Benzene mg/L	Carbon Disulfide mg/L	Freon-113 mg/L	Chlorobenzene mg/L	Chloroethane mg/L	Chloroform mg/L	cis-1,2-Dichloroethene mg/L	Ethylbenzene mg/L	Isopropylbenzene mg/L	Methylcyclohexane mg/L	Methylene chloride mg/L	Tetrachloroethene mg/L	Toluene mg/L	trans-1,2-Dichloroethene mg/L	Trichloroethene mg/L	Vinyl Chloride mg/L	
MW-5	2/14/2007	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.01	< 0.05	< 0.005	< 0.005	< 0.01	< 0.005	< 0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.002	
MW-5	8/6/2007	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.01	< 0.05	< 0.005	< 0.005	< 0.01	< 0.005	< 0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.002
MW-5	2/28/2008	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.01	< 0.05	--	--	--	< 0.005	< 0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.002
MW-5	11/26/2008	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.01	< 0.05	< 0.005	< 0.005	< 0.01	< 0.005	< 0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.002
MW-5	9/10/2009	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.01	< 0.05	< 0.005	< 0.005	< 0.01	< 0.005	< 0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.002
MW-5	3/16/2010	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.01	< 0.05	< 0.005	< 0.005	< 0.01	< 0.005	< 0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.002
MW-5	9/17/2010	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.01	< 0.05	< 0.005	< 0.005	< 0.01	< 0.005	< 0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.002
MW-5	4/8/2011	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.01	< 0.05	< 0.005	< 0.005	< 0.01	< 0.005	< 0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.002
MW-5	10/21/2011	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.01	< 0.05	< 0.005	< 0.005	< 0.01	< 0.005	< 0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.002
MW-5	9/27/2012	< 0.005	--	< 0.005	< 0.005	< 0.005	< 0.01	< 0.05	--	--	< 0.01	< 0.005	< 0.01	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.002
MW-5	6/11/2013	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.01	< 0.05	< 0.001	--	< 0.001	< 0.001	< 0.005	< 0.005	< 0.001	< 0.001	< 0.001	--	< 0.005	< 0.001	< 0.005	< 0.001	< 0.001	< 0.001	< 0.001
MW-5	12/3/2013	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.01	< 0.05	< 0.001	< 0.001	< 0.001	< 0.001	< 0.005	< 0.005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.005	< 0.001	< 0.005	< 0.001	< 0.001	< 0.001	< 0.001
MW-5	4/8/2015	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.01	< 0.05	< 0.005	< 0.005	< 0.01	< 0.005	< 0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.002
MW-6	2/14/2007	< 0.005	< 0.005	< 0.005	< 0.005	--	< 0.01	< 0.05	< 0.005	< 0.005	< 0.01	< 0.005	< 0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.002
MW-6	8/6/2007	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.01	< 0.05	< 0.005	< 0.005	< 0.01	< 0.005	< 0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.002
MW-6	2/28/2008	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.01	< 0.05	--	--	--	< 0.005	< 0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.002
MW-6	11/26/2008	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.01	< 0.05	< 0.005	< 0.005	< 0.01	< 0.005	< 0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.002
MW-6	9/10/2009	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.01	< 0.05	< 0.005	< 0.005	< 0.01	< 0.005	< 0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.002
MW-6	3/17/2010	< 0.005	< 0.005	< 0.005	0.014	< 0.005	< 0.01	< 0.05	< 0.005	< 0.005	< 0.01	< 0.005	< 0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.002
MW-6	4/8/2011	< 0.005	< 0.005	0.0051	0.069	< 0.005	< 0.01	< 0.05	< 0.005	< 0.005	< 0.01	< 0.005	< 0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.012
MW-6	10/21/2011	0.0064	< 0.005	0.012	0.12	< 0.005	< 0.01	< 0.05	< 0.005	< 0.005	< 0.01	< 0.005	< 0.01	< 0.005	0.012	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.006	0.035
MW-6	9/27/2012	0.0065	--	0.021	0.16	< 0.005	< 0.01	< 0.05	--	--	< 0.01	< 0.005	< 0.01	< 0.005	0.01	< 0.005	--	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.007	0.065
MW-6	6/12/2013	0.0028	< 0.001	0.0053	0.084	< 0.001	< 0.01	< 0.05	< 0.001	--	0.0066	< 0.001	< 0.005	< 0.005	0.0033	< 0.001	< 0.001	--	< 0.005	0.0059	< 0.005	< 0.001	0.002	0.016	
MW-6	12/4/2013	< 0.001	< 0.001	0.0043	0.02	< 0.001	< 0.01	< 0.05	< 0.001	< 0.001	0.0028	< 0.001	< 0.005	< 0.005	0.0016	< 0.001	< 0.001	< 0.001	< 0.005	< 0.001	< 0.005	< 0.001	< 0.001	0.014	
MW-6	10/7/2014	< 0.005	< 0.005	0.015	0.11	< 0.005	< 0.01	< 0.05	< 0.005	< 0.005	0.011	< 0.005	< 0.01	< 0.005	0.0058	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.037	
MW-6	1/15/2015	< 0.005	< 0.005	0.014	0.17	< 0.005	< 0.01	< 0.05	< 0.005	< 0.005	< 0.01	< 0.005	< 0.01	< 0.005	0.0064	< 0.005	< 0.005	< 0.005	< 0.005	0.01	< 0.005	< 0.005	0.0052	0.032	
MW-6	4/8/2015	< 0.005	< 0.005	0.01	0.092	< 0.005	< 0.01	< 0.05	< 0.005	< 0.005	< 0.01	< 0.005	< 0.01	< 0.005	0.0052	< 0.005	< 0.005	< 0.005	< 0.005	0.0069	< 0.005	< 0.005	< 0.005	0.023	

Notes
mg/L - milligrams per liter
< - less than reporting limit
-- no data

TABLE E1. HISTORICAL GROUNDWATER DATA

Monitoring Well	Date	1,1,1-Trichloroethane mg/L	1,1,2-Trichloroethane mg/L	1,1-Dichloroethane mg/L	1,1-Dichloroethene mg/L	1,2-Dichloroethane mg/L	4-Methyl-2-Pentanone mg/L	Acetone mg/L	Benzene mg/L	Carbon Disulfide mg/L	Freon-113 mg/L	Chlorobenzene mg/L	Chloroethane mg/L	Chloroform mg/L	cis-1,2-Dichloroethene mg/L	Ethylbenzene mg/L	Isopropylbenzene mg/L	Methylcyclohexane mg/L	Methylene chloride mg/L	Tetrachloroethene mg/L	Toluene mg/L	trans-1,2-Dichloroethene mg/L	Trichloroethene mg/L	Vinyl Chloride mg/L	
MW-7	2/14/2007	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.01	< 0.05	< 0.005	< 0.005	< 0.01	< 0.005	< 0.01	< 0.005	4.7	< 0.005	< 0.005	< 0.005	< 0.005	0.055	< 0.005	--	0.041	1.2	
MW-7	8/6/2007	0.0063	< 0.005	0.0065	0.011	< 0.005	< 0.01	4.2	< 0.005	< 0.005	< 0.01	< 0.005	< 0.01	< 0.005	4.8	< 0.005	< 0.005	0.0052	< 0.005	< 0.005	0.035	--	< 0.005	2.4	
MW-7	2/28/2008	< 0.005	< 0.005	< 0.005	0.077	< 0.005	< 0.01	< 0.05	--	--	--	< 0.005	< 0.01	< 0.005	16	0.0073	< 0.005	< 0.005	< 0.005	0.66	0.055	--	0.4	4.5	
MW-7	11/26/2008	< 0.005	< 0.005	< 0.005	0.16	< 0.005	< 0.01	< 0.05	< 0.005	< 0.005	< 0.01	< 0.005	< 0.01	< 0.005	4.5	< 0.005	< 0.005	< 0.005	< 0.005	2	0.03	--	0.71	2.2	
MW-7	9/10/2009	< 0.005	< 0.005	< 0.005	0.034	< 0.005	< 0.01	< 0.05	< 0.005	--	< 0.01	--	< 0.01	< 0.005	4.3	0.0062	< 0.005	< 0.005	< 0.005	< 0.005	0.034	--	0.0051	2.7	
MW-7	3/16/2010	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.01	< 0.05	< 0.005	< 0.005	< 0.01	< 0.005	< 0.01	< 0.005	0.19	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.0057	< 0.005	< 0.005	0.29	
MW-7	9/16/2010	< 0.005	< 0.005	< 0.005	0.0088	< 0.005	< 0.01	< 0.05	< 0.005	< 0.005	< 0.01	< 0.005	< 0.01	< 0.005	1.6	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.022	< 0.005	< 0.005	0.96	
MW-7	4/8/2011	< 0.005	< 0.005	< 0.005	0.067	< 0.005	< 0.01	< 0.05	< 0.005	< 0.005	< 0.01	< 0.005	< 0.01	< 0.005	10	0.0067	< 0.005	< 0.005	< 0.005	< 0.005	0.92	0.04	0.019	0.82	3.2
MW-7	10/21/2011	< 0.005	< 0.005	< 0.005	0.011	< 0.005	< 0.01	< 0.05	< 0.005	< 0.005	< 0.01	< 0.005	< 0.01	< 0.005	1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.01	< 0.005	< 0.005	0.54	
MW-7	9/27/2012	< 0.005	--	< 0.005	0.03	< 0.005	< 0.01	< 0.05	--	--	< 0.01	< 0.005	< 0.01	< 0.005	1.6	< 0.005	--	< 0.005	< 0.005	< 0.005	0.015	< 0.005	< 0.005	0.85	
MW-7	6/13/2013	< 0.001	< 0.001	< 0.001	0.057	< 0.001	< 0.01	< 0.05	< 0.001	--	< 0.001	< 0.001	< 0.005	< 0.005	7.2	0.0038	< 0.001	--	< 0.005	0.37	0.022	0.013	0.43	3.2	
MW-7	12/5/2013	< 0.001	< 0.001	< 0.001	0.033	< 0.001	< 0.01	< 0.05	< 0.001	< 0.001	< 0.001	< 0.001	< 0.005	< 0.005	1.9	0.0023	< 0.001	< 0.001	< 0.005	0.048	0.014	0.0058	0.12	0.76	
MW-7	10/7/2014	< 0.005	< 0.005	< 0.005	0.0087	< 0.005	< 0.01	< 0.05	< 0.005	< 0.005	< 0.01	< 0.005	< 0.01	< 0.005	1.3	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.012	< 0.005	< 0.005	0.62	
MW-7	1/14/2015	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.01	< 0.05	< 0.005	< 0.005	< 0.01	< 0.005	< 0.01	< 0.005	0.25	< 0.005	< 0.005	< 0.005	< 0.01	< 0.005	0.005	< 0.005	< 0.005	0.16	
MW-7	4/8/2015	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.01	< 0.05	< 0.005	< 0.005	< 0.01	< 0.005	< 0.01	< 0.005	0.035	< 0.005	< 0.005	< 0.005	0.005	< 0.005	0.005	< 0.005	< 0.005	0.047	
MW-8	9/28/2012	0.016	--	< 0.005	0.037	< 0.005	< 0.01	< 0.05	--	--	< 0.01	< 0.005	< 0.01	0.0072	0.041	< 0.005	--	< 0.005	< 0.005	0.48	< 0.005	< 0.005	1.1	< 0.002	
MW-8	6/12/2013	0.0089	< 0.001	0.0033	0.026	< 0.001	< 0.01	< 0.05	< 0.001	--	< 0.001	< 0.001	< 0.005	0.005	0.028	< 0.001	< 0.001	--	< 0.005	0.54	< 0.005	< 0.001	1	< 0.001	
MW-8	12/4/2013	0.0052	< 0.001	0.0022	0.025	< 0.001	< 0.01	< 0.05	< 0.001	< 0.001	< 0.001	< 0.001	< 0.005	< 0.005	0.022	< 0.001	< 0.001	< 0.001	< 0.005	0.42	< 0.005	< 0.001	0.71	< 0.001	
MW-8	10/7/2014	0.0059	< 0.005	< 0.005	0.018	< 0.005	< 0.01	< 0.05	< 0.005	< 0.005	< 0.01	< 0.005	< 0.01	0.0053	0.025	< 0.005	< 0.005	< 0.005	< 0.005	0.32	< 0.005	< 0.005	0.67	< 0.002	
MW-8	1/15/2015	0.0067	< 0.005	< 0.005	0.03	< 0.005	< 0.01	< 0.05	< 0.005	< 0.005	< 0.01	< 0.005	< 0.01	0.0059	0.037	< 0.005	< 0.005	< 0.005	< 0.005	0.52	< 0.005	< 0.005	0.96	< 0.002	
MW-8	4/9/2015	< 0.005	< 0.005	< 0.005	0.017	< 0.005	< 0.01	< 0.05	< 0.005	< 0.005	< 0.01	< 0.005	< 0.01	0.0051	0.033	< 0.005	< 0.005	< 0.005	< 0.005	0.38	< 0.005	< 0.005	0.71	< 0.002	
MW-9	9/27/2012	< 0.005	--	< 0.005	< 0.005	< 0.005	< 0.01	< 0.05	--	--	< 0.01	< 0.005	< 0.01	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.002	
MW-9	6/11/2013	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.01	< 0.05	< 0.001	--	< 0.001	< 0.001	< 0.005	< 0.005	< 0.001	< 0.001	< 0.001	--	< 0.005	< 0.001	< 0.005	< 0.001	< 0.001	< 0.001	
MW-9	12/3/2013	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.01	< 0.05	< 0.001	< 0.001	< 0.001	< 0.001	< 0.005	< 0.005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.005	< 0.001	< 0.005	< 0.001	< 0.001	< 0.001	
MW-9	10/7/2014	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.01	< 0.05	< 0.005	< 0.005	< 0.01	< 0.005	< 0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.002	
MW-9	1/14/2015	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.01	< 0.05	< 0.005	< 0.005	< 0.01	< 0.005	< 0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.002	
MW-9	4/8/2015	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.01	< 0.05	< 0.005	< 0.005	< 0.01	< 0.005	< 0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.002	

Notes
mg/L - milligrams per liter
< - less than reporting limit
-- no data

TABLE E1. HISTORICAL GROUNDWATER DATA

Monitoring Well	Date	1,1,1-Trichloroethane mg/L	1,1,2-Trichloroethane mg/L	1,1-Dichloroethane mg/L	1,1-Dichloroethene mg/L	1,2-Dichloroethane mg/L	4-Methyl-2-Pentanone mg/L	Acetone mg/L	Benzene mg/L	Carbon Disulfide mg/L	Freon-113 mg/L	Chlorobenzene mg/L	Chloroethane mg/L	Chloroform mg/L	cis-1,2-Dichloroethene mg/L	Ethylbenzene mg/L	Isopropylbenzene mg/L	Methylcyclohexane mg/L	Methylene chloride mg/L	Tetrachloroethene mg/L	Toluene mg/L	trans-1,2-Dichloroethene mg/L	Trichloroethene mg/L	Vinyl Chloride mg/L
MW-10	10/8/2012	< 0.005	--	< 0.005	< 0.005	< 0.005	< 0.01	< 0.05	--	--	< 0.01	< 0.005	< 0.01	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.002
MW-10	6/12/2013	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.01	< 0.05	< 0.001	--	< 0.001	< 0.001	< 0.005	< 0.005	< 0.001	< 0.001	< 0.001	--	< 0.005	< 0.001	< 0.005	< 0.001	< 0.001	< 0.001
MW-10	12/4/2013	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.01	< 0.05	< 0.001	< 0.001	< 0.001	< 0.001	< 0.005	< 0.005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.005	< 0.001	< 0.005	< 0.001	< 0.001	< 0.001
MW-10	4/7/2015	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.01	< 0.05	< 0.005	< 0.005	< 0.01	< 0.005	< 0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.002
MW-11	10/8/2012	< 0.005	--	< 0.005	< 0.005	< 0.005	< 0.01	< 0.05	--	--	< 0.01	< 0.005	< 0.01	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.002
MW-11	6/12/2013	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.01	< 0.05	< 0.001	--	< 0.001	< 0.001	< 0.005	< 0.005	< 0.001	< 0.001	< 0.001	--	< 0.005	< 0.001	< 0.005	< 0.001	< 0.001	< 0.001
MW-11	12/4/2013	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.01	< 0.05	< 0.001	< 0.001	< 0.001	< 0.001	< 0.005	< 0.005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.005	< 0.001	< 0.005	< 0.001	< 0.001	< 0.001
MW-11	4/7/2015	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.01	< 0.05	< 0.005	< 0.005	< 0.01	< 0.005	< 0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.002
MW-12	10/8/2012	< 0.005	--	< 0.005	< 0.005	< 0.005	< 0.01	< 0.05	--	--	< 0.01	< 0.005	< 0.01	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.002
MW-12	6/12/2013	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.01	< 0.05	< 0.001	--	< 0.001	< 0.001	< 0.005	< 0.005	< 0.001	< 0.001	< 0.001	--	< 0.005	< 0.001	< 0.005	< 0.001	< 0.001	< 0.001
MW-12	12/3/2013	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.01	< 0.05	< 0.001	< 0.001	< 0.001	< 0.001	< 0.005	< 0.005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.005	< 0.001	< 0.005	< 0.001	< 0.001	< 0.001
MW-12	4/7/2015	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.01	< 0.05	< 0.005	< 0.005	< 0.01	< 0.005	< 0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.002
MW-13	10/8/2012	< 0.005	--	< 0.005	< 0.005	< 0.005	< 0.01	< 0.05	--	--	< 0.01	< 0.005	< 0.01	< 0.005	0.0055	< 0.005	--	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.0059
MW-13	6/12/2013	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.01	< 0.05	< 0.001	--	< 0.001	< 0.001	< 0.005	< 0.005	0.011	< 0.001	< 0.001	--	< 0.005	< 0.001	< 0.005	< 0.001	< 0.001	0.0041
MW-13	12/4/2013	< 0.001	< 0.001	0.001	< 0.001	< 0.001	< 0.01	< 0.05	< 0.001	< 0.001	< 0.001	< 0.001	< 0.005	< 0.005	0.009	< 0.001	< 0.001	< 0.001	< 0.005	< 0.001	< 0.005	< 0.001	< 0.001	0.0035
MW-13	10/7/2014	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.01	< 0.05	< 0.005	< 0.005	< 0.01	< 0.005	< 0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.002
MW-13	1/14/2015	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.01	< 0.05	< 0.005	< 0.005	< 0.01	< 0.005	< 0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.002
MW-13	4/8/2015	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.01	< 0.05	< 0.005	< 0.005	< 0.01	< 0.005	< 0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.002
MW-15	10/8/2012	< 0.005	--	< 0.005	< 0.005	< 0.005	< 0.01	< 0.05	--	--	< 0.01	< 0.005	0.078	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.0037
MW-15	6/12/2013	< 0.001	< 0.001	0.0017	< 0.001	< 0.001	< 0.01	< 0.05	< 0.001	--	< 0.001	< 0.001	0.042	< 0.005	< 0.001	< 0.001	< 0.001	--	< 0.005	< 0.001	< 0.005	< 0.001	< 0.001	< 0.001
MW-15	12/4/2013	< 0.001	< 0.001	0.0014	< 0.001	< 0.001	< 0.01	< 0.05	< 0.001	< 0.001	< 0.001	< 0.001	0.064	< 0.005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.005	< 0.001	< 0.005	< 0.001	< 0.001	< 0.001
MW-15	4/8/2015	< 0.005	< 0.005	0.0081	< 0.005	< 0.005	< 0.01	< 0.05	< 0.005	< 0.005	< 0.01	< 0.005	0.11	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.01

Notes
mg/L - milligrams per liter
< - less than reporting limit
-- no data

TABLE E2. HISTORICAL SOIL DATA

Sample Location	Sample Depth feet	Date	1,1,1-Trichloroethane mg/Kg	1,1-Dichloroethane mg/Kg	1,1-Dichloroethene mg/Kg	Acetone mg/Kg	cis-1,2-Dichloroethene mg/Kg	Cyclohexane mg/Kg	Ethylbenzene mg/Kg	Isopropylbenzene mg/Kg	m,p-Xylene mg/Kg	Methylene chloride mg/Kg	o-Xylene mg/Kg	Tetrachloroethene mg/Kg	Toluene mg/Kg	Trichloroethene mg/Kg	Xylenes, Total mg/Kg
FTUA-B1	0-2	6/25/2011	< 0.0041	< 0.0041	< 0.0041	< 0.083	< 0.0041	< 0.0041	< 0.0041	< 0.0041	< 0.0083	< 0.0041	< 0.0041	< 0.0041	< 0.0041	< 0.0041	NR
FTUA-B1	5	6/25/2011	< 0.0081	< 0.0081	< 0.0081	< 0.016	< 0.0081	< 0.0081	< 0.0081	< 0.0081	< 0.0016	< 0.0081	< 0.0081	< 0.0081	< 0.0081	< 0.0081	NR
FTUA-B2	0-2	6/25/2011	< 0.0062	< 0.0062	< 0.0062	< 0.012	< 0.0062	< 0.0062	< 0.0062	< 0.0062	< 0.0012	< 0.0062	< 0.0062	< 0.0062	< 0.0062	< 0.0062	NR
FTUA-B2	5	6/25/2011	< 0.0098	< 0.0098	< 0.0098	< 0.02	< 0.0098	< 0.0098	< 0.0098	< 0.0098	< 0.002	< 0.0098	< 0.0098	0.024	< 0.0098	< 0.0098	NR
FTUA-B2	10	6/25/2011	< 0.0097	< 0.0097	< 0.0097	< 0.019	< 0.0097	< 0.0097	< 0.0097	< 0.0097	< 0.0019	< 0.0097	< 0.0097	< 0.0097	< 0.0097	< 0.0097	NR
FTUA-B3	0-2	6/25/2011	< 0.0063	< 0.0063	< 0.0063	< 0.013	< 0.0063	0.018	< 0.0063	< 0.0063	< 0.0013	< 0.0063	< 0.0063	< 0.0063	< 0.0063	< 0.0063	NR
FTUA-B3	5	6/25/2011	< 0.0077	< 0.0077	< 0.0077	< 0.015	0.024	< 0.0077	< 0.0077	< 0.0077	< 0.0015	< 0.0077	< 0.0077	< 0.0077	< 0.0077	< 0.0077	NR
FTUA-B3	10	6/25/2011	< 0.0085	< 0.0085	< 0.0085	0.024	< 0.0085	< 0.0085	< 0.0085	< 0.0085	< 0.0017	< 0.0085	< 0.0085	< 0.0085	< 0.0085	< 0.0085	NR
FTUA-B3	15	6/25/2011	< 0.0088	< 0.0088	< 0.0088	< 0.018	< 0.0088	< 0.0088	< 0.0088	< 0.0088	< 0.0018	< 0.0088	< 0.0088	< 0.0088	< 0.0088	< 0.0088	NR
FTUA-B4	5	6/25/2011	< 0.0061	< 0.0061	< 0.0061	< 0.012	0.058	< 0.0061	< 0.0061	< 0.0061	< 0.0012	< 0.0061	< 0.0061	< 0.0061	0.0079	< 0.0061	NR
FTUA-B4	10	6/25/2011	< 0.0071	< 0.0071	< 0.0071	< 0.014	< 0.0071	< 0.0071	< 0.0071	< 0.0071	< 0.0014	< 0.0071	< 0.0071	0.034	< 0.0071	0.092	NR
FTUA-B4	15	6/25/2011	< 0.0086	< 0.0086	< 0.0086	< 0.017	< 0.0086	< 0.0086	< 0.0086	< 0.0086	< 0.0017	< 0.0086	< 0.0086	< 0.0086	< 0.0086	< 0.0086	NR
CSA-B5	0-2	6/25/2011	< 0.0084	< 0.0084	< 0.0084	< 0.17	< 0.0084	< 0.0084	< 0.0084	< 0.0084	< 0.017	< 0.0084	< 0.0084	< 0.0084	< 0.0084	< 0.0084	NR
CSA-B5	15	6/25/2011	< 0.007	< 0.007	< 0.007	< 0.14	< 0.007	< 0.007	< 0.007	< 0.007	< 0.014	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	NR
CSA-B6	0-2	9/9/2011	< 0.0084	< 0.0084	< 0.0084	< 0.17	< 0.0084	< 0.0084	< 0.0084	< 0.0084	< 0.017	< 0.0084	< 0.0084	< 0.0084	< 0.0084	< 0.0084	NR
CSA-B6	10	9/9/2011	< 0.0098	< 0.0098	< 0.0098	< 0.2	0.038	< 0.0098	< 0.0098	< 0.0098	< 0.02	< 0.0098	< 0.0098	< 0.0098	< 0.0098	< 0.0098	NR
CSA-B6	15	9/9/2011	< 0.008	< 0.008	< 0.008	< 0.16	< 0.008	< 0.008	< 0.008	< 0.008	< 0.016	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008	NR
CSA-B7	0-2	9/9/2011	< 0.0084	< 0.0084	< 0.0084	0.19	< 0.0084	< 0.0084	< 0.0084	< 0.0084	< 0.017	< 0.0084	< 0.0084	< 0.0084	< 0.0084	< 0.0084	NR
CSA-B7	14	9/9/2011	< 0.0081	< 0.0081	< 0.0081	< 0.16	< 0.0081	< 0.0081	< 0.0081	< 0.0081	< 0.016	< 0.0081	< 0.0081	< 0.0081	< 0.0081	< 0.0081	NR
CSA-B8	0-2	9/9/2011	< 0.01	< 0.01	< 0.01	< 0.2	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.11	< 0.01	< 0.01	NR
CSA-B8	5	9/9/2011	< 0.0071	< 0.0071	< 0.0071	0.16	< 0.0071	< 0.0071	< 0.0071	< 0.0071	< 0.014	< 0.0071	< 0.0071	0.16	< 0.0071	< 0.0071	NR
CSA-B8	10	9/9/2011	< 0.0072	< 0.0072	< 0.0072	< 0.14	< 0.0072	< 0.0072	< 0.0072	< 0.0072	< 0.014	< 0.0072	< 0.0072	< 0.0072	< 0.0072	< 0.0072	NR

Notes

mg/Kg - milligrams per kilogram
< - less than reporting limit
-- no data

TABLE E2. HISTORICAL SOIL DATA

Sample Location	Sample Depth feet	Date	1,1,1-Trichloroethane mg/Kg	1,1-Dichloroethane mg/Kg	1,1-Dichloroethene mg/Kg	Acetone mg/Kg	cis-1,2-Dichloroethene mg/Kg	Cyclohexane mg/Kg	Ethylbenzene mg/Kg	Isopropylbenzene mg/Kg	m,p-Xylene mg/Kg	Methylene chloride mg/Kg	o-Xylene mg/Kg	Tetrachloroethene mg/Kg	Toluene mg/Kg	Trichloroethene mg/Kg	Xylenes, Total mg/Kg
S-1	1	8/4/2012	< 1.9	< 1.9	< 1.9	79	< 1.9	< 1.9	13	< 1.9	60	< 7.5	22	190	66	7.6	82
S-1	6	8/4/2012	< 0.59	< 0.59	< 0.59	< 12	< 0.59	< 0.59	1.5	< 0.59	9.3	< 2.4	8.7	160	6.1	1.3	18
S-1	11	8/4/2012	< 2.7	< 2.7	< 2.7	< 54	< 2.7	< 2.7	3	3.2	12	< 11	5.9	110	9.3	< 2.7	18
S-1	17	8/4/2012	< 0.0046	< 0.0046	< 0.0046	0.42	< 0.0046	< 0.0046	0.0056	< 0.0046	0.027	< 0.018	0.014	0.13	0.023	0.0051	40
S-1	21	8/4/2012	< 2.4	< 2.4	< 2.4	< 49	< 2.4	< 2.4	3.7	< 2.4	15	< 9.8	5.4	68	21	2.6	21
S-2	3	8/4/2012	0.26	0.029	< 0.0049	16	0.37	0.081	0.044	< 0.0049	1.4	0.042	0.54	2.4	0.4	1	1.9
S-2	7	8/4/2012	< 0.0043	< 0.0043	< 0.0043	< 0.086	< 0.0043	< 0.0043	< 0.0043	< 0.0043	< 0.0043	< 0.017	< 0.0043	< 0.0043	< 0.0043	< 0.0043	< 0.0043
S-2	11	8/4/2012	0.0067	< 0.0048	< 0.0048	< 0.096	0.019	< 0.0048	< 0.0048	< 0.0048	< 0.0048	< 0.019	< 0.0048	0.011	< 0.0048	0.025	< 0.0048
S-2	19	8/4/2012	0.02	< 0.005	< 0.005	< 0.099	0.037	< 0.005	< 0.005	< 0.005	0.0054	< 0.02	< 0.005	0.038	0.0064	0.057	0.0084
S-3	4	8/4/2012	< 2.2	< 2.2	< 2.2	1600	< 2.2	17	86	3.4	260	< 9	50	310	79	180	310
S-3	7	8/4/2012	< 2.3	< 2.3	< 2.3	940	< 2.3	< 2.3	49	3	150	< 9.3	27	370	76	190	180
S-4	4	8/4/2012	32	< 2.5	< 2.5	970	< 2.5	< 2.5	< 2.5	< 2.5	6.5	24	2.6	40	9.3	54	9.1
S-4	6	8/4/2012	180	< 1.7	3.7	150	< 1.7	< 1.7	18	2.2	69	< 6.9	18	270	71	230	87
S-5	4	9/28/2012	< 0.0065	< 0.0065	< 0.0065	0.15	< 0.0065	< 0.0065	< 0.0065	< 0.0065	< 0.0065	< 0.0065	< 0.0065	< 0.0065	< 0.0065	< 0.0065	< 0.0065
S-5	7.5	9/28/2012	< 0.0053	< 0.0053	< 0.0053	< 0.11	< 0.0053	< 0.0053	< 0.0053	< 0.0053	< 0.0053	< 0.0053	< 0.0053	< 0.0053	< 0.0053	< 0.0053	< 0.0053
S-5	12.5	9/28/2012	< 0.0072	< 0.0072	< 0.0072	< 0.14	< 0.0072	< 0.0072	< 0.0072	< 0.0072	< 0.0072	< 0.0072	< 0.0072	< 0.0072	< 0.0072	< 0.0072	< 0.0072
S-5	17.5	9/28/2012	< 0.0057	< 0.0057	< 0.0057	< 0.11	< 0.0057	< 0.0057	< 0.0057	< 0.0057	< 0.0057	< 0.0057	< 0.0057	< 0.0057	< 0.0057	< 0.0057	< 0.0057
S-6	4	9/28/2012	< 0.006	< 0.006	< 0.006	< 0.12	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006
S-6	7.5	9/28/2012	< 0.005	< 0.005	< 0.005	< 0.1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
S-6	12.5	9/28/2012	< 0.0063	< 0.0063	< 0.0063	< 0.13	< 0.0063	< 0.0063	< 0.0063	< 0.0063	< 0.0063	< 0.0063	< 0.0063	< 0.0063	< 0.0063	< 0.0063	< 0.0063
S-6	17.5	9/28/2012	< 0.0069	< 0.0069	< 0.0069	< 0.14	< 0.0069	< 0.0069	< 0.0069	< 0.0069	< 0.0069	< 0.0069	< 0.0069	< 0.0069	< 0.0069	< 0.0069	< 0.0069
S-7	2	8/4/2012	0.078	< 0.0038	< 0.0038	0.083	0.017	< 0.0038	< 0.0038	< 0.0038	< 0.0038	< 0.023	< 0.0038	0.21	< 0.0038	0.27	< 0.0069
S-7	8	8/4/2012	0.025	< 0.0039	< 0.0039	< 0.077	0.0072	< 0.0039	0.01	< 0.0039	0.026	< 0.015	0.023	2.3	0.059	0.14	0.049
S-7	13	8/4/2012	< 0.19	< 0.19	< 0.19	< 3.7	< 0.19	< 0.19	0.32	< 0.19	0.9	< 0.75	0.47	4.7	0.27	< 0.19	1.4
S-8	3	8/4/2012	< 0.006	< 0.006	< 0.006	< 0.12	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.024	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006
S-9	2	8/4/2012	< 1.5	< 1.5	< 1.5	< 30	5.4	< 1.5	1.9	< 1.5	9.8	< 6	7.4	53	< 1.5	3.1	17
S-10	2	8/4/2012	0.0064	0.019	< 0.0032	< 0.063	0.065	< 0.0032	< 0.0032	< 0.0032	0.0064	< 0.013	0.006	0.0061	< 0.0032	0.0091	0.012

Notes

mg/Kg - milligrams per kilogram

< - less than reporting limit

-- no data

TABLE E2. HISTORICAL SOIL DATA

Sample Location	Sample Depth feet	Date	1,1,1-Trichloroethane mg/Kg	1,1-Dichloroethane mg/Kg	1,1-Dichloroethene mg/Kg	Acetone mg/Kg	cis-1,2-Dichloroethene mg/Kg	Cyclohexane mg/Kg	Ethylbenzene mg/Kg	Isopropylbenzene mg/Kg	m,p-Xylene mg/Kg	Methylene chloride mg/Kg	o-Xylene mg/Kg	Tetrachloroethene mg/Kg	Toluene mg/Kg	Trichloroethene mg/Kg	Xylenes, Total mg/Kg
S-11	2	8/4/2012	< 0.0032	< 0.0032	< 0.0032	< 0.064	< 0.0032	< 0.0032	< 0.0032	< 0.0032	< 0.0032	< 0.013	< 0.0032	< 0.0032	< 0.0032	< 0.0032	< 0.0032
S-11	7	8/4/2012	< 0.0034	< 0.0034	< 0.0034	< 0.068	< 0.0034	< 0.0034	< 0.0034	< 0.0034	< 0.0034	< 0.014	< 0.0034	< 0.0034	< 0.0034	< 0.0034	< 0.0034
S-11	12	8/4/2012	< 0.0031	< 0.0031	< 0.0031	< 0.062	< 0.0031	< 0.0031	< 0.0031	< 0.0031	< 0.0031	< 0.012	< 0.0031	< 0.0031	< 0.0031	< 0.0031	< 0.0031
S-11	17	8/4/2012	< 0.0034	0.0061	< 0.0034	< 0.067	0.005	< 0.0034	< 0.0034	< 0.0034	< 0.0034	< 0.013	< 0.0034	< 0.0034	< 0.0034	< 0.0034	< 0.0034
S-11	22	8/4/2012	< 0.0033	< 0.0033	< 0.0033	< 0.067	< 0.0033	< 0.0033	< 0.0033	< 0.0033	< 0.0033	< 0.013	< 0.0033	< 0.0033	< 0.0033	< 0.0033	< 0.0033
S-12	3	10/2/2012	< 0.0051	< 0.0051	< 0.0051	< 0.1	< 0.0051	< 0.0051	< 0.0051	< 0.0051	< 0.0051	< 0.0051	< 0.0051	< 0.0051	< 0.0051	< 0.0051	< 0.0051
S-12	6	10/2/2012	< 0.0032	< 0.0032	< 0.0032	< 0.064	< 0.0032	< 0.0032	< 0.0032	< 0.0032	< 0.0032	< 0.0032	< 0.0032	< 0.0032	< 0.0032	< 0.0032	< 0.0032
S-13	4	8/4/2012	< 0.0037	< 0.0037	< 0.0037	< 0.074	< 0.0037	< 0.0037	< 0.0037	< 0.0037	< 0.0037	< 0.015	< 0.0037	< 0.0037	< 0.0037	< 0.0037	< 0.0037
S-14	3	10/2/2012	< 0.0033	< 0.0033	< 0.0033	< 0.066	< 0.0033	< 0.0033	< 0.0033	< 0.0033	< 0.0033	< 0.0033	< 0.0033	< 0.0033	< 0.0033	< 0.0033	< 0.0033
S-15	7.5	10/2/2012	< 0.0043	< 0.0043	< 0.0043	< 0.087	< 0.0043	< 0.0043	< 0.0043	< 0.0043	< 0.0043	< 0.0043	< 0.0043	< 0.0043	< 0.0043	< 0.0043	< 0.0043
S-15	12.5	10/2/2012	< 0.0041	< 0.0041	< 0.0041	< 0.083	< 0.0041	< 0.0041	< 0.0041	< 0.0041	< 0.0041	< 0.0041	< 0.0041	< 0.0041	< 0.0041	< 0.0041	< 0.0041
S-15	17.5	10/2/2012	< 0.0054	< 0.0054	< 0.0054	< 0.11	< 0.0054	< 0.0054	< 0.0054	< 0.0054	< 0.0054	< 0.0054	< 0.0054	< 0.0054	< 0.0054	< 0.0054	< 0.0054
S-15	22.5	10/2/2012	< 0.0053	< 0.0053	< 0.0053	< 0.11	< 0.0053	< 0.0053	< 0.0053	< 0.0053	< 0.0053	< 0.0053	< 0.0053	< 0.0053	< 0.0053	< 0.0053	< 0.0053
S-16	3	10/2/2012	< 0.0045	< 0.0045	< 0.0045	< 0.089	< 0.0045	< 0.0045	< 0.0045	< 0.0045	< 0.0045	< 0.0045	< 0.0045	< 0.0045	< 0.0045	< 0.0045	< 0.0045
S-16	7.5	10/2/2012	< 0.0046	< 0.0046	< 0.0046	< 0.092	0.056	< 0.0046	< 0.0046	< 0.0046	< 0.0046	< 0.0046	0.0058	0.015	< 0.0046	0.046	0.0058
S-16	17.5	10/2/2012	< 0.005	< 0.005	< 0.005	< 0.1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
S-16	22.5	10/2/2012	< 0.0055	< 0.0055	< 0.0055	< 0.11	0.0072	< 0.0055	< 0.0055	< 0.0055	< 0.0055	< 0.0055	< 0.0055	< 0.0055	< 0.0055	< 0.0055	< 0.0055
S-17	4	9/28/2012	< 0.005	< 0.005	< 0.005	< 0.1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
S-17	7.5	9/28/2012	< 0.0057	< 0.0057	< 0.0057	< 0.11	< 0.0057	< 0.0057	< 0.0057	< 0.0057	< 0.0057	< 0.0057	< 0.0057	< 0.0057	< 0.0057	< 0.0057	< 0.0057
S-17	12.5	9/28/2012	< 0.0061	< 0.0061	< 0.0061	< 0.12	< 0.0061	< 0.0061	< 0.0061	< 0.0061	< 0.0061	< 0.0061	< 0.0061	< 0.0061	< 0.0061	< 0.0061	< 0.0061
S-17	17.5	9/28/2012	< 0.0049	< 0.0049	< 0.0049	< 0.099	0.0068	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049
S-18	2	9/28/2012	< 0.0024	< 0.0024	< 0.0024	< 0.048	< 0.0024	< 0.0024	0.0035	< 0.0024	0.066	< 0.0024	0.0044	< 0.0024	< 0.0024	< 0.0024	0.0704
S-18	7.5	9/28/2012	< 0.0068	< 0.0068	< 0.0068	< 0.14	< 0.0068	< 0.0068	< 0.0068	< 0.0068	< 0.0068	< 0.0068	< 0.0068	< 0.0068	< 0.0068	< 0.0068	< 0.0068
S-18	12.5	9/28/2012	< 0.0052	< 0.0052	< 0.0052	< 0.1	< 0.0052	< 0.0052	< 0.0052	< 0.0052	< 0.0052	< 0.0052	< 0.0052	< 0.0052	< 0.0052	< 0.0052	< 0.0052
S-18	17.5	9/28/2012	< 0.0059	< 0.0059	< 0.0059	< 0.12	< 0.0059	< 0.0059	< 0.0059	< 0.0059	< 0.0059	< 0.0059	< 0.0059	< 0.0059	< 0.0059	< 0.0059	< 0.0059
S-19	3	9/28/2012	< 0.0048	< 0.0048	< 0.0048	< 0.096	0.022	< 0.0048	< 0.0048	< 0.0048	< 0.0048	< 0.0048	< 0.0048	< 0.0048	< 0.0048	0.0069	< 0.0048
S-19	7.5	9/28/2012	< 0.0055	< 0.0055	< 0.0055	< 0.11	< 0.0055	< 0.0055	< 0.0055	< 0.0055	< 0.0055	< 0.0055	< 0.0055	< 0.0055	< 0.0055	< 0.0055	< 0.0055
S-19	12.5	9/28/2012	< 0.0056	< 0.0056	< 0.0056	< 0.11	< 0.0056	< 0.0056	< 0.0056	< 0.0056	< 0.0056	< 0.0056	< 0.0056	< 0.0056	< 0.0056	< 0.0056	< 0.0056
S-19	16	9/28/2012	< 0.0055	< 0.0055	< 0.0055	< 0.11	< 0.0055	< 0.0055	< 0.0055	< 0.0055	< 0.0055	< 0.0055	< 0.0055	< 0.0055	< 0.0055	< 0.0055	< 0.0055

Notes

mg/Kg - milligrams per kilogram

< - less than reporting limit

-- no data

TABLE E2. HISTORICAL SOIL DATA

Sample Location	Sample Depth feet	Date	1,1,1-Trichloroethane mg/Kg	1,1-Dichloroethane mg/Kg	1,1-Dichloroethene mg/Kg	Acetone mg/Kg	cis-1,2-Dichloroethene mg/Kg	Cyclohexane mg/Kg	Ethylbenzene mg/Kg	Isopropylbenzene mg/Kg	m,p-Xylene mg/Kg	Methylene chloride mg/Kg	o-Xylene mg/Kg	Tetrachloroethene mg/Kg	Toluene mg/Kg	Trichloroethene mg/Kg	Xylenes, Total mg/Kg
S-20	4	9/28/2012	< 0.0043	< 0.0043	< 0.0043	0.15	< 0.0043	< 0.0043	< 0.0043	< 0.0043	< 0.0043	< 0.0043	< 0.0043	0.013	< 0.0043	< 0.0043	< 0.0043
S-20	7.5	9/28/2012	< 0.0059	< 0.0059	< 0.0059	< 0.12	< 0.0059	< 0.0059	< 0.0059	< 0.0059	< 0.0059	< 0.0059	< 0.0059	< 0.0059	< 0.0059	< 0.0059	< 0.0059
S-20	12.5	9/28/2012	< 0.0057	< 0.0057	< 0.0057	< 0.11	< 0.0057	< 0.0057	< 0.0057	< 0.0057	< 0.0057	< 0.0057	< 0.0057	< 0.0057	< 0.0057	< 0.0057	< 0.0057
S-20	16	9/28/2012	< 0.0048	< 0.0048	< 0.0048	< 0.095	< 0.0048	< 0.0048	< 0.0048	< 0.0048	< 0.0048	< 0.0048	< 0.0048	< 0.0048	< 0.0048	< 0.0048	< 0.0048
S-21	6	9/28/2012	< 0.0049	< 0.0049	< 0.0049	< 0.098	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049	0.074	< 0.0049	0.005	< 0.0049
S-21	8	9/28/2012	< 0.006	< 0.006	< 0.006	< 0.12	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006
S-21	12.5	9/28/2012	< 0.0053	< 0.0053	< 0.0053	< 0.11	< 0.0053	< 0.0053	< 0.0053	< 0.0053	< 0.0053	< 0.0053	< 0.0053	< 0.0053	< 0.0053	< 0.0053	< 0.0053
S-21	17.5	9/28/2012	< 0.006	< 0.006	< 0.006	< 0.12	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006
S-22	5	9/28/2012	< 0.005	< 0.005	< 0.005	< 0.1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
S-22	12.5	9/28/2012	< 0.0066	< 0.0066	< 0.0066	< 0.13	0.018	< 0.0066	< 0.0066	< 0.0066	< 0.0066	< 0.0066	< 0.0066	< 0.0066	< 0.0066	0.0085	< 0.0066
S-22	7.5	9/28/2012	< 0.0056	< 0.0056	< 0.0056	< 0.11	< 0.0056	< 0.0056	< 0.0056	< 0.0056	< 0.0056	< 0.0056	< 0.0056	< 0.0056	< 0.0056	< 0.0056	< 0.0056
S-22	17.5	9/28/2012	< 0.0065	< 0.0065	< 0.0065	< 0.13	< 0.0065	< 0.0065	< 0.0065	< 0.0065	< 0.0065	< 0.0065	< 0.0065	< 0.0065	< 0.0065	< 0.0065	< 0.0065
S-23	3.5	10/2/2012	< 0.0041	< 0.0041	0.0087	< 0.083	0.011	< 0.0041	< 0.0041	< 0.0041	< 0.0041	< 0.0041	< 0.0041	< 0.0041	< 0.0041	< 0.0041	< 0.0041
S-23	12.5	10/2/2012	< 0.0061	< 0.0061	< 0.0061	< 0.12	< 0.0061	< 0.0061	< 0.0061	< 0.0061	< 0.0061	< 0.0061	< 0.0061	< 0.0061	< 0.0061	< 0.0061	< 0.0061
S-23	7.5	10/2/2012	< 0.0041	< 0.0041	0.011	< 0.082	0.02	< 0.0041	< 0.0041	< 0.0041	< 0.0041	< 0.0041	< 0.0041	< 0.0041	< 0.0041	< 0.0041	< 0.0061
S-23	17	10/2/2012	< 0.0044	< 0.0044	< 0.0044	< 0.088	< 0.0044	< 0.0044	< 0.0044	< 0.0044	< 0.0044	< 0.0044	< 0.0044	< 0.0044	< 0.0044	< 0.0044	< 0.0044
S-24	3	10/2/2012	< 0.0046	< 0.0046	< 0.0046	< 0.092	< 0.0046	< 0.0046	< 0.0046	< 0.0046	< 0.0046	< 0.0046	< 0.0046	< 0.0046	< 0.0046	< 0.0046	< 0.0046
S-25	2	10/2/2012	< 0.0042	< 0.0042	< 0.0042	< 0.085	< 0.0042	< 0.0042	< 0.0042	< 0.0042	< 0.0042	< 0.0042	< 0.0042	< 0.0042	< 0.0042	< 0.0042	< 0.0042
S-26	3	10/2/2012	< 0.0053	< 0.0053	< 0.0053	< 0.11	< 0.0053	< 0.0053	< 0.0053	< 0.0053	< 0.0053	< 0.0053	< 0.0053	< 0.0053	< 0.0053	< 0.0053	< 0.0053
S-27	3	10/2/2012	< 0.0049	< 0.0049	< 0.0049	< 0.097	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0097	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049
MW-12	2.5	10/3/2012	< 0.0054	< 0.0054	< 0.0054	< 0.11	< 0.0054	< 0.0054	< 0.0054	< 0.0054	< 0.0054	< 0.0054	< 0.0054	< 0.0054	< 0.0054	< 0.0054	< 0.0054
MW-12	12.5	10/3/2012	< 0.0052	< 0.0052	< 0.0052	< 0.1	< 0.0052	< 0.0052	< 0.0052	< 0.0052	< 0.0052	< 0.0052	< 0.0052	< 0.0052	< 0.0052	< 0.0052	< 0.0052
MW-12	17.5	10/3/2012	< 0.0055	< 0.0055	< 0.0055	< 0.11	< 0.0055	< 0.0055	< 0.0055	< 0.0055	< 0.0055	< 0.0055	< 0.0055	< 0.0055	< 0.0055	< 0.0055	< 0.0055
OBG-2	0-3.5	3/23/2013	0.32	< 0.53	< 0.53	32	< 0.53	< 1.1	0.28	< 0.53	NR	< 0.53	NR	8.2	2.1	7.1	1.5
OBG-5	3.5-7	3/24/2013	26	< 11	< 11	720	< 11	< 21	12	< 11	NR	< 11	NR	220	43	110	55
OBG-7	0-2	3/25/2013	4.3	< 11	< 11	1000	< 11	< 22	4	< 11	NR	< 11	NR	52	7.6	39	19
OBG-9	0-2	3/26/2013	23	< 260	< 260	1600	< 260	< 530	< 260	< 260	NR	120	NR	5500	290	4200	< 530
OBG-9	2-4	3/27/2013	510	< 100	< 100	610	< 100	< 210	< 100	< 100	NR	< 100	NR	2400	88	1100	< 210
OBG-12	0-2	10/25/2013	< 47	< 47	< 47	1000	< 47	< 93	45	< 47	NR	< 47	NR	1100	66	210	190
OBG-12	5	10/25/2013	< 64	< 64	< 64	3700	< 64	< 130	66	< 64	NR	< 64	NR	1700	90	310	300
OBG-13	0-3.5	10/25/2013	< 25	< 25	< 25	3200	< 25	9.8	46	< 25	NR	< 25	NR	270	76	140	180

Notes

mg/Kg - milligrams per kilogram
< - less than reporting limit
-- no data

TABLE E2. HISTORICAL SOIL DATA

Sample Location	Sample Depth feet	Date	1,1,1-Trichloroethane mg/Kg	1,1-Dichloroethane mg/Kg	1,1-Dichloroethene mg/Kg	Acetone mg/Kg	cis-1,2-Dichloroethene mg/Kg	Cyclohexane mg/Kg	Ethylbenzene mg/Kg	Isopropylbenzene mg/Kg	m,p-Xylene mg/Kg	Methylene chloride mg/Kg	o-Xylene mg/Kg	Tetrachloroethene mg/Kg	Toluene mg/Kg	Trichloroethene mg/Kg	Xylenes, Total mg/Kg
OBG-14	0-4	10/25/2013	< 0.19	< 0.19	< 0.19	< 1.9	< 0.19	3.2	0.42	0.076	NR	< 0.19	NR	< 0.19	< 0.19	< 0.19	2.1
OBG-14	5	10/25/2013	< 0.45	< 0.45	< 0.45	< 4.5	< 0.45	11	1.3	0.24	NR	< 0.45	NR	< 0.45	< 0.45	< 0.45	6.5
OBG-14	10	10/25/2013	< 0.005	< 0.005	< 0.005	0.033	< 0.005	< 0.0099	< 0.005	< 0.005	NR	< 0.005	NR	< 0.005	< 0.005	< 0.005	< 0.0099
OBG-14	15	10/25/2013	< 0.005	< 0.005	< 0.005	0.021	< 0.005	< 0.0099	< 0.005	< 0.005	NR	< 0.005	NR	< 0.005	< 0.005	< 0.005	< 0.0099
OBG-14	20	10/25/2013	< 0.0052	< 0.0052	< 0.0052	< 0.052	0.002	< 0.01	< 0.0052	< 0.0052	NR	< 0.0052	NR	< 0.0052	< 0.0052	< 0.0052	< 0.01
OBG-14	27	10/25/2013	< 0.21	< 0.21	< 0.21	< 2.1	0.086	< 0.42	< 0.21	< 0.21	NR	< 0.21	NR	0.37	< 0.21	0.083	< 0.42
OBG-14	30	10/25/2013	0.0029	0.0014	0.0017	0.032	0.048	< 0.0091	< 0.0046	< 0.0046	NR	< 0.0046	NR	0.022	< 0.0046	0.041	< 0.0091
MW-16	0-1	11/1/2014	0.0063	0.0057	< 0.0042	0.32	0.0068	< 0.0042	< 0.0042	< 0.0042	< 0.0042	< 0.017	< 0.0042	0.017	< 0.0042	0.0084	NR
SB-1	1-1.5	11/1/2014	1.1	0.67	0.31	< 3.9	< 0.2	< 0.2	0.26	0.26	0.98	< 0.79	0.43	25	0.6	1.9	NR
SB-1	2-2.5	11/1/2014	2.5	0.45	0.19	0.74	0.076	0.059	1.3	0.045	6.6	0.56	2.5	99	2	3.1	NR
SB-2	1.5-2	11/1/2014	< 0.004	< 0.004	< 0.004	0.14	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.016	< 0.004	0.049	< 0.004	< 0.004	NR
SB-2	3.5-4	11/1/2014	< 0.0049	< 0.0049	< 0.0049	0.14	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.019	< 0.0049	< 0.0049	< 0.0049	< 0.0049	NR
SB-3	1-1.5	11/1/2014	0.012	0.03	0.006	0.12	< 0.0044	< 0.0044	< 0.0044	< 0.0044	< 0.0044	< 0.017	< 0.0044	1.5	< 0.0044	< 0.0044	NR
SB-3	2-2.5	11/1/2014	< 0.0045	< 0.0045	< 0.0045	0.28	< 0.0045	< 0.0045	< 0.0045	< 0.0045	< 0.0045	< 0.018	< 0.0045	0.011	< 0.0045	< 0.0045	NR
SB-4	1.5-2	11/1/2014	< 0.0046	< 0.0046	< 0.0046	0.12	< 0.0046	< 0.0046	< 0.0046	< 0.0046	< 0.0046	< 0.019	< 0.0046	< 0.0046	< 0.0046	< 0.0046	NR
SB-4	3.5-4	11/1/2014	< 0.0054	< 0.0054	< 0.0054	0.22	< 0.0054	< 0.0054	< 0.0054	< 0.0054	< 0.0054	< 0.021	< 0.0054	< 0.0054	< 0.0054	< 0.0054	NR
SB-4	7-7.5	11/1/2014	< 0.005	< 0.005	< 0.005	0.14	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.005	< 0.005	< 0.005	< 0.005	NR
SB-4	14-14.5	11/1/2014	< 0.0053	< 0.0053	< 0.0053	0.23	< 0.0053	< 0.0053	< 0.0053	< 0.0053	< 0.0053	< 0.021	< 0.0053	< 0.0053	< 0.0053	< 0.0053	NR
SB-5	1-1.5	11/1/2014	< 0.0045	< 0.0045	< 0.0045	< 0.091	< 0.0045	< 0.0045	< 0.0045	< 0.0045	< 0.0045	< 0.018	< 0.0045	< 0.0045	< 0.0045	< 0.0045	NR
SB-5	7-7.5	11/1/2014	< 0.005	< 0.005	< 0.005	< 0.1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.005	< 0.005	< 0.005	< 0.005	NR
SB-5	14-14.5	11/1/2014	< 0.005	< 0.005	< 0.005	< 0.099	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	< 0.005	< 0.005	< 0.005	< 0.005	NR
SB-5	18-18.5	11/1/2014	< 0.0049	< 0.0049	< 0.0049	< 0.098	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.02	< 0.0049	< 0.0049	< 0.0049	< 0.0049	NR

Notes

mg/Kg - milligrams per kilogram
 < - less than reporting limit
 -- no data

Figure E1A. Apollo Plume Area Monitoring Wells - Tetrachloroethene

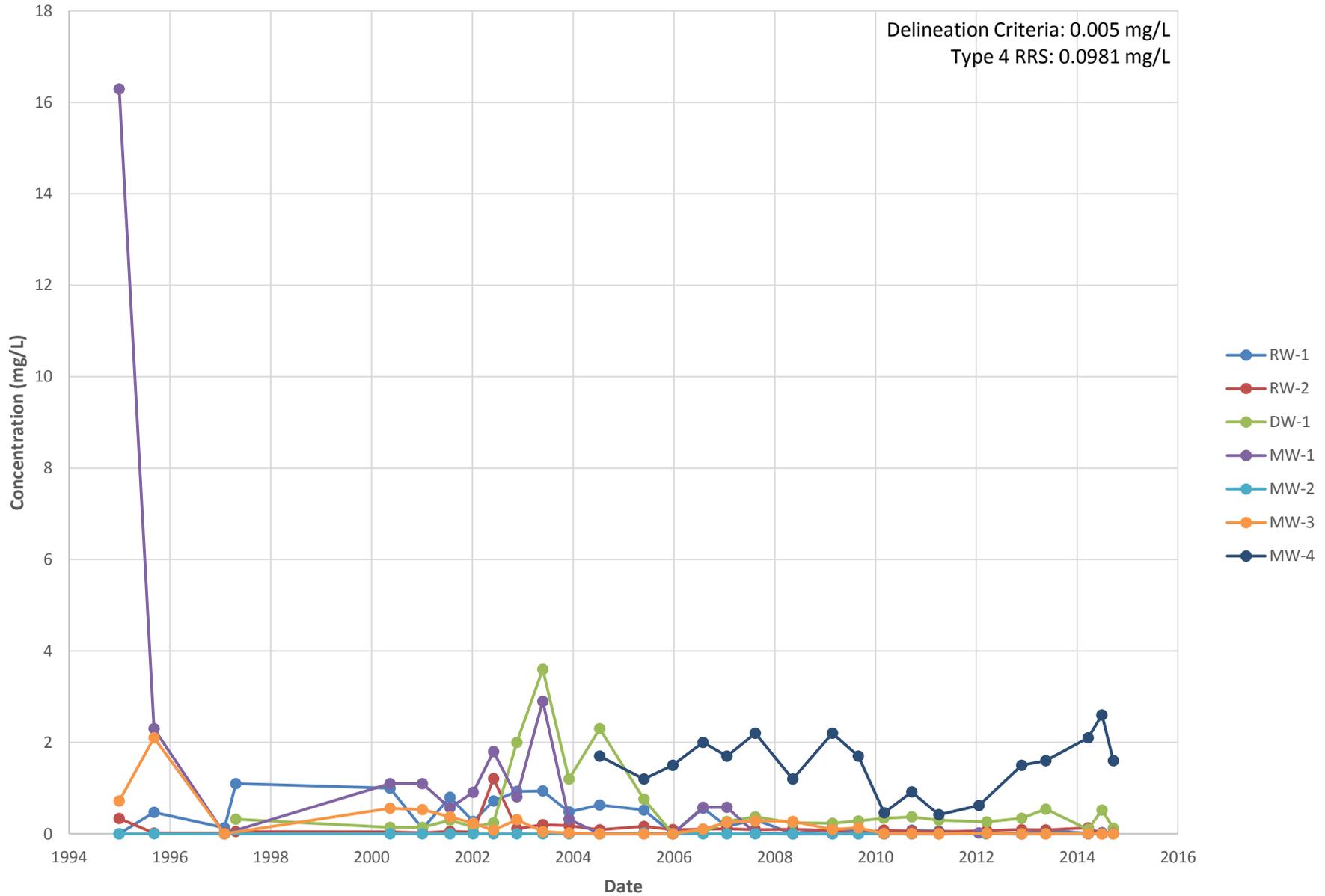


Figure E2A. Apollo Plume Area Monitoring Wells - Trichloroethene

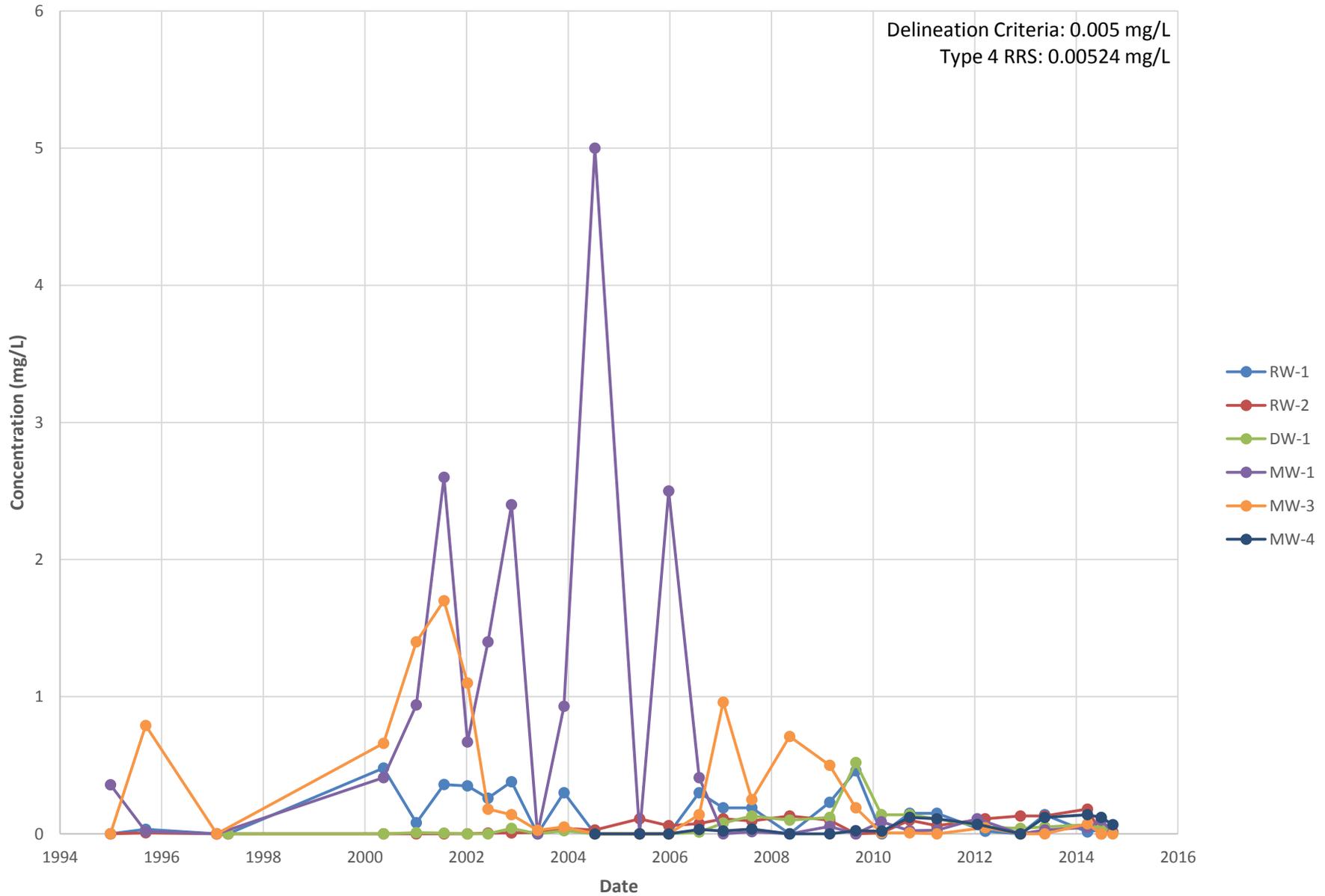


Figure E3A. Apollo Plume Area Monitoring Wells - 1,1-Dichloroethene

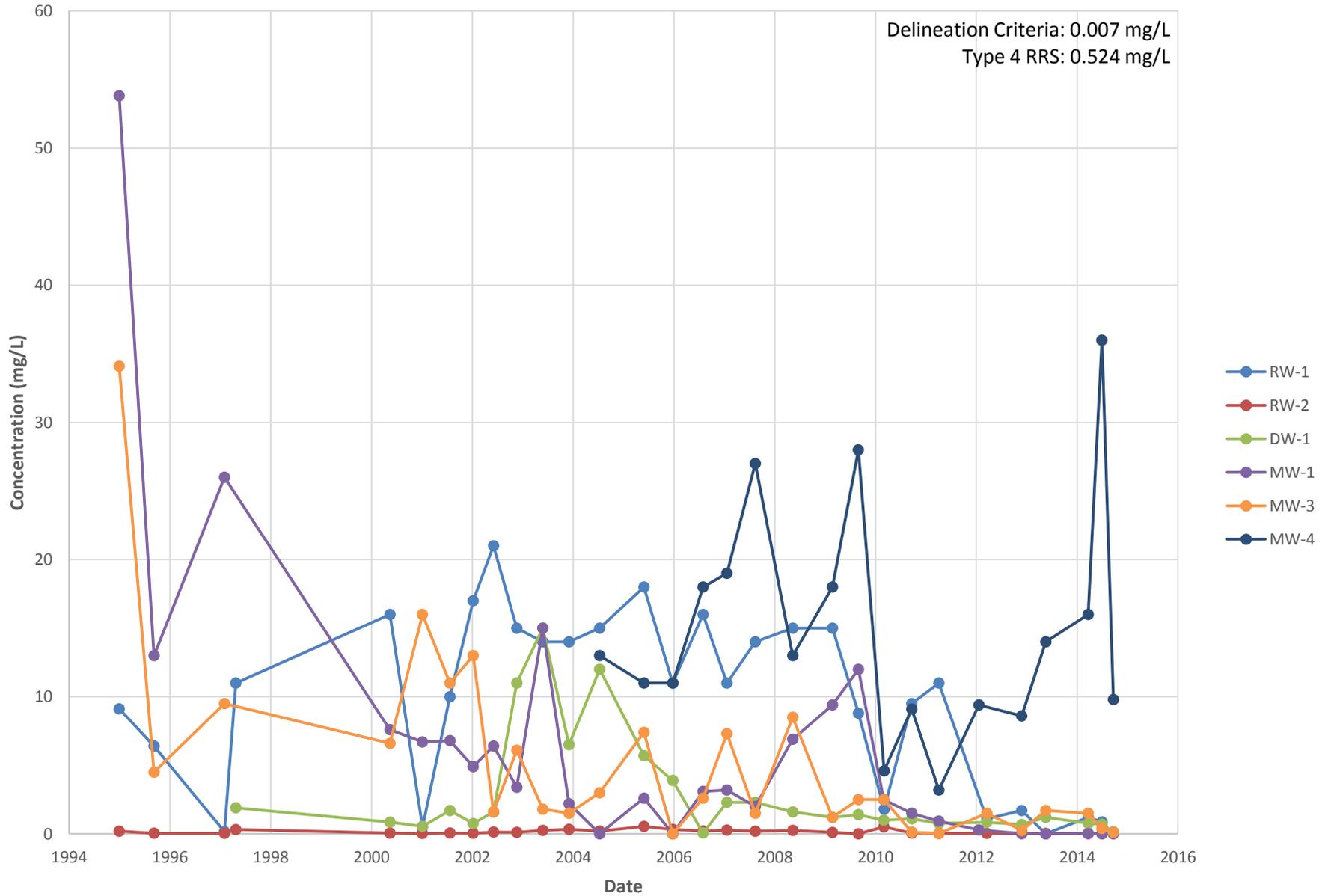


Figure E4A. Apollo Plume Area Monitoring Wells - cis-1,2-Dichloroethene

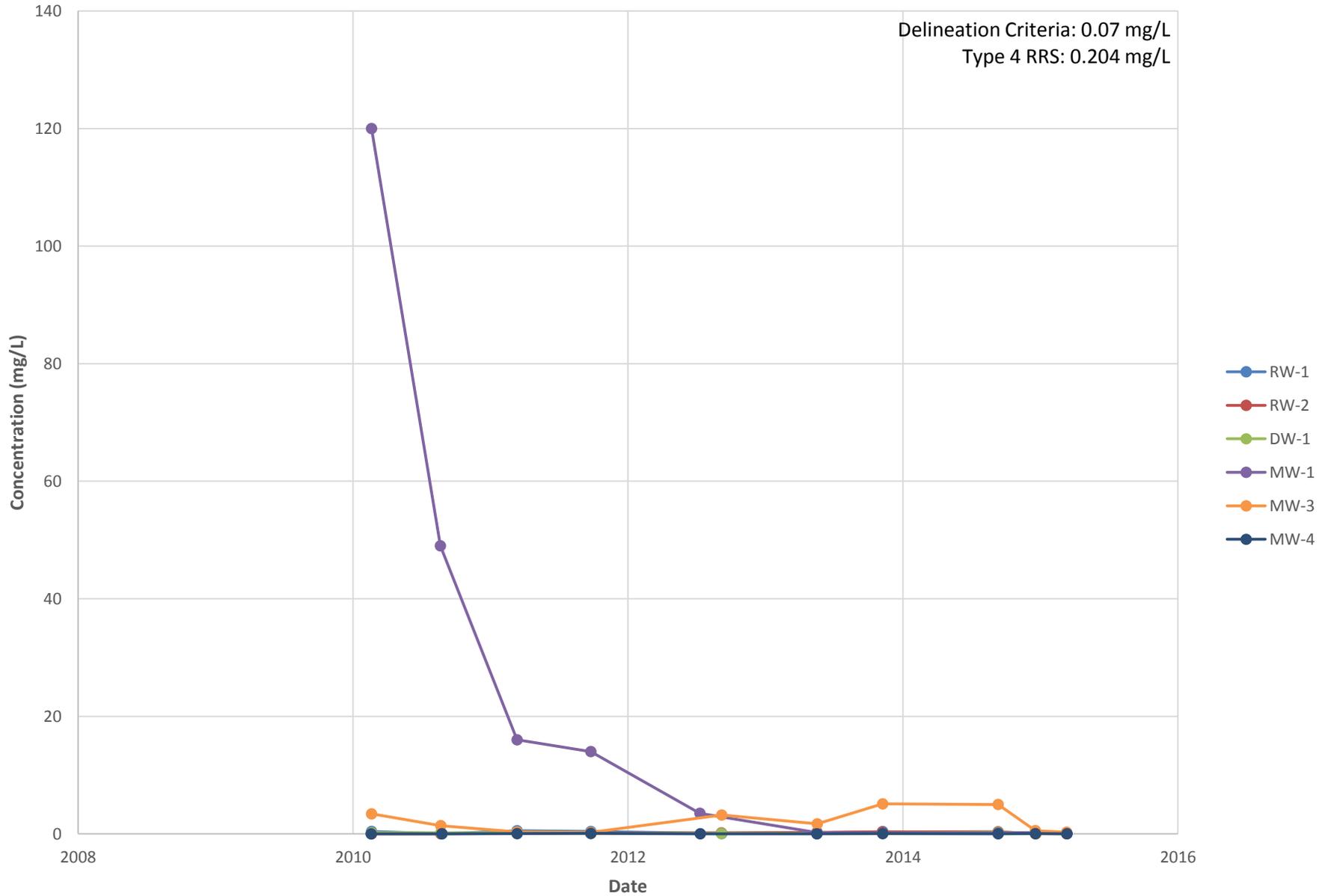


Figure E5A. Apollo Plume Area Monitoring Wells - Vinyl Chloride

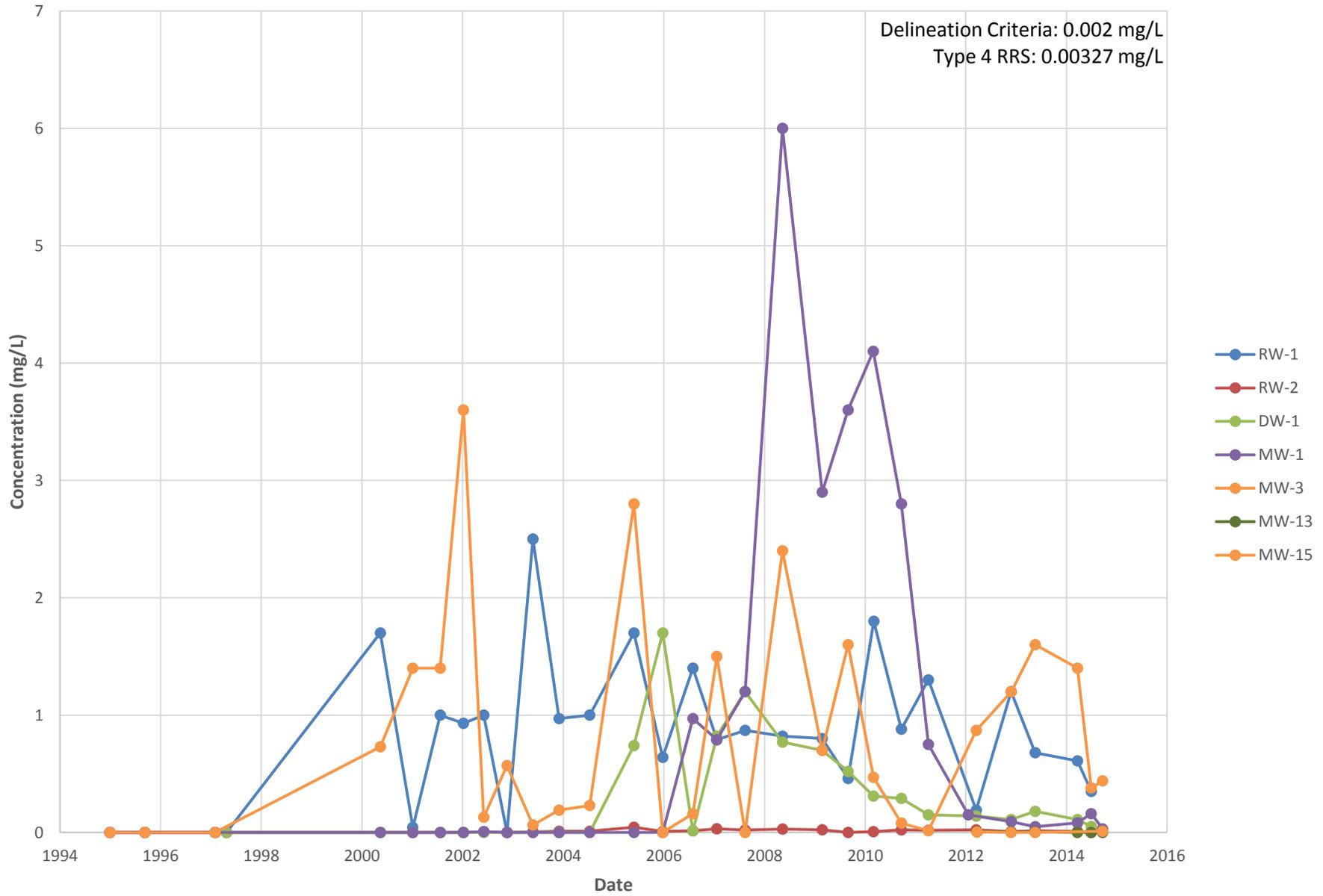


Figure E6A. Apollo Plume Area Monitoring Wells - 1,1,1-Trichloroethene

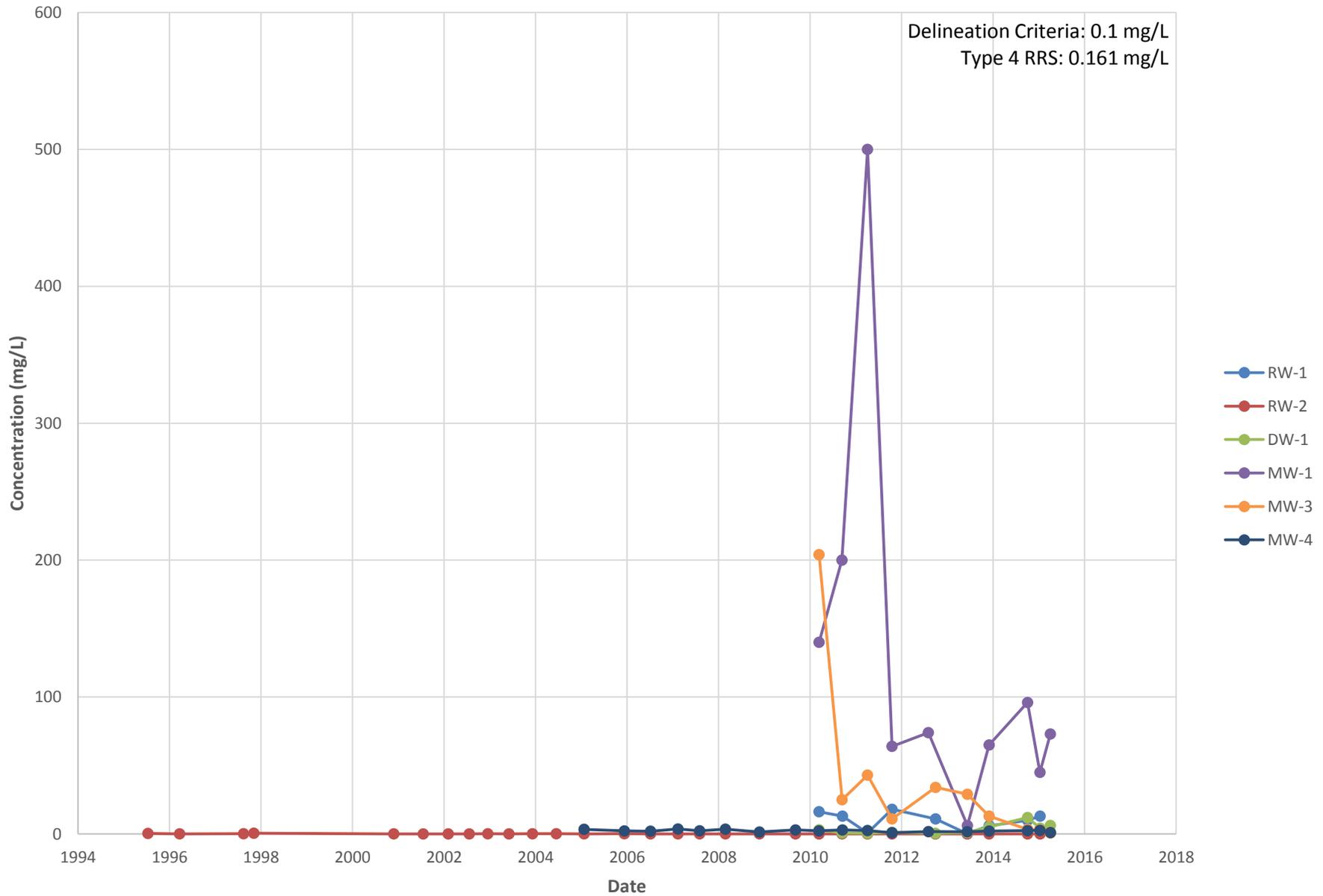


Figure E1B. Offsite/Upgradient Source Area Monitoring Wells - Tetrachloroethene

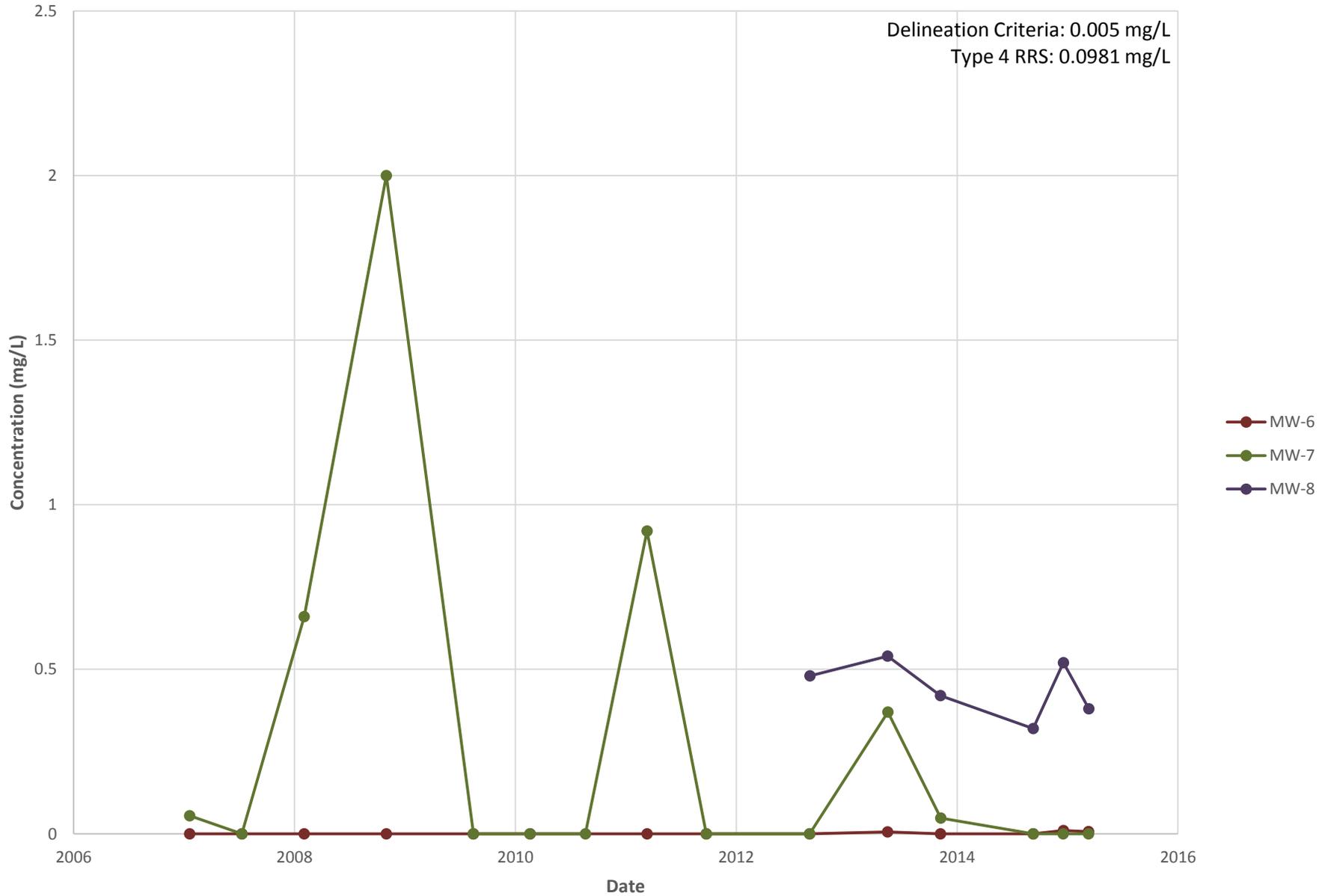


Figure E2B. Offsite/Upgradient Source Area Monitoring Wells - Trichloroethene

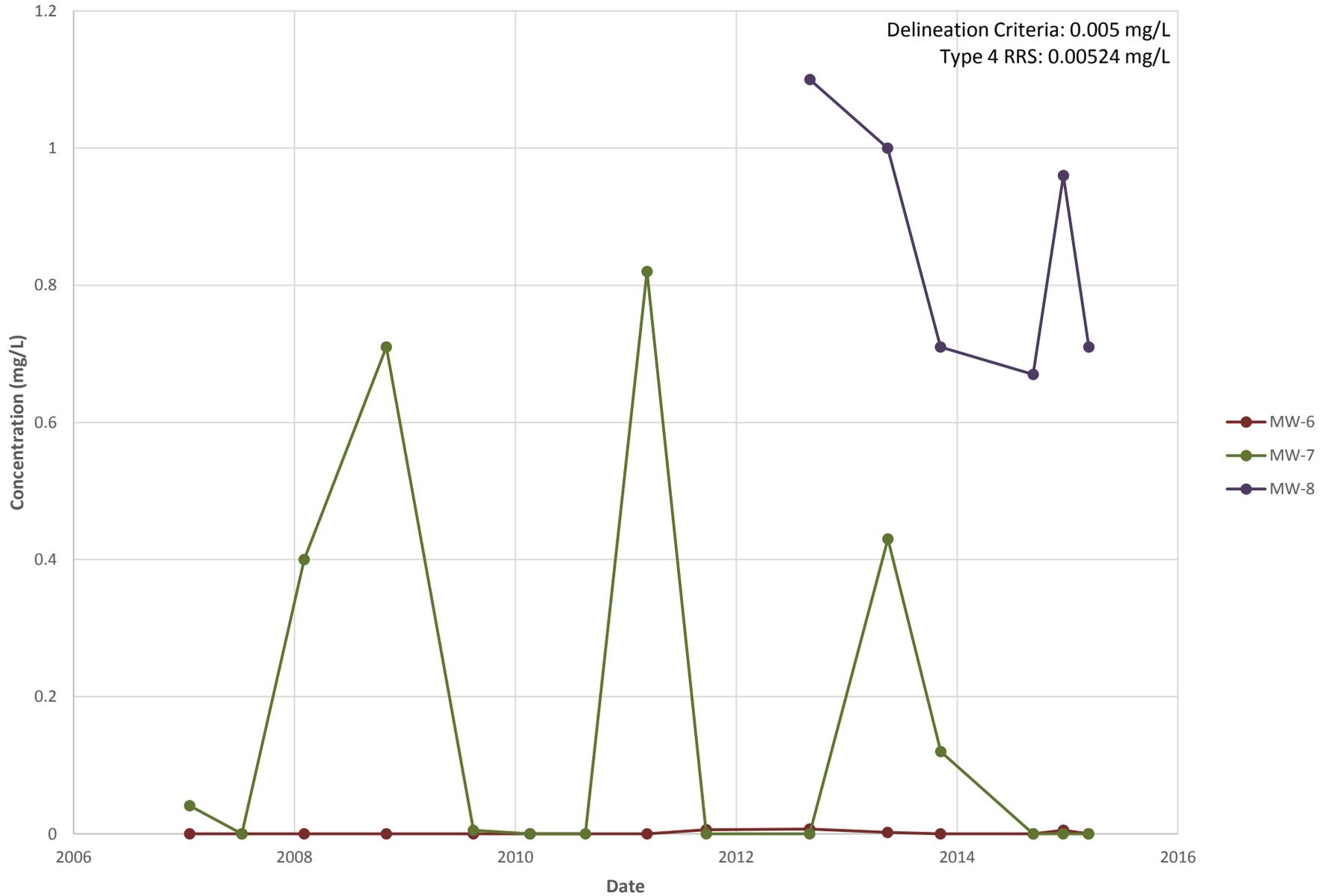


Figure E3B. Offsite/Upgradient Source Area Monitoring Wells - 1,1-Dichloroethene

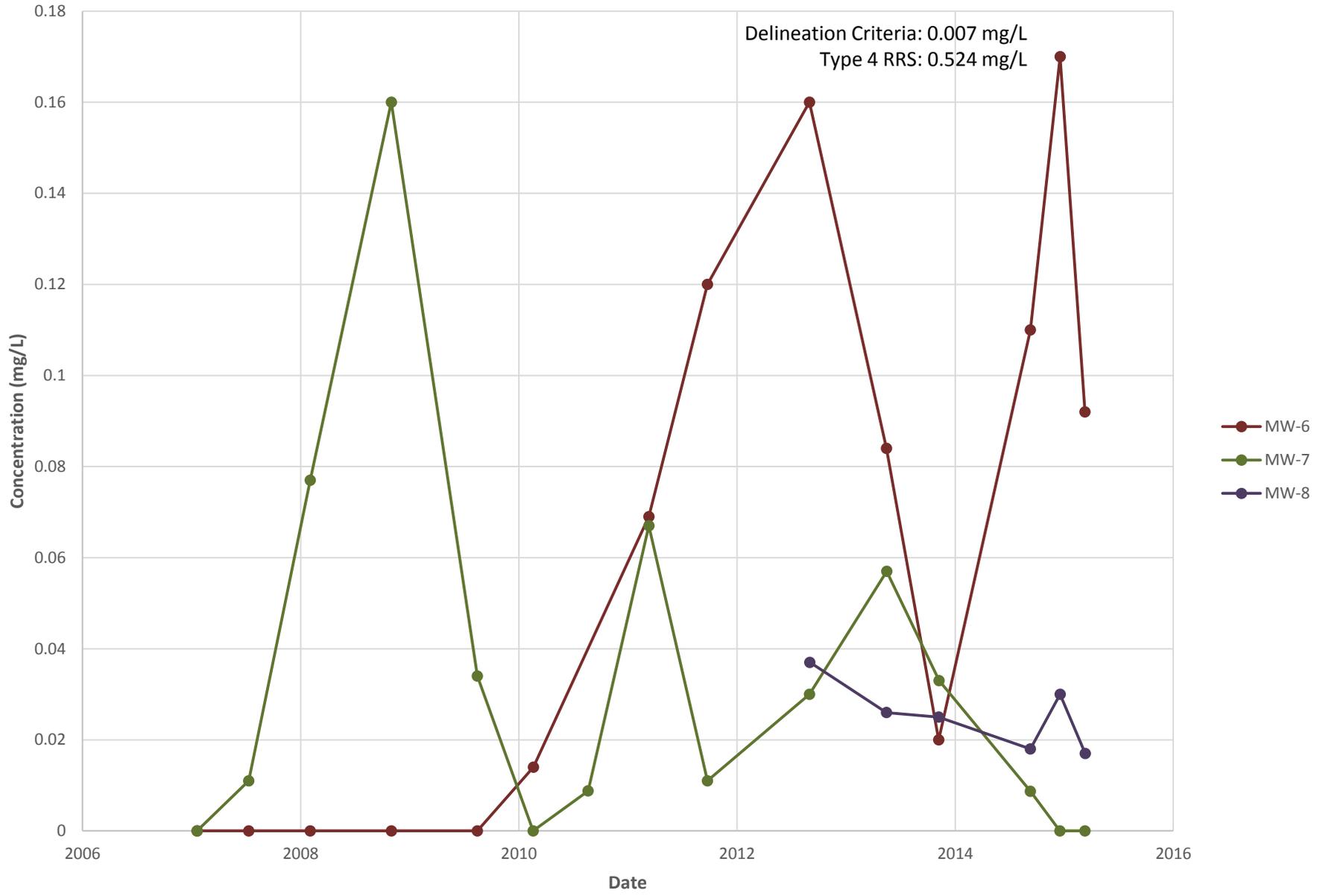


Figure E4B. Offsite/Upgradient Source Area Monitoring Wells - cis-1,2-Dichloroethene

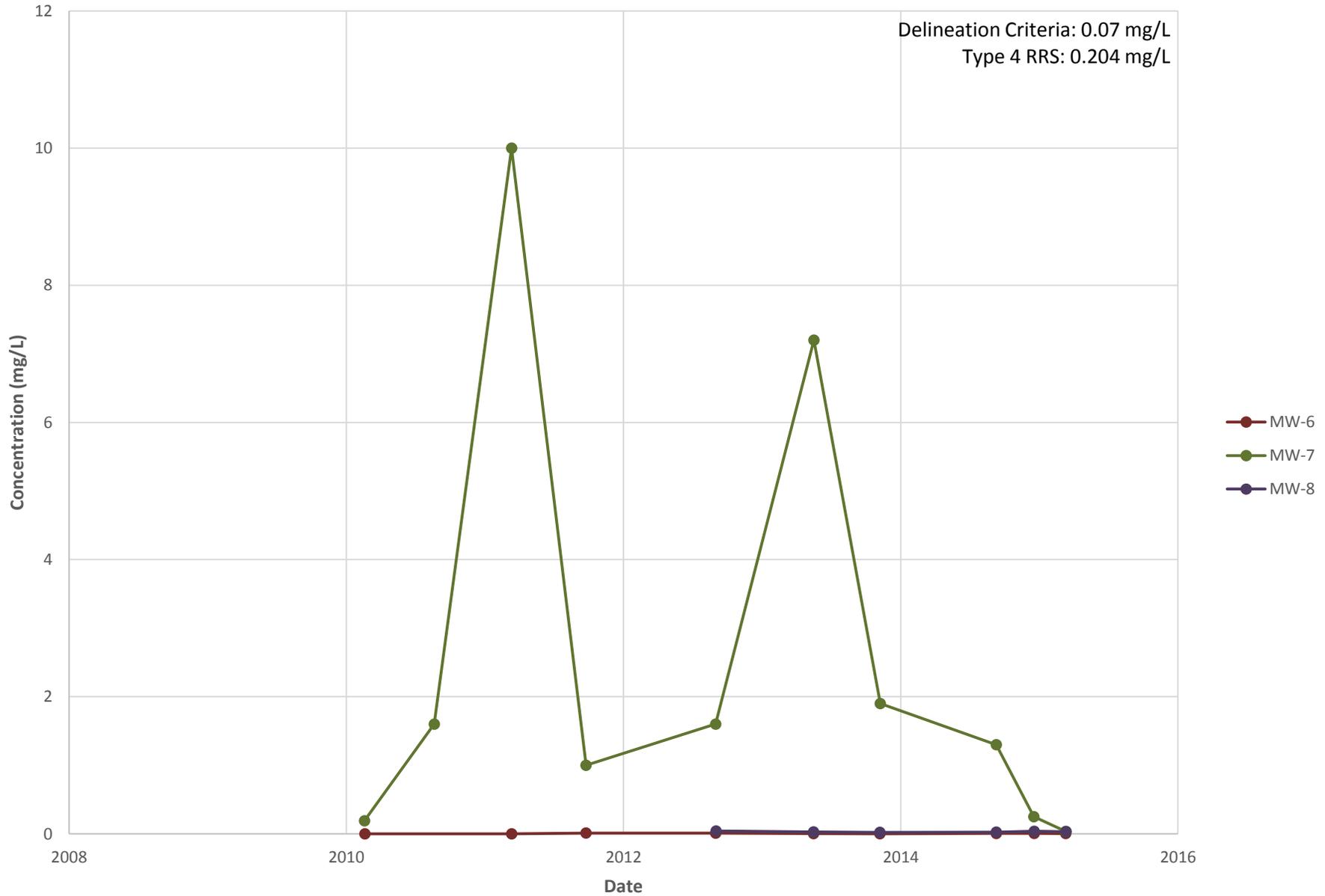


Figure E5B. Offsite/Upgradient Source Area Monitoring Wells - Vinyl Chloride

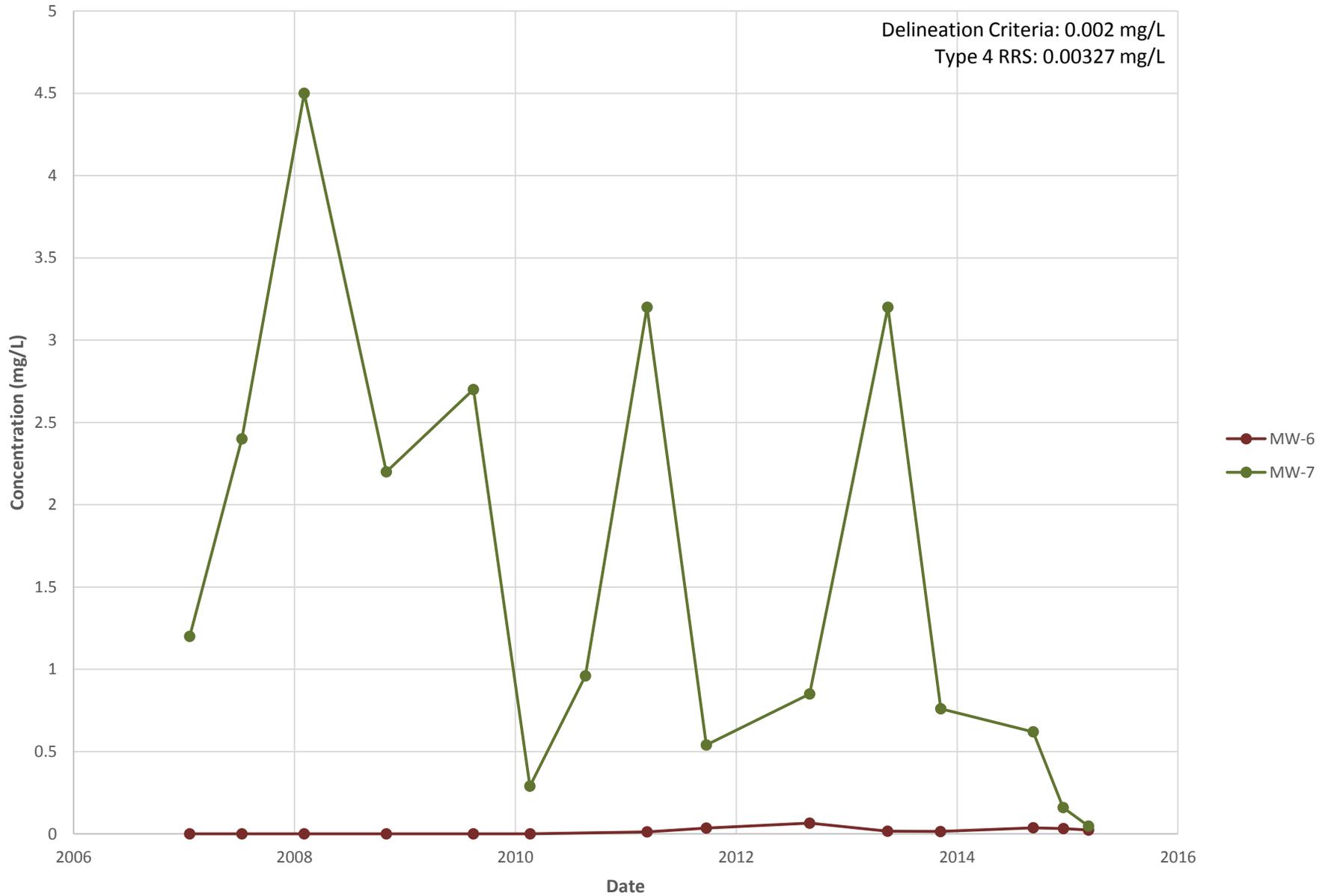


Figure E6B. Offsite/Upgradient Source Area Monitoring Wells - 1,1,1-Trichloroethene

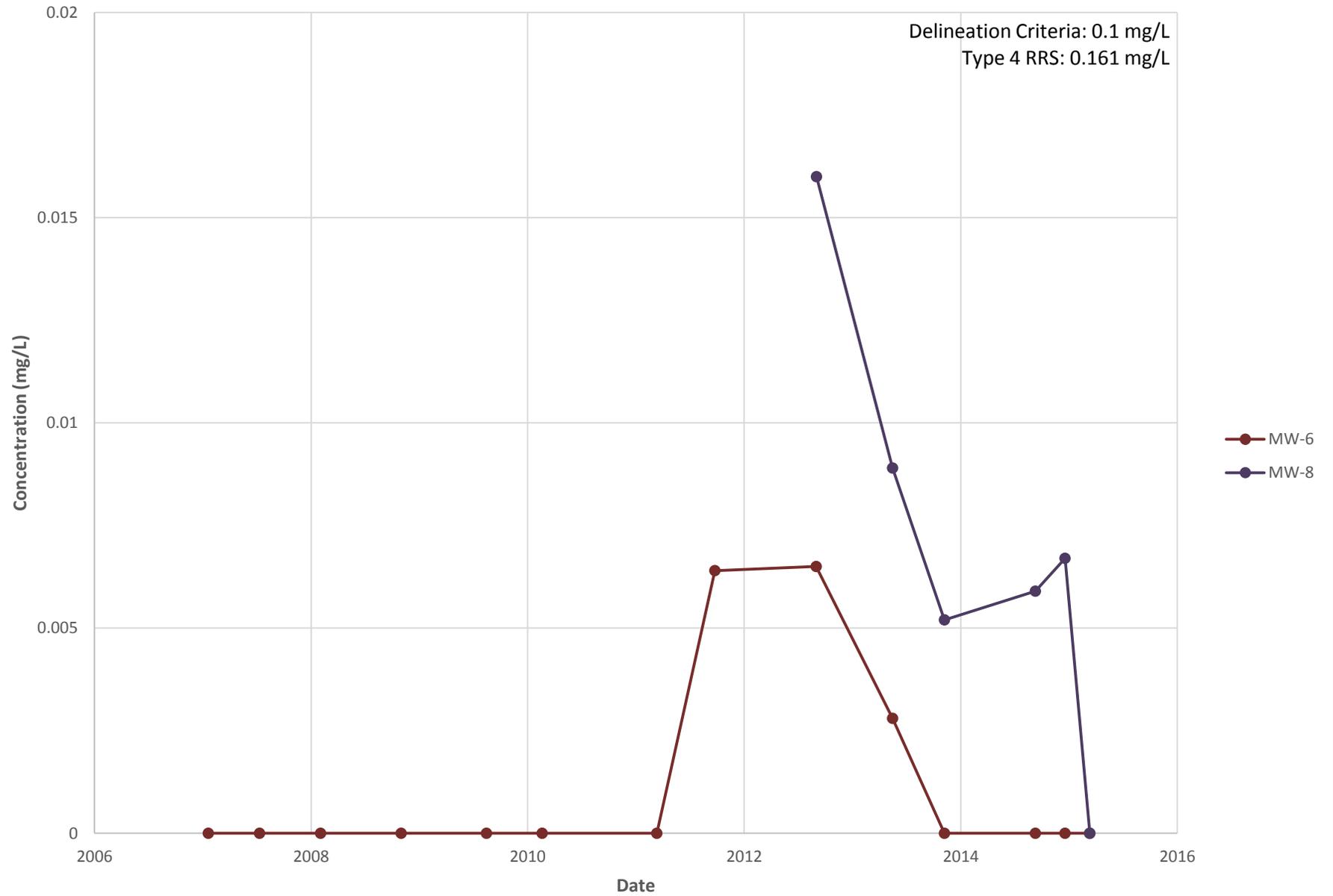
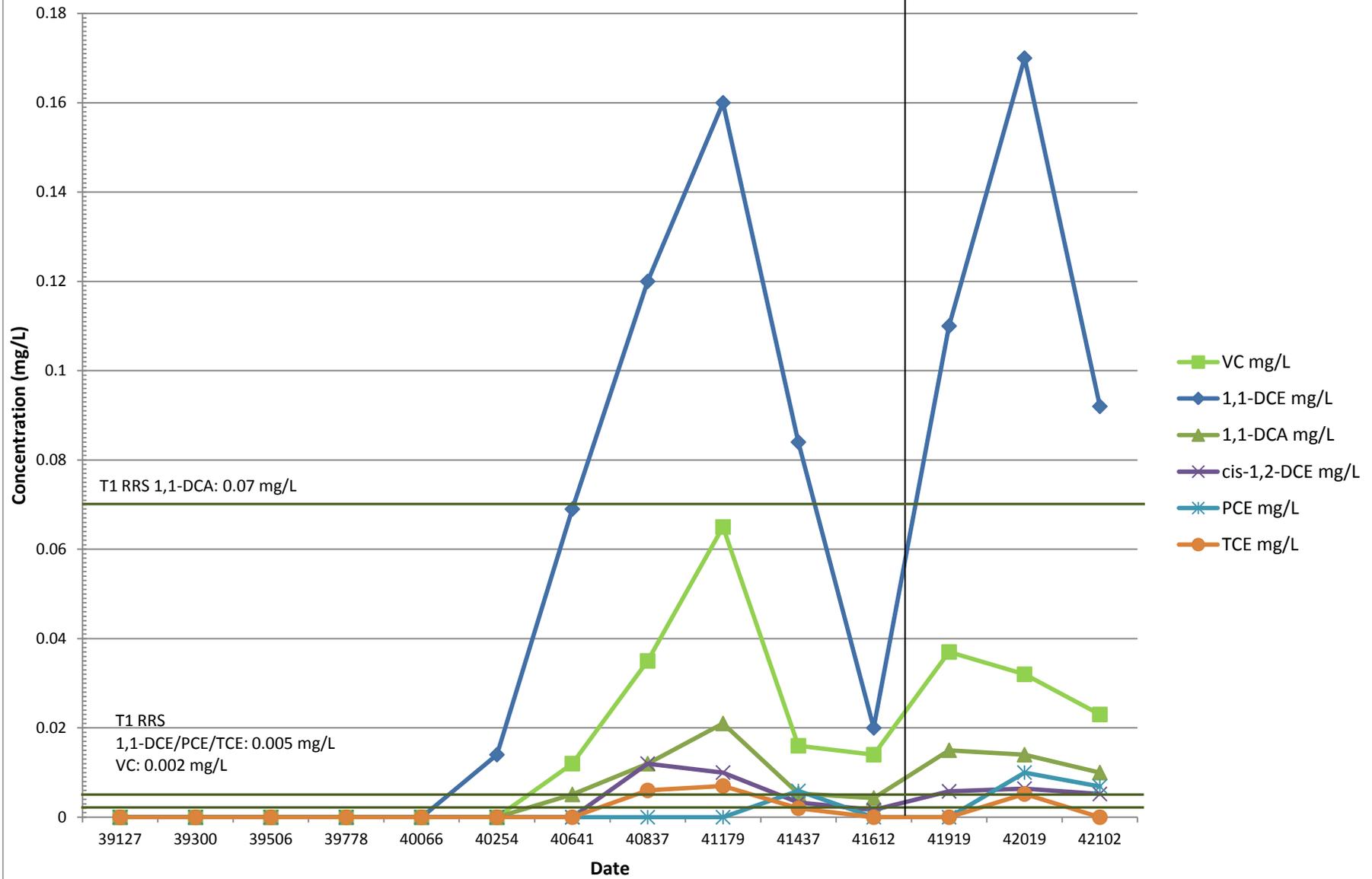


Figure E1C. MW-6

GWRS SHUT DOWN 9/2014



APPENDIX F

**TECHNICAL MEMORANDUM: PLUME ANALYTICS EVALUATION
INCLUDING A RICKER METHOD[®] PLUME STABILITY ANALYSIS**

TECHNICAL MEMORANDUM

**PLUME ANALYTICS EVALUATION INCLUDING A RICKER
METHOD® PLUME STABILITY ANALYSIS**

**APOLLO INDUSTRIES, INC.
1850 SOUTH COBB INDUSTRIAL BLVD.
SMYRNA, GEORGIA
HSI SITE NUMBER 10333**

PREPARED FOR:

**APOLLO TECHNOLOGIES, INC.
1850 SOUTH COBB INDUSTRIAL BOULEVARD SE
SMYRNA, GA 30082**

PREPARED BY:

**EARTHCON CONSULTANTS, INC.
1880 WEST OAK PARKWAY
BUILDING 100, SUITE 106
MARIETTA, GEORGIA 30062
770-973-2100**

EarthCon Project No. 02.20140391.00

MAY 2015

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- Appendix B: Apollo Plume Series Isopleth Maps – Tetrachloroethene
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- Appendix D: Apollo Plume Series Isopleth Maps – 1,1-Dichloroethene
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- Appendix G: Trend Analysis Summary Statistics

1.0 INTRODUCTION AND PURPOSE

EarthCon Consultants, Inc. (EarthCon) prepared this technical memorandum for Apollo Technologies, Inc. (Apollo) to document the results of a Plume Analytics Evaluation including a Ricker Method[®] Plume Stability Analysis conducted for various groundwater constituent plumes present at the Apollo Industries, Inc. facility in Smyrna, Georgia (Site). EarthCon performed the analysis as an addendum to the May 2015 First VIRP Progress Report. Background information on the well installation dates and groundwater recovery system shutdown are discussed in the First VIRP Progress Report (Progress Report).

Understanding the characteristics of a constituent plume, including plume stability, is an important step in the remedial planning process for a site. For example, an increasing trend in plume contaminant concentration, spatial distribution, and mass may indicate plume migration toward downgradient human or environmental receptors whereas a stable or decreasing plume trend may be an indication that the plume is not migrating downgradient toward potential receptors. A decreasing plume trend may also be an indication that an active remediation system(s) or natural attenuation processes are effective in controlling the plume. Evaluating plume behavior may help ascertain the need for and the type and scale of current and future remedial efforts.

The size of a contaminant plume is influenced by a variety of physical, chemical, and biological processes. Groundwater contaminant plumes are typically affected by one or more of these processes, as well as by other hydrologic and geologic features (streams, clay layers, etc.). With all else being equal, when a groundwater plume has reached a point of hydrodynamic equilibrium (i.e., steady state), the mass loading to the plume from a source is equal to the rate of the mass lost from the plume by physical, chemical, biological, or in some cases anthropogenic processes (e.g., via active remediation).

EarthCon performed this plume analytics and plume stability analysis to help provide Apollo with an understanding of the stability of the various site constituent plumes in terms of area, average concentration, and mass indicator for the constituents, as well as evaluate the overall molar characteristics of the groundwater plume.

2.0 PLUME ANALYTICS METHODOLOGY

EarthCon performed this plume analytics evaluation using historical groundwater analytical data. The plume analytics evaluation included the following elements:

- Ricker Method[®] Plume Stability Analysis;
- Total molar trend and molar ratio analysis for chloroethenes/ethanes;
- Molar ratio (pie chart) analysis (temporal and spatial) for chloroethenes/ethanes; and
- Plume difference over time evaluation.

A brief description of each of these elements is provided below:

Ricker Method® Plume Stability Analysis

EarthCon performed this plume stability analysis using procedures described in *A Practical Method to Evaluate Ground Water Contaminant Plume Stability* (Ricker, 2008). The Ricker Method® plume stability analysis compares relative changes in contaminant plume characteristics over time, including area, average concentration, and mass indicator. Note that the term “mass indicator” does not necessarily represent the entire mass in the subsurface, but rather an expression of it based on a fixed assumption of aquifer thickness and porosity. Calculation of the actual plume mass is often a very complicated exercise and typically more data/inputs are needed than are available from typical delineation and/or remediation well information. Because the plume mass value is not necessarily an indication of actual contaminant mass, the term “mass indicator” is used to describe this plume characteristic.

To demonstrate that a plume is decreasing or stable, temporal changes in these calculated values should result in an overall decreasing or stable trend. An increasing trend in any of these values may indicate that the plume is not stable and/or is possibly expanding.

Total molar trend, molar ratio analysis, and molar pie chart analysis

When assessing chlorinated volatile organic compound (CVOC) data, it is useful to evaluate the data on a molar basis. This is especially important when evaluating the degradation of parent-daughter sequences, such as the chlorinated ethenes and ethanes observed at the Site. For example, during reductive dechlorination the relative molar fraction of parent compounds progressively decreases through time and the fraction of daughter compounds progressively increases. Further, when a parent compound degrades to a daughter compound, the mass based concentration of total CVOCs decreases because one chlorine atom is released in each sequential reaction. However, the number of moles¹ does not decrease since one molecule of a parent compound (e.g., tetrachloroethene, or PCE) produces one molecule of its respective daughter compound (e.g., trichloroethene, or TCE) and so on. The molar concentration only decreases once the parent constituent has been completely mineralized to ultimate benign end products (i.e., carbon dioxide, water, and chloride ion). Therefore, the total plume decrease (or increase) for chlorinated ethenes/ethanes can be estimated by calculating the molar concentration (in nmol/L) of each species and then adding all the concentrations together for a total molar concentration of the plume. In addition to demonstrating complete mineralization of CVOC compounds, it is especially important for evaluating and detecting potential new, separate, and/or episodic release sources within a plume.

¹ One mole of a substance is 6.02×10^{23} molecules. The mass of one mole is that number times the molecular weight of the substance.

EarthCon prepared a series of figures that provide a graphical depiction of molar ratios and molar trends. These figures assist in the overall interpretation and understanding of current and historical site conditions related to patterns and/or changes in molar characteristics.

Plume difference over time evaluation

In addition to evaluating temporal trends in plume characteristics (e.g., area, concentration, and mass indicator), it is also useful to evaluate spatial differences in constituent concentrations over time as well. In order to do this, spatial difference maps (or “plume difference maps”) were prepared that illustrate where concentrations increase or decrease between two sample events. Each spatial plume difference map depicts the magnitude and locations where the dissolved constituent plume differed between the two sampling dates. The plume differences are denoted by areas of red shading (areas of concentration increase) and blue shading (areas of concentration decrease). The relative magnitude of plume concentration change is indicated by gradational shading, with darker shading indicating greater change in magnitude in accordance with the provided scale.

The plume analytics evaluation was conducted for the following CVOC constituents:

- 1,1,1-Trichloroethane (1,1,1-TCA)
- PCE
- TCE
- 1,1-Dichloroethene (1,1-DCE)
- cis-1,2-Dichloroethene (cis-1,2-DCE)
- Vinyl chloride (VC)
- Total CVOCs

In addition to the data collected in October 2014, January 2015, and April 2015, EarthCon used data provided by others. As such, EarthCon did not validate any of the data received from others and makes no warranties or guarantees as to the accuracy or completeness of information provided to EarthCon by others.

2.1 Data Assessment and Input File Development

Historical data is available for the site from 1994 through 2015. Plume analytics were performed using historical groundwater data from January 2005 through April 2015. This data set provides 18 sampling events over a 10-year period. The data used for plume analytics for 1,1,1,-TCA; PCE; TCE; 1,1-DCE; cis-1,2-DCE; and VC are summarized in Tables 1 through 6, respectively.

Historically, the monitoring frequency at the Site varied but groundwater was generally sampled on a semi-annual basis. In instances when wells were not sampled or high detection limits were reported, data gaps were filled by either interpolating between those events with available data or by extrapolating prior or subsequent monitoring events with available data. Other scientific

and/or statistical assumptions and adjustments to the data, consistent with the Ricker Method[®], were necessary in order to complete the analysis. These adjustments are identified in the Ricker Method[®] input data set summarized in Tables 1 through 6. The assumptions and adjustments used in the analysis include the following:

- Monitoring wells in which the majority of the data were non-detect for a particular constituent were assumed always to be non-detect for that constituent, even during sampling events when no analytical data were reported. Instances where these non-detect values were assigned are indicated by purple shading in Tables 1 through 6. In most cases, non-detect concentrations were evaluated with an assigned concentration value of one-half or one-tenth of the stated detection limit. One-half the non-detect value was used when wells experienced some detections and one-tenth was used when a well was historically non-detect. In cases where non-detect concentrations had elevated detection limits, professional judgment was used. For example, in some cases the actual elevated detection limit value was used. In others, a fraction of the value was used. In some cases it is assigned the standard detection limit. The values may also have been interpolated between the previous and subsequent monitoring events. In every case, however, the assigned value was based on actual results (detectable value or non-detect at a lower detection limit) from other sampling events for that same well.
- Values for some of the elevated reporting limits were assigned by interpolating between those events with actual data from the previous and subsequent monitoring events. Instances where these values were assigned are indicated by orange shading in Tables 1 through 6.
- Cells not colored in the input data set in Tables 1 through 6 indicate that no assignments or adjustments were made for those respective wells and dates.
- Due to Site conditions, RW-1 and RW-2 could not be sampled during the April 2015 event. April 2015 values were assigned by extrapolation from the most recent sampling event (January 2015). Instances where these values were assigned are indicated by green shading in Tables 1 through 6.
- To better define the plume boundaries, logarithmic interpolation was conducted between perimeter monitoring wells.
- For the molar analysis, CVOC concentrations that were below the delineation criteria were input as zero concentration.

2.2 Groundwater Plume Map Development

After the initial evaluation of historical groundwater data and conducting initial plume analytics exercises, three main areas of groundwater impact were identified at the site:

- the “western plume area” located proximal and downgradient of monitoring well MW-8,
- the “Apollo plume area” representing the plume detected on the subject site, and
- the “MW-6 area” located proximal to monitoring well MW-6.

Using procedures discussed in Section 2.1, constituent concentration isopleth maps, or plume maps, were developed for the Apollo plume area for January 2005 through April 2015. The Apollo plume area is considered to be defined by monitoring wells MW-1, MW-3, MW-4, RW-1, RW-2, and DW-1. MW-1, MW-4, RW-1, RW-2, and DW-1 were recovery wells prior to September 2014 when the groundwater remediation system (GWRS) was shut down. These wells are close to the source and have had historical detections above delineation criteria and risk reduction standards (RRS). The source area is considered to be in the area of MW-1 near the former tank farm area and former stormwater catchment basin (historically located between MW-1 and MW-3).

Because the data indicated the presence of possibly three separate plume areas (as will be discussed in more detail below), it was important to look at the Apollo area plume separately from the possible influence of the other plumes. To accomplish this, a plume “window” of non-detect values was drawn around the Apollo area plume based on historical non-detect results and groundwater flow direction. Doing so focused the plume stability analysis on the Apollo plume area to separate it from other potential contaminant source influences (i.e the western plume area).

The plume maps were delineated to each constituent’s respective delineation criteria. The delineation criteria is presented in Table 5 of the Progress Report. The area of the constituent-specific plume for each year was calculated using the mathematical features of the contouring software used to develop the isopleth maps (i.e., Surfer[®] by Golden Software, Inc.). The kriging gridding method was used with the default linear variogram to develop the isopleth maps. Surfer[®] was also used for the computation of the average concentration of each plume, as described in Ricker (2008). The plume area and average concentrations were then used to calculate the plume mass indicator for each year. In order to calculate the plume mass indicator, site specific values for porosity and aquifer thickness were used. A porosity of 35% was assumed based on the porosity used previously when calculating the RRS presented in the agency-approved March 2014 VIRP. The aquifer thickness value was based on the average aquifer thickness presented on Site cross sections (March 2014 VIRP).

The mass indicator is not necessarily an indication of the actual total mass of the contaminant in groundwater; rather it is a way to combine the variables of area and concentration into one

meaningful indicator variable. Since the main purpose of the plume stability analysis is to observe relative changes in this value between sampling events, applying constants (i.e., porosity and aquifer thickness) to the mass calculation has no bearing on the usefulness of the output of the analysis (i.e., relative rate of change in plume mass).

Concentration isopleth maps for each of the constituents are included in Appendices A through F. As discussed above, plume stability characteristics were calculated for each of the sampling events included in the analysis. The plume stability characteristics of area, average concentration, and mass indicator are also shown on the respective isopleth maps.

2.3 Statistical Methodology

To evaluate the stability of each constituent plume, temporal trends of the characteristics for each plume were evaluated statistically. The area, average concentration, and mass indicator for each year were plotted to observe changes in each parameter from event to event. The results of the plume stability analyses for each constituent are discussed further in Section 3.0.

The temporal trends in the plume characteristic values were statistically evaluated using both linear regression techniques and the Mann-Kendall Test. Linear regression analyses were conducted using the regression analysis utility in Microsoft Excel. The Mann-Kendall Tests were conducted also using Microsoft Excel spreadsheets based on procedures described in Gilbert (1987). Linear regression is a parametric statistical procedure that is typically used for analyzing trends in data over time. The Mann-Kendall Test is a non-parametric statistical test; therefore, it is not dependent upon the magnitude of the data, assumptions of distribution, or regularly spaced sampling events.

The Mann-Kendall Test is used to assess whether a data set exhibits an increasing or decreasing trend, at a predetermined level of significance, α . The test requires the calculation of a statistic "S", which is the difference between the number of paired differences that are positive, minus the number that are negative. If S is a large positive value, then there is evidence of an increasing trend in the data. If S is a large negative value, then there is evidence of a decreasing trend in the data. The null hypothesis, H_0 , for the Mann-Kendall Test is that there is no temporal trend in the data. The alternative hypothesis, H_A , is that of either an upward trend or a downward trend.

If the null hypothesis is not rejected (i.e., no trend could be established statistically), it is expected that the plume is stable. However, a stable plume may not in fact be evident because the statistical test does not take into account magnitude or variation in the data. For example, a data set can exhibit a large amount of scatter, yet the test could conclude that the plume is stable. A methodology to counter the problem of scatter in the data involves comparing the calculated S statistic, a calculated confidence factor $(1-\alpha)$, and the coefficient of variation for the

data set. The S statistic indicates the direction of the trend, the confidence factor shows how strong the trend is, and the coefficient of variation indicates the degree of scatter in the data.

When evaluating trends using linear regression, trends may be obscured by scatter in the data. This condition is typically indicated by a low coefficient of determination (R^2) value. Even with low R^2 values (i.e., high degree of scatter), a confidence interval can still be constructed on the slope of the regression line. As described in AFCEE (2006), assuming the sign (i.e., positive or negative) of the estimated log-slope is correct, a level of confidence that the slope is not zero can be easily determined. The overall trend in the data may thus still be determined, where low levels of confidence correspond to stable or indeterminate trends and higher levels of confidence (e.g., > 90%) indicate the stronger likelihood of a trend.

For the plume stability analysis, significant trends are established when the calculated confidence factor is greater than 90%. If the confidence factor is less than 90%, the plume is considered stable if the coefficient of variation is small (i.e., <1). If the coefficient of variation is high (i.e., >1), then a conclusion of indeterminate trend is made.

In many cases, the statistical results for both linear regression and Mann-Kendall Test agree with each other. In the case where two different results are obtained (e.g., one stable trend and one decreasing trend), both are used to describe the trend.

Trend analysis results for the respective constituent plume area, average concentration, and mass indicator are discussed for each constituent below. Statistical analysis summaries are provided in Appendix G.

3.0 PLUME ANALYTICS RESULTS

This section of the technical memorandum provides a summary of results of the individual plume analytics based on the data set described above. Our interpretations and opinions of the data outputs are subject to change should additional information become available. Several figures were prepared as part of the analyses of the CVOC constituents, as follows:

- Figure 1: Site wide total CVOC molar ratio (pie chart) evaluation for the April 2015 sampling event.
- Figures 2 through 8: Apollo plume trend analysis results of plume area, average concentration, and mass indicator using data from January 2005 through April 2015 for 1,1,1-TCA; PCE; TCE; 1,1-DCE; cis-1,2-DCE; VC; and total CVOC, respectively, are presented. The spatial difference figures are solely based on the difference between the January 2005 and April 2015 monitoring event results and depict magnitude and locations where the dissolved contaminant plume differed between the two selected dates. The plume differences are denoted by areas of blue shading (areas of

concentration decrease) and red shading (areas of concentration increase). The relative magnitude of plume concentration change is indicated by gradational shading, with darker shading indicating greater change in magnitude in accordance with the provided scale.

- Appendices A through F: Apollo plume series maps for 1,1,1-TCA; PCE; TCE; 1,1-DCE; cis-1,2-DCE; and VC, respectively.
- Figures 9 and 10: Total CVOC molar analysis summary and trends for the period of January 2005 through April 2015 for the Apollo plume area and for the “western plume area” located proximal to monitoring well MW-8 and including MW-7. A molar evaluation was also conducted for well MW-6 (i.e. the “MW-6 area”).

April 2015 Molar Ratio (Pie Chart) Analysis (Figure 1)

The following are observations made from the total CVOC molar analysis (in nmol/L) that was conducted on April 2015 data:

Based upon the April 2015 molar patterns, there appear to be three separate plumes in the site area: 1) Apollo plume area, 2) western plume area and 3) MW-6 plume area. The Apollo plume area is characterized by the prevalence of 1,1-DCE throughout the plume. Additionally, the Apollo plume area is characterized by varying percentages of 1,1,1-TCA, cis-1,2-DCE and VC. Also, on a molar concentration basis, the Apollo plume area has higher molar concentrations than the other two plume areas.

The western plume area shows a classic degradation pathway showing mostly PCE and TCE at MW-8, cis-1,2-DCE and VC downgradient at MW-7 and finally almost all VC at MW-15 which is downgradient from MW-7. Additionally, supporting this interpretation is the observation that the molar concentrations continue to decrease in a downgradient direction from MW-8 to MW-7 to MW-15. The fact that the western plume area is located side-gradient to the Apollo plume area, that the western plume area shows a classic degradation pathway in a downgradient direction, and that 1,1-DCE does not appear to be a significant component of the western plume area all point to strong lines of evidence that the western plume area and the Apollo plume area are two distinct plumes sourced from different locations. The evidence supports that the source of the western plume area is coming from an area upgradient or proximal to MW-8.

The offsite MW-6 plume area located south of the Site is predominantly 1,1-DCE and VC. Although its molar signature more resembles the main plume due to the relatively high percentage of 1,1-DCE, it appears this plume may be separate from the Apollo plume area based on data obtained from MW-15 which is located between the Apollo plume area and the MW-6 plume area. MW-15, located on the Apollo property upgradient and north of MW-6, is predominantly VC. Historically, MW-15 has consistently had lower concentrations of CVOCs

than MW-6 and at times an order of magnitude lower. Therefore, based on groundwater flow direction and historical data, the source of CVOCs detected at MW-6 is unclear.

Ricker Method[®] Plume Stability Analysis (Figures 2 – 8 and Appendices A – F)

The Ricker Method[®] Plume Stability Analysis was conducted for the Apollo plume area using groundwater data for each of the six CVOCs for years 2005 through 2015. The Ricker Method[®] Plume Stability Analysis for each of the constituents evaluated resulted in the following trends:

Constituent	Area	Average Concentration	Mass Indicator
1,1,1-TCA	Decreasing	Decreasing	Decreasing
PCE	Decreasing	Decreasing	Decreasing
TCE	Decreasing	Decreasing	Decreasing
1,1-DCE	Decreasing	Decreasing	Decreasing
cis-1,2-DCE	Decreasing	Decreasing	Decreasing
VC	Stable	Decreasing	Decreasing
Total CVOCs	Decreasing	Decreasing	Decreasing

- Average concentration and mass indicator for all constituents have a decreasing trend over the last 10 years. All constituents have a decreasing trend for area over the last 10 years except for VC which has a stable trend. No plume stability metrics indicated an increasing trend for the Apollo plume area.
- When comparing plume area between January 2005 and April 2015, 1,1,1-TCA decreases by 92% and cis-1,2-DCE decreases by 73%. Except for VC, the remaining constituents decrease in plume area by 20-35%. VC increases in plume area by 15%, which is likely due to the generation of this compound by active reductive dechlorination processes occurring at the Site. The VC plume area data trend for the last 10 years, however, is stable. Additionally, the total CVOC plume area is showing a 33% decrease over this 10 year time period.

- When comparing plume average concentration between January 2005 and April 2015, 1,1,1-TCA, TCE, 1,1-DCE, cis-1,2-DCE, and total CVOCs have decreased by more than 75%, while PCE and VC have decreased by more than 50%.
- When comparing plume mass indicator between January 2005 and April 2015, 1,1,1-TCA and cis-1,2-DCE have decreased by more than 95%. PCE, TCE, 1,1-DCE, and total CVOCs have decreased by more than 70%. VC has decreased by more than 50%.
- When comparing the total molar trend between January 2005 and April 2015, the total number of moles has decreased by approximately 87%.

Molar Difference and Molar Trend Analysis (Figures 9 and 10)

Figure 9 presents a summary of the total CVOC molar analysis and associated trends for the Apollo plume area. Figure 10 presents a summary of the total CVOC molar analysis and trends for the western plume area as well as the MW-6 plume area. Molar trend charts for each well are also presented on Figures 9 and 10. The analyses were not conducted on monitoring wells that were historically mostly non-detect.

The charts on Figures 9 and 10 are based on data sets from January 2005 through April 2015. Total molar concentration (nmol/L) is plotted on the primary y-axis, while the percentage of the molar ratio is plotted on the secondary y-axis. The yellow shaded area represents the total molar concentration, while the line graphs represent the percentage each CVOC contributes to the total molar concentration. The green-shaded background of the charts represents the years in which the GWRS operated. The following summarizes trends and interpretations of the data.

Apollo Plume Area (Figure 9)

- The molar trend analysis for each well demonstrates a fairly consistent decreasing trend in parent products.
- MW-1: The total molar concentration (yellow shaded area) indicates that this appears to be a primary source area of the Apollo groundwater plume. The molar ratio patterns indicating generation of daughter compounds indicates that reductive dechlorination is occurring at MW-1. VC and cis-1,2-DCE are the CVOCs that dominate the molar ratio at approximately 42% and 38%, respectively. Additionally, the total molar concentration has decreased significantly from 2010 through 2015, indicating the parent constituents are undergoing complete mineralization. This also demonstrates there is no continuing source of contamination in the area monitored by MW-1.
- MW-4: Prior to September 2014, MW-4 was a recovery well. The predominant CVOCs comprising the molar ratio at MW-4 is 1,1-DCE at 85%. PCE, and 1,1,1-TCA

are at 8%, and 7%, respectively. It appears that reductive dechlorination has transformed the 1,1,1-TCA and PCE to daughter products.

- RW-1: Prior to September 2014, RW-1 was a recovery well. The total molar concentration is dominated by degradation products 1,1-DCE and VC at approximately 51% and 32%, respectively, indicating reductive dechlorination is occurring. The total molar concentration has also reduced considerably since 2012.
- DW-1: Prior to September 2014, DW-1 was a recovery well. The molar ratio is currently comprised of mostly 1,1-DCE and PCE at approximately 50% and 25%, respectively. Although residual concentrations of PCE are present, it is apparent reductive dechlorination is occurring. It does not appear additional mass is being sourced at this location as the total molar concentration is fairly low and has continued to decline since 2008.
- RW-2: Prior to September 2014, RW-2 was a recovery well. The molar ratio of recent detections in RW-2 was mainly comprised of cis-1,2-DCE, TCE, and PCE at approximately 58%, 21%, and 12%, respectively. Monitoring results for RW-2 were non-detect in January 2015; RW-2 could not be sampled in April 2015 because it was submerged in a pool of surface water.
- MW-3: Prior to September 2014, MW-3 was a recovery well. The molar ratio is mainly comprised of VC, cis-1,2-DCE, 1,1-DCE, and 1,1,1-TCA at approximately 57%, 23%, 10%, and 10%, respectively. Due to the prevalence of daughter compounds and a continuing decline in molar concentration, it appears reductive dechlorination is occurring in the area monitored by this well.

MW-6, MW-7, and MW-8 (Figure 10)

- MW-6: The molar ratio is comprised mainly of 1,1-DCE and VC at approximately 68% and 26%, respectively. The total molar concentration has remained fairly low since monitoring began.
- MW-7: The molar ratio is comprised mainly of VC and cis-1,2-DCE at approximately 68% and 32%, respectively. It appears the total molar concentration has declined since the GWRS was shutdown. The reduction in molar concentration and generation of daughter compounds indicates that MW-7 may be sourced from an upgradient area proximal to MW-8.
- MW-8: The molar ratio is comprised mainly of TCE and PCE at approximately 65% and 28%, respectively. The total molar concentration has remained fairly consistent since monitoring began. The predominance of parent products in this well, as

opposed to mostly daughter products in the other monitoring wells, indicates MW-8 is monitoring a separate groundwater plume from an offsite, upgradient source not associated with the Apollo plume.

4.0 SUMMARY AND CONCLUSIONS

The following is a general narrative summary of the key findings of this Plume Analytics Evaluation including a Ricker Method® Plume Stability Analysis. Additional detail and findings are provided in the previous sections.

Based on the evaluation of molar ratios and molar concentrations of the total CVOCs, there appear to be three separate and distinct plumes: The Apollo area plume in the central portion of the property, the western plume area on the western edge of the property at MW-8/MW-7/MW-15 and the MW-6 plume area. From analysis of the available data described within this Technical Memorandum, the primary plume within the Apollo area (MW-1, MW-3, MW-4, RW-1, RW-2, DW-1) is characterized by 1,1-DCE and VC, whereas the plume observed on the western edge of the property at MW-8 is predominantly TCE.

Based on the results of a Ricker Method® Plume Stability Analysis conducted on data from 2005 through 2015, there is strong evidence that the total CVOC plume is stable and decreasing. This statement is supported by the stable to decreasing trends in area, average concentration, and mass indicator for all six CVOCs, as well as total CVOCs. The increase in plume area between 2005 and 2015 for VC is attributed to active reductive dechlorination processes which is generating the VC daughter compound. However, despite the slight increase in VC plume area, the VC average concentration has decreased by 56% and the mass of the VC plume has decreased by 50% over this time period.

The combined data indicates that the total CVOC plume at the Apollo Site appears to be decreasing primarily by reductive dechlorination. The support for this statement is the classic degradation pattern of decreasing 1,1,1-TCA, PCE, and TCE with a subsequent increase in 1,1-DCE, cis-1,2-DCE, and VC daughter products that are observed on both a mass concentration and molar mass basis. Overall, the total CVOC plume is showing a steady decrease in mass.

The MW-6 plume area is a small area with a more predominant 1,1-DCE component at MW-6, downgradient and offsite of the Site. The molar ratio at MW-6 appears more closely related to the Apollo plume. However, it does not appear to be solely related to the Apollo plume based on historical results at MW-13 and MW-15, which are located downgradient of the other two plume areas and upgradient of MW-6. Concentrations of cis-1,2-DCE and VC at MW-13 and MW-15 have been consistently lower than concentrations detected at MW-6. Therefore, the source of CVOCs detected at MW-6 is unclear.

5.0 LIMITATIONS

Per the terms and conditions under which this scope of work was performed, this report shall be the sole property of Apollo Technologies, Inc. This report was prepared for the sole and exclusive use and reliance of Apollo Technologies, Inc. and may also be relied upon by any regulatory agency receiving a copy of this report from Apollo Technologies, Inc. Any person or entity other than such regulatory agency (“third parties”, including any members of the public who may access this report as a public document) receive it in every instance solely for informational purposes and not for any type of reliance. This report presents observations and opinions based solely upon the agreed scope of work outlined in this report and EarthCon Proposal No. 02.01010023.55.01.14284, dated August 6, 2014. EarthCon makes no warranties or guarantees as to the accuracy or completeness of information, if any, provided or compiled by individuals or entities other than EarthCon. It is possible that, as a result of the limitations imposed on the scope of work, there exists relevant information that was not considered in the findings, observations and opinions as presented in this report. Additional information, which was not found or available to EarthCon at the time of writing this report, may result in modification of the findings, observations, and opinions presented herein. This report is not intended to be and is not a legal opinion. The services performed by EarthCon have been conducted in a manner consistent with the level of care ordinarily exercised by members of our profession currently practicing at the same time under similar conditions. No other warranty, expressed or implied, is made.

6.0 REFERENCES

Air Force Center for Environmental Excellence (AFCEE), March 2006, *Monitoring and Remediation Optimization System (MAROS) Software Version 2.2 User’s Guide*.

Gilbert, R.O. 1987. *Statistical Methods for Environmental Pollution Monitoring*. New York. John Wiley & Sons, Inc.

O-Brien & Gere, March 2014, *Voluntary Investigation and Remediation Plan, Apollo Technologies, Inc., HSI No. 10333*.

Ricker, J.A. 2008. *A Practical Method to Evaluate Ground Water Contaminant Plume Stability*. *Groundwater Monitoring & Remediation* 28, no. 4: 85–94.

TABLES

Table 1
Summary of Analytical Data
1,1,1-Trichloroethane (1,1,1-TCA)

	Jan. 2005	Dec. 2005	Jul. 2006	Feb. 2007	Aug. 2007	Feb. 2008	Nov. 2008	Sep. 2009	Mar. 2010	Sep. 2010	Apr. 2011	Oct. 2011	Sep. 2012	Jun. 2013	Dec. 2013	Oct. 2014	Jan. 2015	Apr. 2015
MW-1	30	22	9.3	<0.0050	4.0	1.6	2.9	35	1.7	2.9	1.4	3.8	4.8	0.24	0.057	0.090	0.11	0.014
MW-2	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0010	<0.0010	NS (ND)	NS (ND)	<0.0050
MW-3	1.7	3.4	<0.0050	1.2	11	0.97	7.2	2.4	2.2	0.81	0.50	0.085	2.5	0.24	2.9	1.6	0.37	0.17
MW-4	3.4	2.2	2.0	3.6	2.3	3.5	1.4	2.9	2.2	0.47	2.5	0.89	1.7	1.6	2.1	2.4	2.6	1.0
MW-5	NA	NA	NA	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0010	<0.0010	NS (ND)	NS (ND)	<0.0050
MW-6	NA	NA	NA	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	NS (ND)	<0.0050	0.0064	0.0065	0.0028	<0.0010	<0.0050	<0.0050	<0.0050
MW-7	NA	NA	NA	<0.0050	0.0063	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0010	<0.0010	<0.0050	<0.0050	<0.0050
MW-8	NA	0.016	0.0089	0.0052	0.0059	0.0067	<0.0050											
MW-9	NA	<0.0050	<0.0010	<0.0010	<0.0050	<0.0050	<0.0050											
MW-10	NA	<0.0050	<0.0010	<0.0010	NS (ND)	NS (ND)	<0.0050											
MW-11	NA	<0.0050	<0.0010	<0.0010	NS (ND)	NS (ND)	<0.0050											
MW-12	NA	<0.0050	<0.0010	<0.0010	NS (ND)	NS (ND)	<0.0050											
MW-13	NA	<0.0050	<0.0010	<0.0010	<0.0050	<0.0050	<0.0050											
MW-15	NA	<0.0050	<0.0010	<0.0010	NS (ND)	NS (ND)	<0.0050											
DW-1	6.2	1.5	0.61	0.026	0.55	0.49	0.29	0.36	0.37	0.31	0.35	0.24	0.23	0.25	0.41	0.20	0.077	0.020
RW-1	9.1	6.3	4.6	5.3	2.5	4.7	3.9	5.4	2.0	0.81	1.6	2.2	0.19	0.16	0.76	0.30	0.18	NS (0.18)
RW-2	0.092	0.15	0.059	0.061	0.077	0.065	0.069	0.043	<0.0050	0.095	0.019	0.012	0.015	0.013	0.013	0.014	<0.0050	NS (ND)

Notes:

All concentrations in mg/l

NA: Well not installed.

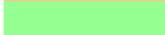
<5.00: Analyte not detected.

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS: Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

 Non-Sampled well assumed non-detect

 Interpolated between two sampling events.

 Extrapolated from a sampling event.

RW-1 and RW-2 were not sampled in April 2015. Results from the January 2015 sampling event were used for analysis.

Table 2
Summary of Analytical Data
Tetrachloroethene (PCE)

	Jan. 2005	Dec. 2005	Jul. 2006	Feb. 2007	Aug. 2007	Feb. 2008	Nov. 2008	Sep. 2009	Mar. 2010	Sep. 2010	Apr. 2011	Oct. 2011	Sep. 2012	Jun. 2013	Dec. 2013	Oct. 2014	Jan. 2015	Apr. 2015
MW-1	<2.3 (0.39)	<2.5 (0.45)	<2.5 (0.52)	0.58	0.58	0.011	<0.25 (0.0098)	<0.0086 (0.0085)	0.0073	0.0064	<0.0050	<0.0050	0.019	<0.010	0.0051	<0.0050	0.021	0.0081
MW-2	<0.0050	0.019	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0010	<0.0010	NS (ND)	NS (ND)	<0.0050
MW-3	<0.50 (0.039)	<0.50 (0.059)	<0.0050	0.10	0.25	0.28	0.27	0.093	0.13	0.0064	0.0058	<0.0050	0.012	<0.050 (0.0099)	<0.25 (0.0078)	0.0057	<0.0050	<0.0050
MW-4	1.7	1.2	1.5	2.0	1.7	2.2	1.2	2.2	1.7	0.46	0.92	0.42	0.62	1.5	1.6	2.1	2.6	1.6
MW-5	NA	NA	NA	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0010	<0.0010	NS (ND)	NS (ND)	<0.0050
MW-6	NA	NA	NA	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	NS (ND)	<0.0050	<0.0050	<0.0050	0.0059	<0.0010	<0.0050	0.010	0.0069
MW-7	NA	NA	NA	0.055	<0.0050	0.66	2.0	<0.0050	<0.0050	<0.0050	0.92	<0.0050	<0.0050	0.37	0.048	<0.0050	<0.0050	<0.0050
MW-8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.48	0.54	0.42	0.32	0.52	0.38
MW-9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0050	<0.0010	<0.0010	<0.0050	<0.0050	<0.0050
MW-10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0050	<0.0010	<0.0010	NS (ND)	NS (ND)	<0.0050
MW-11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0050	<0.0010	<0.0010	NS (ND)	NS (ND)	<0.0050
MW-12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0050	<0.0010	<0.0010	NS (ND)	NS (ND)	<0.0050
MW-13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0050	<0.0010	<0.0010	<0.0050	<0.0050	<0.0050
MW-15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0050	<0.0010	<0.0010	NS (ND)	NS (ND)	<0.0050
DW-1	2.3	0.76	<0.50 (0.40)	0.031	0.27	0.37	0.24	0.23	0.28	0.34	0.37	0.30	0.26	0.34	0.54	0.097	0.52	0.12
RW-1	0.63	0.52	<0.50	0.56	0.16	0.31	<0.50	0.11	0.070	<0.50 (0.074)	0.078	0.060	0.022	<0.10	0.082	0.0072	0.023	NS (0.023)
RW-2	0.087	0.16	0.091	0.10	0.11	0.090	0.10	0.069	<0.0050	0.081	0.059	0.040	0.071	0.092	0.083	0.13	<0.0050	NS (ND)

Notes:

All concentrations in mg/l

NA: Well not installed.

<5.00: Analyte not detected.

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS: Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

Non-Sampled well assumed non-detect

Interpolated between two sampling events.

Extrapolated from a sampling event.

MW-1 January 2005 to February 2007 was interpolated using prior historical data.

MW-3 January 2005 to July 2006 was interpolated using prior historical data.

RW-1 and RW-2 were not sampled in April 2015. Results from the January 2015 sampling event were used for analysis.

Table 3
Summary of Analytical Data
Trichloroethene (TCE)

	Jan. 2005	Dec. 2005	Jul. 2006	Feb. 2007	Aug. 2007	Feb. 2008	Nov. 2008	Sep. 2009	Mar. 2010	Sep. 2010	Apr. 2011	Oct. 2011	Sep. 2012	Jun. 2013	Dec. 2013	Oct. 2014	Jan. 2015	Apr. 2015
MW-1	5.0	<2.5	2.5	0.41	<0.25	0.016	<0.25	0.054	<0.0050	0.088	0.023	0.027	0.11	<0.010	0.028	0.047	0.10	0.013
MW-2	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0010	<0.0010	NS (ND)	NS (ND)	<0.0050
MW-3	<0.50	<0.50	<0.0050	0.14	0.96	0.25	0.71	0.50	0.19	0.0077	0.0074	<0.0050	0.045	<0.050	<0.25	0.073	<0.0050	<0.0050
MW-4	<0.50	<0.50	<0.50	0.032	0.021	0.035	<0.50	<0.012	0.023	0.020	0.12	0.11	0.069	<0.20	0.12	0.14	0.12	0.067
MW-5	NA	NA	NA	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0010	<0.0010	NS (ND)	NS (ND)	<0.0050
MW-6	NA	NA	NA	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	NS (ND)	<0.0050	0.0060	0.0070	0.0020	<0.0010	<0.0050	0.0052	<0.0050
MW-7	NA	NA	NA	0.041	<0.0050	0.40	0.71	0.0051	<0.0050	<0.0050	0.82	<0.0050	<0.0050	0.43	0.12	<0.0050	<0.0050	<0.0050
MW-8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.1	1.0	0.71	0.67	0.96	0.71
MW-9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0050	<0.0010	<0.0010	<0.0050	<0.0050	<0.0050
MW-10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0050	<0.0010	<0.0010	NS (ND)	NS (ND)	<0.0050
MW-11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0050	<0.0010	<0.0010	NS (ND)	NS (ND)	<0.0050
MW-12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0050	<0.0010	<0.0010	NS (ND)	NS (ND)	<0.0050
MW-13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0050	<0.0010	<0.0010	<0.0050	<0.0050	<0.0050
MW-15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0050	<0.0010	<0.0010	NS (ND)	NS (ND)	<0.0050
DW-1	<0.50 (0.021)	<0.50 (0.018)	<0.50 (0.016)	0.013	0.079	0.13	0.10	0.12	0.52	0.14	0.14	0.11	0.049	0.040	0.051	0.067	0.038	0.016
RW-1	<0.50	<0.50	<0.50	0.30	0.19	0.19	<0.50	0.23	0.46	<0.50	0.15	0.15	0.019	<1.0	0.14	0.014	0.031	NS (0.031)
RW-2	0.028	0.11	0.060	0.075	0.11	0.094	0.13	0.10	<0.0050	0.0075	0.10	0.060	0.11	0.13	0.13	0.18	<0.0050	NS (ND)

Notes:

All concentrations in mg/l

NA: Well not installed.

<5.00: Analyte not detected.

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS: Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

Non-Sampled well assumed non-detect

Interpolated between two sampling events.

Extrapolated from a sampling event.

DW-1 January 2005 to February 2007 was interpolated using prior historical data.

RW-1 and RW-2 were not sampled in April 2015. Results from the January 2015 sampling event were used for analysis.

Table 4
Summary of Analytical Data
1,1-Dichloroethene (1,1-DCE)

	Jan. 2005	Dec. 2005	Jul. 2006	Feb. 2007	Aug. 2007	Feb. 2008	Nov. 2008	Sep. 2009	Mar. 2010	Sep. 2010	Apr. 2011	Oct. 2011	Sep. 2012	Jun. 2013	Dec. 2013	Oct. 2014	Jan. 2015	Apr. 2015
MW-1	<2.5	2.6	<2.5	3.1	3.2	2.0	6.9	9.4	12	2.5	1.5	0.93	0.28	0.018	0.0031	0.012	0.019	<0.0050
MW-2	<0.020	<0.050	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0010	<0.0010	NS (ND)	NS (ND)	<0.0050
MW-3	3.0	7.4	<5.0	2.6	7.3	1.5	8.5	1.2	2.5	2.5	0.13	0.021	1.5	0.24	1.7	1.5	0.39	0.11
MW-4	13	11	11	18	19	27	13	18	28	4.6	9.1	3.2	9.4	8.6	14	16	36	9.8
MW-5	NA	NA	NA	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0010	<0.0010	NS (ND)	NS (ND)	<0.0050
MW-6	NA	NA	NA	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.014	NS (0.042)	0.069	0.12	0.16	0.084	0.020	0.11	0.17	0.092
MW-7	NA	NA	NA	<0.0050	0.011	0.077	0.16	0.034	<0.0050	0.0088	0.067	0.011	0.030	0.057	0.033	0.0087	<0.0050	<0.0050
MW-8	NA	NA	NA	0.037	0.026	0.025	0.018	0.030	0.017									
MW-9	NA	NA	NA	<0.0050	<0.0010	<0.0010	<0.0050	<0.0050	<0.0050									
MW-10	NA	NA	NA	<0.0050	<0.0010	<0.0010	NS (ND)	NS (ND)	<0.0050									
MW-11	NA	NA	NA	<0.0050	<0.0010	<0.0010	NS (ND)	NS (ND)	<0.0050									
MW-12	NA	NA	NA	<0.0050	<0.0010	<0.0010	NS (ND)	NS (ND)	<0.0050									
MW-13	NA	NA	NA	<0.0050	<0.0010	<0.0010	<0.0050	<0.0050	<0.0050									
MW-15	NA	NA	NA	<0.0050	<0.0010	<0.0010	NS (ND)	NS (ND)	<0.0050									
DW-1	12	5.7	3.9	0.060	2.3	2.3	1.6	1.2	1.4	1.0	1.1	0.76	0.84	0.68	1.2	0.76	0.69	0.15
RW-1	15	18	11	16	11	14	15	15	8.8	1.8	9.5	11	1.1	1.7	<0.0010	1.2	0.87	NS (0.87)
RW-2	0.20	0.54	0.32	0.21	0.27	0.19	0.25	0.10	<0.0050	0.51	0.057	0.032	0.038	0.016	0.030	0.027	<0.0050	NS (ND)

Notes:

All concentrations in mg/l

NA: Well not installed.

<5.00: Analyte not detected.

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS: Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

 Non-Sampled well assumed non-detect

 Interpolated between two sampling events.

 Extrapolated from a sampling event.

RW-1 and RW-2 were not sampled in April 2015. Results from the January 2015 sampling event were used for analysis.

Table 5
Summary of Analytical Data
cis-1,2-Dichloroethene

	Jan. 2005	Dec. 2005	Jul. 2006	Feb. 2007	Aug. 2007	Feb. 2008	Nov. 2008	Sep. 2009	Mar. 2010	Sep. 2010	Apr. 2011	Oct. 2011	Sep. 2012	Jun. 2013	Dec. 2013	Oct. 2014	Jan. 2015	Apr. 2015
MW-1	15	49	56	91	100	100	110	100	120	49	16	14	3.5	0.20	0.12	0.16	0.19	0.041
MW-2	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0010	<0.0010	NS (ND)	NS (ND)	<0.0050
MW-3	<0.50	5.2	<0.0050	0.17	7.1	0.73	4.9	2.0	3.4	1.4	0.32	0.23	3.2	1.7	5.1	5.0	0.55	0.28
MW-4	<0.50	<0.50	<0.0050	<0.0050	<0.0050	0.022	<0.50	<0.50	<0.0050	0.015	0.042	0.069	0.013	<0.20	0.039	0.011	0.037	0.019
MW-5	NA	NA	NA	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0010	<0.0010	NS (ND)	NS (ND)	<0.0050
MW-6	NA	NA	NA	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	NS (ND)	<0.0050	0.012	0.010	0.0033	0.0016	0.0058	0.0064	0.0052
MW-7	NA	NA	NA	4.7	4.8	16	4.5	4.3	0.19	1.6	10	1.0	1.6	7.2	1.9	1.3	0.25	0.035
MW-8	NA	0.041	0.028	0.022	0.025	0.037	0.033											
MW-9	NA	<0.0050	<0.0010	<0.0010	<0.0050	<0.0050	<0.0050											
MW-10	NA	<0.0050	<0.0010	<0.0010	NS (ND)	NS (ND)	<0.0050											
MW-11	NA	<0.0050	<0.0010	<0.0010	NS (ND)	NS (ND)	<0.0050											
MW-12	NA	<0.0050	<0.0010	<0.0010	NS (ND)	NS (ND)	<0.0050											
MW-13	NA	0.0055	0.011	0.0090	<0.0050	<0.0050	<0.0050											
MW-15	NA	<0.0050	<0.0010	<0.0010	NS (ND)	NS (ND)	<0.0050											
DW-1	<0.50	<0.50	<0.50	0.012	0.16	0.22	0.16	0.20	0.19	0.16	0.16	0.097	0.069	0.056	0.080	0.29	0.052	0.022
RW-1	<0.50	<0.50	<0.50	0.78	0.35	0.85	0.67	0.77	0.41	<0.50	0.53	0.40	0.054	0.16	0.39	0.15	0.11	NS (0.11)
RW-2	0.033	0.14	0.056	0.10	0.088	0.078	0.081	0.071	<0.0050	0.0066	0.086	0.12	0.16	0.25	0.32	0.36	<0.0050	NS (ND)

Notes:

All concentrations in mg/l

NA: Well not installed.

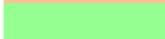
<5.00: Analyte not detected.

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS: Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

 Non-Sampled well assumed non-detect

 Interpolated between two sampling events.

 Extrapolated from a sampling event.

RW-1 and RW-2 were not sampled in April 2015. Results from the January 2015 sampling event were used for analysis.

Table 6
Summary of Analytical Data
Vinyl Chloride (VC)

	Jan. 2005	Dec. 2005	Jul. 2006	Feb. 2007	Aug. 2007	Feb. 2008	Nov. 2008	Sep. 2009	Mar. 2010	Sep. 2010	Apr. 2011	Oct. 2011	Sep. 2012	Jun. 2013	Dec. 2013	Oct. 2014	Jan. 2015	Apr. 2015
MW-1	<1.0 (0.56)	<1.0 (0.69)	<2.5 (0.83)	0.97	0.79	1.2	6.0	2.9	3.6	4.1	2.8	0.75	0.15	0.092	0.049	0.082	0.16	0.030
MW-2	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0010	<0.0010	NS (ND)	NS (ND)	<0.0020
MW-3	0.23	2.8	<0.0020	0.16	1.5	<0.0020	2.4	0.70	1.6	0.47	0.080	0.015	0.87	1.2	1.6	1.4	0.38	0.44
MW-4	<0.20	<0.20	<0.20	<0.0020	<0.0020	<0.0020	<2.0	<0.019	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.20	<0.025	<0.0020	<0.0020	0.0055
MW-5	NA	NA	NA	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0010	<0.0010	NS (ND)	NS (ND)	<0.0020
MW-6	NA	NA	NA	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	NS (ND)	0.012	0.035	0.065	0.016	0.014	0.037	0.032	0.023
MW-7	NA	NA	NA	1.2	2.4	4.5	2.2	2.7	0.29	0.96	3.2	0.54	0.85	3.2	0.76	0.62	0.16	0.047
MW-8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0020	<0.0010	<0.0010	<0.0020	<0.0020	<0.0020
MW-9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0020	<0.0010	<0.0010	<0.0020	<0.0020	<0.0020
MW-10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0020	<0.0010	<0.0010	NS (ND)	NS (ND)	<0.0020
MW-11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0020	<0.0010	<0.0010	NS (ND)	NS (ND)	<0.0020
MW-12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0020	<0.0010	<0.0010	NS (ND)	NS (ND)	<0.0020
MW-13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0059	0.0041	0.0035	<0.0020	<0.0020	<0.0020
MW-15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0037	<0.0010	<0.0010	NS (ND)	NS (ND)	0.010
DW-1	<0.20	0.74	1.7	0.013	0.82	1.2	0.77	0.70	0.52	0.31	0.29	0.15	0.14	0.11	0.18	0.11	0.051	0.019
RW-1	1.0	1.7	0.64	1.4	0.79	0.87	0.82	0.80	0.46	1.8	0.88	1.3	0.19	1.2	0.68	0.61	0.35	NS (0.35)
RW-2	0.010	0.044	0.0077	0.015	0.031	0.021	0.029	0.023	<0.0020	0.0067	0.022	0.018	0.022	0.0065	0.014	0.0088	<0.0020	NS (ND)

Notes:

All concentrations in mg/l

NA: Well not installed.

<5.00: Analyte not detected.

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS: Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

 Non-Sampled well assumed non-detect

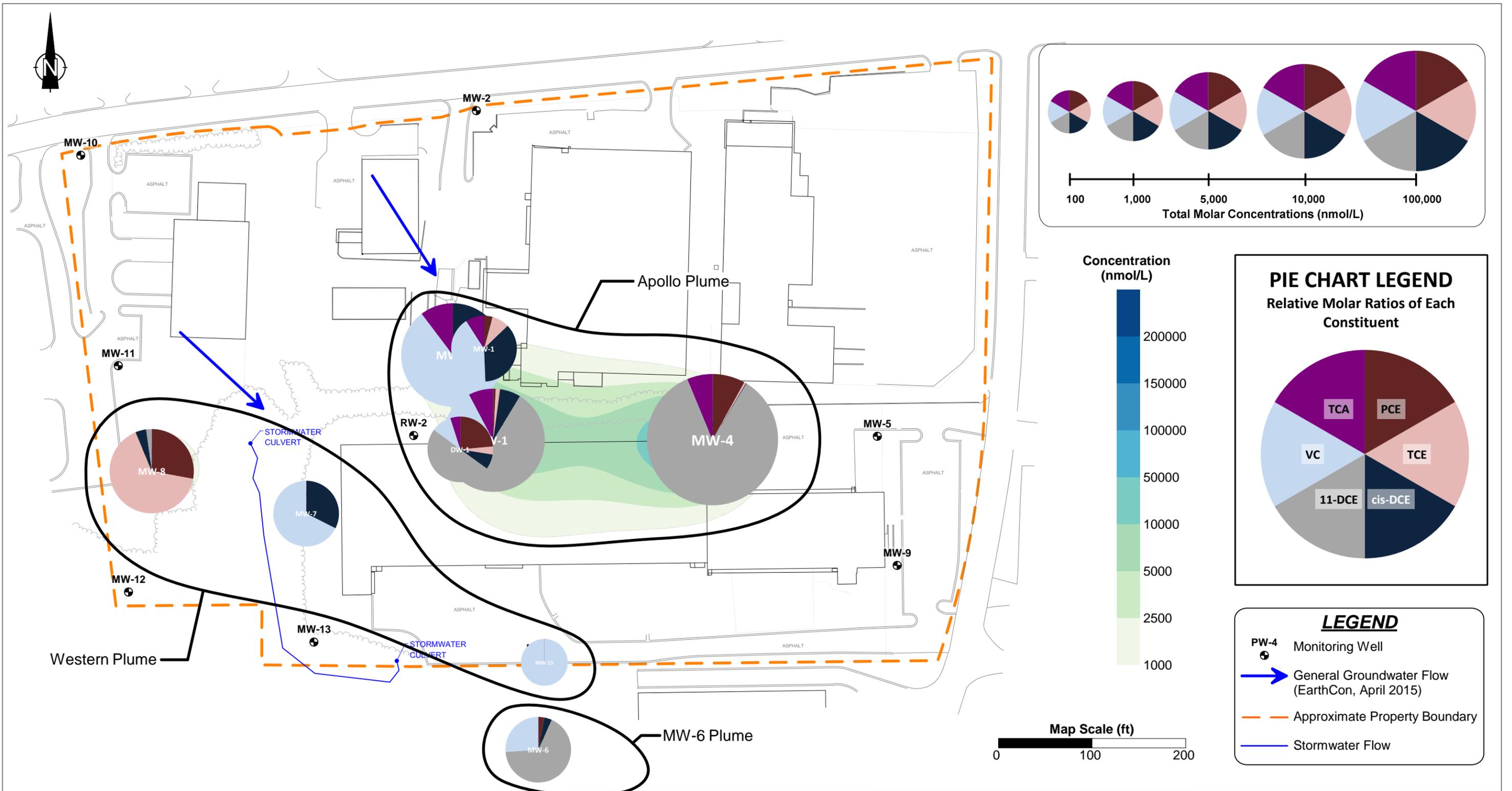
 Interpolated between two sampling events.

 Extrapolated from a sampling event.

MW-1 December 2005 to July 2006 was interpolated using prior historical data.

RW-1 and RW-2 were not sampled in April 2015. Results from the January 2015 sampling event were used for analysis.

FIGURES



Base Map Source: Terramark Land Surveying, Inc. (6/5/2012)

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Apollo Industries, Inc.
 1850 South Cobb Industrial Blvd.
 HSI Site Number 10333

Project Number: 02.20140391.00



1880 West Oak Parkway, Bldg. 100 Suite 106
 Marietta, Georgia 30062

**Total CVOC
 Molar Analysis
 April 2015**

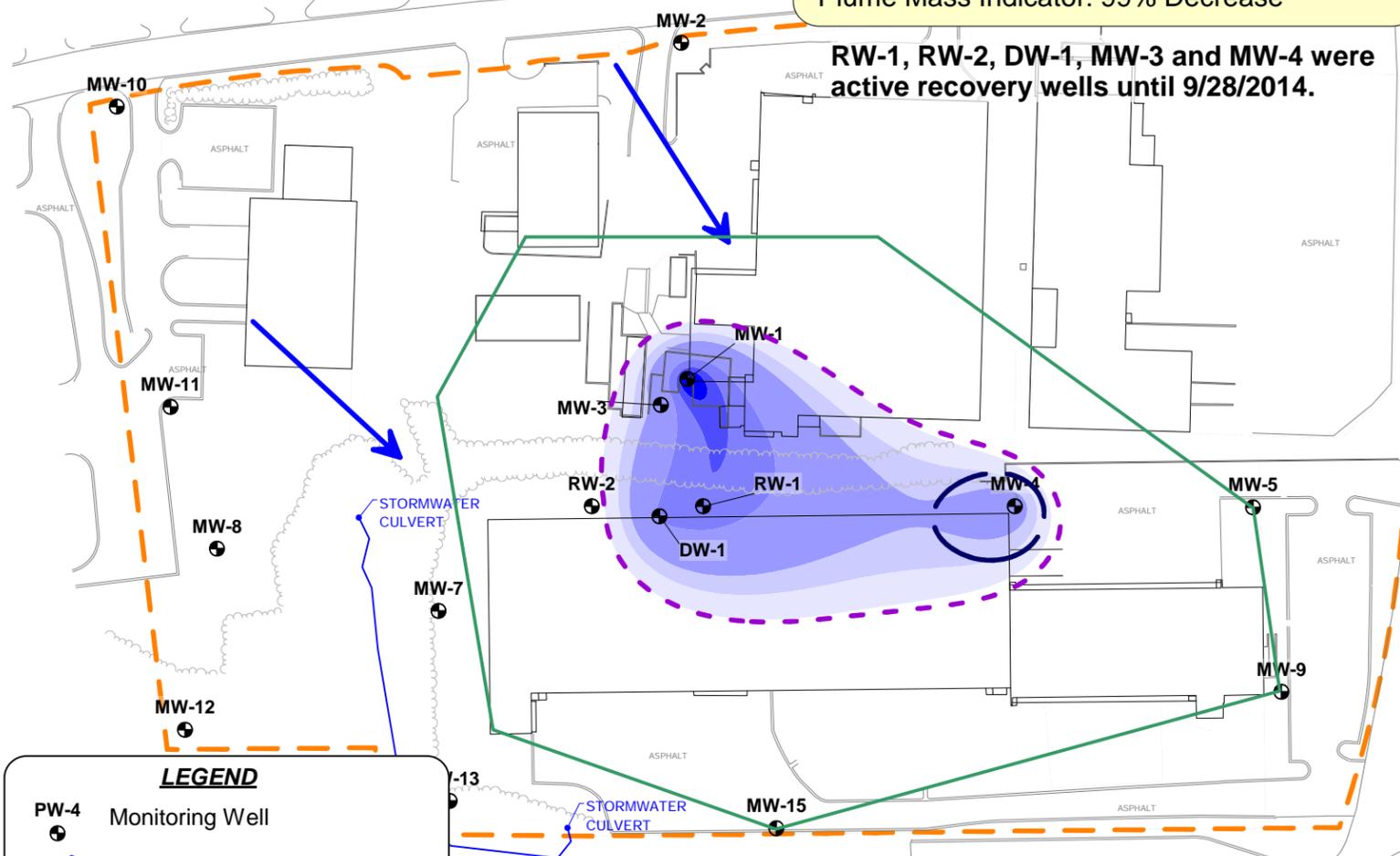
Prepared by: SSW Checked by: DW Figure: 1



Apollo Plume Difference Map (January 2005 vs. April 2015)

Plume Difference Characteristics:
Plume Area: 92% Decrease
Plume Average Concentration: 85% Decrease
Plume Mass Indicator: 99% Decrease

RW-1, RW-2, DW-1, MW-3 and MW-4 were active recovery wells until 9/28/2014.



LEGEND

- MW-4 Monitoring Well
- General Groundwater Flow (EarthCon, April 2015)
- Approximate Property Boundary
- Stormwater Flow
- Apollo Plume Window

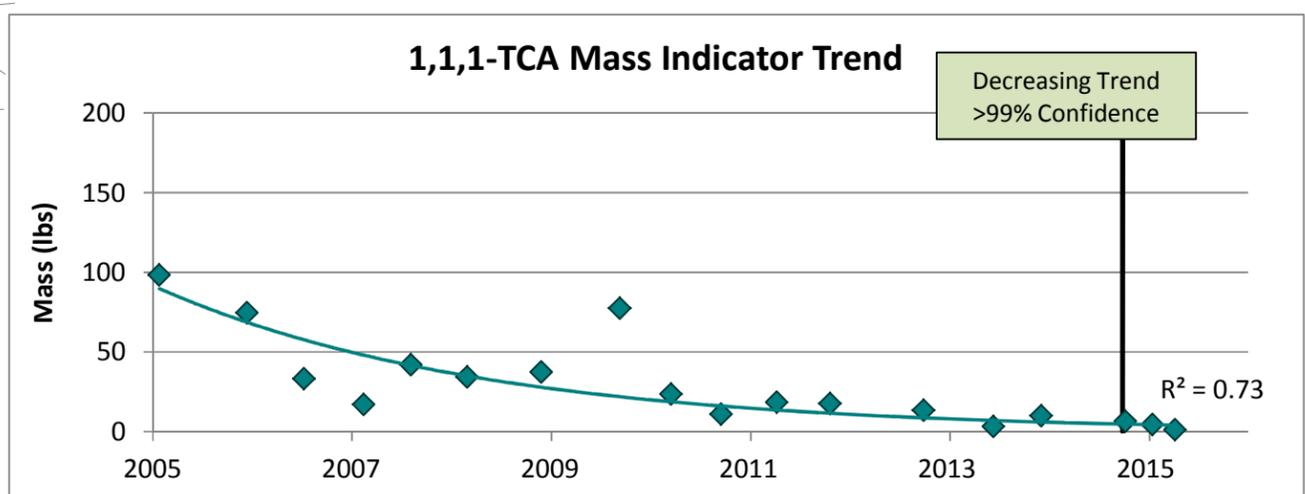
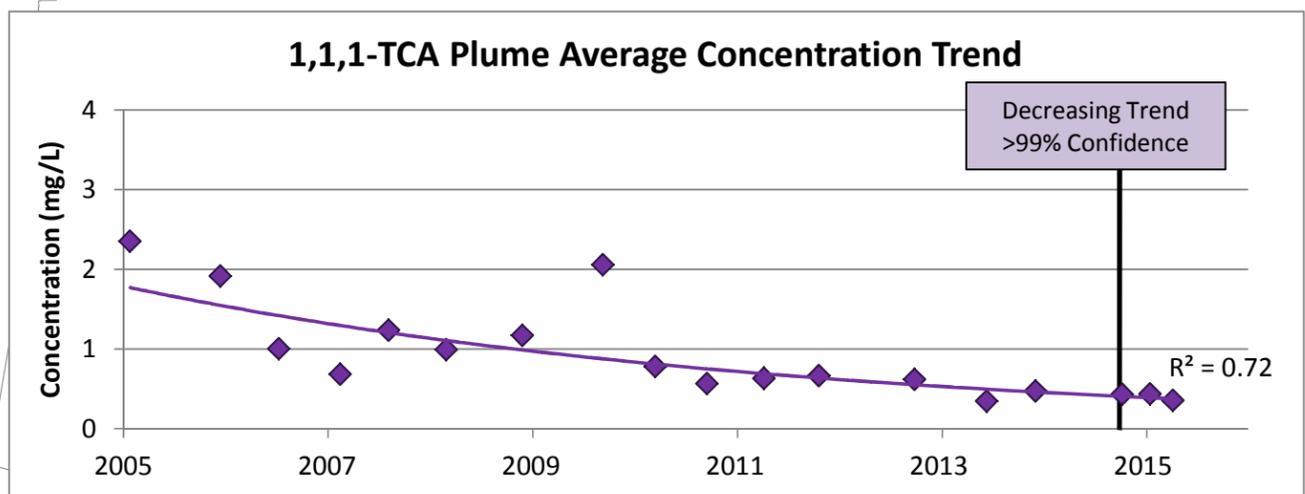
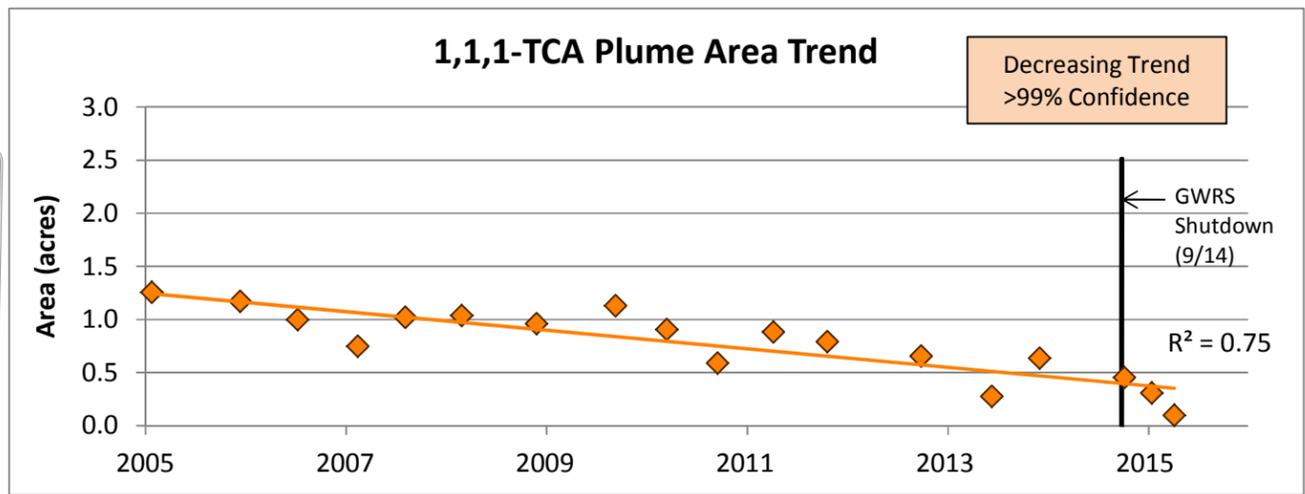
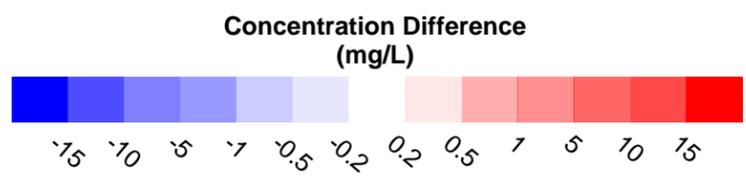
EXPLANATION

BLUE SHADING INDICATES AREAS OF CONCENTRATION DECREASE
RED SHADING INDICATES AREAS OF CONCENTRATION INCREASE

- January 2005 Plume Boundary
- April 2015 Plume Boundary

Base Map Source: Terramark Land Surveying, Inc. (6/5/2012)

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Apollo Industries, Inc.
1850 South Cobb Industrial Blvd.
HSI Site Number 10333

Project Number: 02.20140391.00

EARTHCON

1880 West Oak Parkway, Bldg. 100 Suite 106
Marietta, Georgia 30062

**1,1,1-Trichloroethane (1,1,1-TCA)
Plume Stability Analysis
Summary**

Prepared by: SSW Checked by: DW Figure: 2

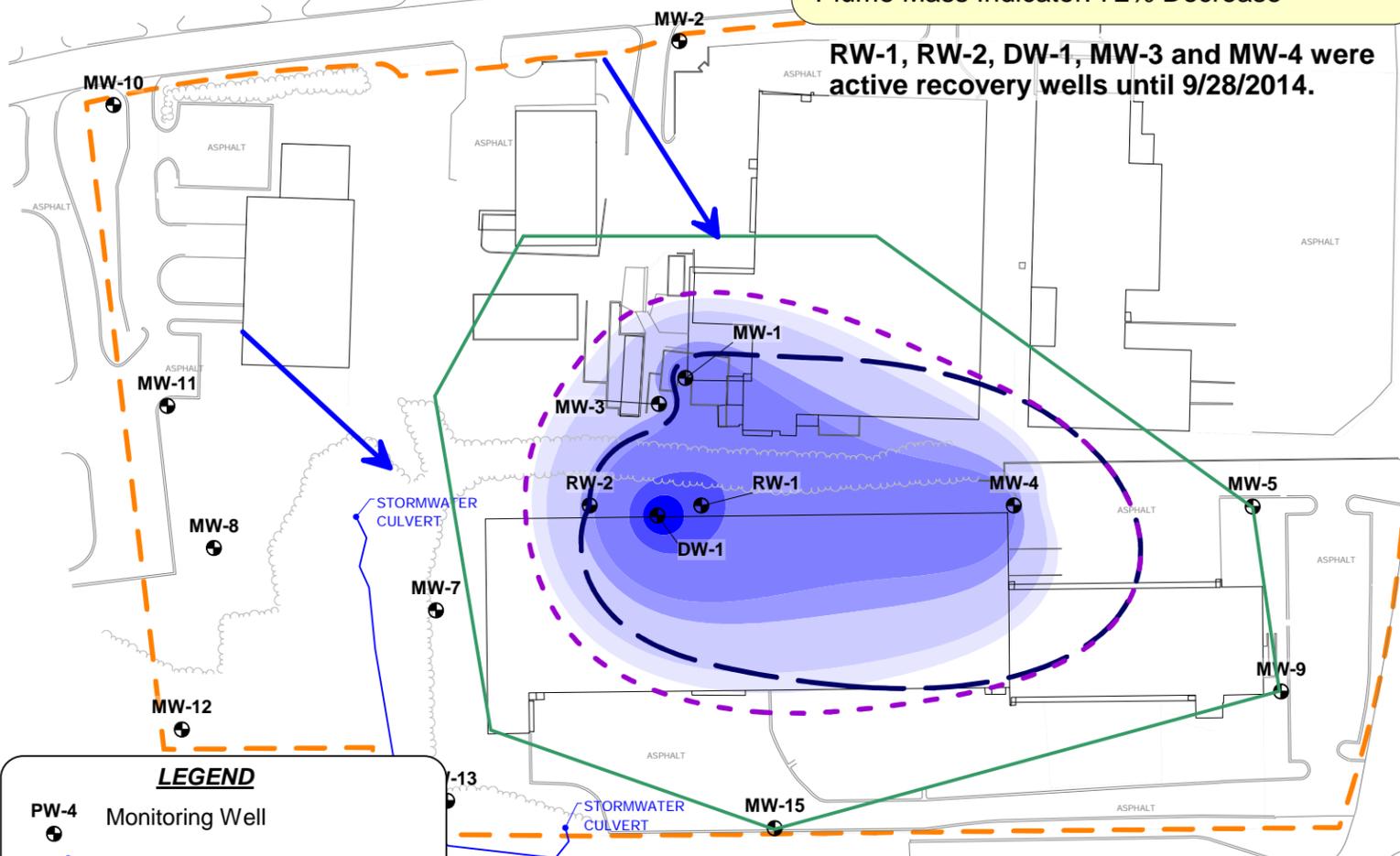


Apollo Plume Difference Map (January 2005 vs. April 2015)

Plume Difference Characteristics:

Plume Area: 25% Decrease
 Plume Average Concentration: 62% Decrease
 Plume Mass Indicator: 72% Decrease

RW-1, RW-2, DW-1, MW-3 and MW-4 were active recovery wells until 9/28/2014.



LEGEND

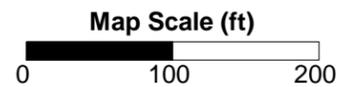
- Monitoring Well
- General Groundwater Flow (EarthCon, April 2015)
- Approximate Property Boundary
- Stormwater Flow
- Apollo Plume Window

EXPLANATION

- BLUE SHADING INDICATES AREAS OF CONCENTRATION DECREASE
- RED SHADING INDICATES AREAS OF CONCENTRATION INCREASE
- January 2005 Plume Boundary
- April 2015 Plume Boundary

Base Map Source: Terramark Land Surveying, Inc. (6/5/2012)

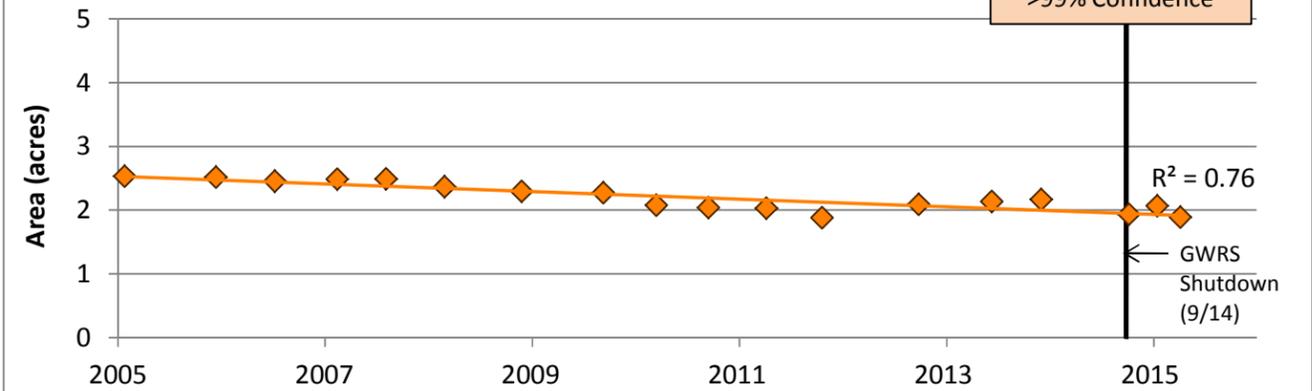
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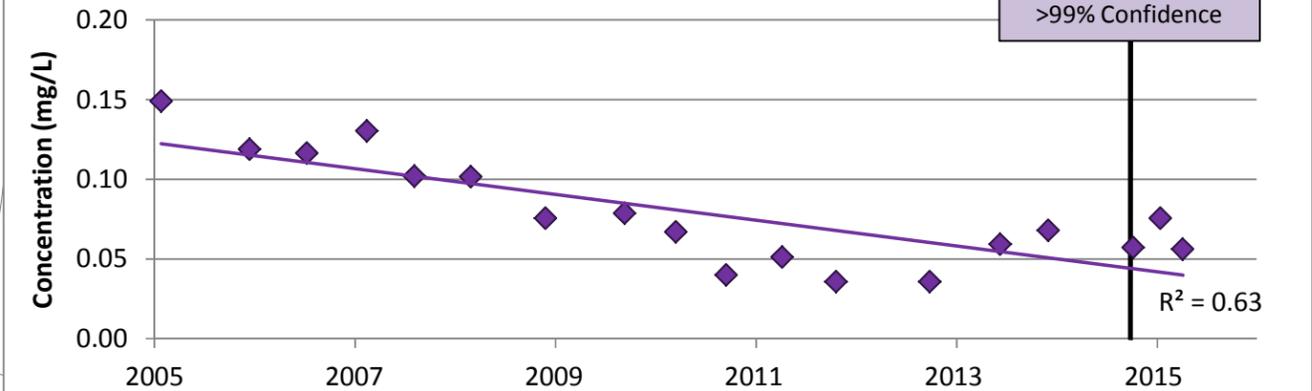
Concentration Difference (mg/L)



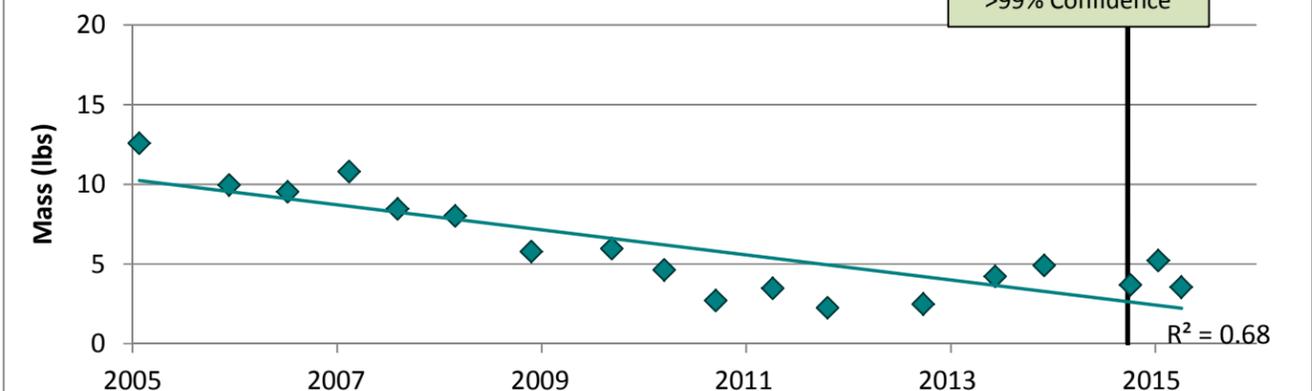
PCE Plume Area Trend



PCE Plume Average Concentration Trend



PCE Mass Indicator Trend



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Project Number: 02.20140391.00



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Tetrachloroethene (PCE) Plume Stability Analysis Summary

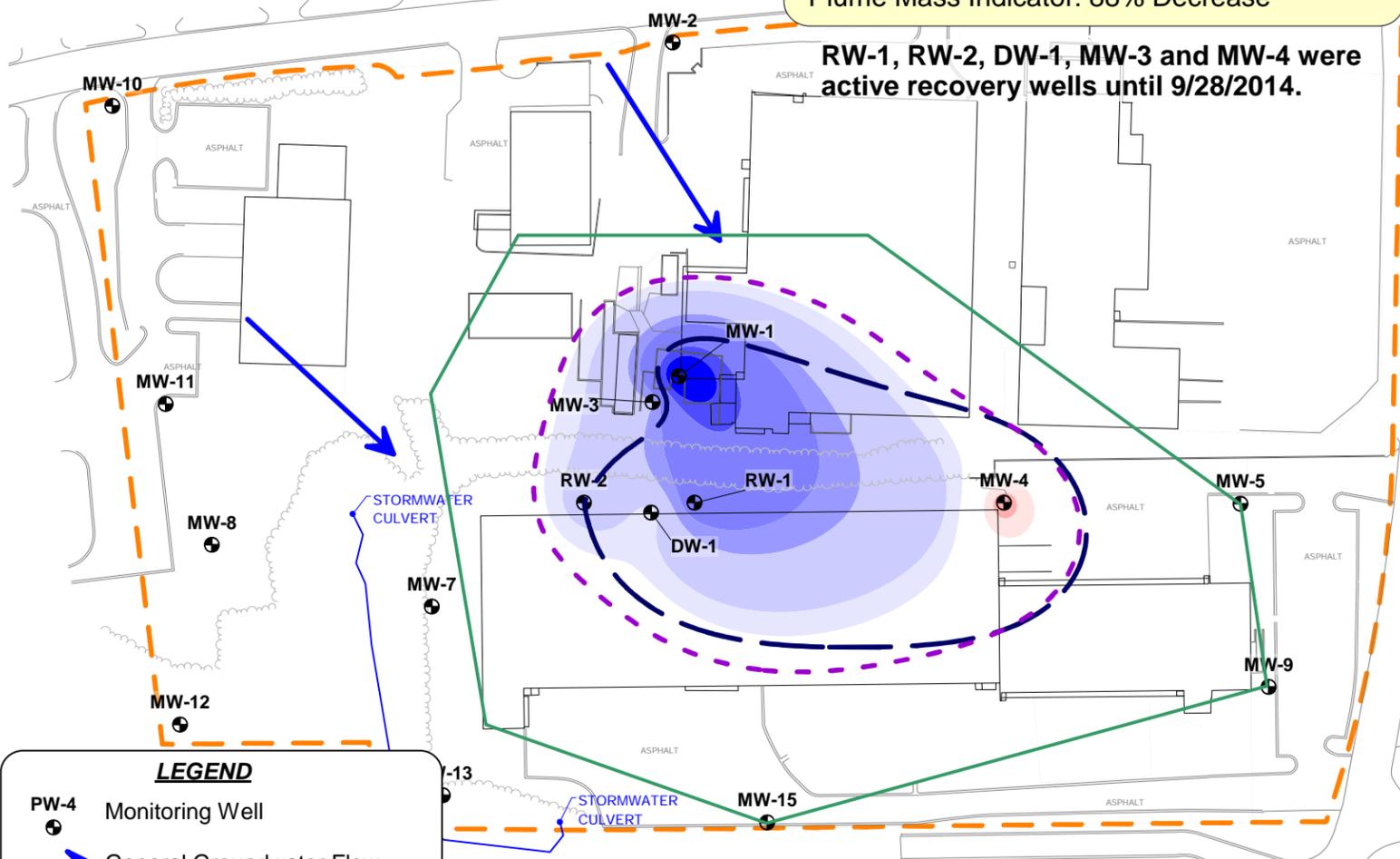
Prepared by: SSW Checked by: DW Figure: 3



Apollo Plume Difference Map (January 2005 vs. April 2015)

Plume Difference Characteristics:
Plume Area: 29% Decrease
Plume Average Concentration: 84% Decrease
Plume Mass Indicator: 88% Decrease

RW-1, RW-2, DW-1, MW-3 and MW-4 were active recovery wells until 9/28/2014.

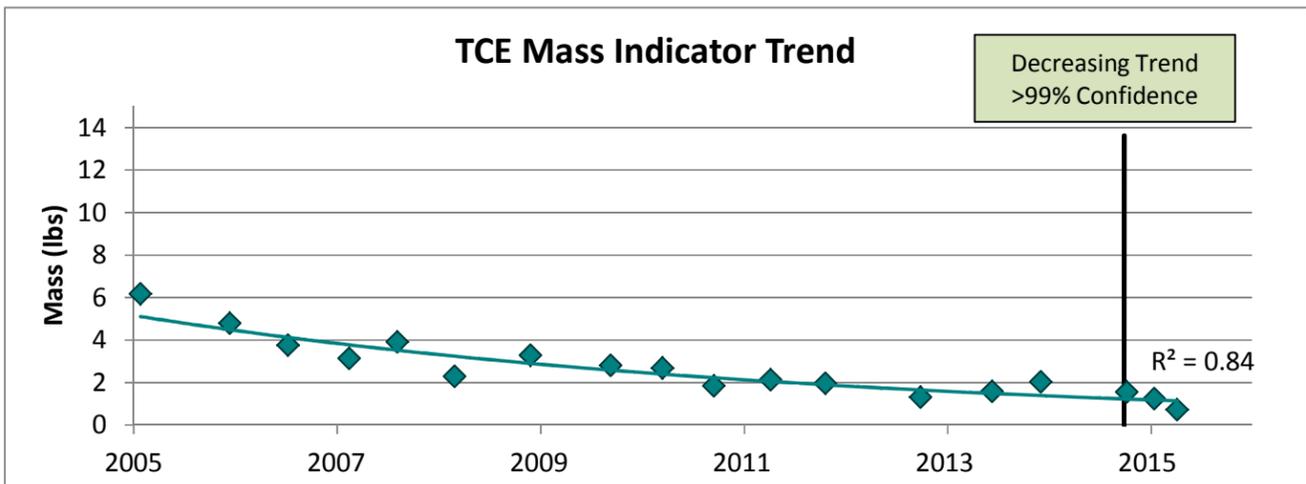
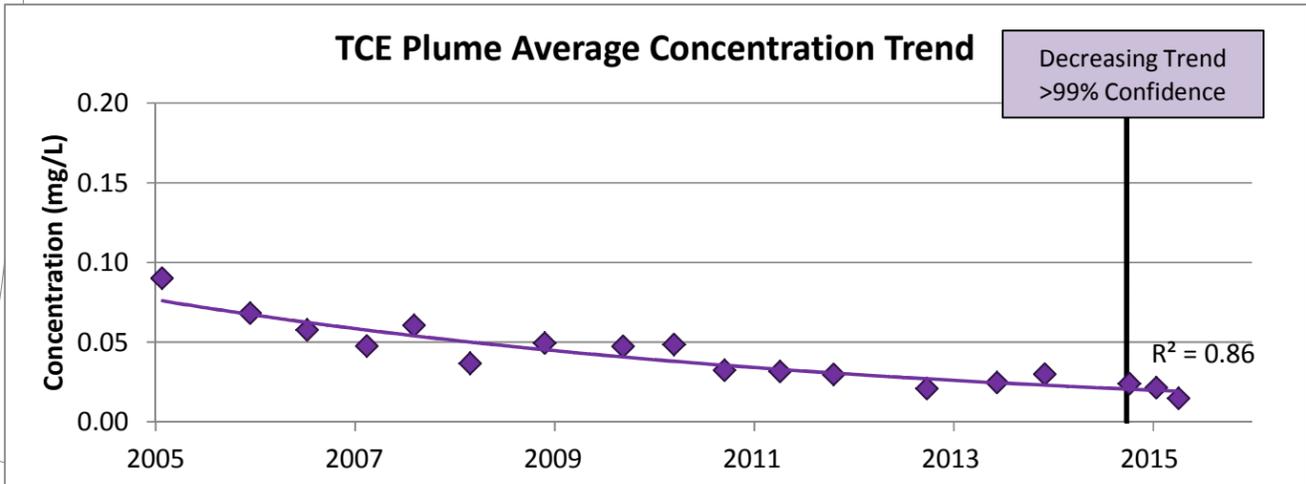
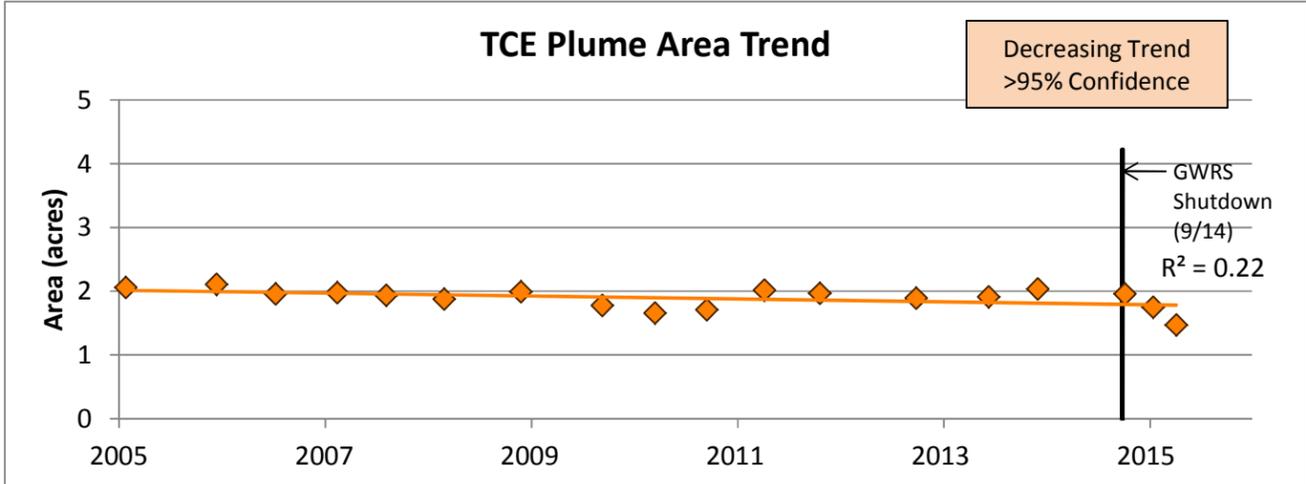
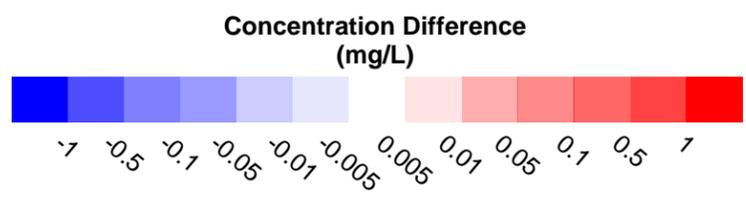


LEGEND

- MW-4 Monitoring Well
- Blue arrow: General Groundwater Flow (EarthCon, April 2015)
- Orange dashed line: Approximate Property Boundary
- Blue line: Stormwater Flow
- Green line: Apollo Plume Window

EXPLANATION

- BLUE SHADING INDICATES AREAS OF CONCENTRATION DECREASE
- RED SHADING INDICATES AREAS OF CONCENTRATION INCREASE
- January 2005 Plume Boundary
- April 2015 Plume Boundary



Base Map Source: Terramark Land Surveying, Inc. (6/5/2012)

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Trichloroethene (TCE) Plume Stability Analysis Summary

Prepared by: SSW Checked by: DW Figure: 4

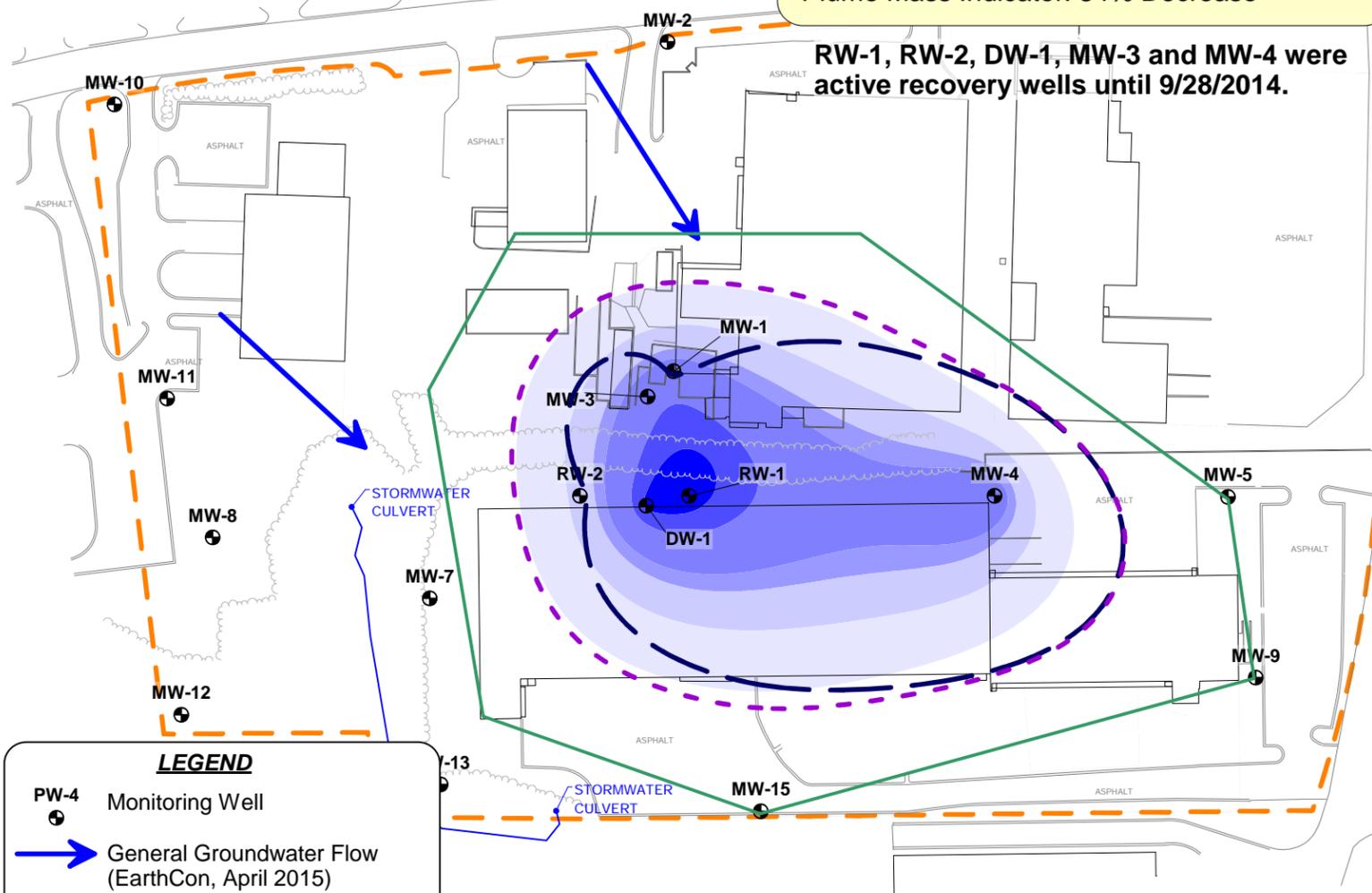


Apollo Plume Difference Map (January 2005 vs. April 2015)

Plume Difference Characteristics:

Plume Area: 23% Decrease
 Plume Average Concentration: 79% Decrease
 Plume Mass Indicator: 84% Decrease

RW-1, RW-2, DW-1, MW-3 and MW-4 were active recovery wells until 9/28/2014.



LEGEND

- PW-4 Monitoring Well
- General Groundwater Flow (EarthCon, April 2015)
- Approximate Property Boundary
- Stormwater Flow
- Apollo Plume Window

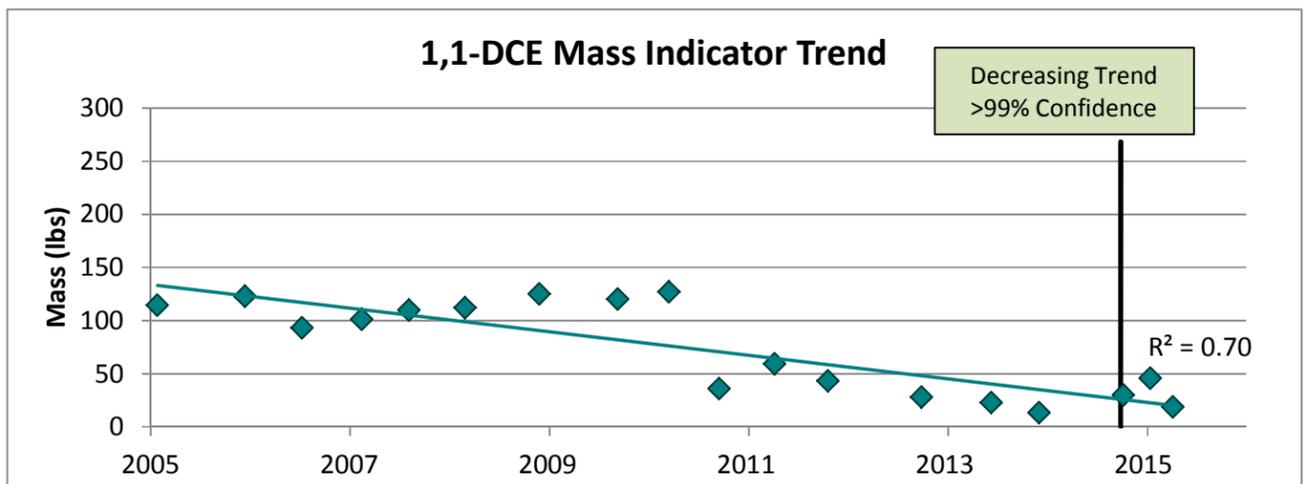
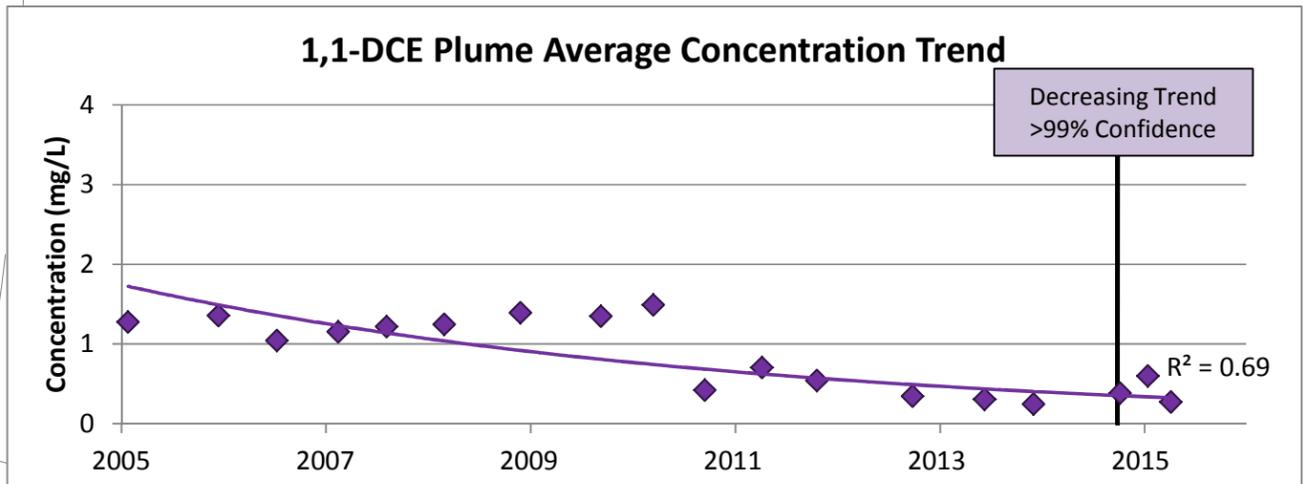
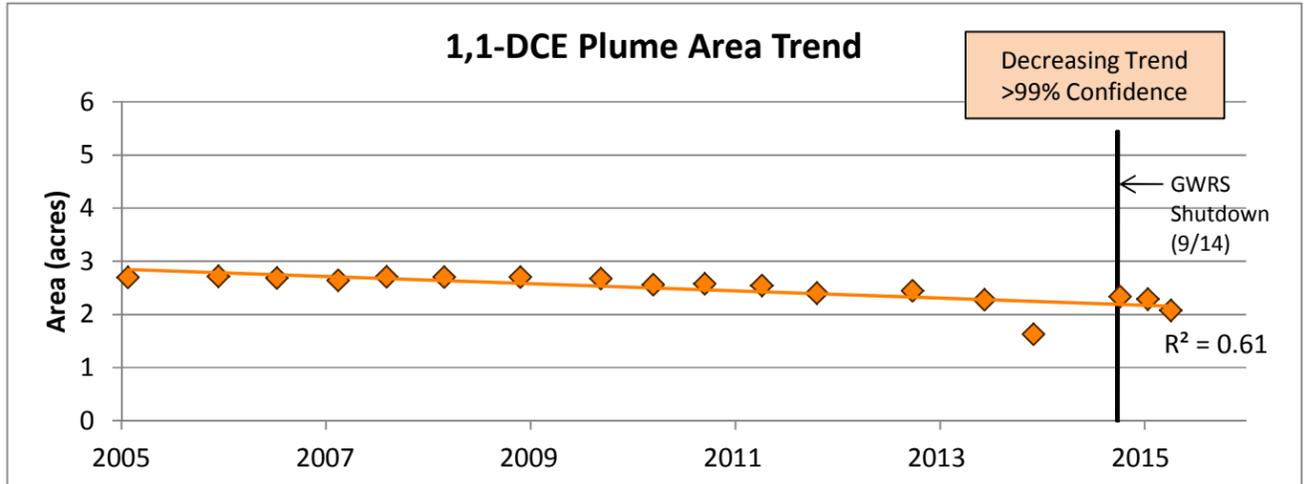
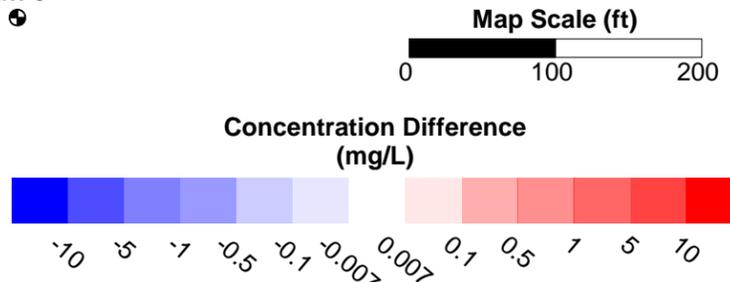
EXPLANATION

BLUE SHADING INDICATES AREAS OF CONCENTRATION DECREASE
 RED SHADING INDICATES AREAS OF CONCENTRATION INCREASE

- January 2005 Plume Boundary
- April 2015 Plume Boundary

Base Map Source: Terramark Land Surveying, Inc. (6/5/2012)

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**1,1-Dichloroethene (1,1-DCE)
 Plume Stability Analysis
 Summary**

Prepared by: SSW Checked by: DW Figure: 5

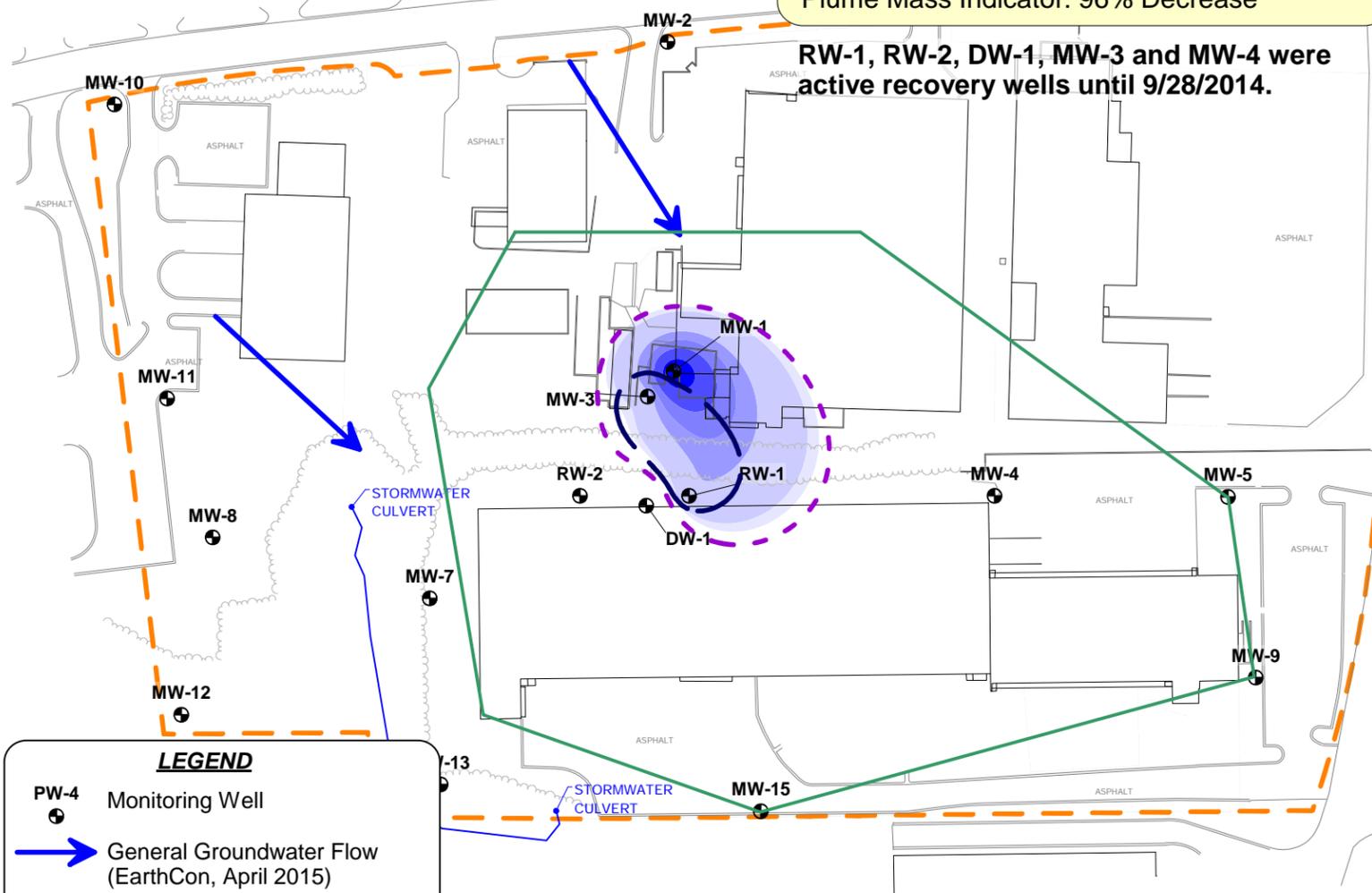


Apollo Plume Difference Map (January 2005 vs. April 2015)

Plume Difference Characteristics:

Plume Area: 73% Decrease
 Plume Average Concentration: 84% Decrease
 Plume Mass Indicator: 96% Decrease

RW-1, RW-2, DW-1, MW-3 and MW-4 were active recovery wells until 9/28/2014.



LEGEND

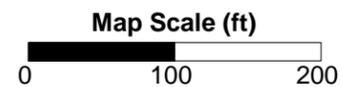
- Monitoring Well
- General Groundwater Flow (EarthCon, April 2015)
- Approximate Property Boundary
- Stormwater Flow
- Apollo Plume Window

EXPLANATION

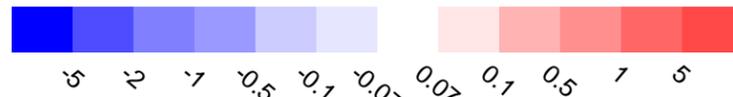
- BLUE SHADING INDICATES AREAS OF CONCENTRATION DECREASE
- RED SHADING INDICATES AREAS OF CONCENTRATION INCREASE
- January 2005 Plume Boundary
- April 2015 Plume Boundary

Base Map Source: Terramark Land Surveying, Inc. (6/5/2012)

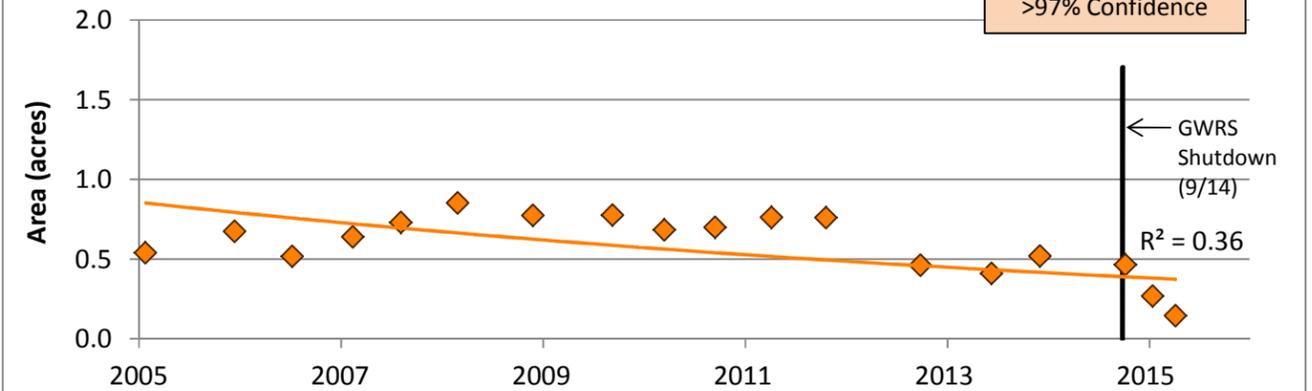
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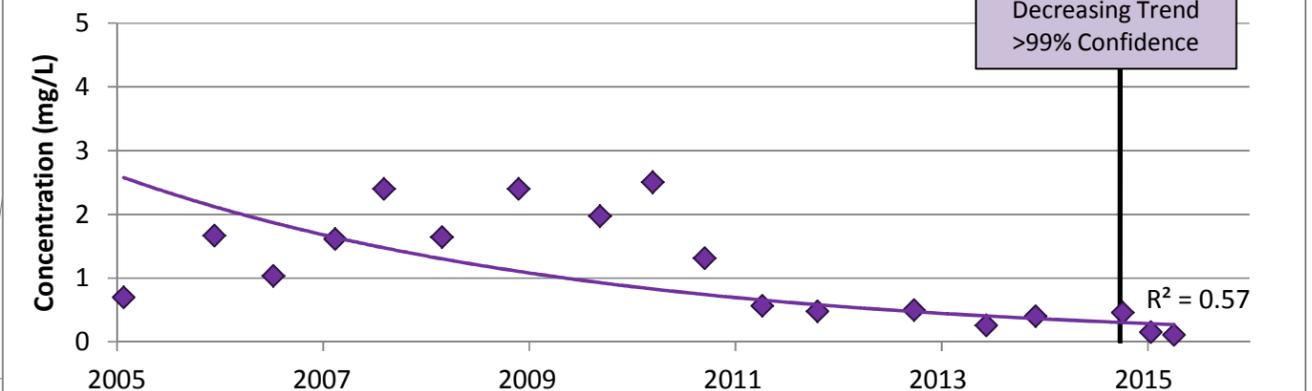
Concentration Difference (mg/L)



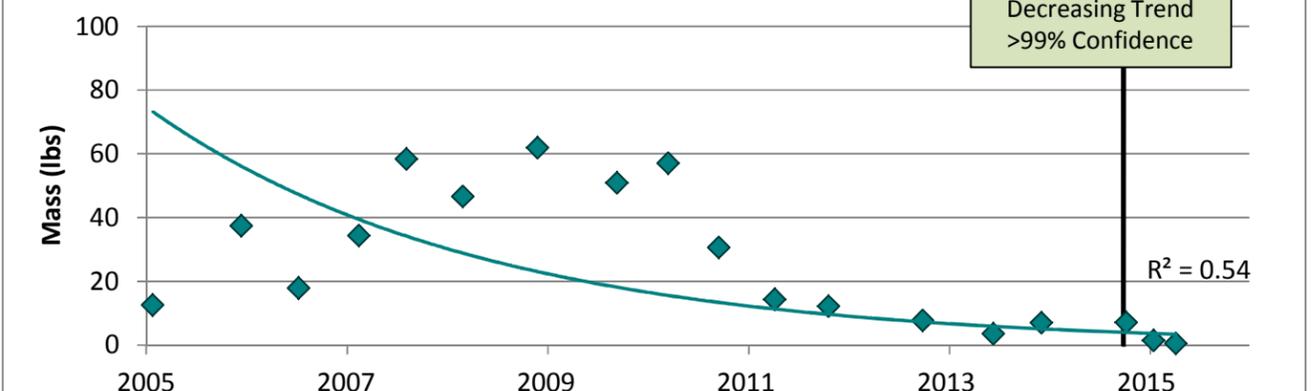
cis-1,2-DCE Plume Area Trend



cis-1,2-DCE Plume Average Concentration Trend



cis-1,2-DCE Mass Indicator Trend



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cis-1,2-Dichloroethene (cis-1,2-DCE) Plume Stability Analysis Summary

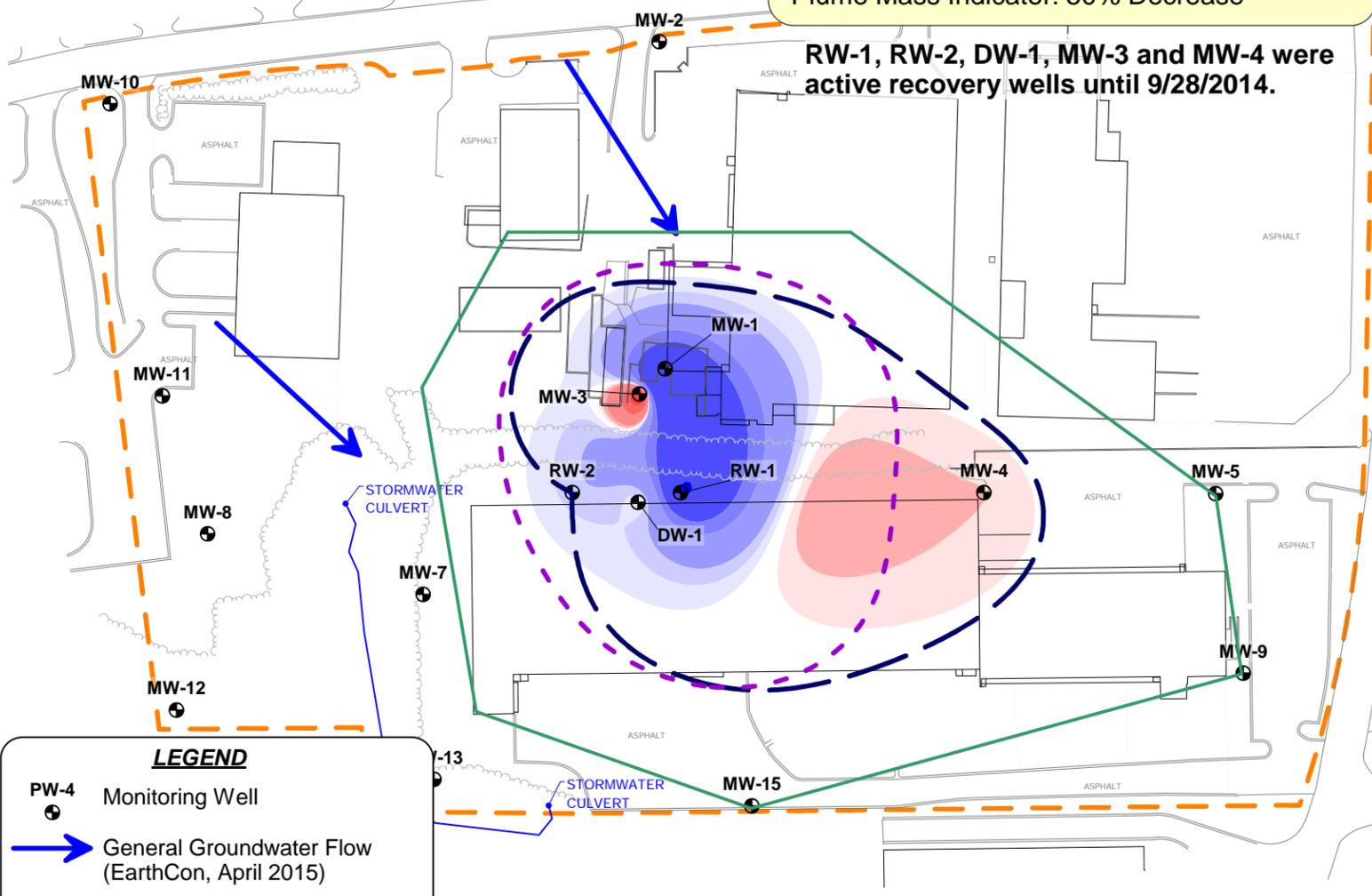
Prepared by: SSW Checked by: DW Figure: 6



Apollo Plume Difference Map (January 2005 vs. April 2015)

Plume Difference Characteristics:
 Plume Area: 15% Increase
 Plume Average Concentration: 56% Decrease
 Plume Mass Indicator: 50% Decrease

RW-1, RW-2, DW-1, MW-3 and MW-4 were active recovery wells until 9/28/2014.



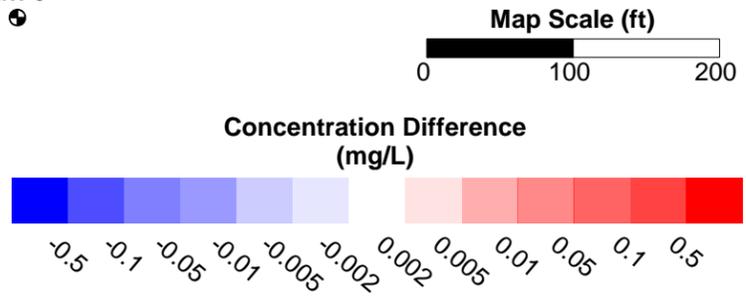
LEGEND

- MW-4 Monitoring Well
- General Groundwater Flow (EarthCon, April 2015)
- Approximate Property Boundary
- Stormwater Flow
- Apollo Plume Window

EXPLANATION

BLUE SHADING INDICATES AREAS OF CONCENTRATION DECREASE
 RED SHADING INDICATES AREAS OF CONCENTRATION INCREASE

- January 2005 Plume Boundary
- April 2015 Plume Boundary

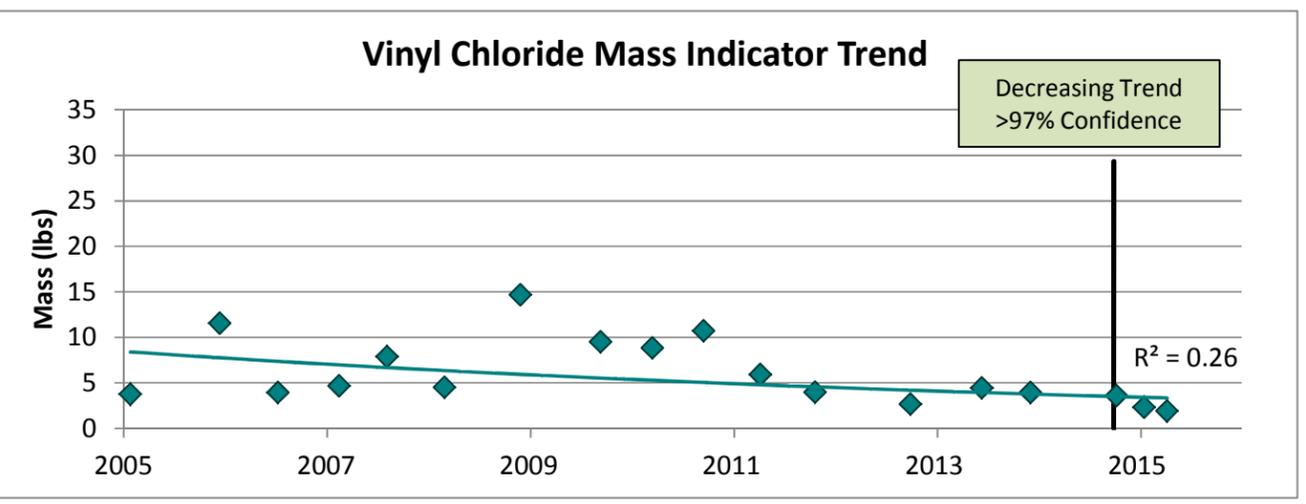
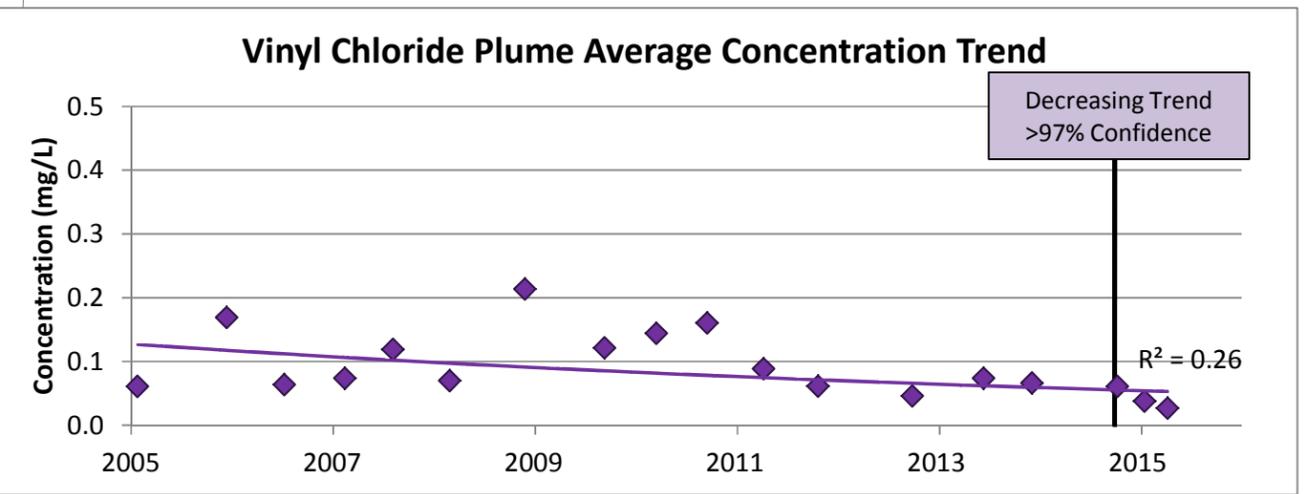
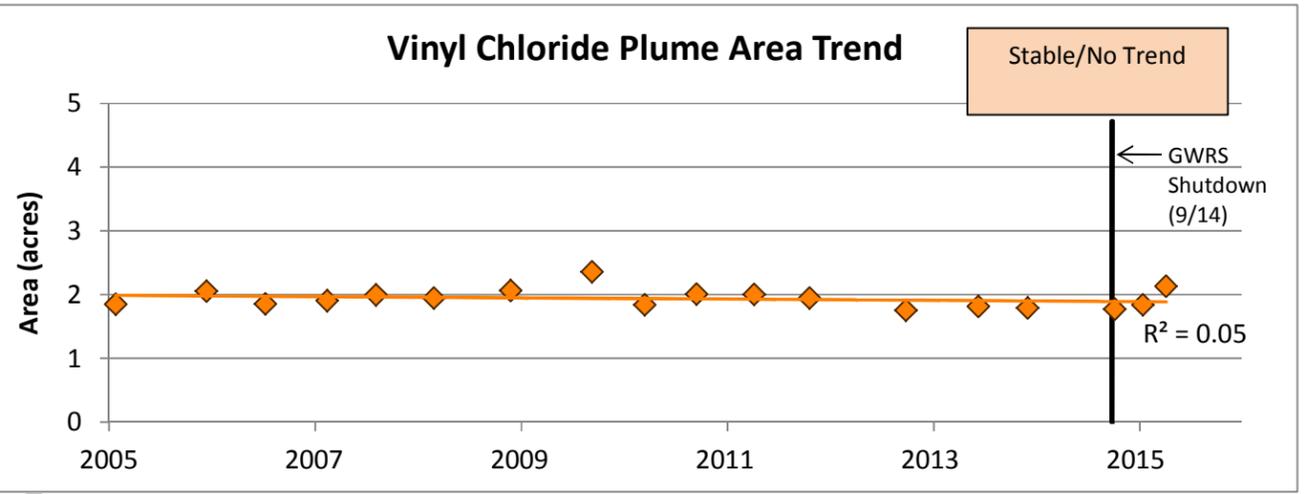


Base Map Source: Terramark Land Surveying, Inc. (6/5/2012)

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Vinyl Chloride (VC) Plume Stability Analysis Summary

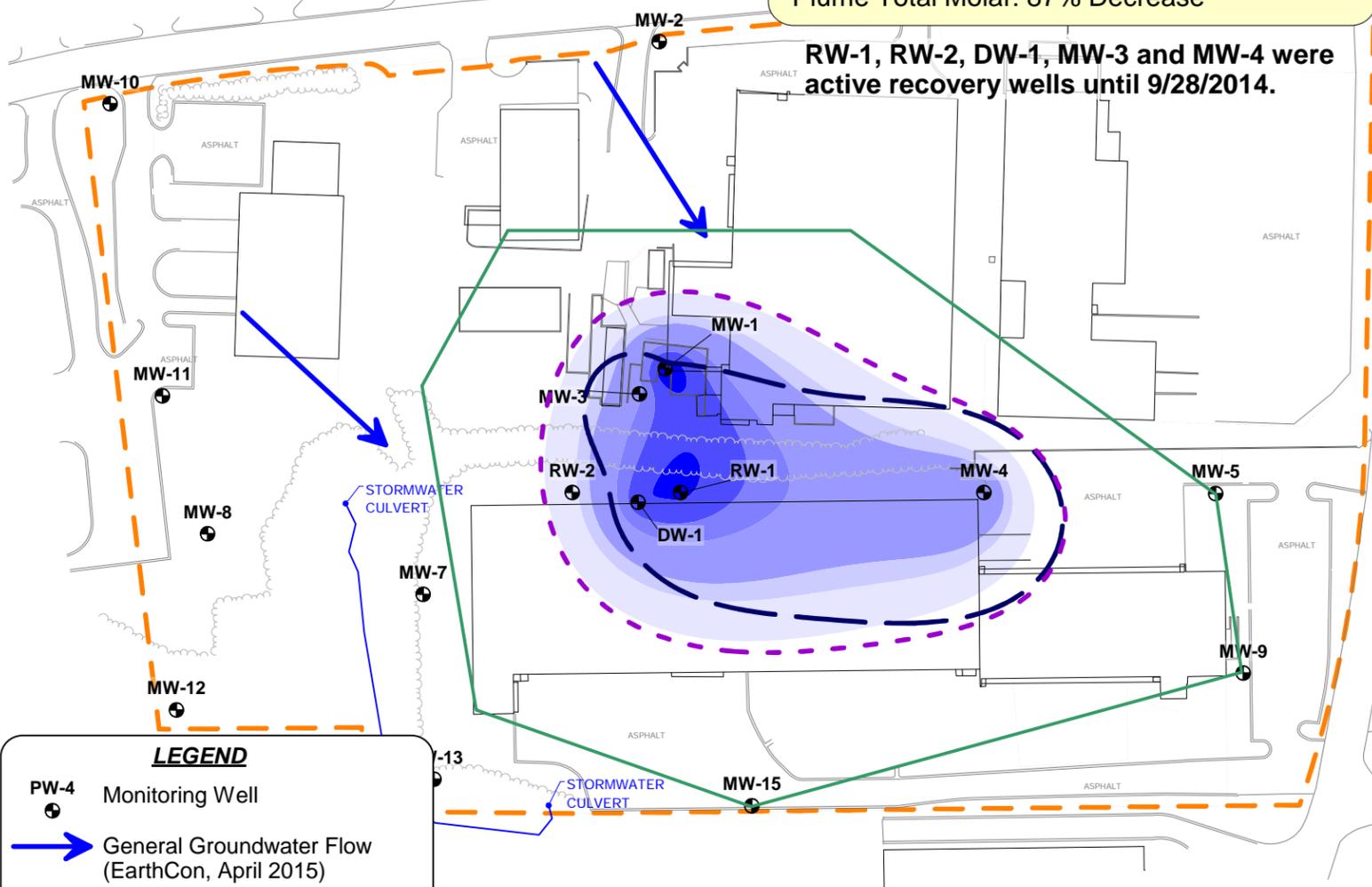
Prepared by: SSW Checked by: DW Figure: 7



Apollo Plume Difference Map (January 2005 vs. April 2015)

Plume Difference Characteristics:
Plume Area: 33% Decrease
Plume Average Concentration: 81% Decrease
Plume Total Molar: 87% Decrease

RW-1, RW-2, DW-1, MW-3 and MW-4 were active recovery wells until 9/28/2014.



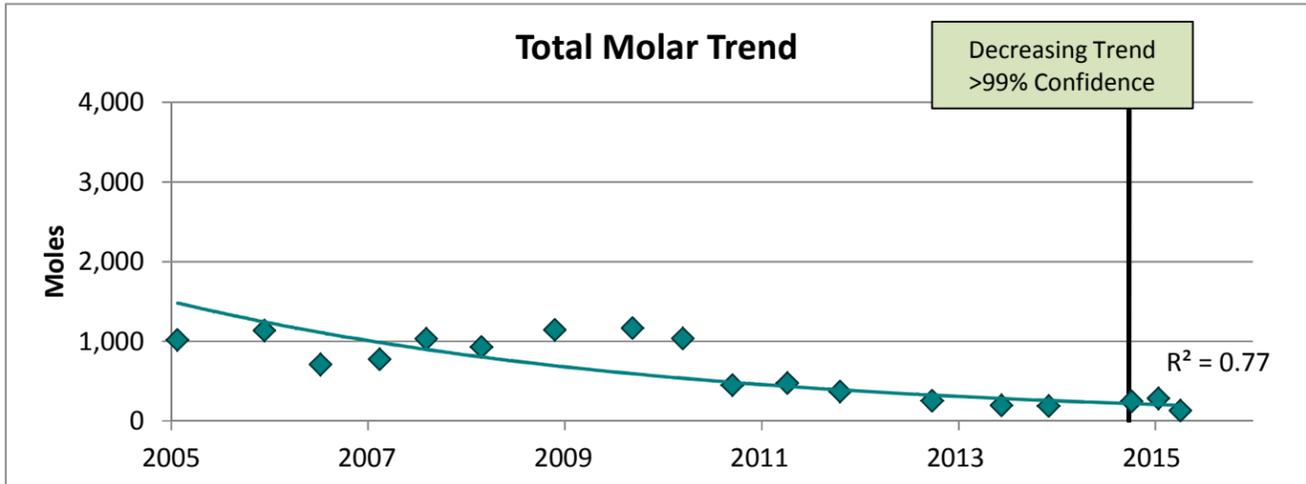
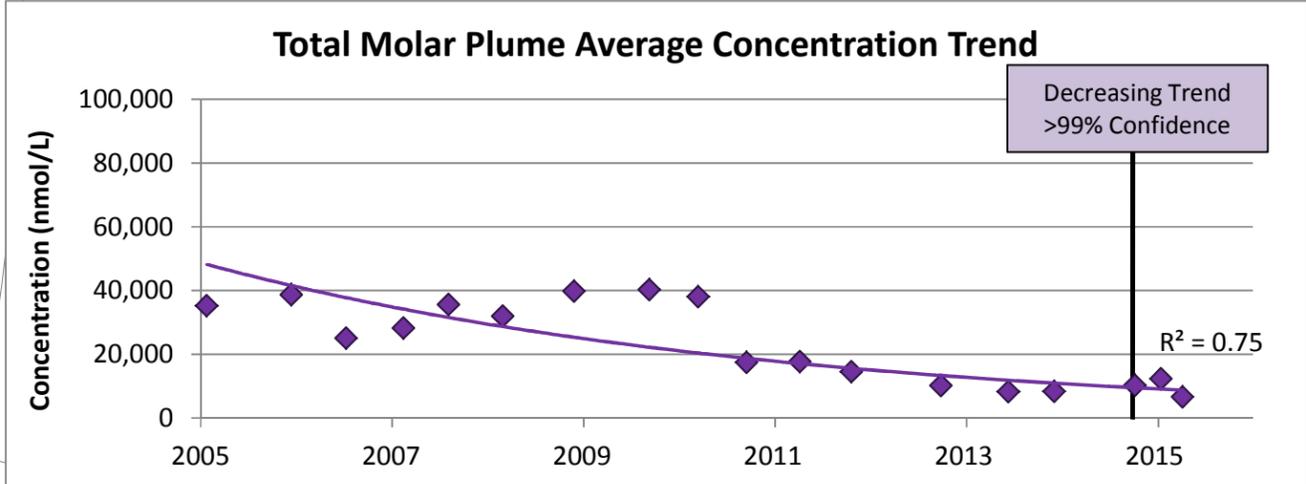
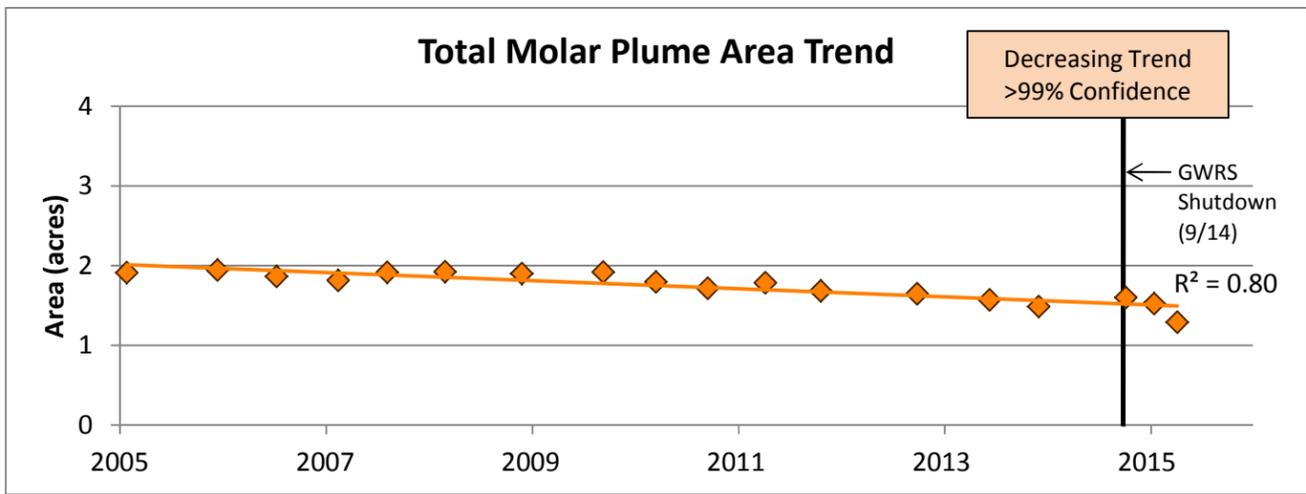
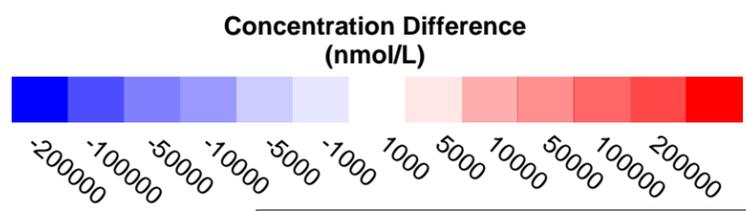
LEGEND

- MW-4 Monitoring Well
- General Groundwater Flow (EarthCon, April 2015)
- Approximate Property Boundary
- Stormwater Flow
- Apollo Plume Window

EXPLANATION

BLUE SHADING INDICATES AREAS OF CONCENTRATION DECREASE
RED SHADING INDICATES AREAS OF CONCENTRATION INCREASE

- January 2005 Plume Boundary
- April 2015 Plume Boundary



Base Map Source: Terramark Land Surveying, Inc. (6/5/2012)

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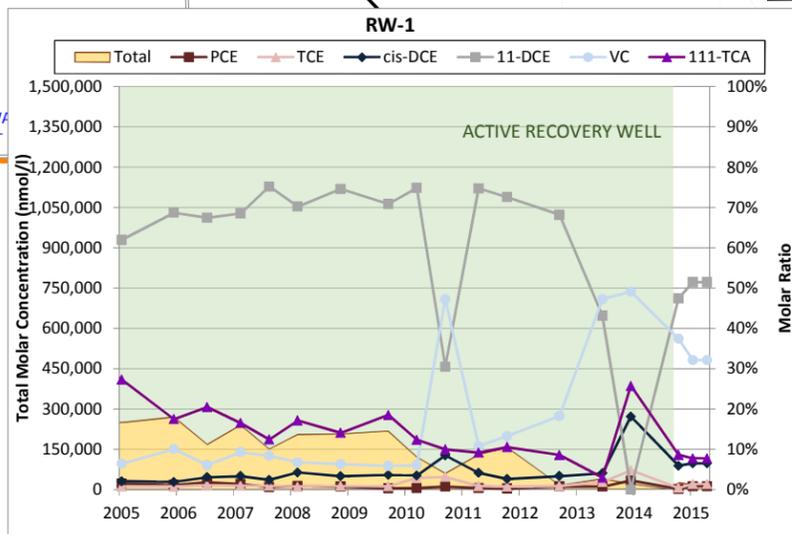
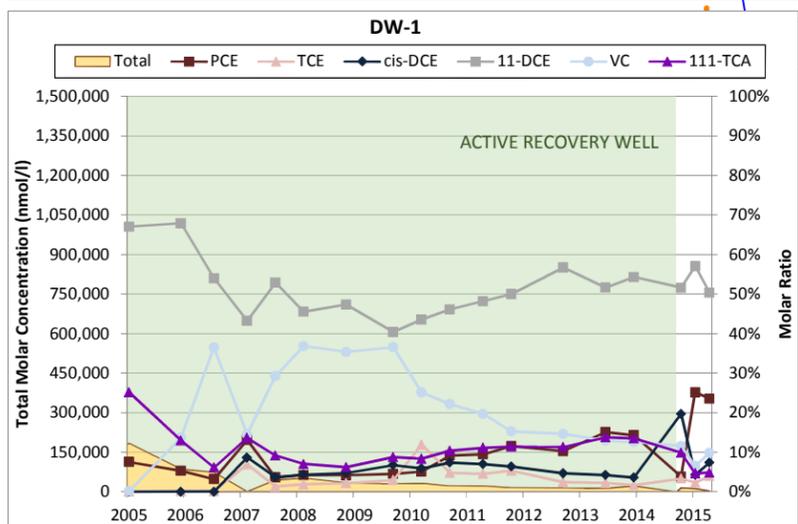
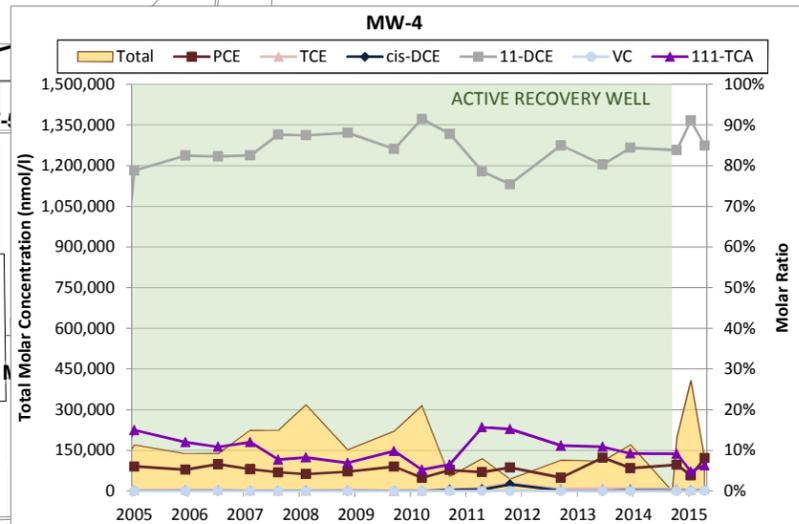
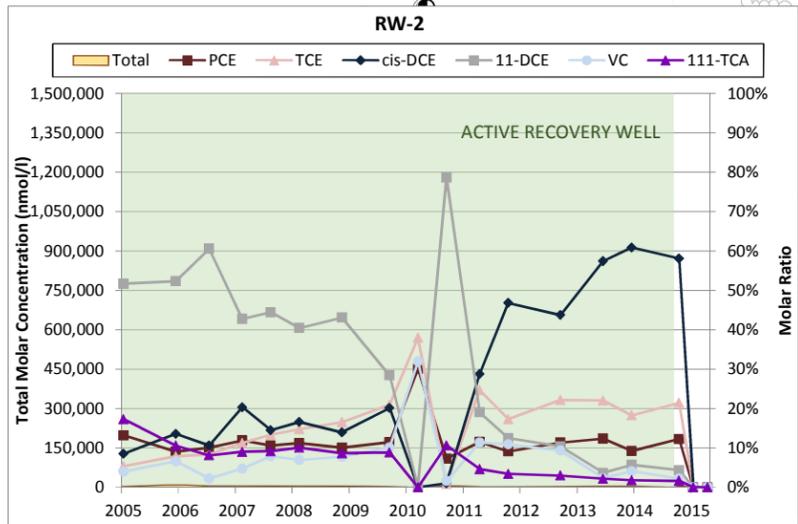
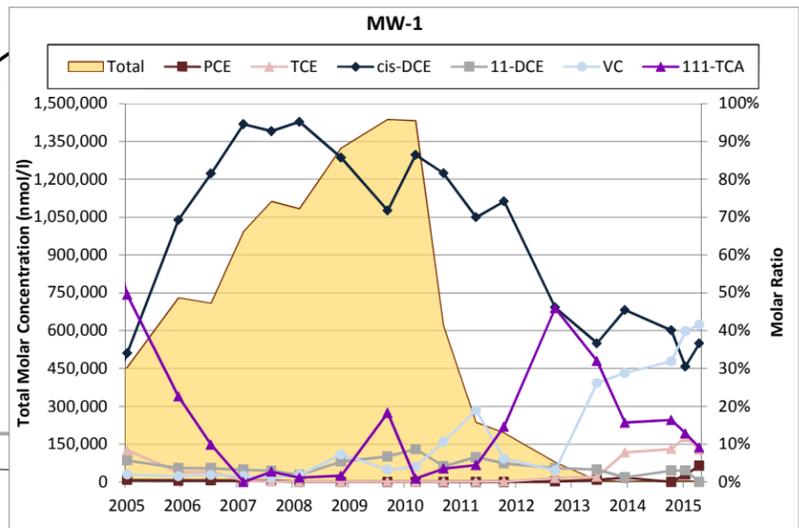
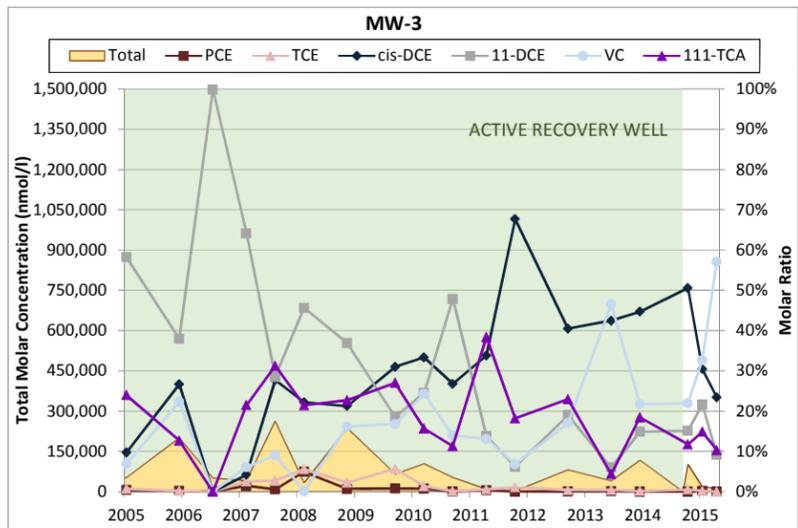


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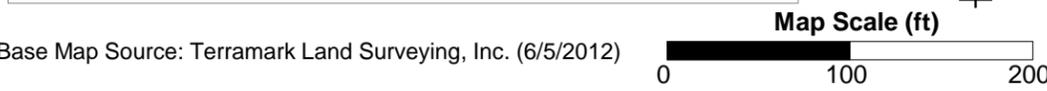
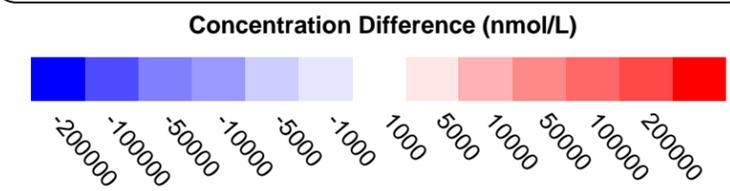
Total CVOC Plume Stability Analysis Summary

Prepared by: SSW Checked by: DW Figure: 8

Apollo Plume Difference Map (January 2005 vs. April 2015)



EXPLANATION
 BLUE SHADING INDICATES AREAS OF CONCENTRATION DECREASE
 RED SHADING INDICATES AREAS OF CONCENTRATION INCREASE
 - - - - - January 2005 Plume Boundary
 - - - - - April 2015 Plume Boundary



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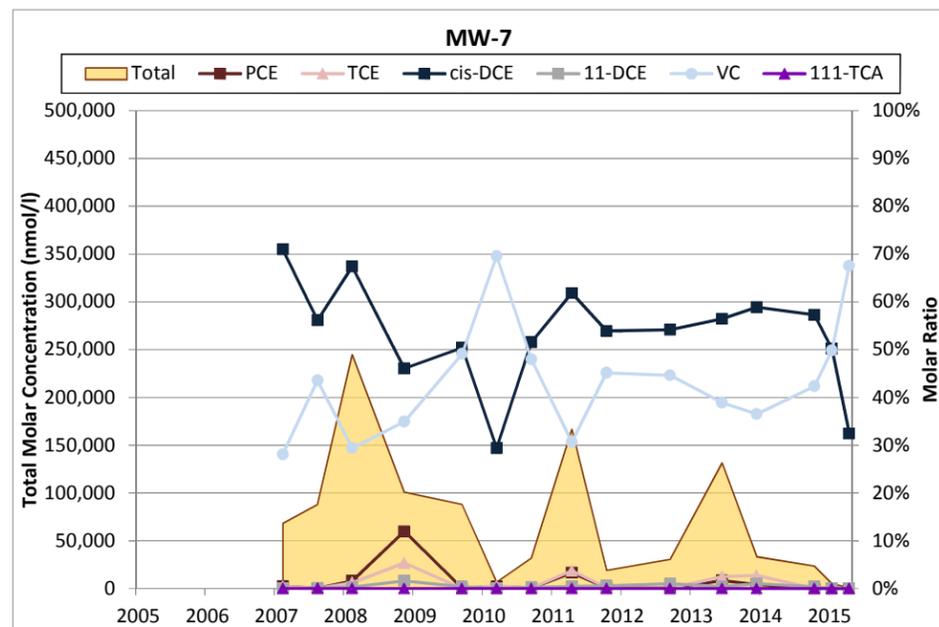
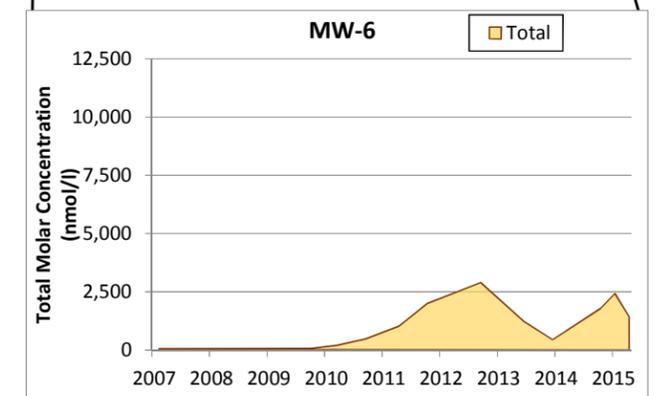
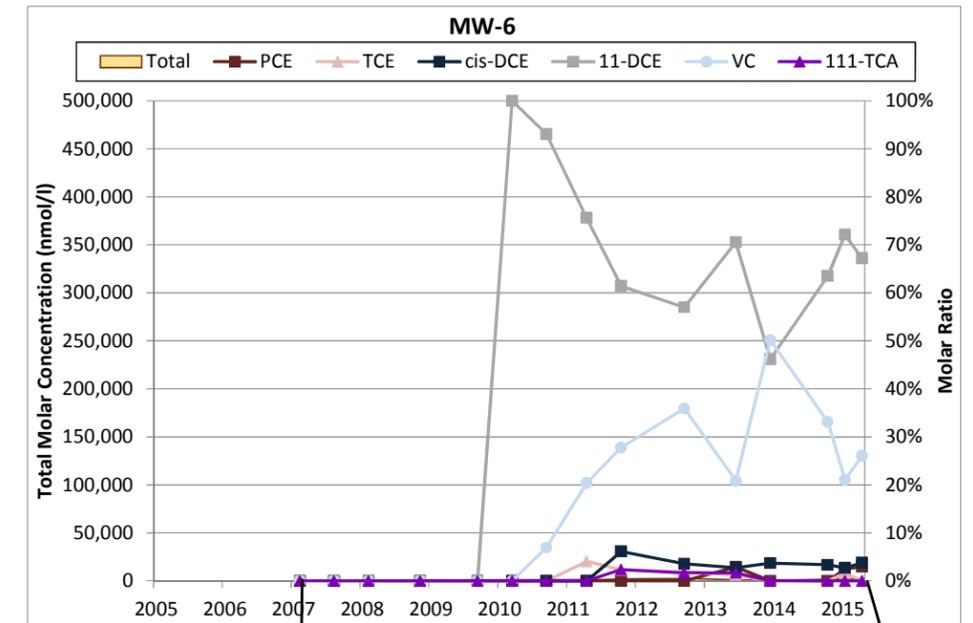
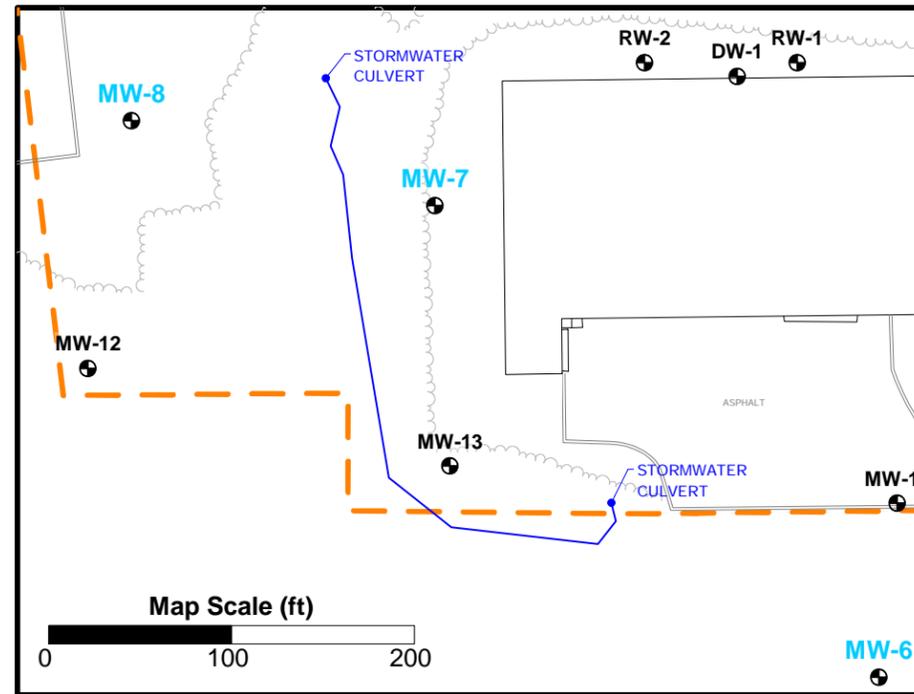
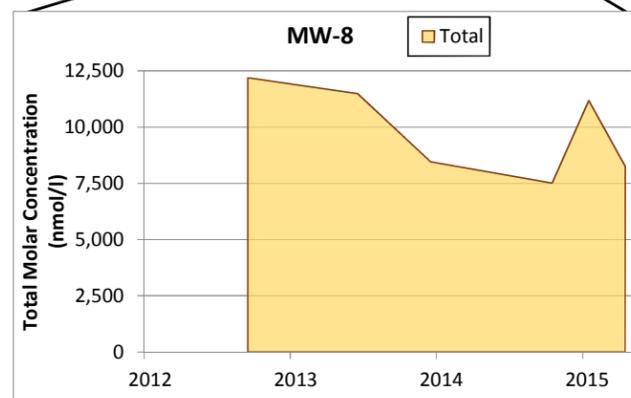
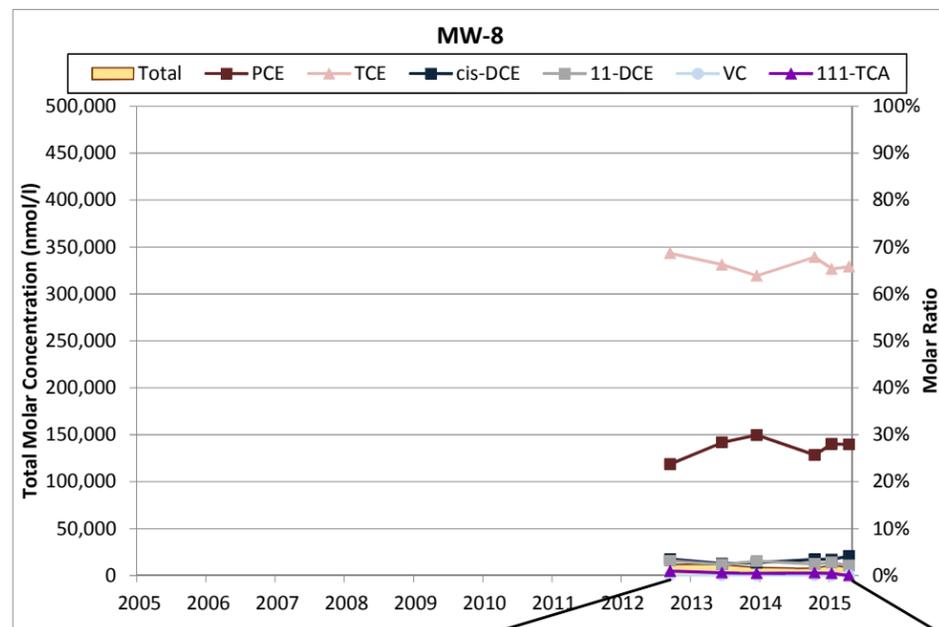
Project Number: 02.20140391.00



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Total CVOC Molar Analysis Summary and Trends Apollo Plume Area

Prepared by: SSW Checked by: DW Figure: 9



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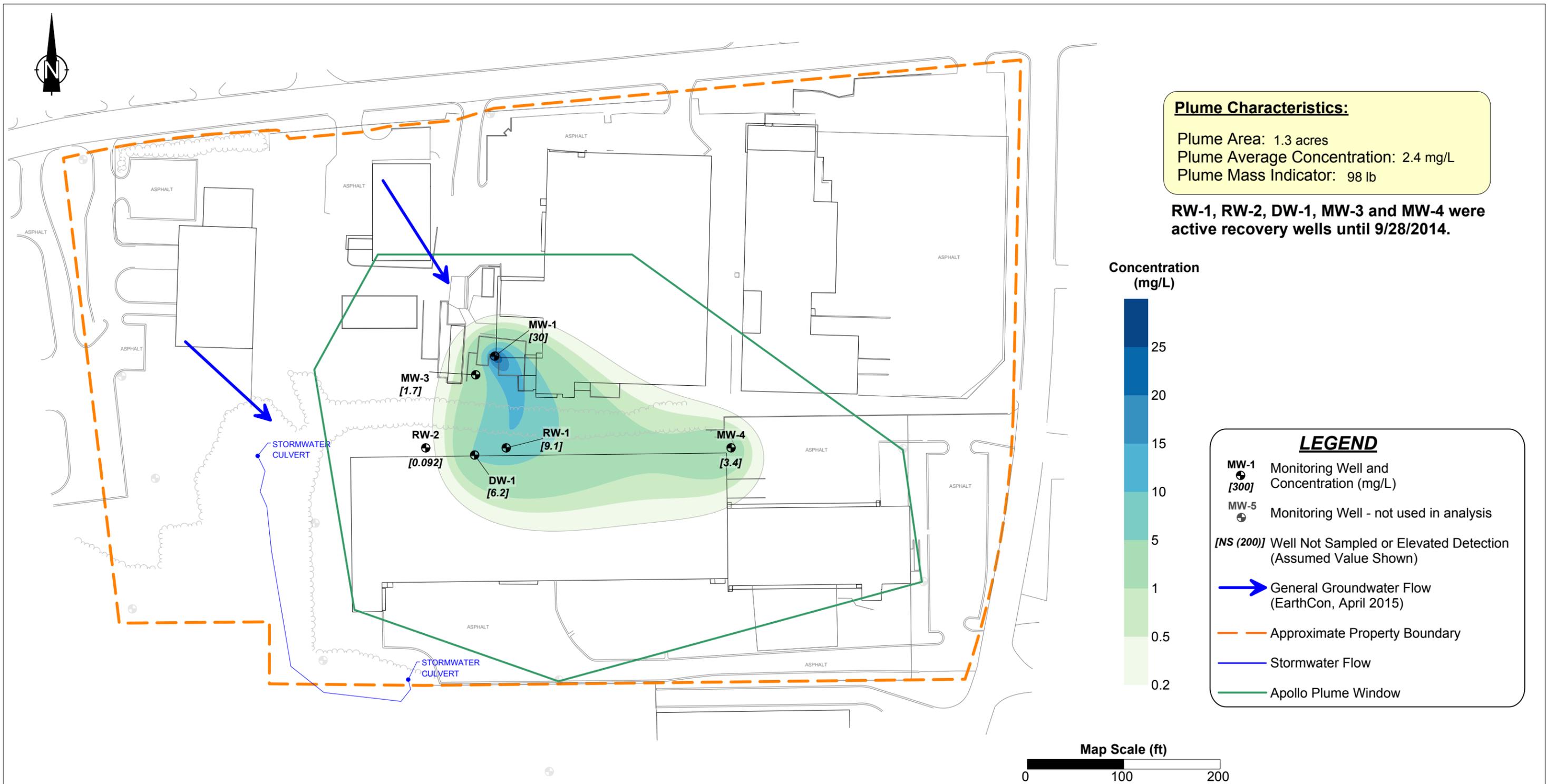
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**Total CVOC Molar Analysis
 Summary and Trends
 MW-6, MW-7, MW-8**

Prepared by: SSW Checked by: DW Figure: 10

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Appendix A
Apollo Plume Series Isopleth Maps
1,1,1-Trichloroethane



Base Map Source: Terramark Land Surveying, Inc. (6/5/2012)

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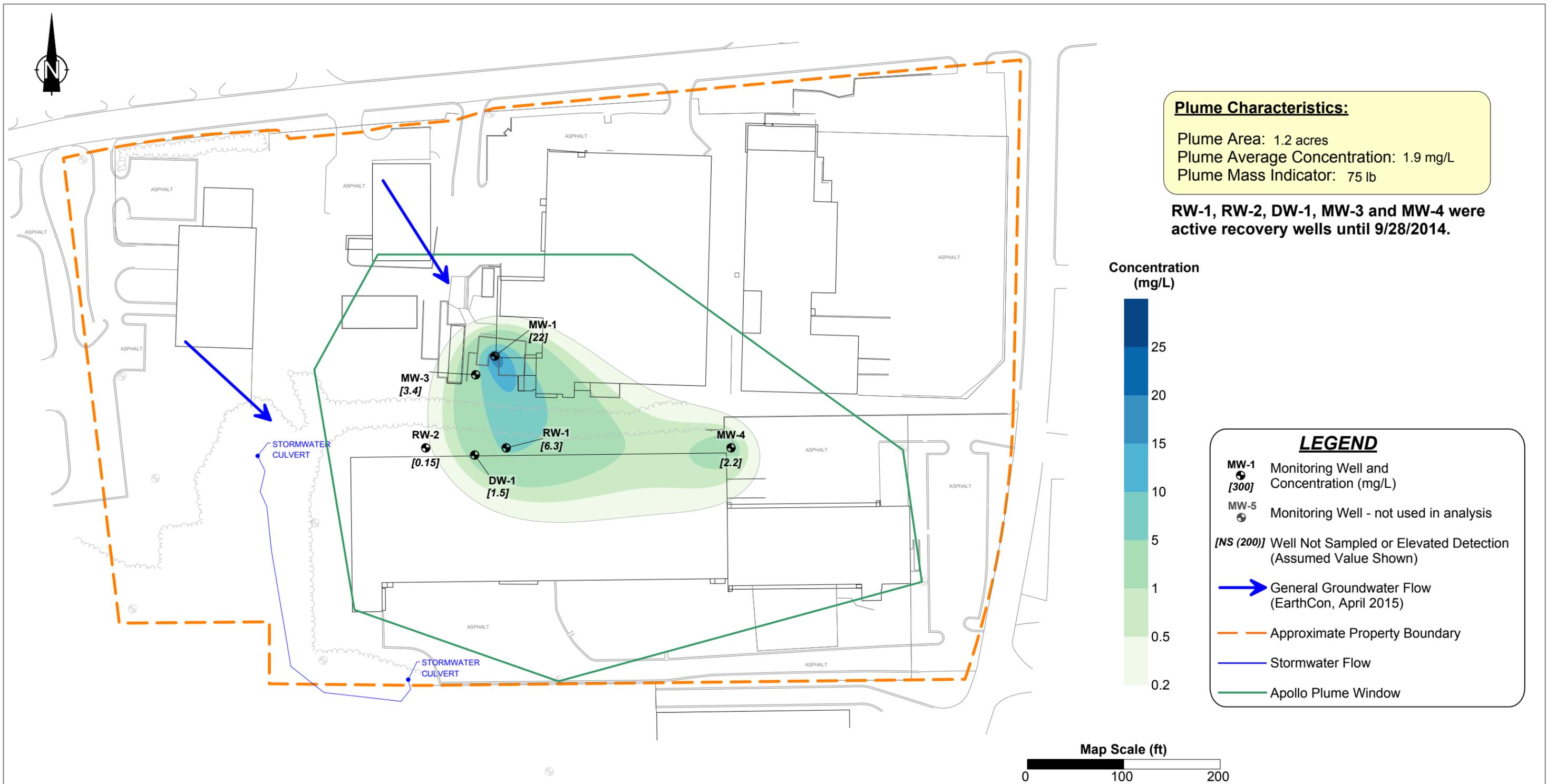
Project Number: 02.20140391.00



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Apollo Plume
1,1,1-Trichloroethane (1,1,1-TCA)
Jan-2005

Prepared by: SSW Checked by: DW Figure:



Plume Characteristics:
 Plume Area: 1.2 acres
 Plume Average Concentration: 1.9 mg/L
 Plume Mass Indicator: 75 lb

RW-1, RW-2, DW-1, MW-3 and MW-4 were active recovery wells until 9/28/2014.

LEGEND

- MW-1 [300] Monitoring Well and Concentration (mg/L)
- MW-5 [] Monitoring Well - not used in analysis
- [NS (200)] Well Not Sampled or Elevated Detection (Assumed Value Shown)
- ➔ General Groundwater Flow (EarthCon, April 2015)
- - - - - Approximate Property Boundary
- ➔ Stormwater Flow
- ▭ Apollo Plume Window

Base Map Source: Terramark Land Surveying, Inc. (6/5/2012)

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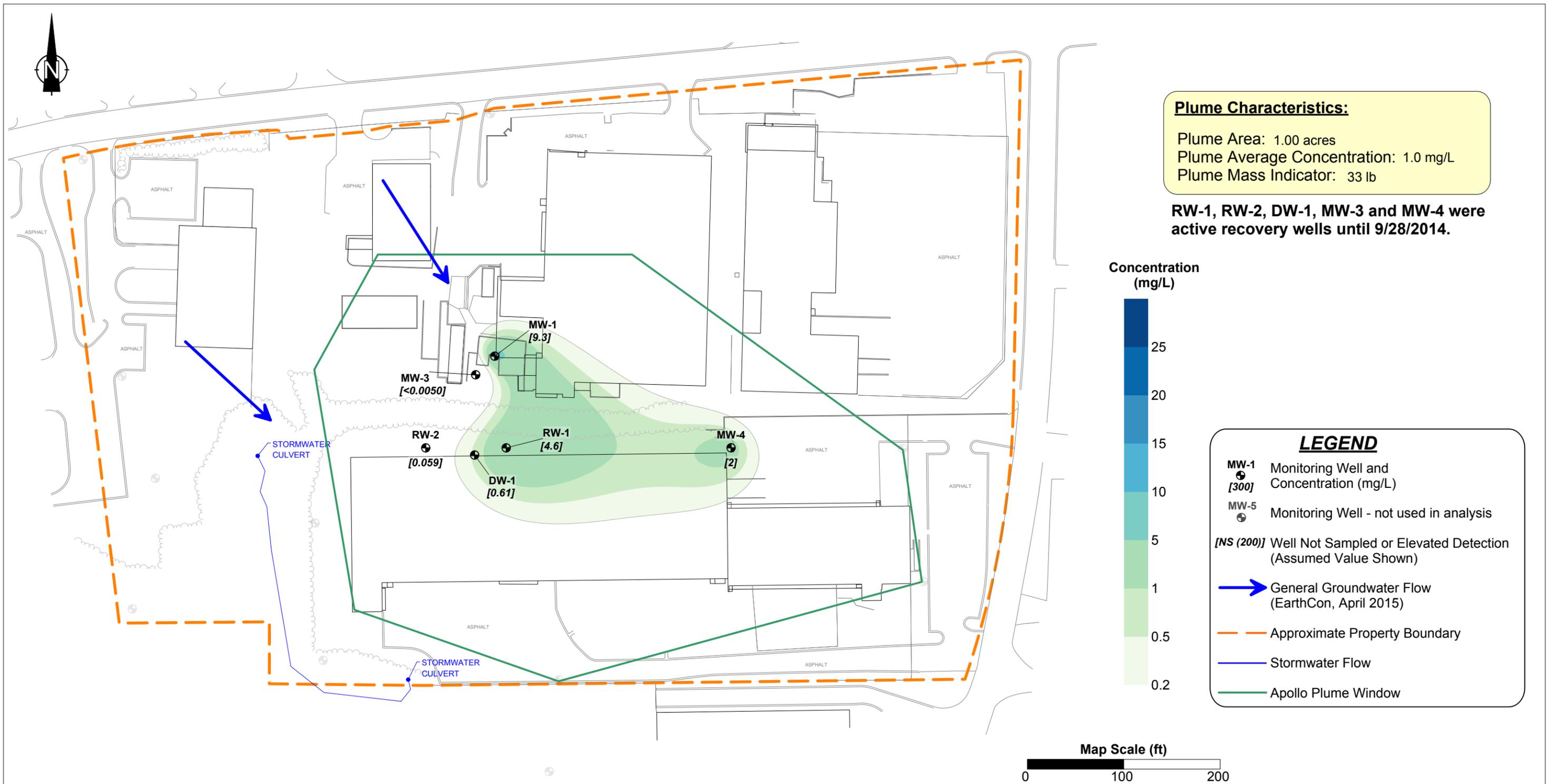
Project Number: 02.20140391.00



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Apollo Plume
1,1,1-Trichloroethane (1,1,1-TCA)
Dec-2005

Prepared by: SSW Checked by: DW Figure:



Base Map Source: Terramark Land Surveying, Inc. (6/5/2012)

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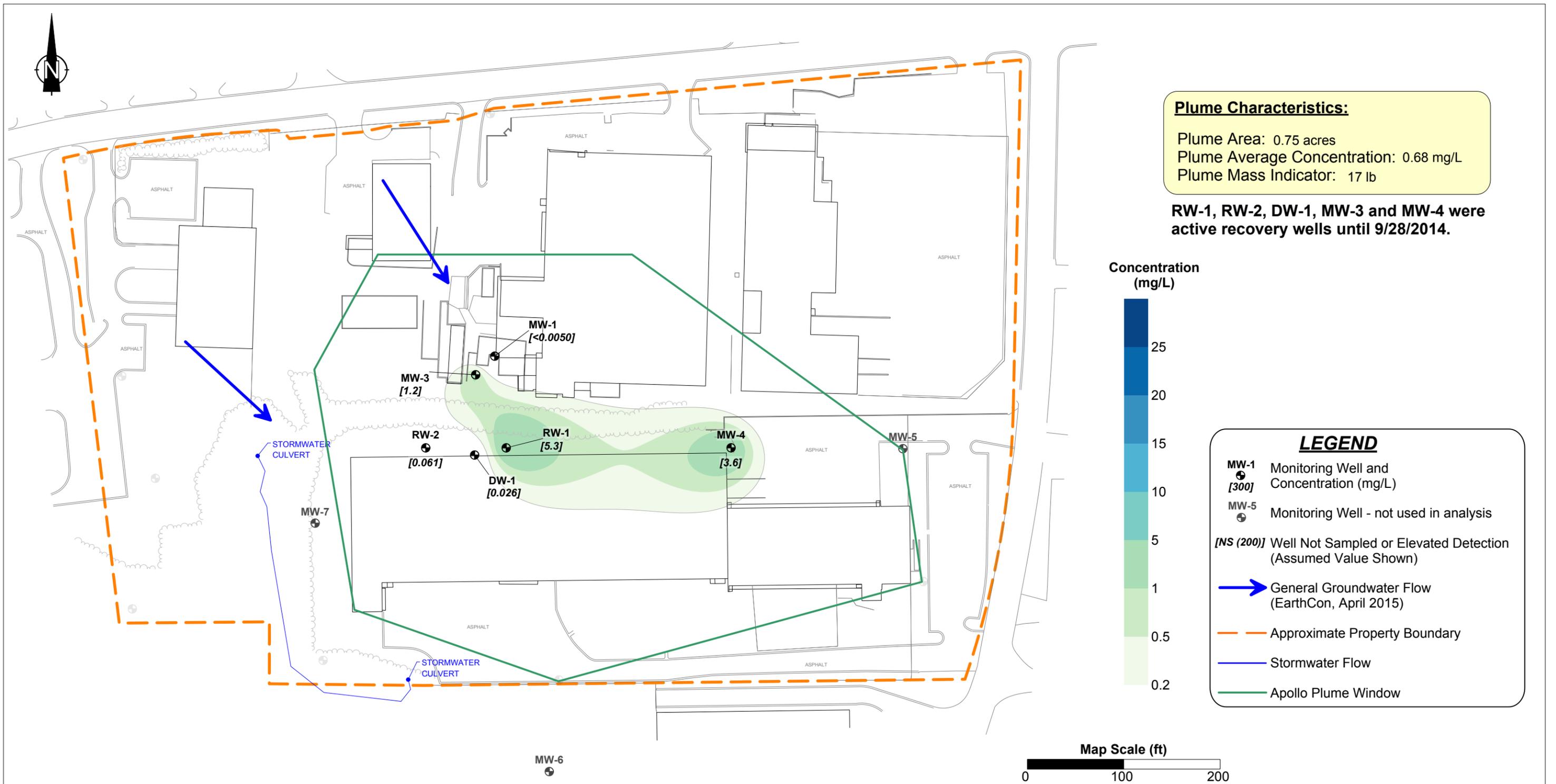
Project Number: 02.20140391.00



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Apollo Plume
1,1,1-Trichloroethane (1,1,1-TCA)
Jul-2006

Prepared by: SSW Checked by: DW Figure:



Plume Characteristics:
 Plume Area: 0.75 acres
 Plume Average Concentration: 0.68 mg/L
 Plume Mass Indicator: 17 lb

RW-1, RW-2, DW-1, MW-3 and MW-4 were active recovery wells until 9/28/2014.

LEGEND

- MW-1 [300] Monitoring Well and Concentration (mg/L)
- MW-5 [NS (200)] Monitoring Well - not used in analysis
- [NS (200)] Well Not Sampled or Elevated Detection (Assumed Value Shown)
- ➔ General Groundwater Flow (EarthCon, April 2015)
- - - - - Approximate Property Boundary
- Stormwater Flow
- Apollo Plume Window

Base Map Source: Terramark Land Surveying, Inc. (6/5/2012)

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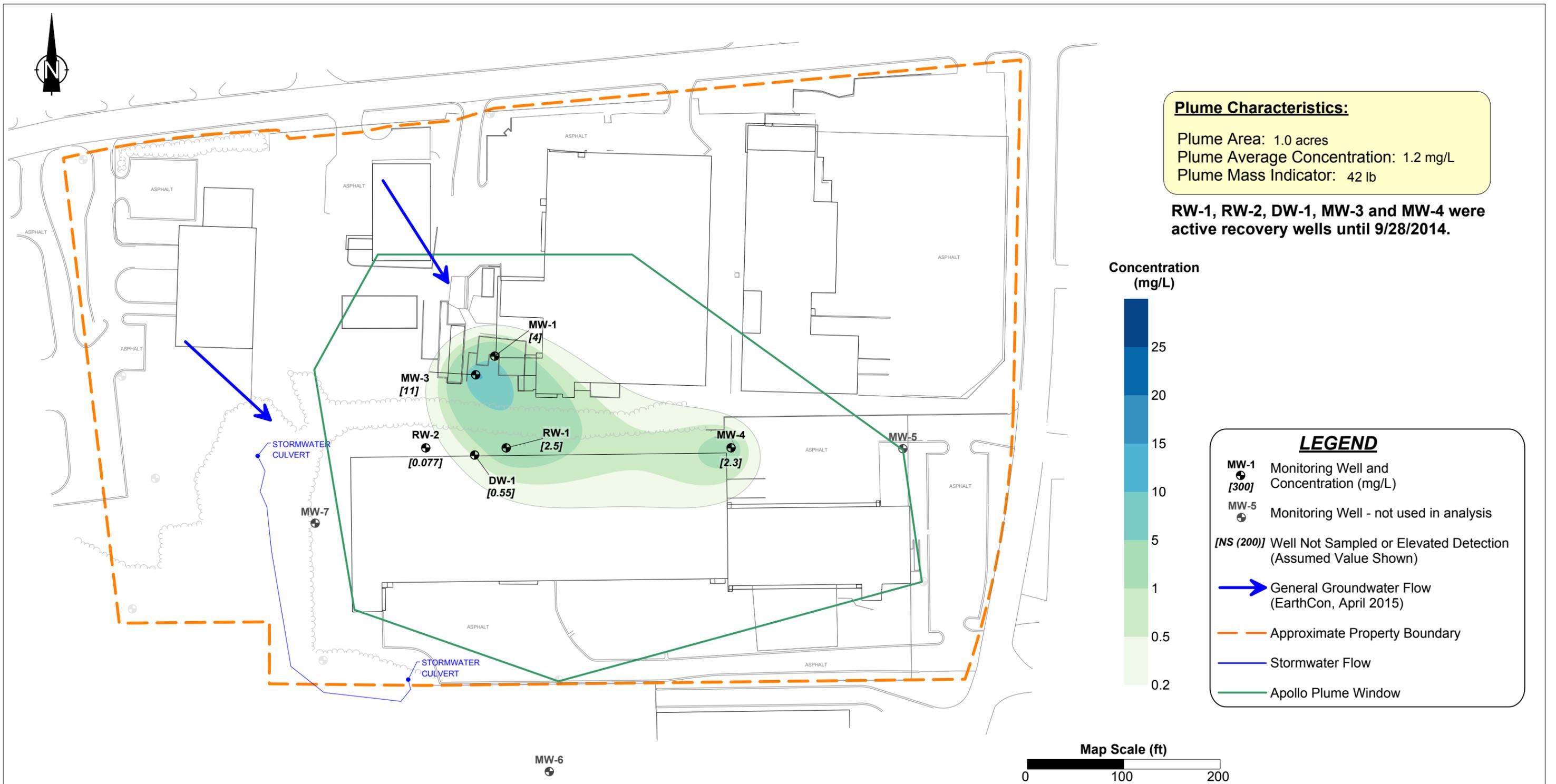
Project Number: 02.20140391.00



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Apollo Plume
1,1,1-Trichloroethane (1,1,1-TCA)
Feb-2007

Prepared by: SSW Checked by: DW Figure:



Base Map Source: Terramark Land Surveying, Inc. (6/5/2012)

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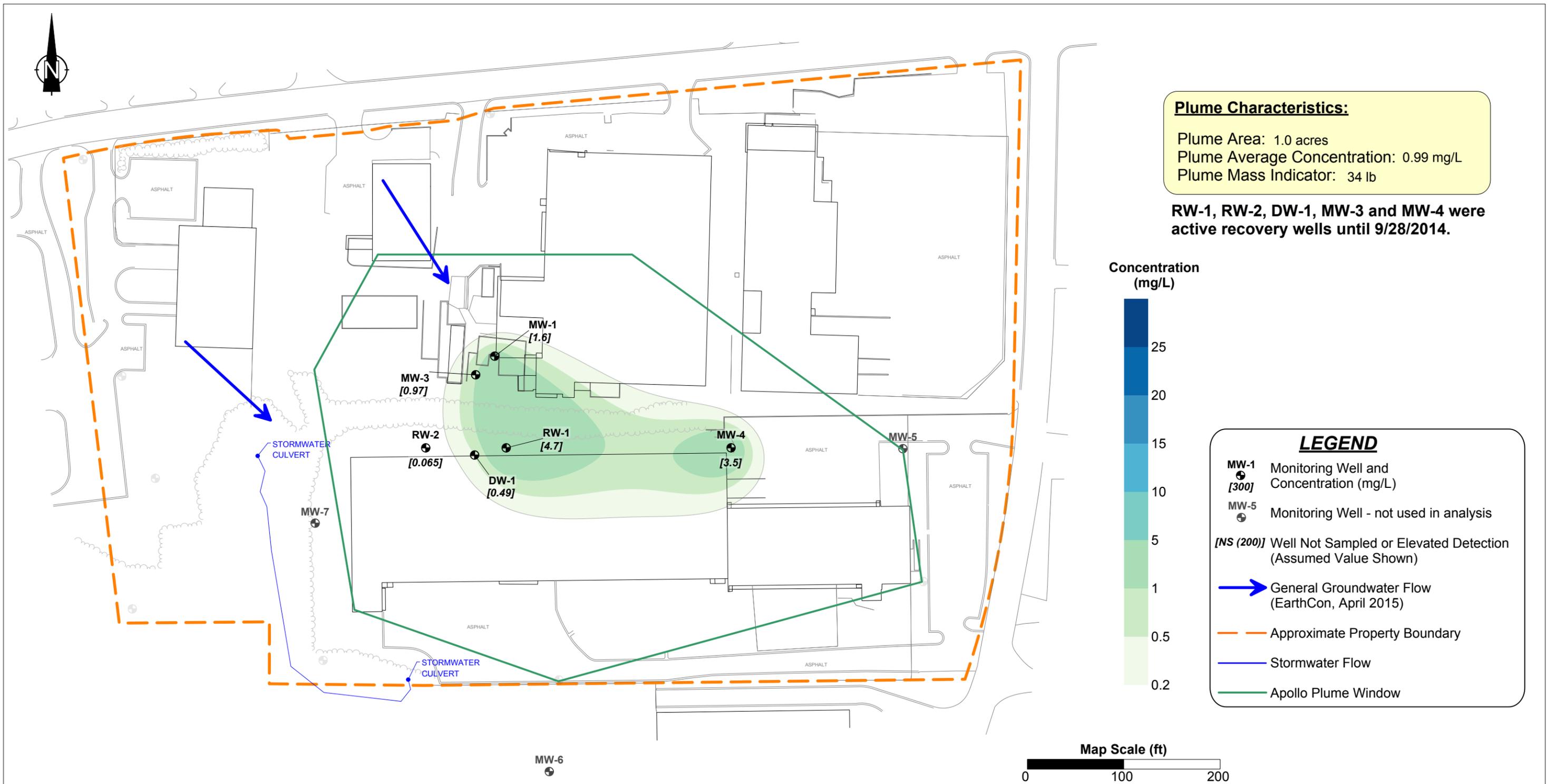
Project Number: 02.20140391.00



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 Marietta, Georgia 30062

Apollo Plume
1,1,1-Trichloroethane (1,1,1-TCA)
Aug-2007

Prepared by: SSW Checked by: DW Figure:



Base Map Source: Terramark Land Surveying, Inc. (6/5/2012)

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Apollo Industries, Inc.
 1850 South Cobb Industrial Blvd.
 HSI Site Number 10333

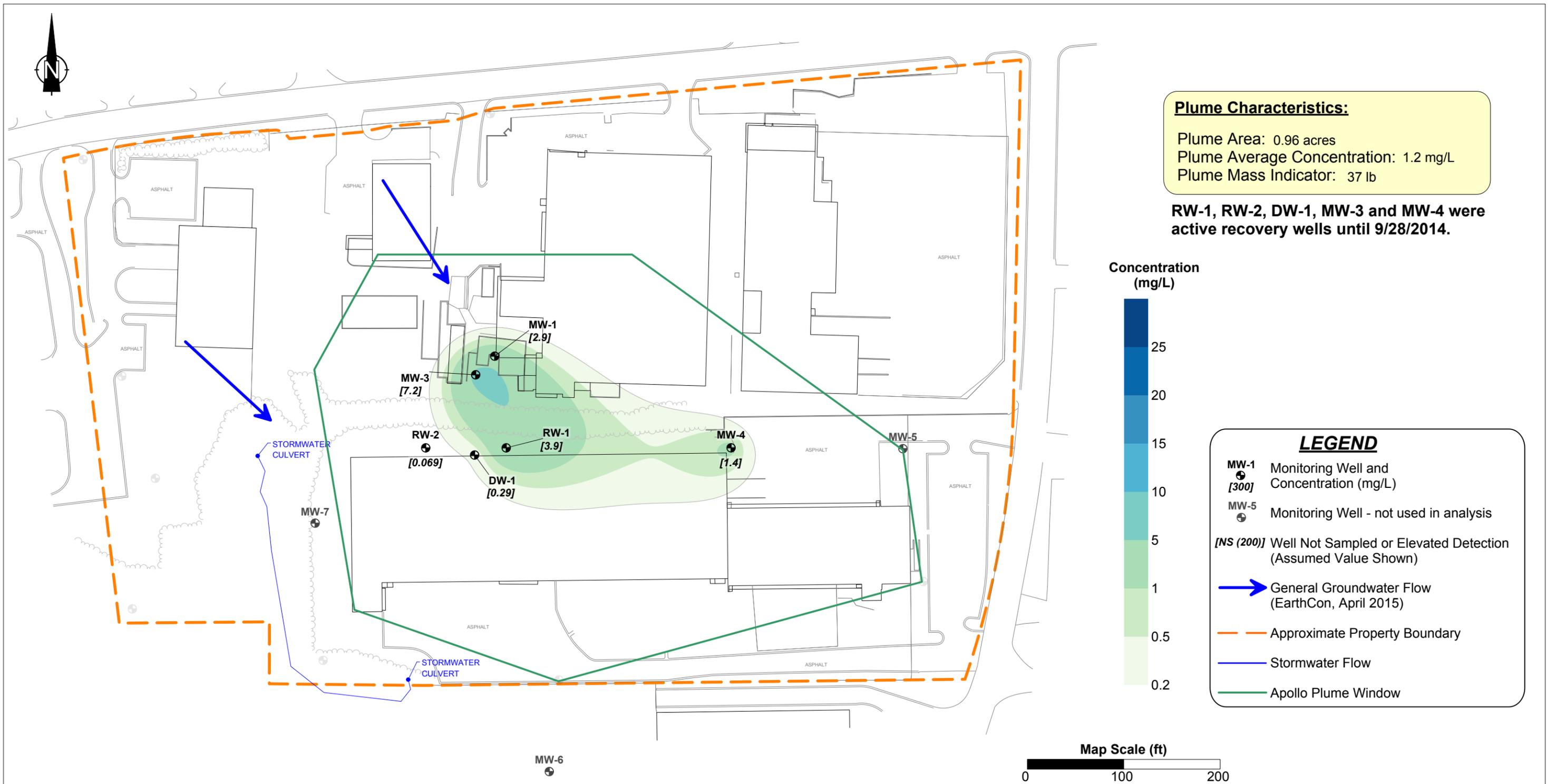
Project Number: 02.20140391.00



1880 West Oak Parkway, Bldg. 100 Suite 106
 Marietta, Georgia 30062

Apollo Plume
1,1,1-Trichloroethane (1,1,1-TCA)
Feb-2008

Prepared by: SSW Checked by: DW Figure:



Plume Characteristics:
 Plume Area: 0.96 acres
 Plume Average Concentration: 1.2 mg/L
 Plume Mass Indicator: 37 lb

RW-1, RW-2, DW-1, MW-3 and MW-4 were active recovery wells until 9/28/2014.

LEGEND

- MW-1 [300] Monitoring Well and Concentration (mg/L)
- MW-5 [NS (200)] Monitoring Well - not used in analysis
- [NS (200)] Well Not Sampled or Elevated Detection (Assumed Value Shown)
- ➔ General Groundwater Flow (EarthCon, April 2015)
- - - - - Approximate Property Boundary
- Stormwater Flow
- Apollo Plume Window

Base Map Source: Terramark Land Surveying, Inc. (6/5/2012)

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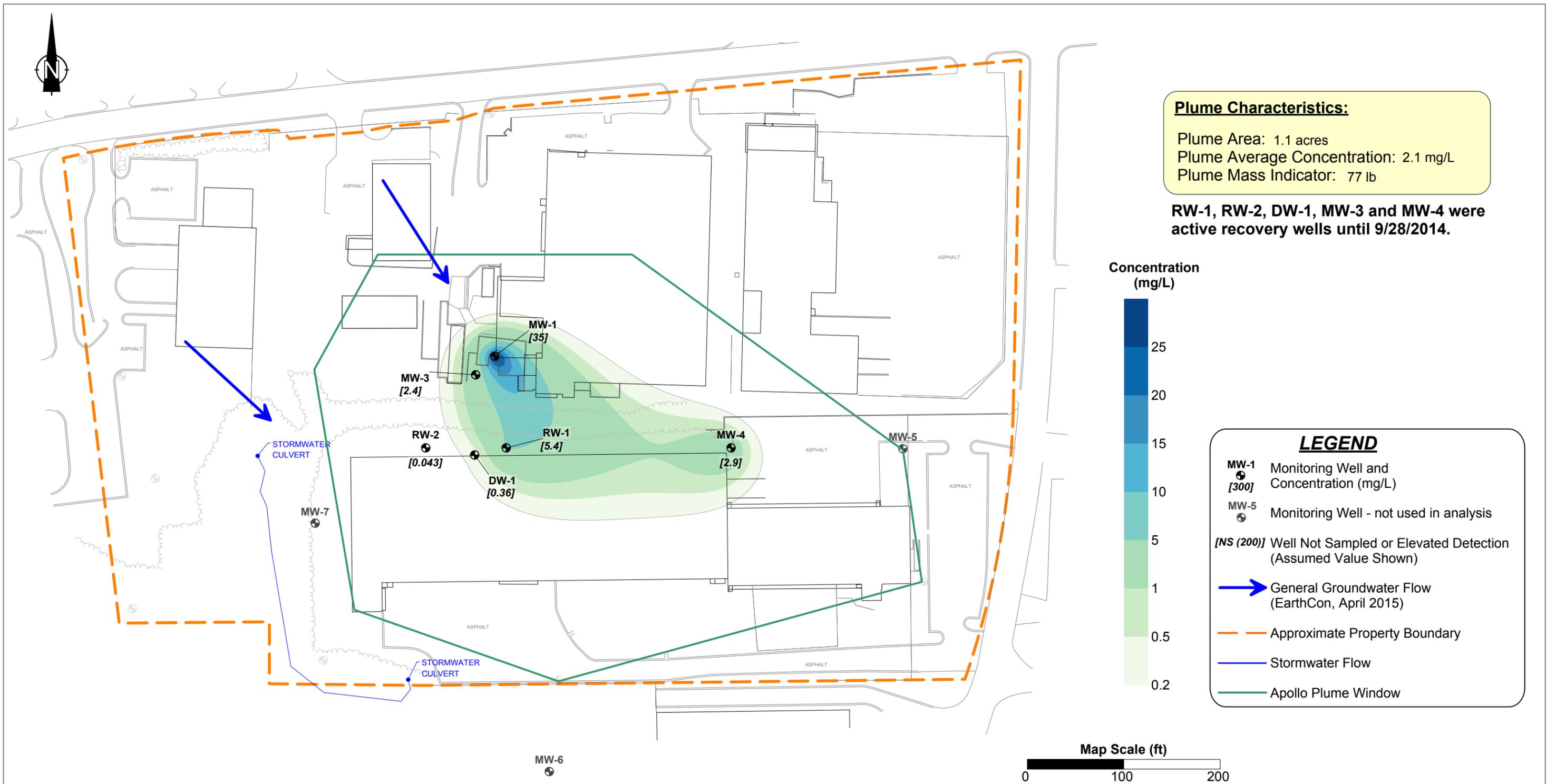
Project Number: 02.20140391.00



1880 West Oak Parkway, Bldg. 100 Suite 106
 Marietta, Georgia 30062

Apollo Plume
1,1,1-Trichloroethane (1,1,1-TCA)
Nov-2008

Prepared by: SSW Checked by: DW Figure:



Plume Characteristics:
 Plume Area: 1.1 acres
 Plume Average Concentration: 2.1 mg/L
 Plume Mass Indicator: 77 lb

RW-1, RW-2, DW-1, MW-3 and MW-4 were active recovery wells until 9/28/2014.

LEGEND

- MW-1 [300] Monitoring Well and Concentration (mg/L)
- MW-5 [NS (200)] Monitoring Well - not used in analysis
- [NS (200)] Well Not Sampled or Elevated Detection (Assumed Value Shown)
- ➔ General Groundwater Flow (EarthCon, April 2015)
- - - Approximate Property Boundary
- Stormwater Flow
- Apollo Plume Window

Base Map Source: Terramark Land Surveying, Inc. (6/5/2012)

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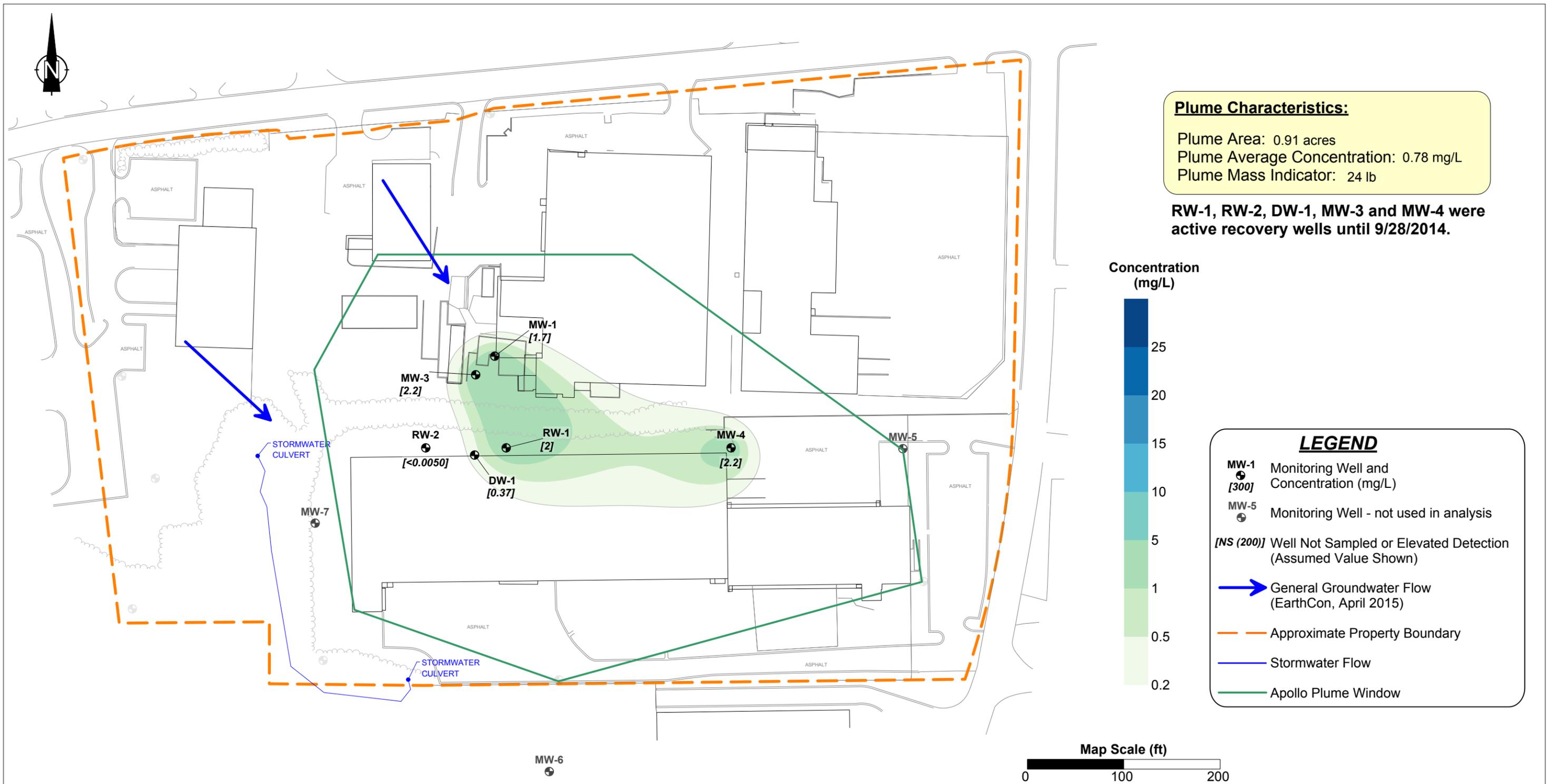
Project Number: 02.20140391.00



1880 West Oak Parkway, Bldg. 100 Suite 106
 Marietta, Georgia 30062

Apollo Plume
1,1,1-Trichloroethane (1,1,1-TCA)
Sep-2009

Prepared by: SSW Checked by: DW Figure:



Plume Characteristics:
 Plume Area: 0.91 acres
 Plume Average Concentration: 0.78 mg/L
 Plume Mass Indicator: 24 lb

RW-1, RW-2, DW-1, MW-3 and MW-4 were active recovery wells until 9/28/2014.

LEGEND

- MW-1 [300] Monitoring Well and Concentration (mg/L)
- MW-5 [NS (200)] Monitoring Well - not used in analysis
- [NS (200)] Well Not Sampled or Elevated Detection (Assumed Value Shown)
- ➔ General Groundwater Flow (EarthCon, April 2015)
- - - - - Approximate Property Boundary
- Stormwater Flow
- Apollo Plume Window

Base Map Source: Terramark Land Surveying, Inc. (6/5/2012)

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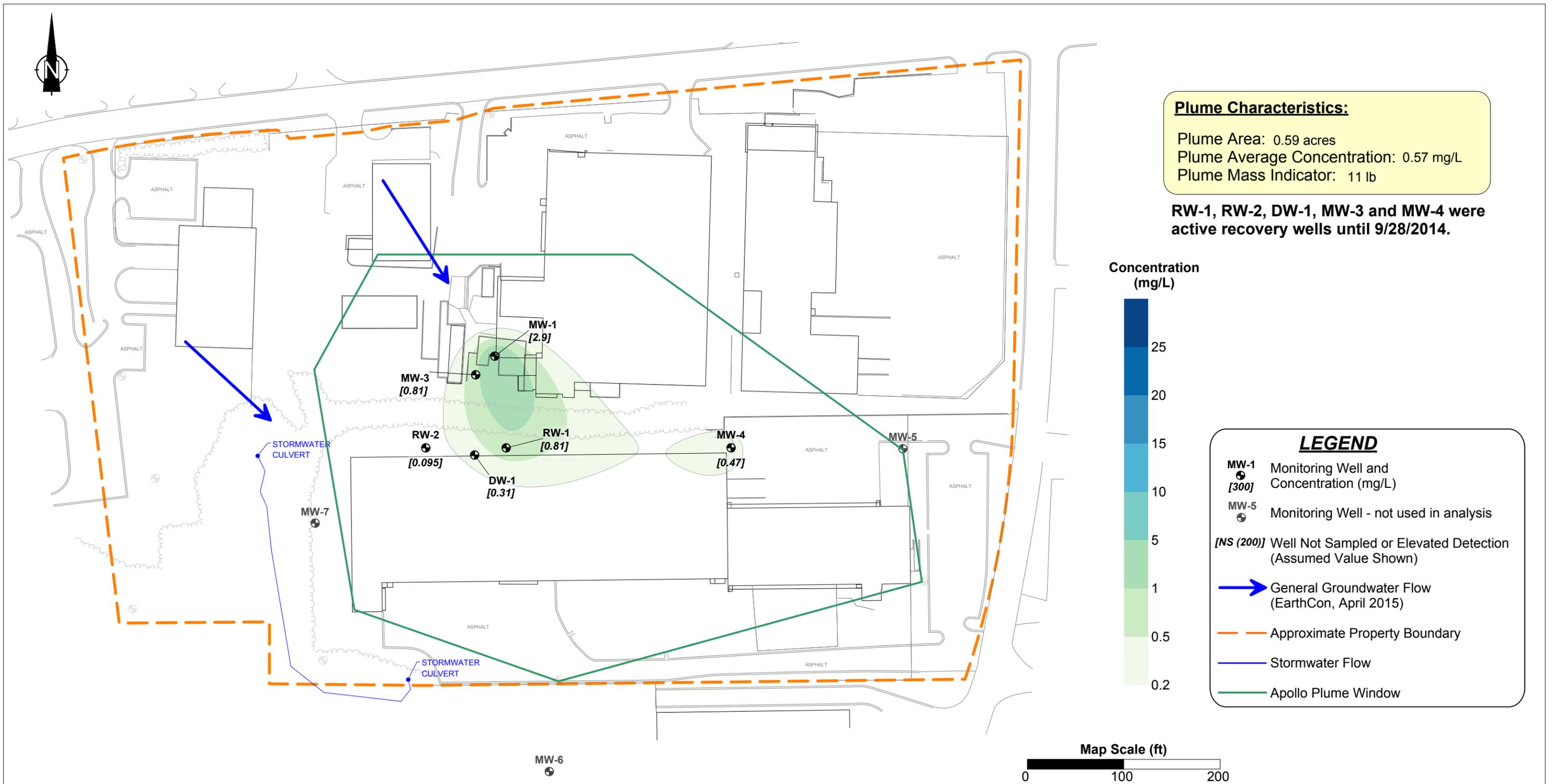
Project Number: 02.20140391.00



1880 West Oak Parkway, Bldg. 100 Suite 106
 Marietta, Georgia 30062

Apollo Plume
1,1,1-Trichloroethane (1,1,1-TCA)
Mar-2010

Prepared by: SSW Checked by: DW Figure:



Base Map Source: Terramark Land Surveying, Inc. (6/5/2012)

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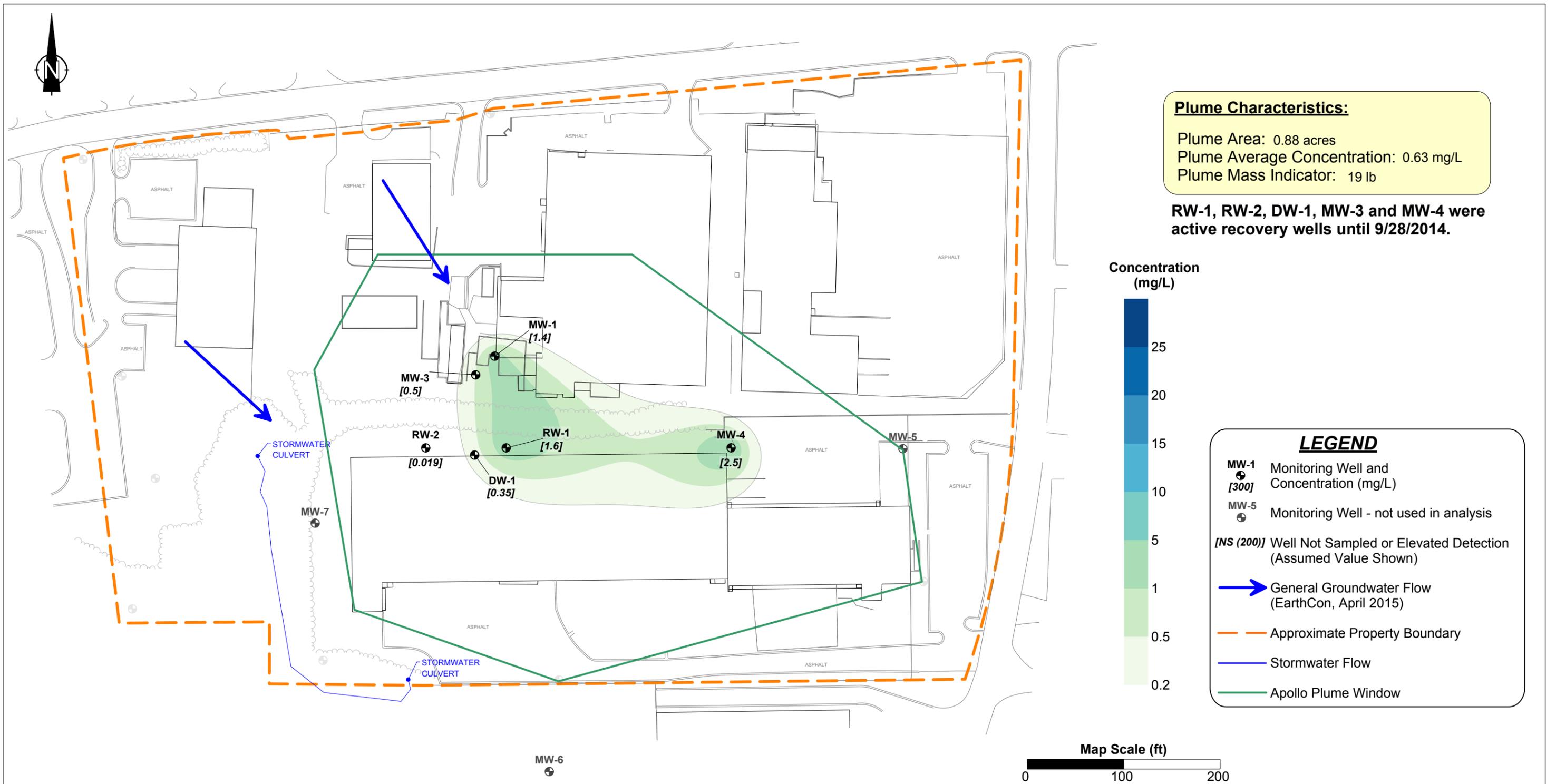
Project Number: 02.20140391.00



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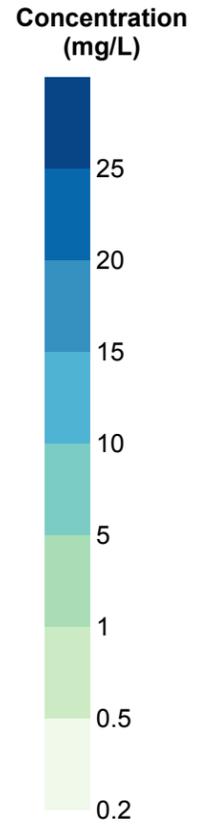
Apollo Plume
1,1,1-Trichloroethane (1,1,1-TCA)
Sep-2010

Prepared by: SSW Checked by: DW Figure:



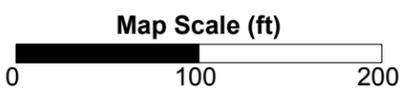
Plume Characteristics:
 Plume Area: 0.88 acres
 Plume Average Concentration: 0.63 mg/L
 Plume Mass Indicator: 19 lb

RW-1, RW-2, DW-1, MW-3 and MW-4 were active recovery wells until 9/28/2014.



LEGEND

- MW-1 [300] Monitoring Well and Concentration (mg/L)
- MW-5 [NS (200)] Monitoring Well - not used in analysis
- [NS (200)] Well Not Sampled or Elevated Detection (Assumed Value Shown)
- ➔ General Groundwater Flow (EarthCon, April 2015)
- - - - - Approximate Property Boundary
- Stormwater Flow
- Apollo Plume Window



Base Map Source: Terramark Land Surveying, Inc. (6/5/2012)

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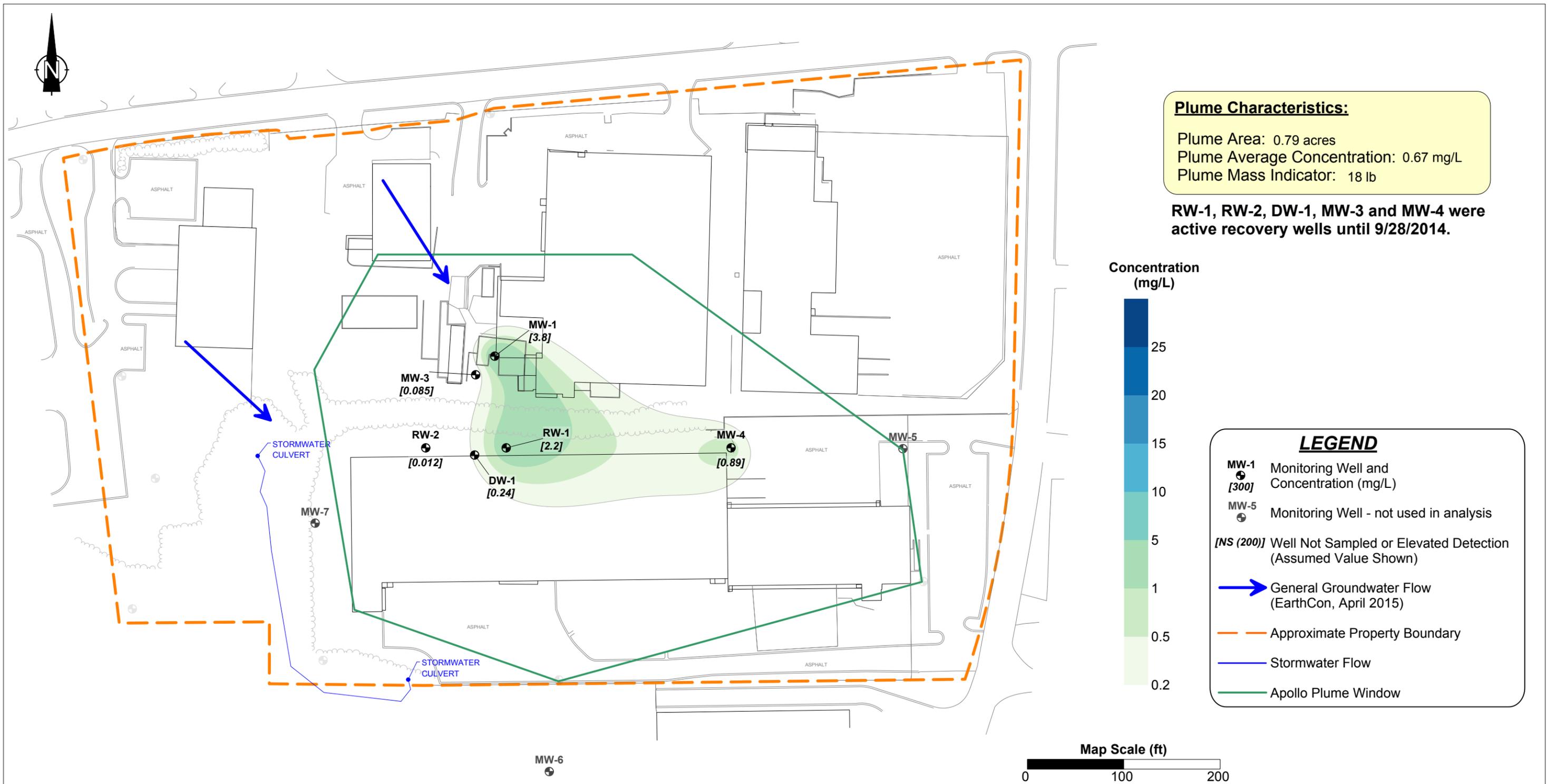
Project Number: 02.20140391.00



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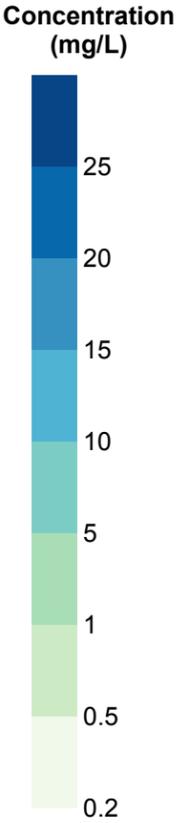
Apollo Plume
1,1,1-Trichloroethane (1,1,1-TCA)
Apr-2011

Prepared by: SSW Checked by: DW Figure:



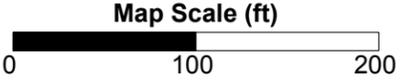
Plume Characteristics:
 Plume Area: 0.79 acres
 Plume Average Concentration: 0.67 mg/L
 Plume Mass Indicator: 18 lb

RW-1, RW-2, DW-1, MW-3 and MW-4 were active recovery wells until 9/28/2014.



LEGEND

- MW-1 [300] Monitoring Well and Concentration (mg/L)
- MW-5 [NS (200)] Monitoring Well - not used in analysis
- [NS (200)] Well Not Sampled or Elevated Detection (Assumed Value Shown)
- Blue Arrow General Groundwater Flow (EarthCon, April 2015)
- Orange Dashed Line Approximate Property Boundary
- Blue Line Stormwater Flow
- Green Line Apollo Plume Window



Base Map Source: Terramark Land Surveying, Inc. (6/5/2012)

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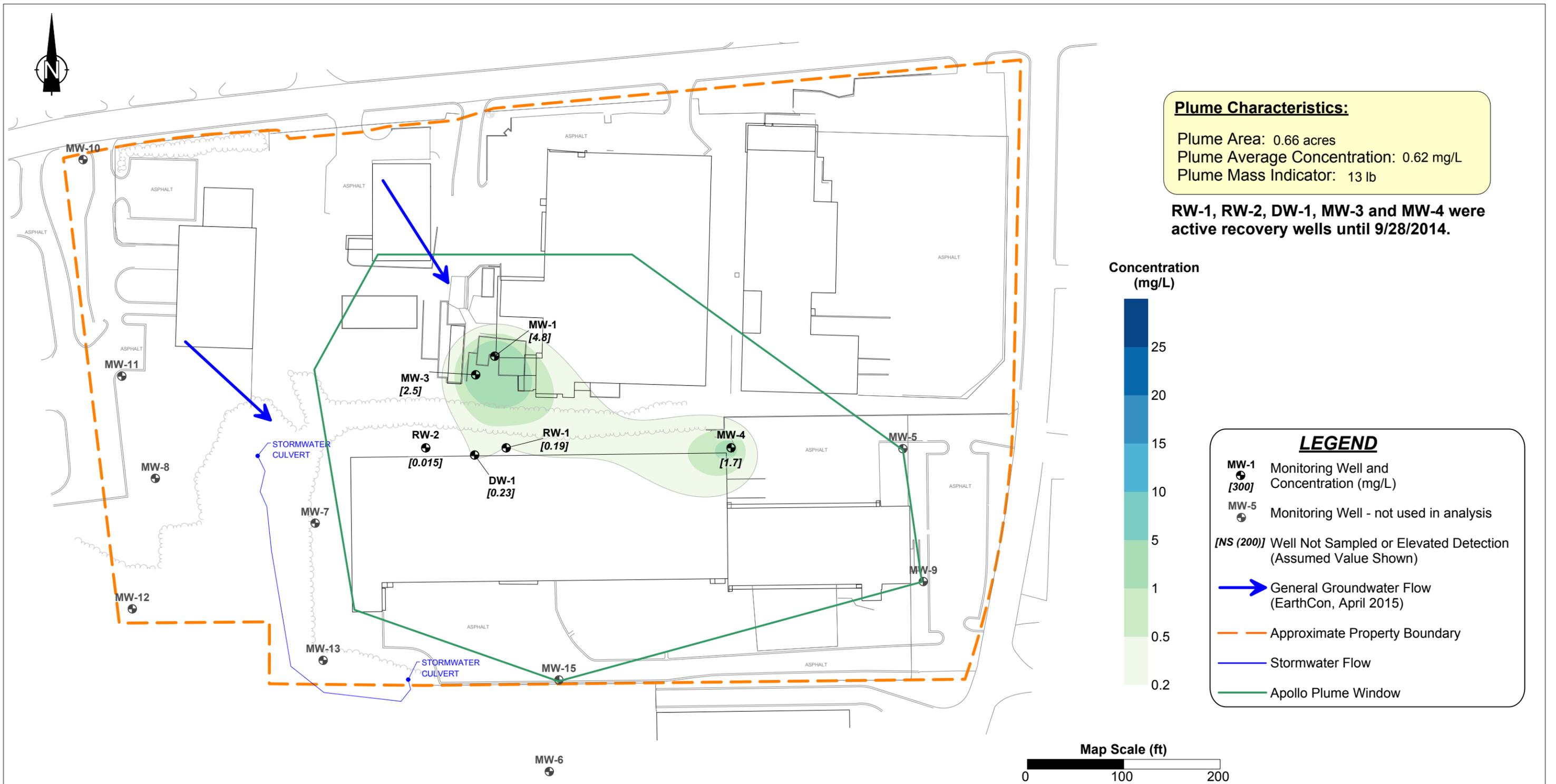
Project Number: 02.20140391.00



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 Marietta, Georgia 30062

Apollo Plume
1,1,1-Trichloroethane (1,1,1-TCA)
Oct-2011

Prepared by: SSW Checked by: DW Figure:



Base Map Source: Terramark Land Surveying, Inc. (6/5/2012)

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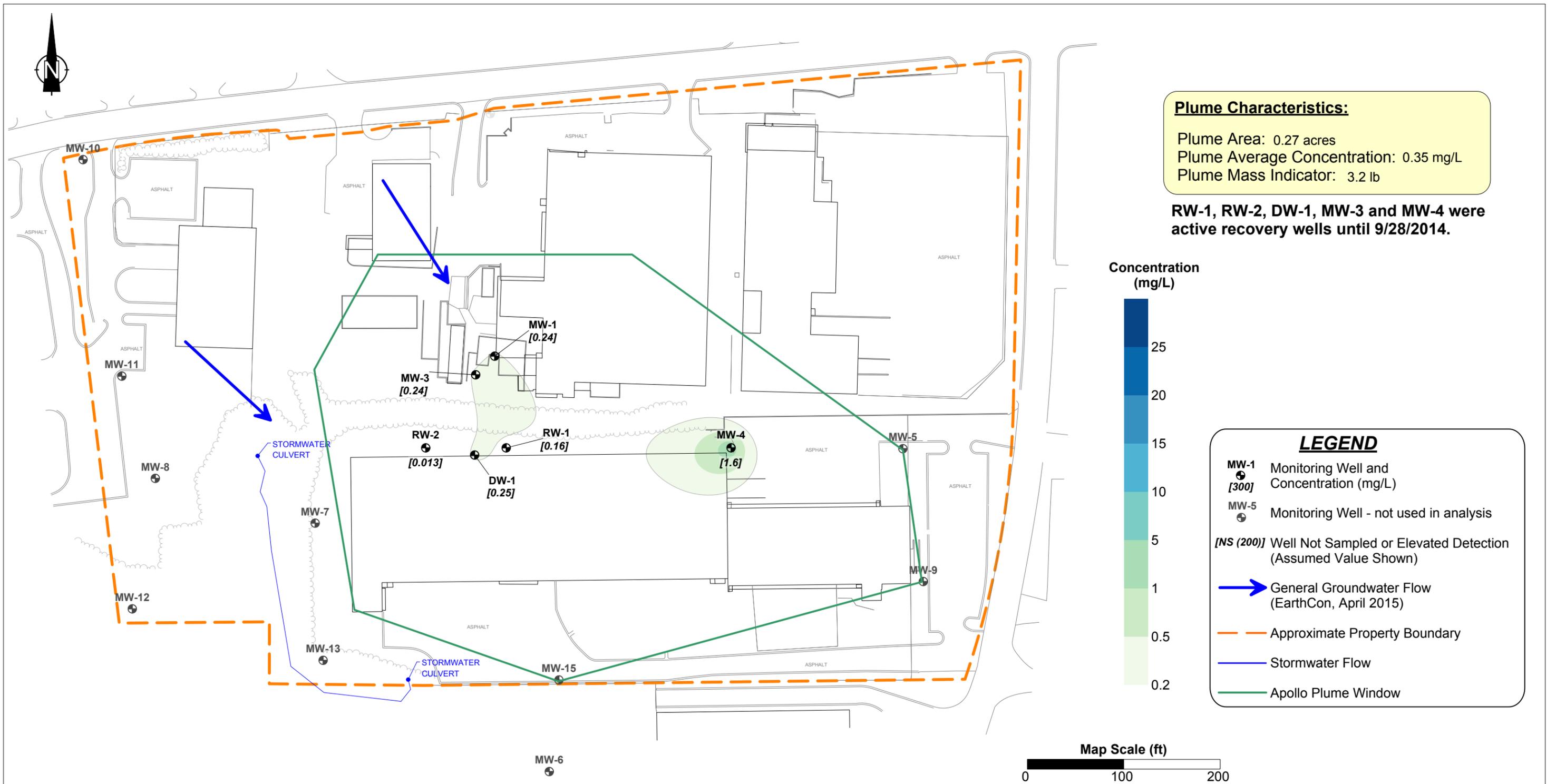
Project Number: 02.20140391.00



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 Marietta, Georgia 30062

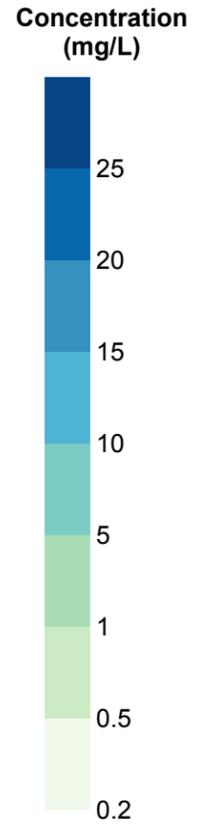
Apollo Plume
1,1,1-Trichloroethane (1,1,1-TCA)
Sep-2012

Prepared by: SSW Checked by: DW Figure:



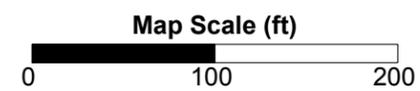
Plume Characteristics:
 Plume Area: 0.27 acres
 Plume Average Concentration: 0.35 mg/L
 Plume Mass Indicator: 3.2 lb

RW-1, RW-2, DW-1, MW-3 and MW-4 were active recovery wells until 9/28/2014.



LEGEND

- MW-1 [300] Monitoring Well and Concentration (mg/L)
- MW-5 [NS (200)] Monitoring Well - not used in analysis
- [NS (200)] Well Not Sampled or Elevated Detection (Assumed Value Shown)
- Blue Arrow General Groundwater Flow (EarthCon, April 2015)
- Orange Dashed Line Approximate Property Boundary
- Blue Line Stormwater Flow
- Green Line Apollo Plume Window



Base Map Source: Terramark Land Surveying, Inc. (6/5/2012)

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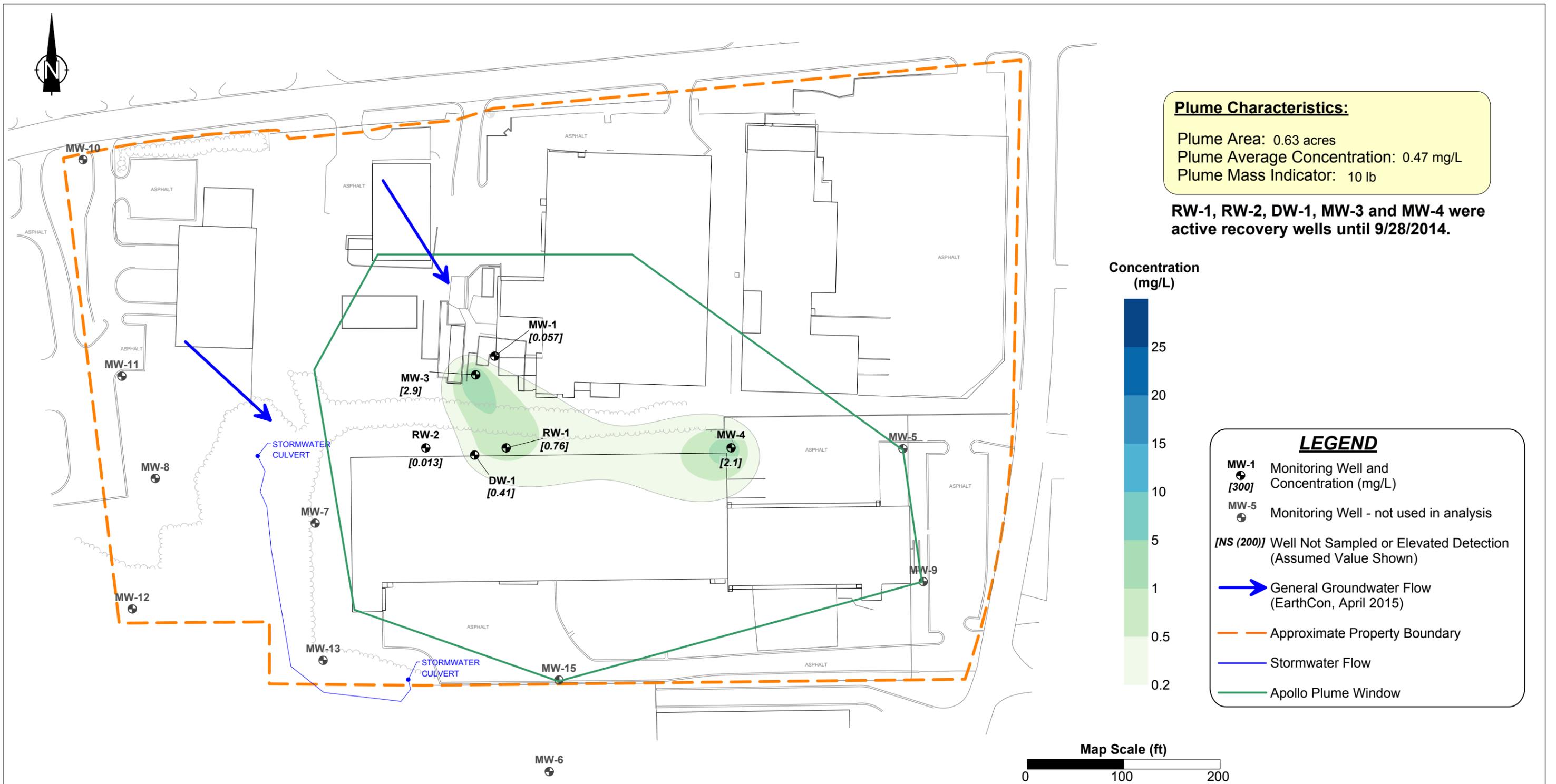


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Apollo Plume
1,1,1-Trichloroethane (1,1,1-TCA)
Jun-2013

Prepared by: SSW Checked by: DW Figure:

Project Number: 02.20140391.00



Plume Characteristics:
 Plume Area: 0.63 acres
 Plume Average Concentration: 0.47 mg/L
 Plume Mass Indicator: 10 lb

RW-1, RW-2, DW-1, MW-3 and MW-4 were active recovery wells until 9/28/2014.

LEGEND

- MW-1 [300] Monitoring Well and Concentration (mg/L)
- MW-5 [NS (200)] Monitoring Well - not used in analysis
- [NS (200)] Well Not Sampled or Elevated Detection (Assumed Value Shown)
- ➔ General Groundwater Flow (EarthCon, April 2015)
- - - Approximate Property Boundary
- Stormwater Flow
- Apollo Plume Window

Base Map Source: Terramark Land Surveying, Inc. (6/5/2012)

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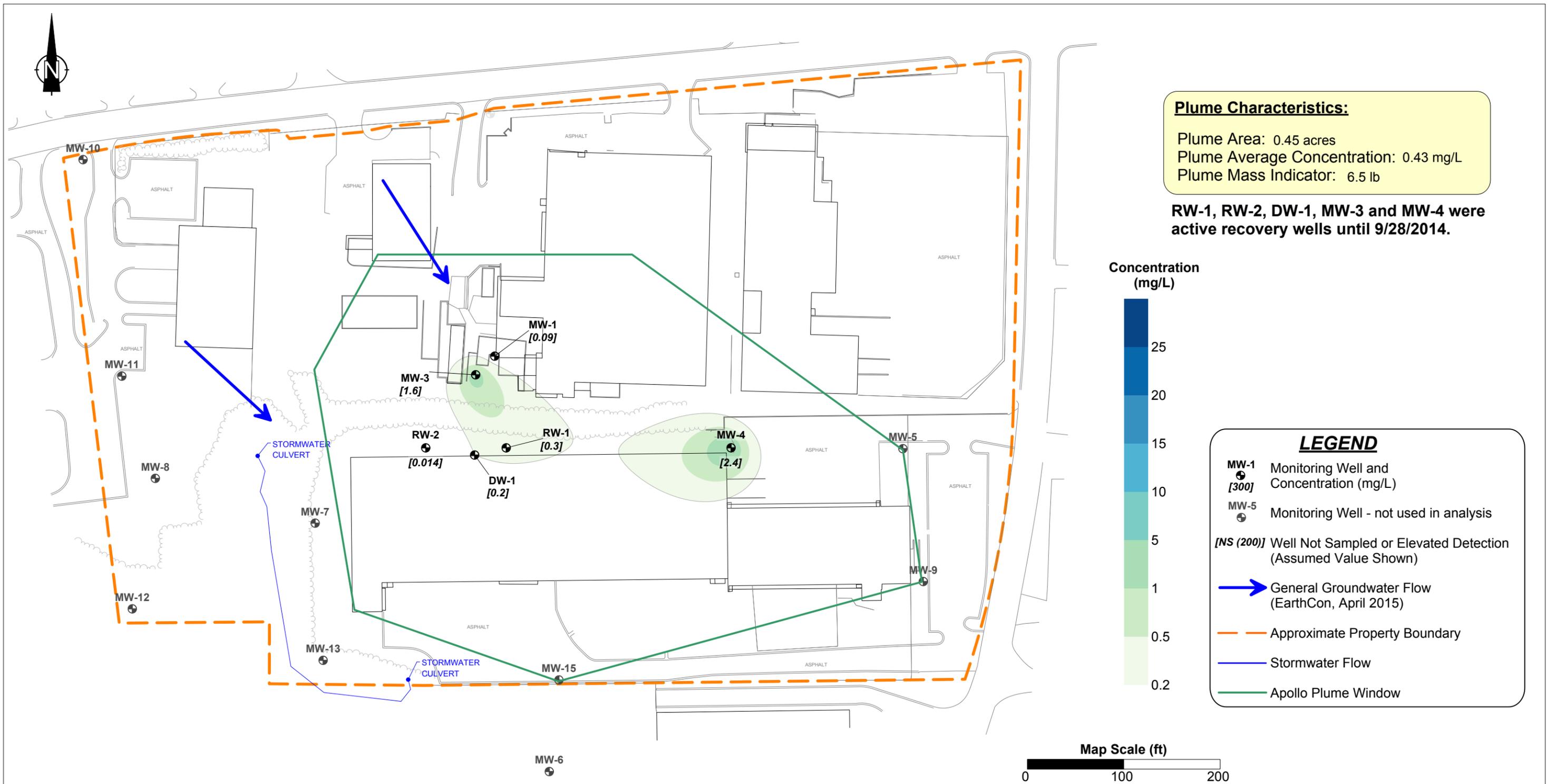


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Apollo Plume
1,1,1-Trichloroethane (1,1,1-TCA)
Dec-2013

Project Number: 02.20140391.00

Prepared by: SSW Checked by: DW Figure:



Base Map Source: Terramark Land Surveying, Inc. (6/5/2012)

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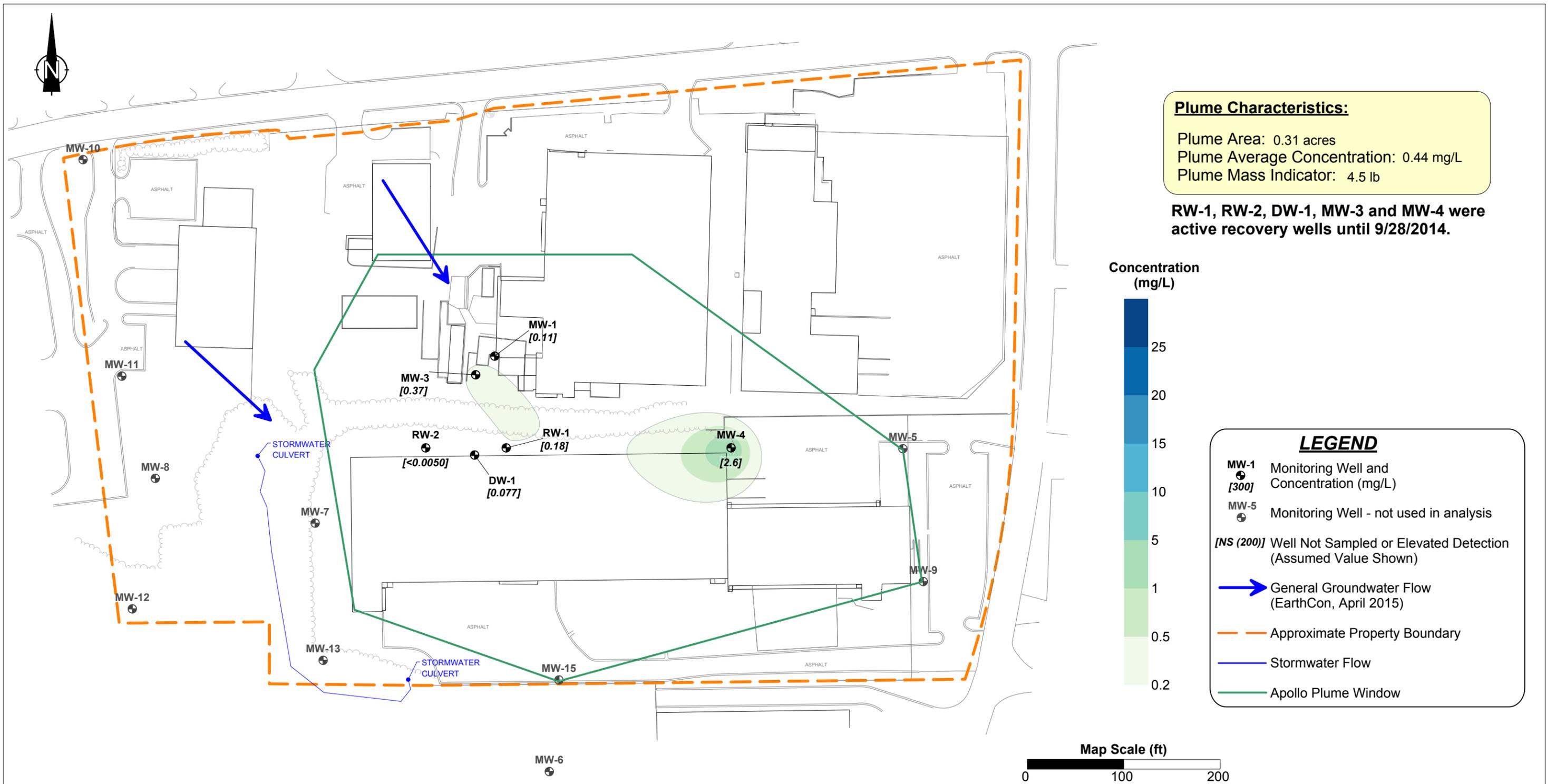
Project Number: 02.20140391.00



1880 West Oak Parkway, Bldg. 100 Suite 106
 Marietta, Georgia 30062

Apollo Plume
1,1,1-Trichloroethane (1,1,1-TCA)
Oct-2014

Prepared by: SSW Checked by: DW Figure:



Base Map Source: Terramark Land Surveying, Inc. (6/5/2012)

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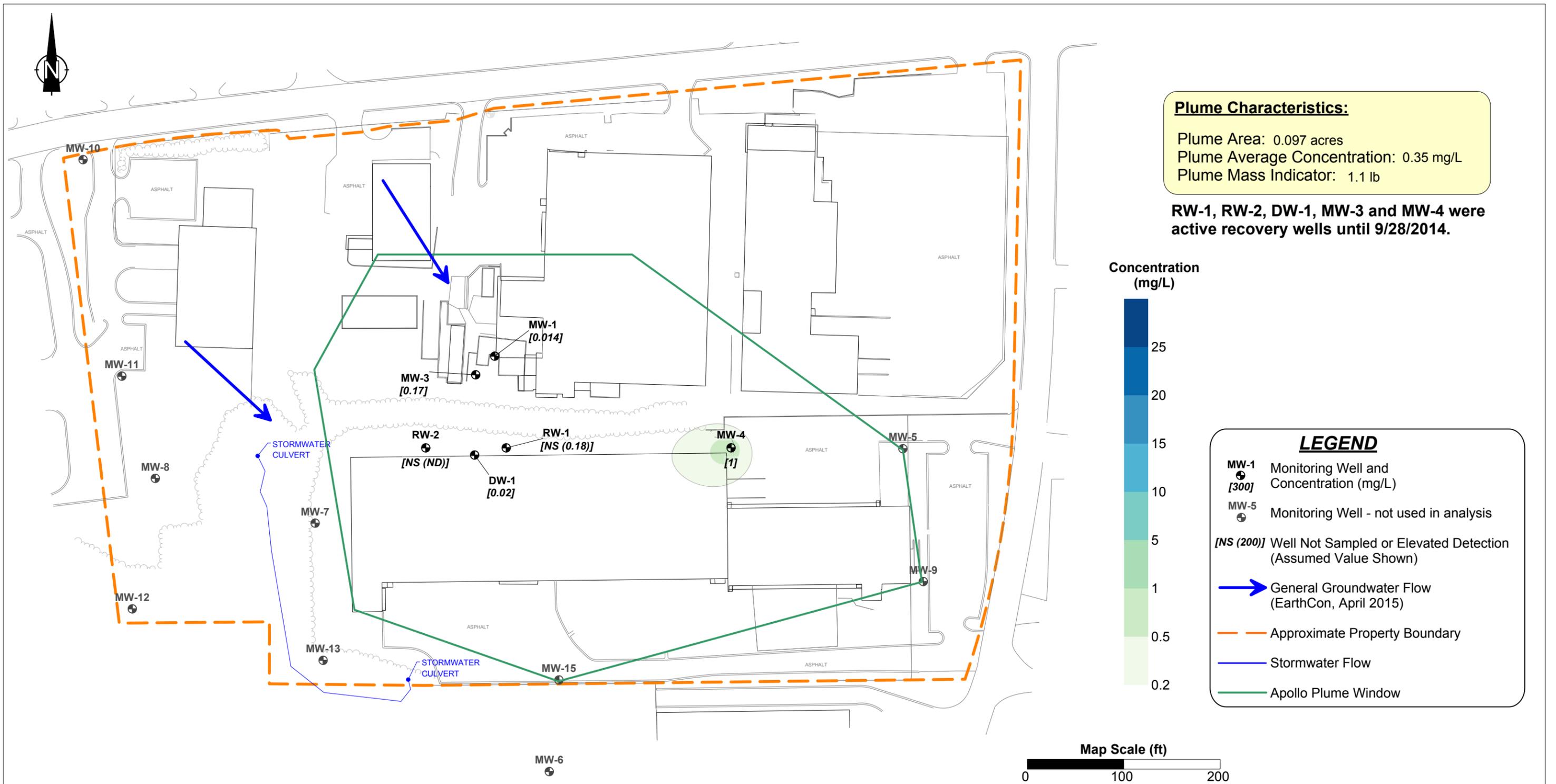
Project Number: 02.20140391.00



1880 West Oak Parkway, Bldg. 100 Suite 106
 Marietta, Georgia 30062

Apollo Plume
1,1,1-Trichloroethane (1,1,1-TCA)
Jan-2015

Prepared by: SSW Checked by: DW Figure:



Plume Characteristics:
 Plume Area: 0.097 acres
 Plume Average Concentration: 0.35 mg/L
 Plume Mass Indicator: 1.1 lb

RW-1, RW-2, DW-1, MW-3 and MW-4 were active recovery wells until 9/28/2014.

LEGEND

- MW-1 [300] Monitoring Well and Concentration (mg/L)
- MW-5 [] Monitoring Well - not used in analysis
- [NS (200)] Well Not Sampled or Elevated Detection (Assumed Value Shown)
- ➔ General Groundwater Flow (EarthCon, April 2015)
- - - Approximate Property Boundary
- Stormwater Flow
- Apollo Plume Window

Base Map Source: Terramark Land Surveying, Inc. (6/5/2012)

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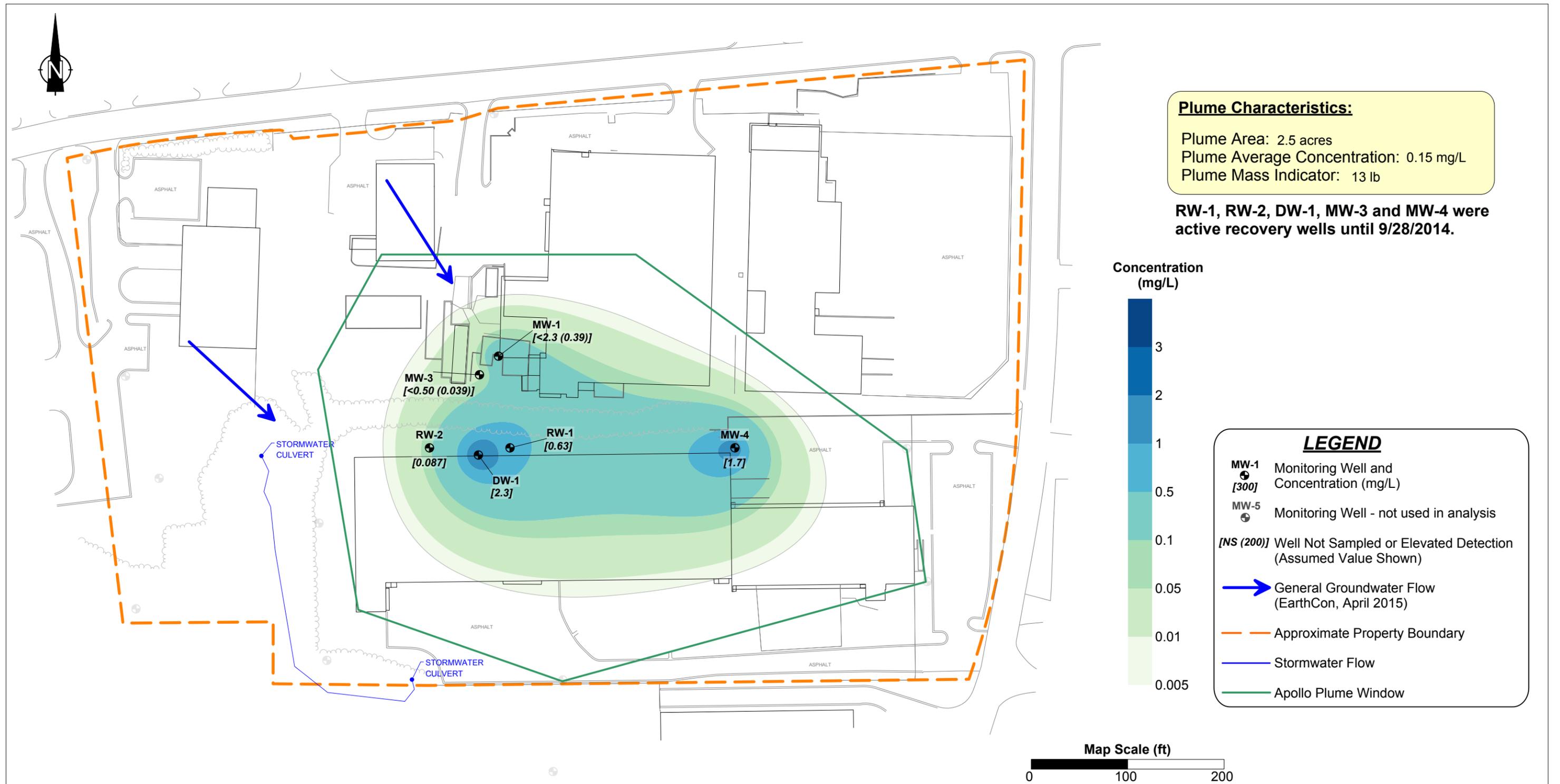
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Apollo Plume
1,1,1-Trichloroethane (1,1,1-TCA)
Apr-2015

Prepared by: SSW Checked by: DW Figure:

Project Number: 02.20140391.00

Appendix B
Apollo Plume Series Isopleth Maps
Tetrachloroethene



Base Map Source: Terramark Land Surveying, Inc. (6/5/2012)

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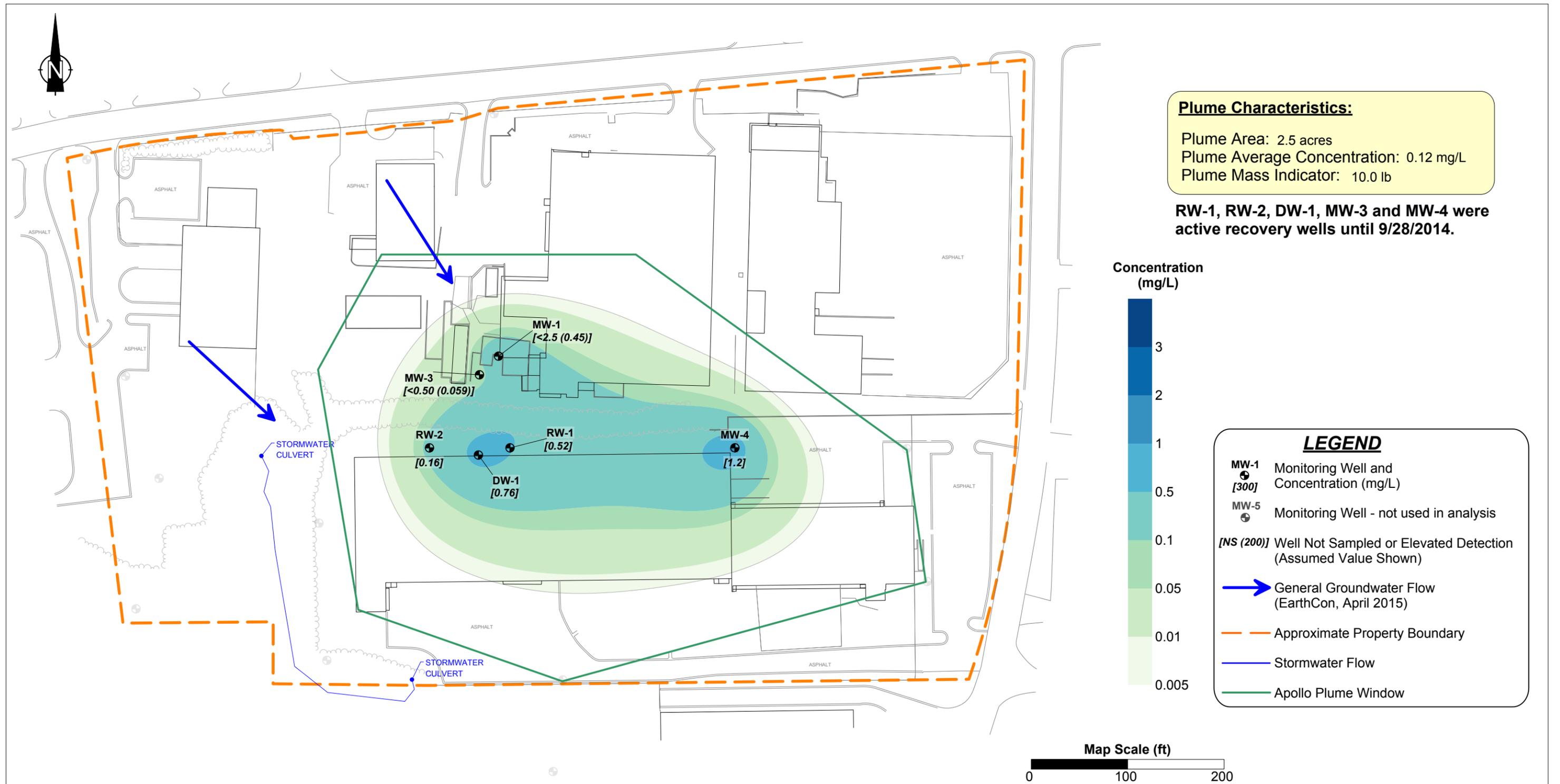
Project Number: 02.20140391.00



1880 West Oak Parkway, Bldg. 100 Suite 106
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**Apollo Plume
 Tetrachloroethene (PCE)
 Jan-2005**

Prepared by: SSW Checked by: DW Figure:



Base Map Source: Terramark Land Surveying, Inc. (6/5/2012)

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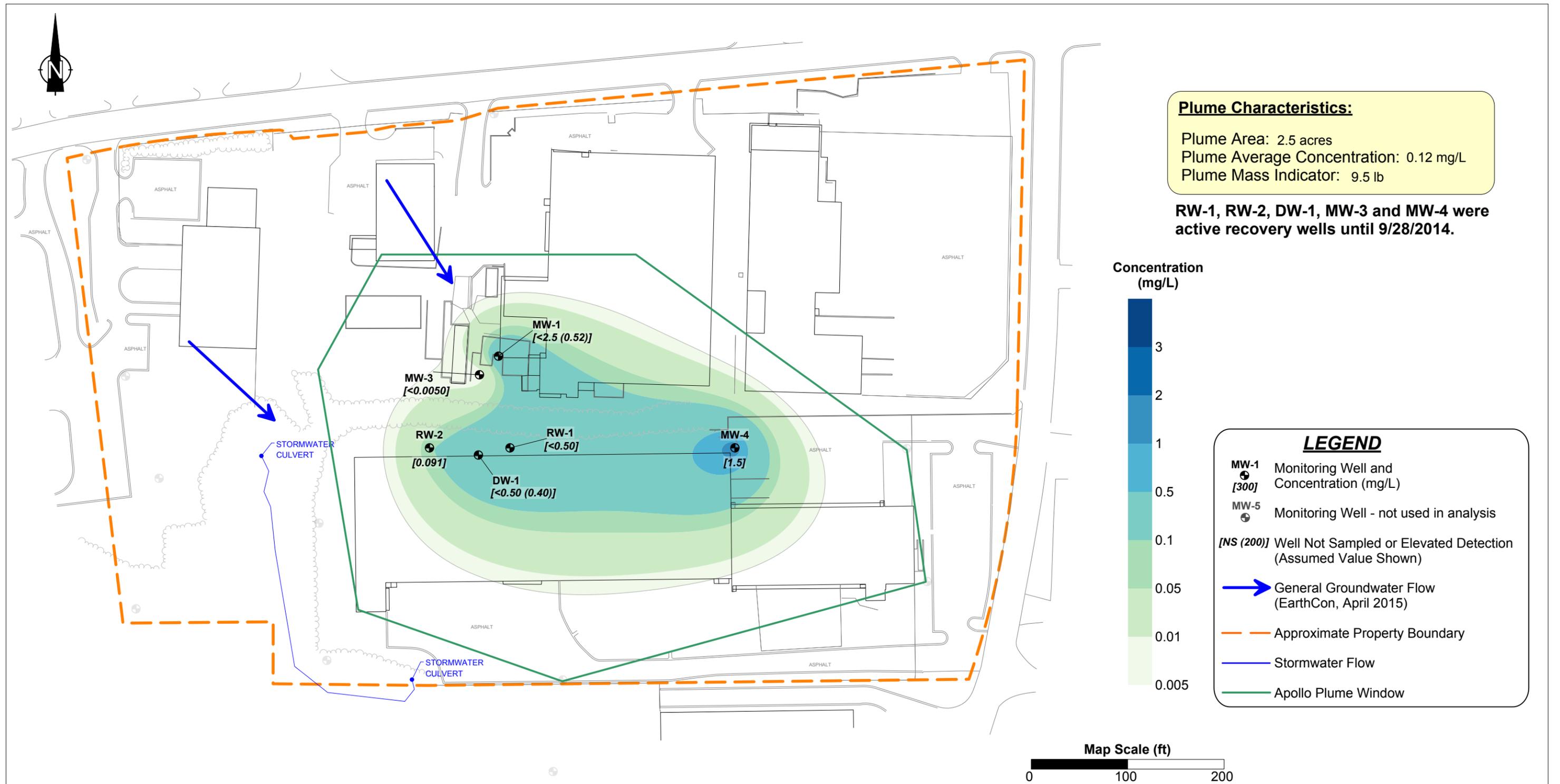
Project Number: 02.20140391.00



1880 West Oak Parkway, Bldg. 100 Suite 106
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**Apollo Plume
 Tetrachloroethene (PCE)
 Dec-2005**

Prepared by: SSW Checked by: DW Figure:



Base Map Source: Terramark Land Surveying, Inc. (6/5/2012)

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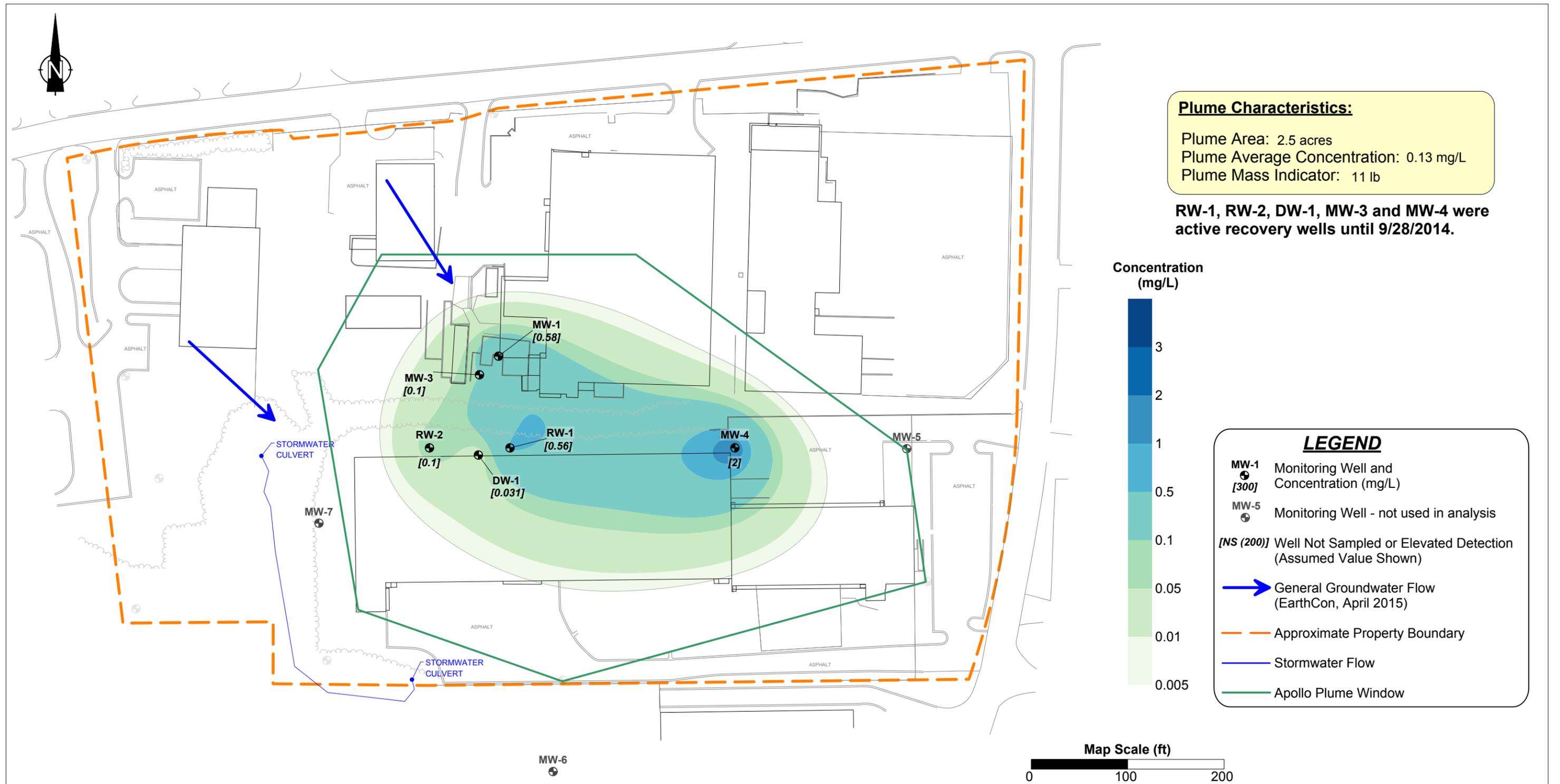
Project Number: 02.20140391.00



1880 West Oak Parkway, Bldg. 100 Suite 106
 Marietta, Georgia 30062

**Apollo Plume
 Tetrachloroethene (PCE)
 Jul-2006**

Prepared by: SSW Checked by: DW Figure:



Base Map Source: Terramark Land Surveying, Inc. (6/5/2012)

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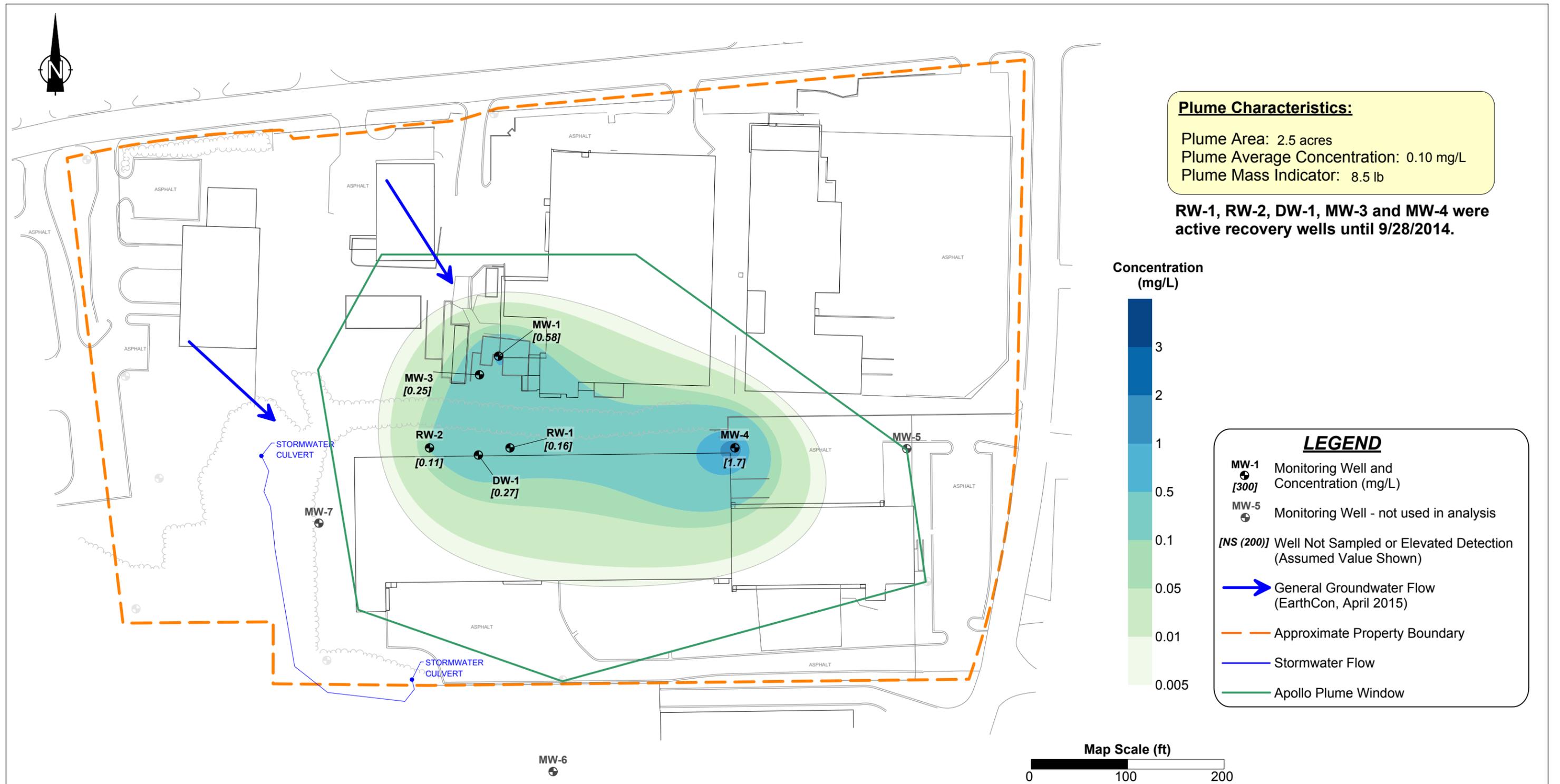
Project Number: 02.20140391.00



1880 West Oak Parkway, Bldg. 100 Suite 106
 Marietta, Georgia 30062

**Apollo Plume
 Tetrachloroethene (PCE)
 Feb-2007**

Prepared by: SSW Checked by: DW Figure:



Base Map Source: Terramark Land Surveying, Inc. (6/5/2012)

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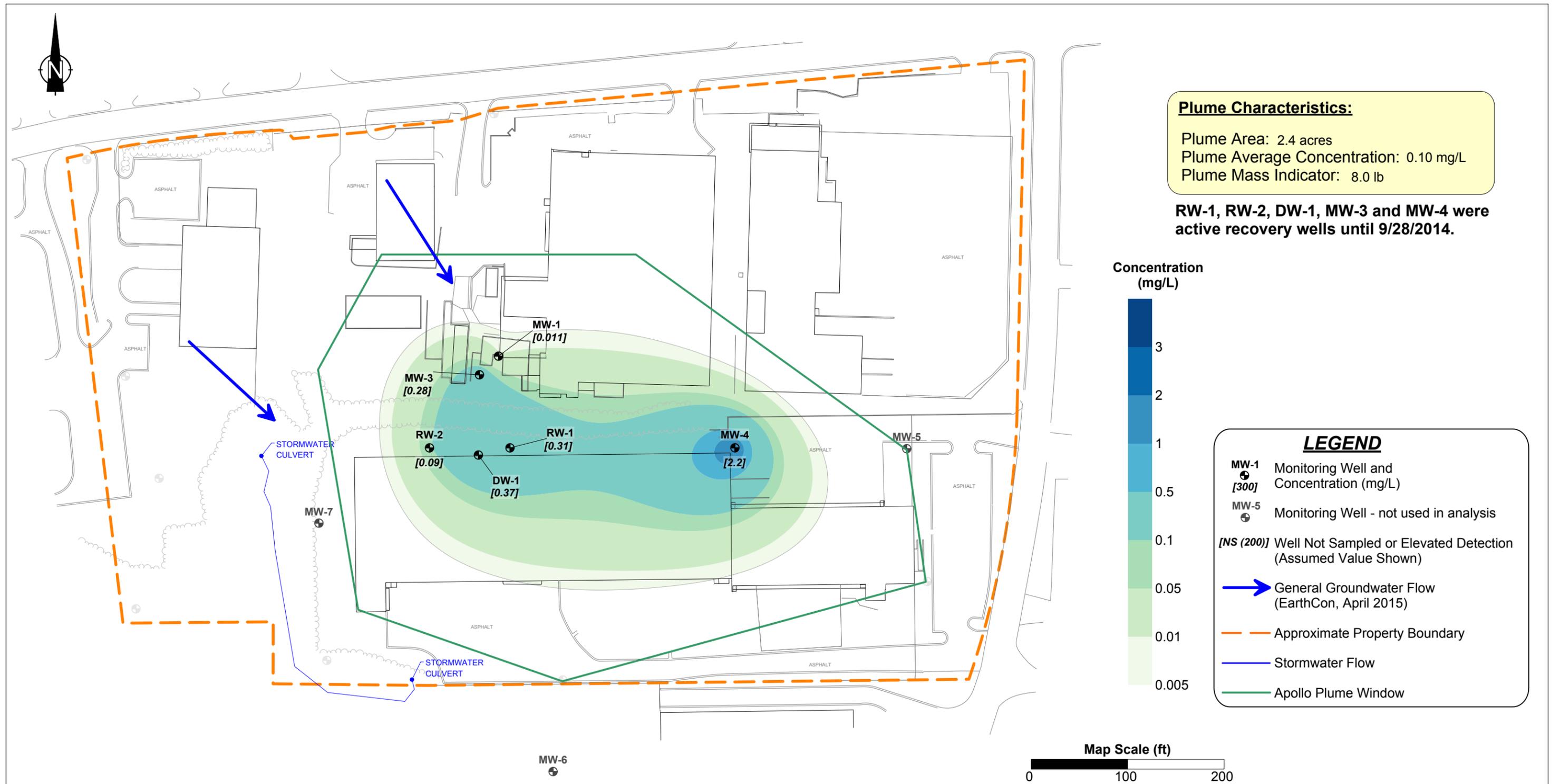
Project Number: 02.20140391.00



1880 West Oak Parkway, Bldg. 100 Suite 106
 Marietta, Georgia 30062

**Apollo Plume
 Tetrachloroethene (PCE)
 Aug-2007**

Prepared by: SSW Checked by: DW Figure:



Base Map Source: Terramark Land Surveying, Inc. (6/5/2012)

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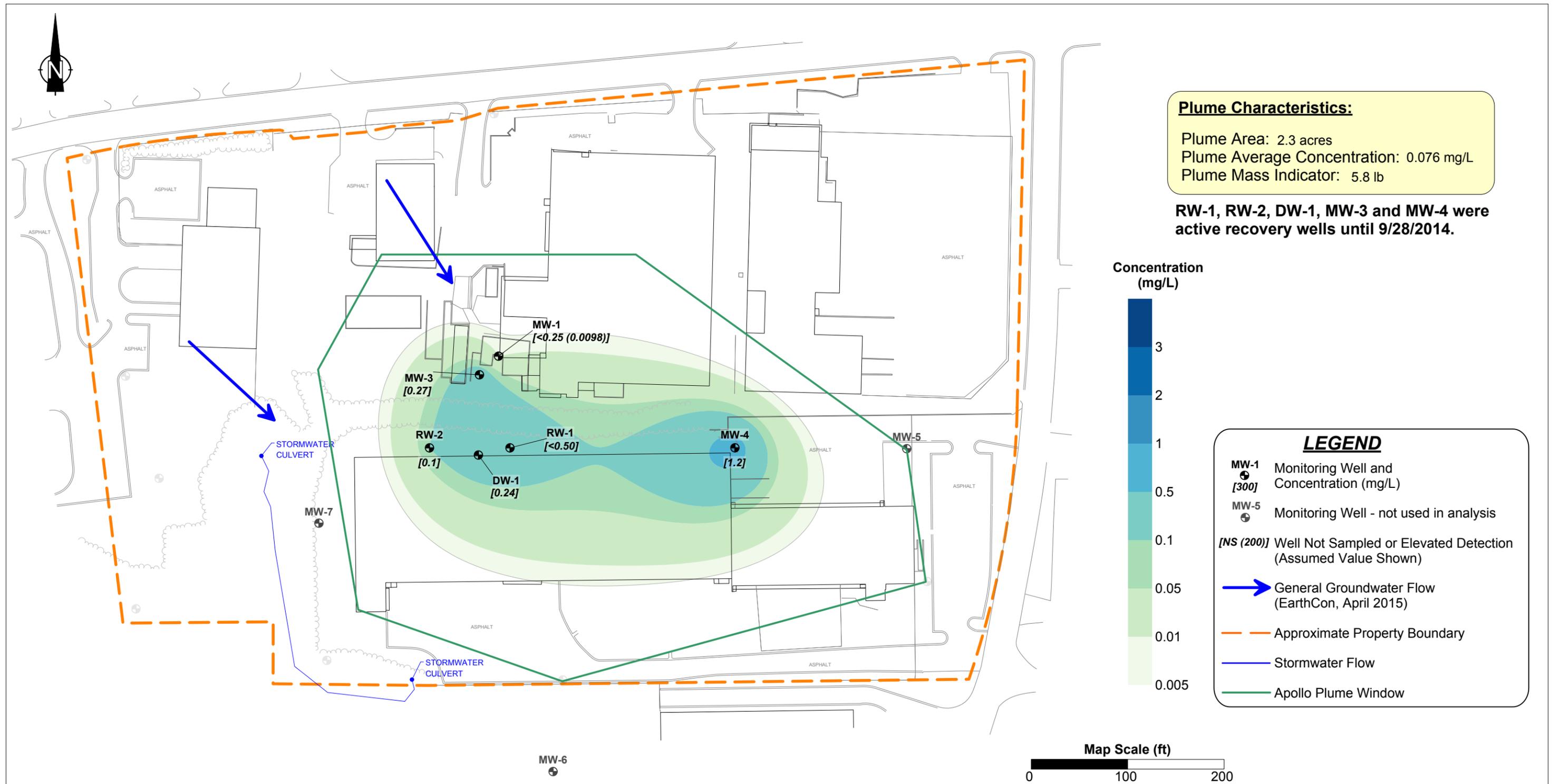
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**Apollo Plume
 Tetrachloroethene (PCE)
 Feb-2008**

Prepared by: SSW Checked by: DW Figure:



Base Map Source: Terramark Land Surveying, Inc. (6/5/2012)

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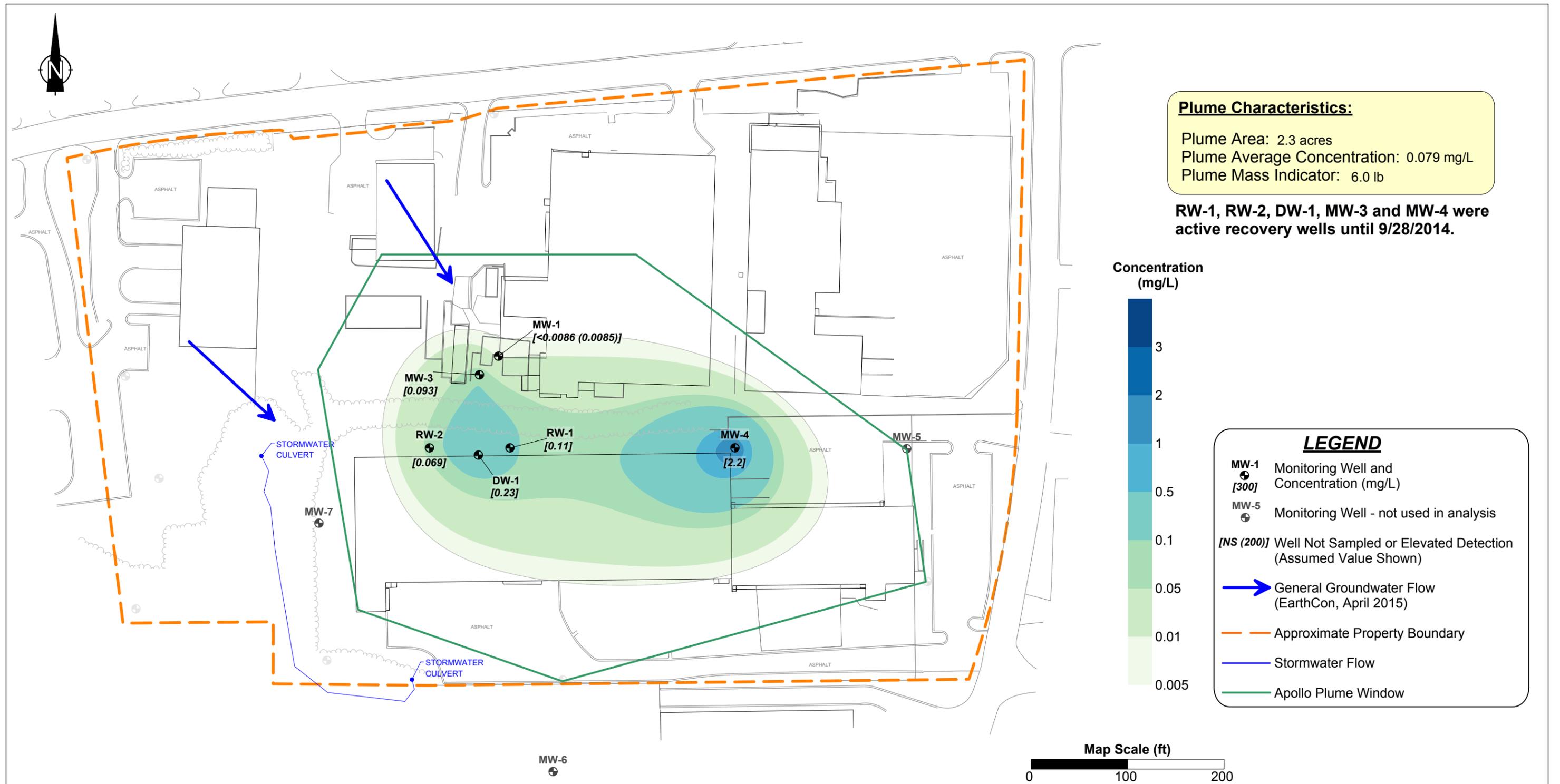
Project Number: 02.20140391.00



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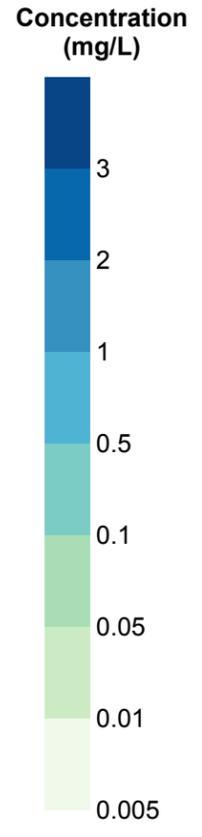
**Apollo Plume
 Tetrachloroethene (PCE)
 Nov-2008**

Prepared by: SSW Checked by: DW Figure:



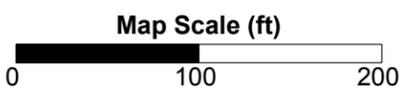
Plume Characteristics:
 Plume Area: 2.3 acres
 Plume Average Concentration: 0.079 mg/L
 Plume Mass Indicator: 6.0 lb

RW-1, RW-2, DW-1, MW-3 and MW-4 were active recovery wells until 9/28/2014.



LEGEND

- MW-1 [300] Monitoring Well and Concentration (mg/L)
- MW-5 [NS (200)] Monitoring Well - not used in analysis
- [NS (200)] Well Not Sampled or Elevated Detection (Assumed Value Shown)
- ➔ General Groundwater Flow (EarthCon, April 2015)
- - - - - Approximate Property Boundary
- Stormwater Flow
- Apollo Plume Window



Base Map Source: Terramark Land Surveying, Inc. (6/5/2012)

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 HSI Site Number 10333

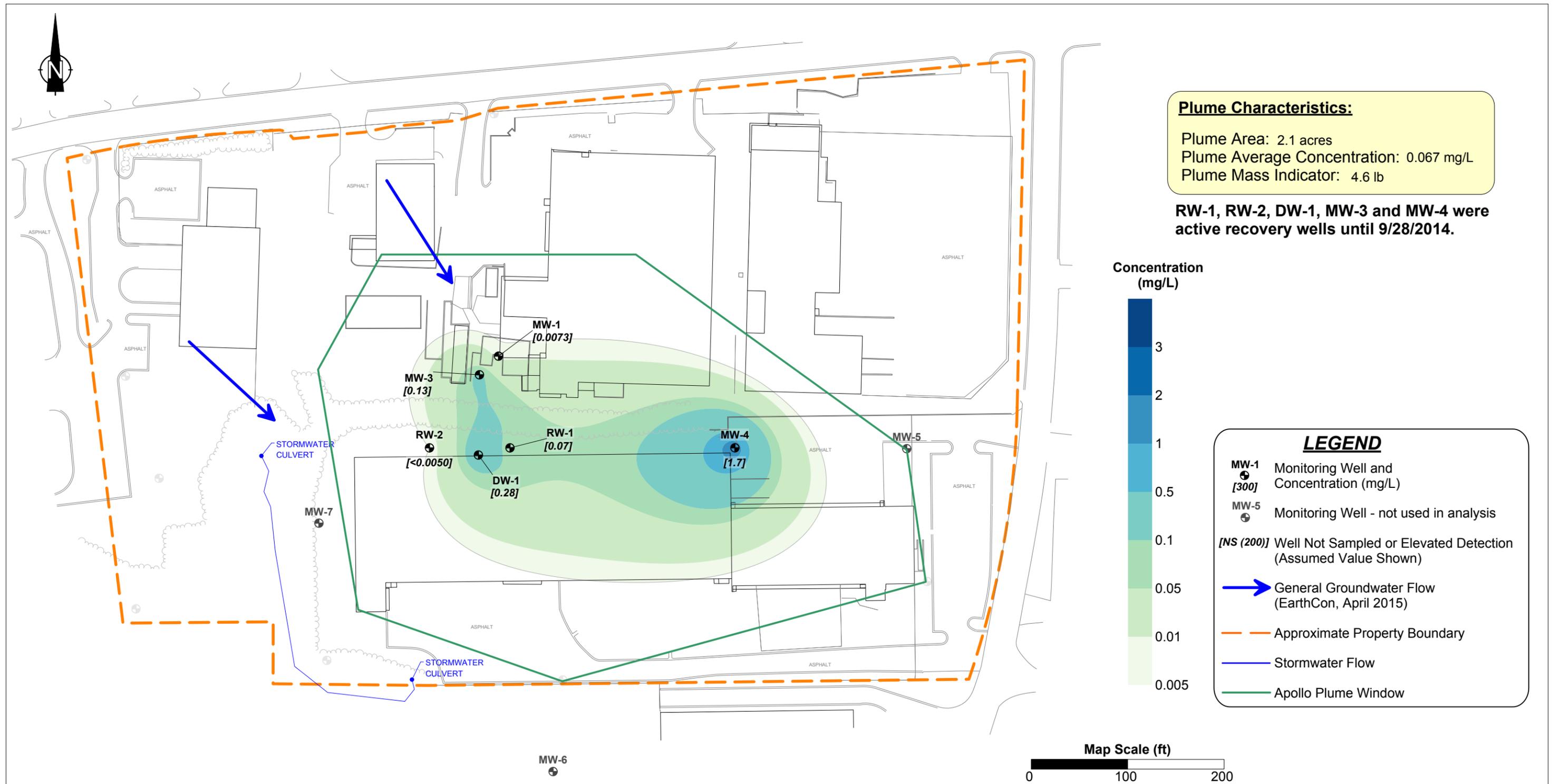


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 Marietta, Georgia 30062

**Apollo Plume
 Tetrachloroethene (PCE)
 Sep-2009**

Project Number: 02.20140391.00

Prepared by: SSW Checked by: DW Figure:



Base Map Source: Terramark Land Surveying, Inc. (6/5/2012)

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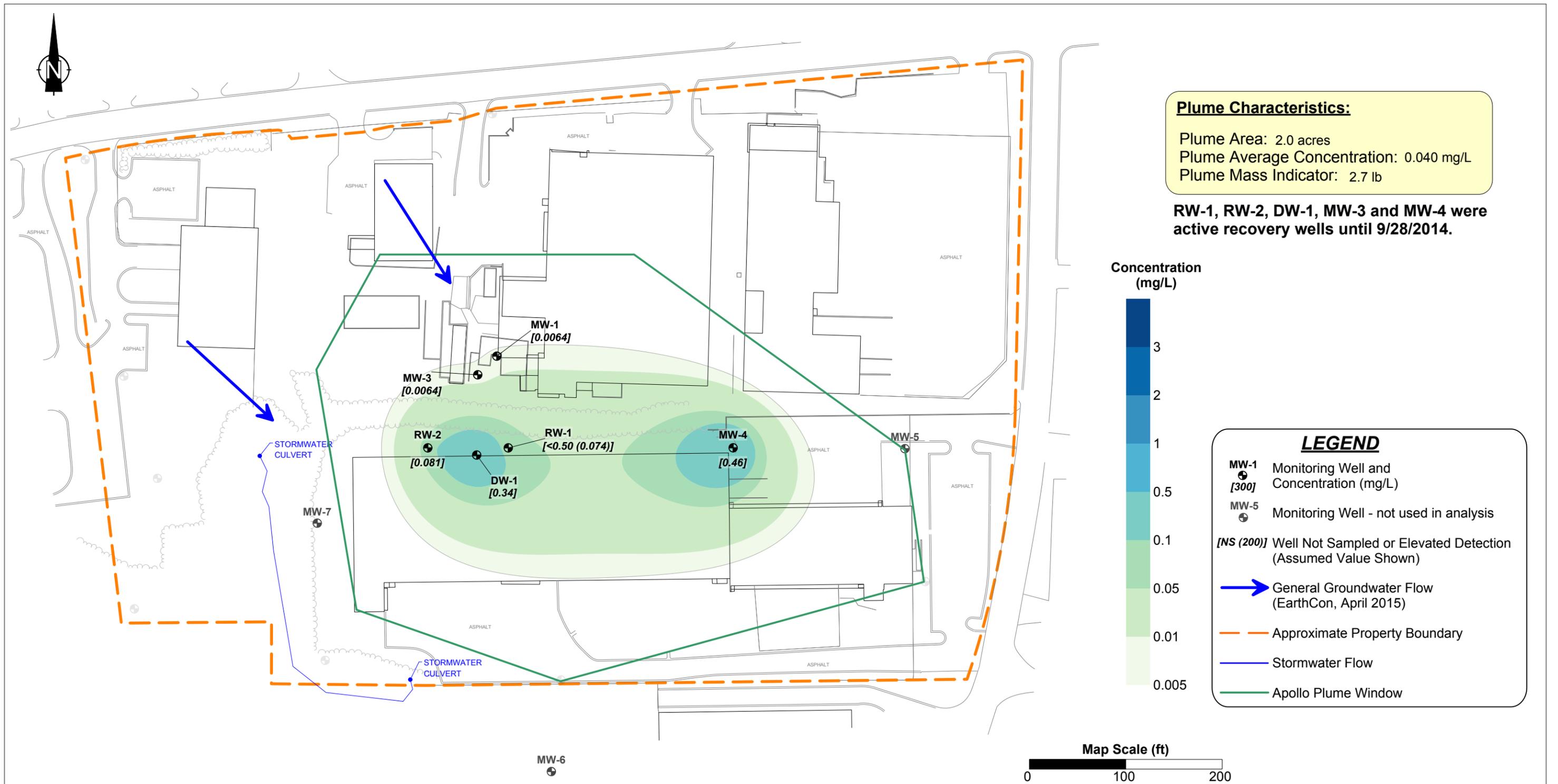
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**Apollo Plume
 Tetrachloroethene (PCE)
 Mar-2010**

Prepared by: SSW Checked by: DW Figure:



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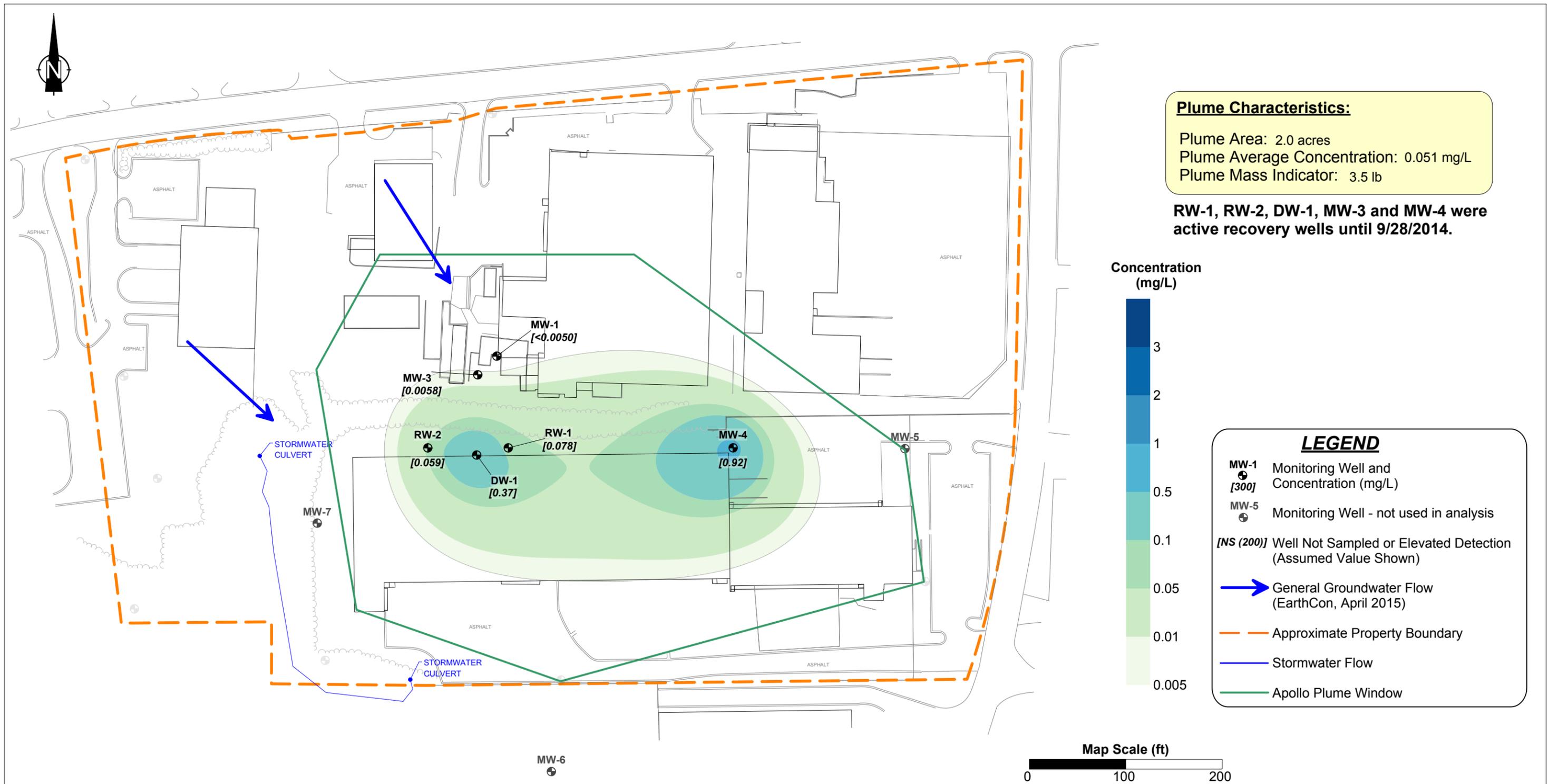
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**Apollo Plume
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 Sep-2010**

Prepared by: SSW Checked by: DW Figure:



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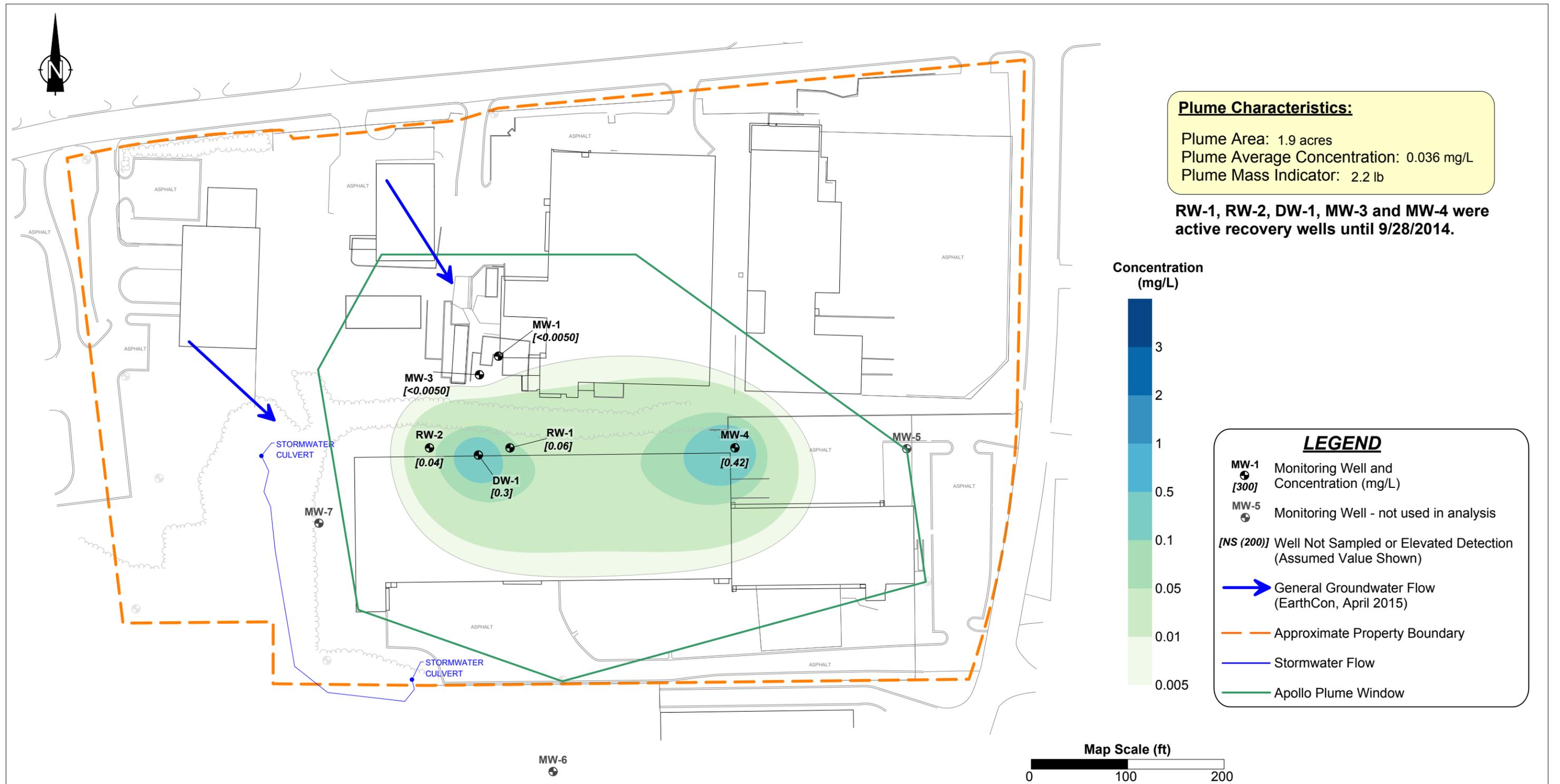
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**Apollo Plume
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 Apr-2011**

Prepared by: SSW Checked by: DW Figure:



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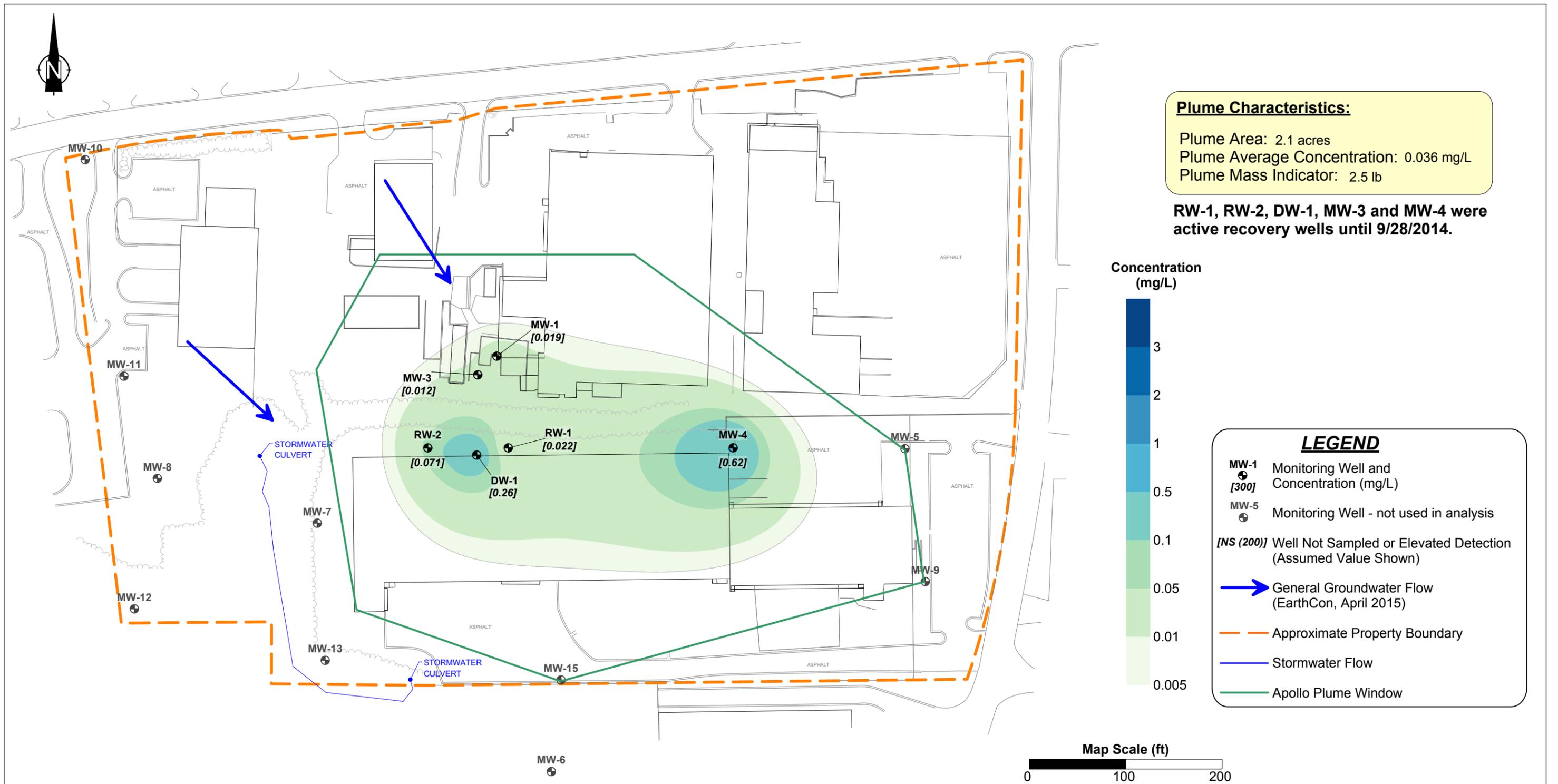
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**Apollo Plume
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 Oct-2011**

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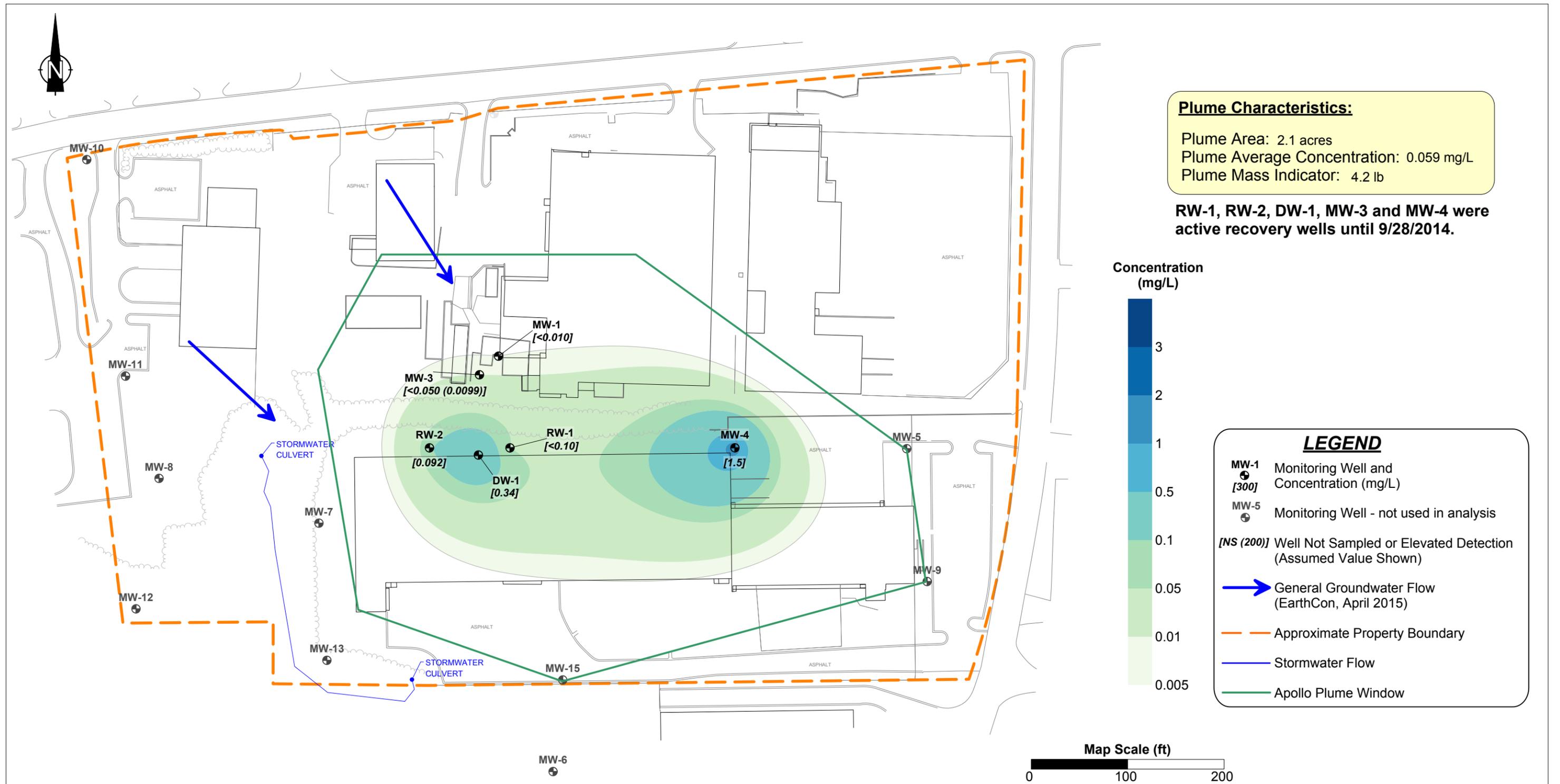


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Project Number: 02.20140391.00

**Apollo Plume
 Tetrachloroethene (PCE)
 Sep-2012**

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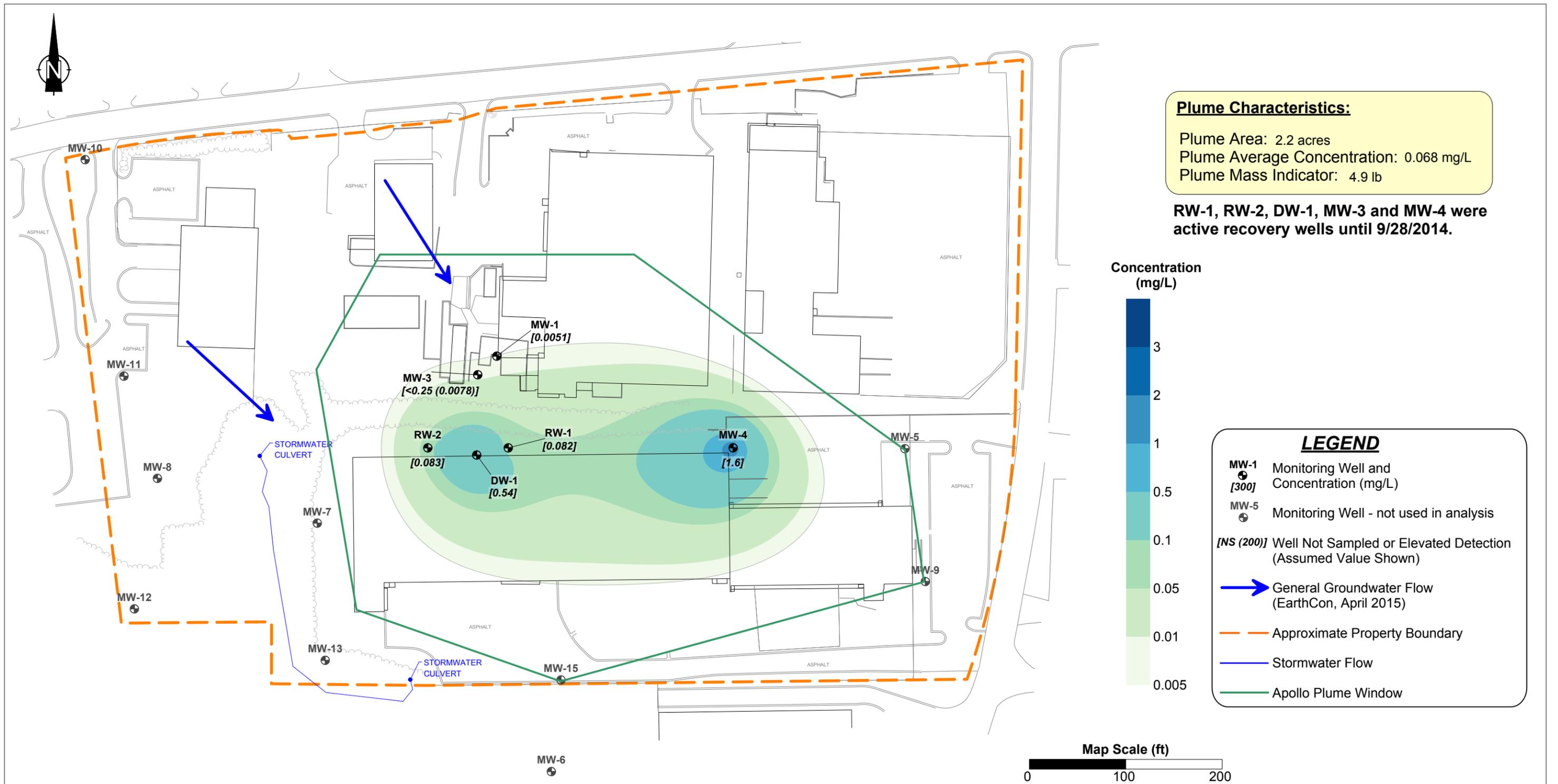
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**Apollo Plume
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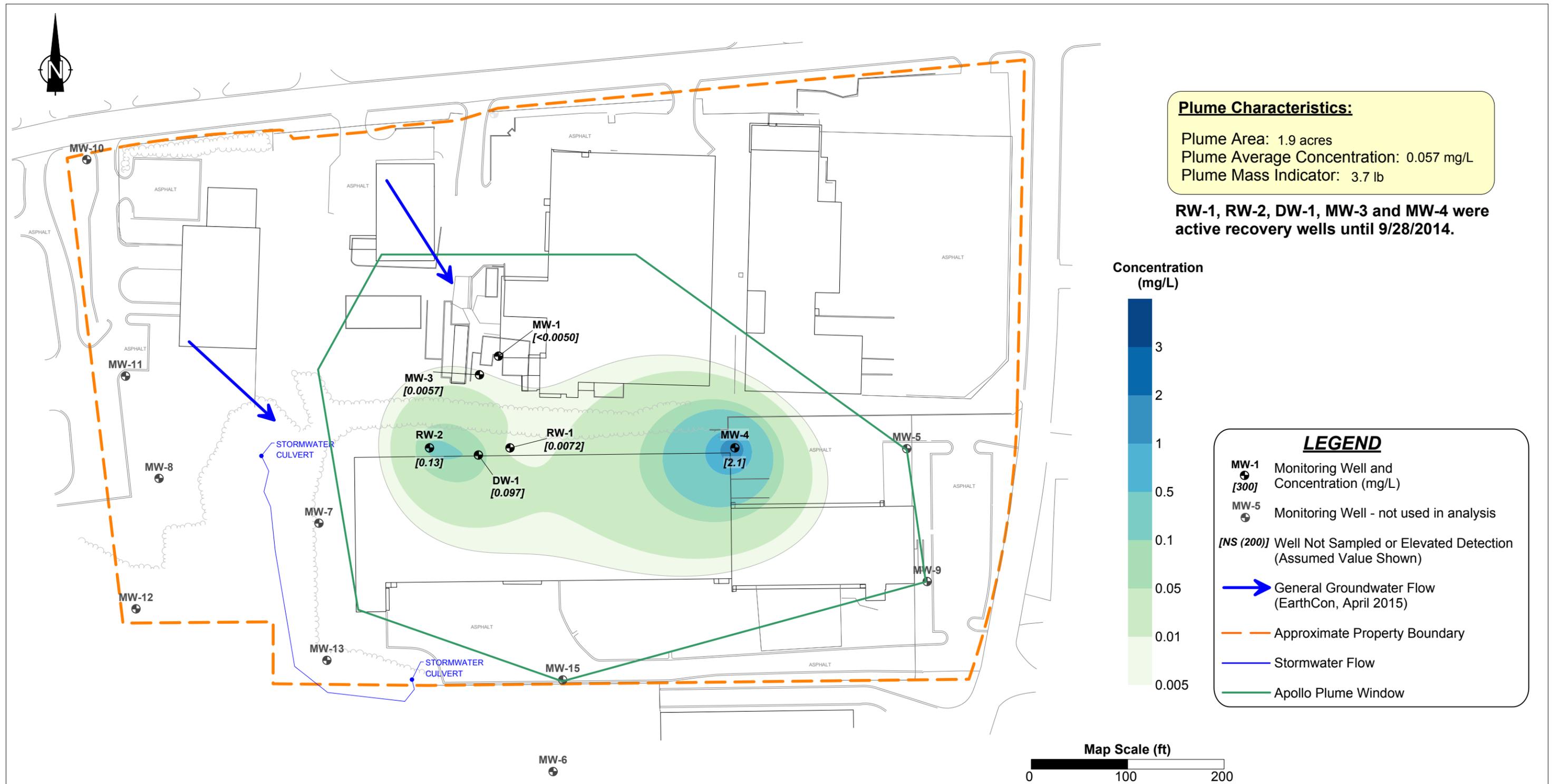
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**Apollo Plume
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 Dec-2013**

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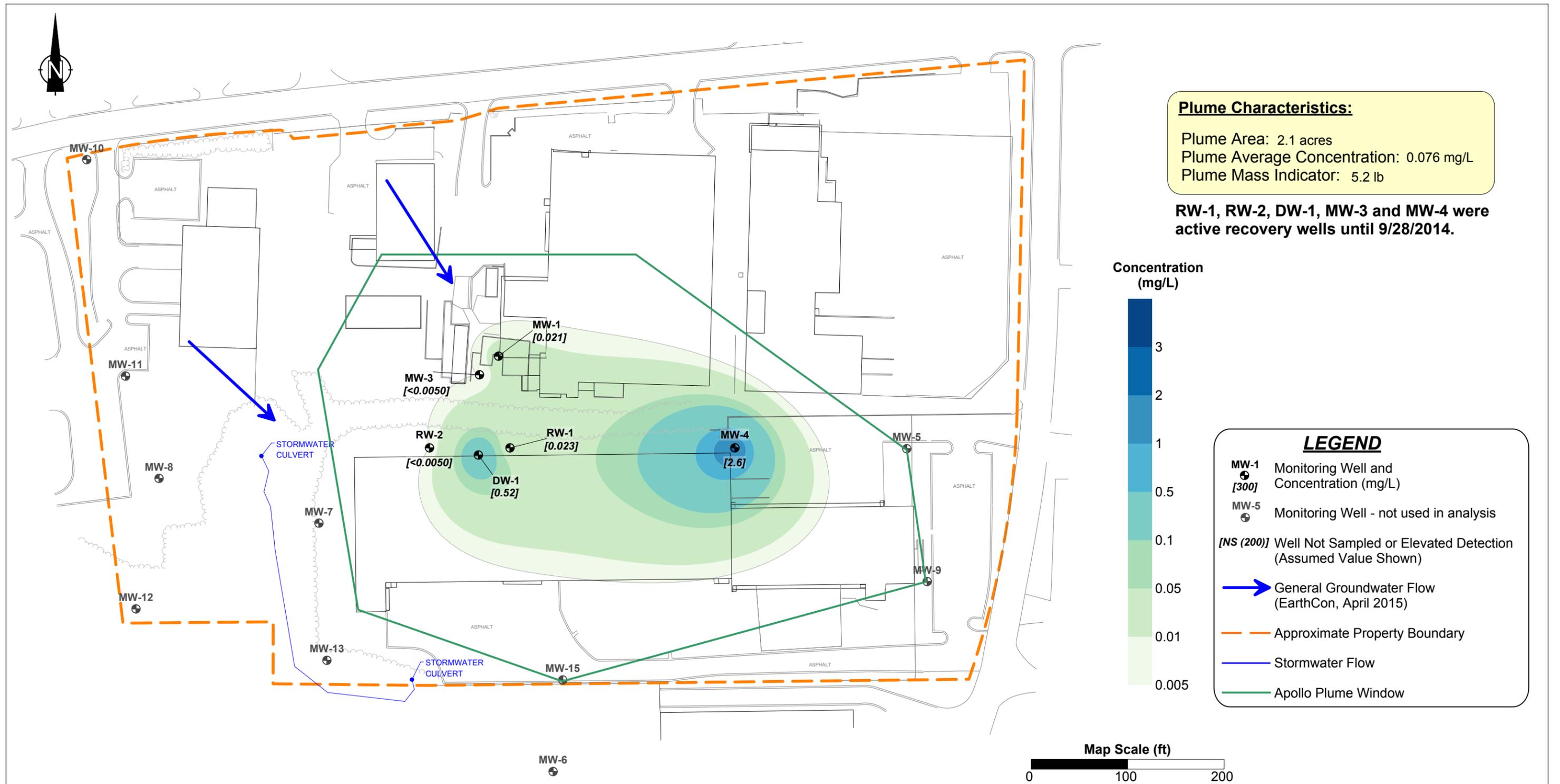
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**Apollo Plume
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 Oct-2014**

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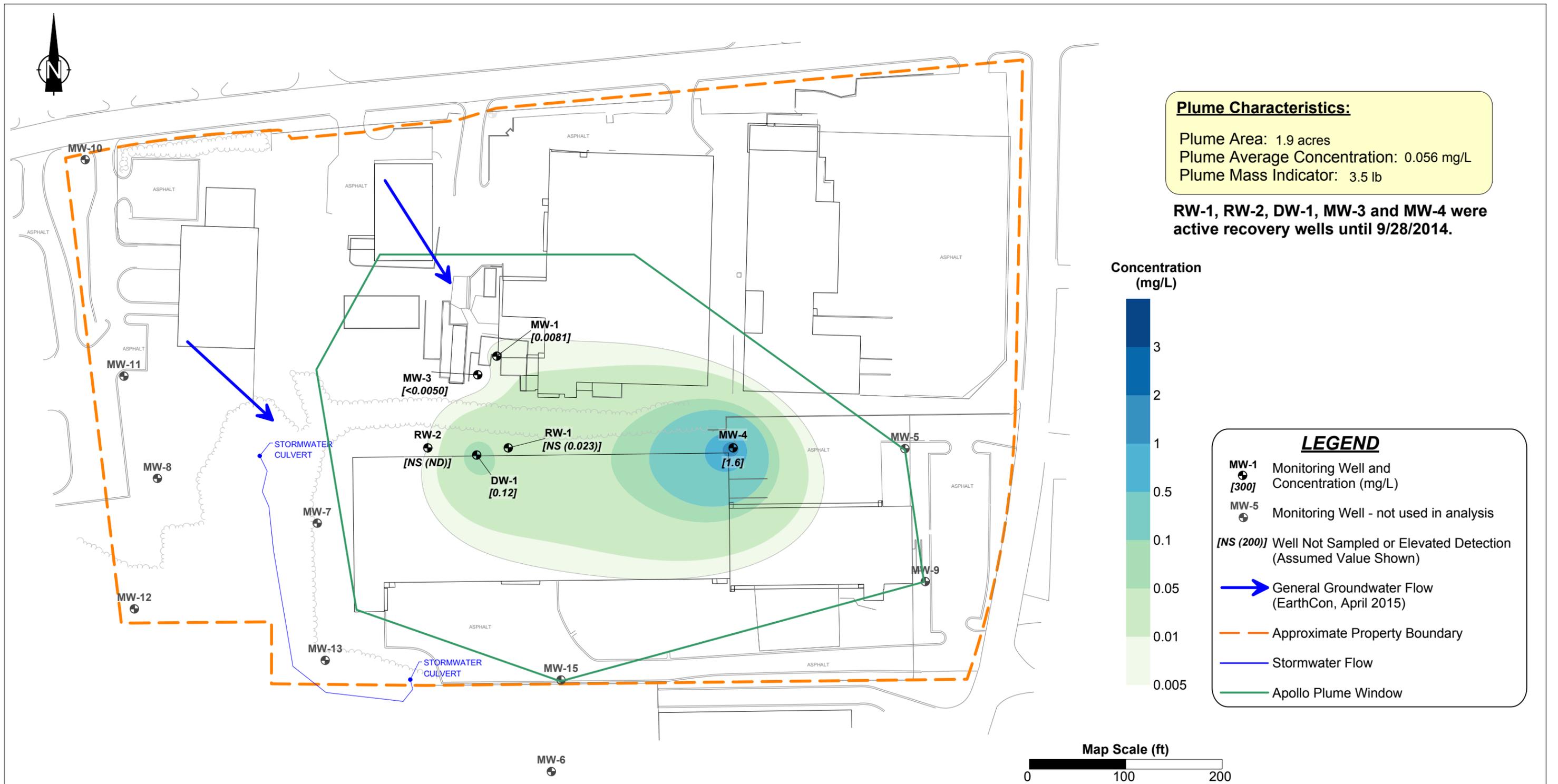
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**Apollo Plume
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 Jan-2015**

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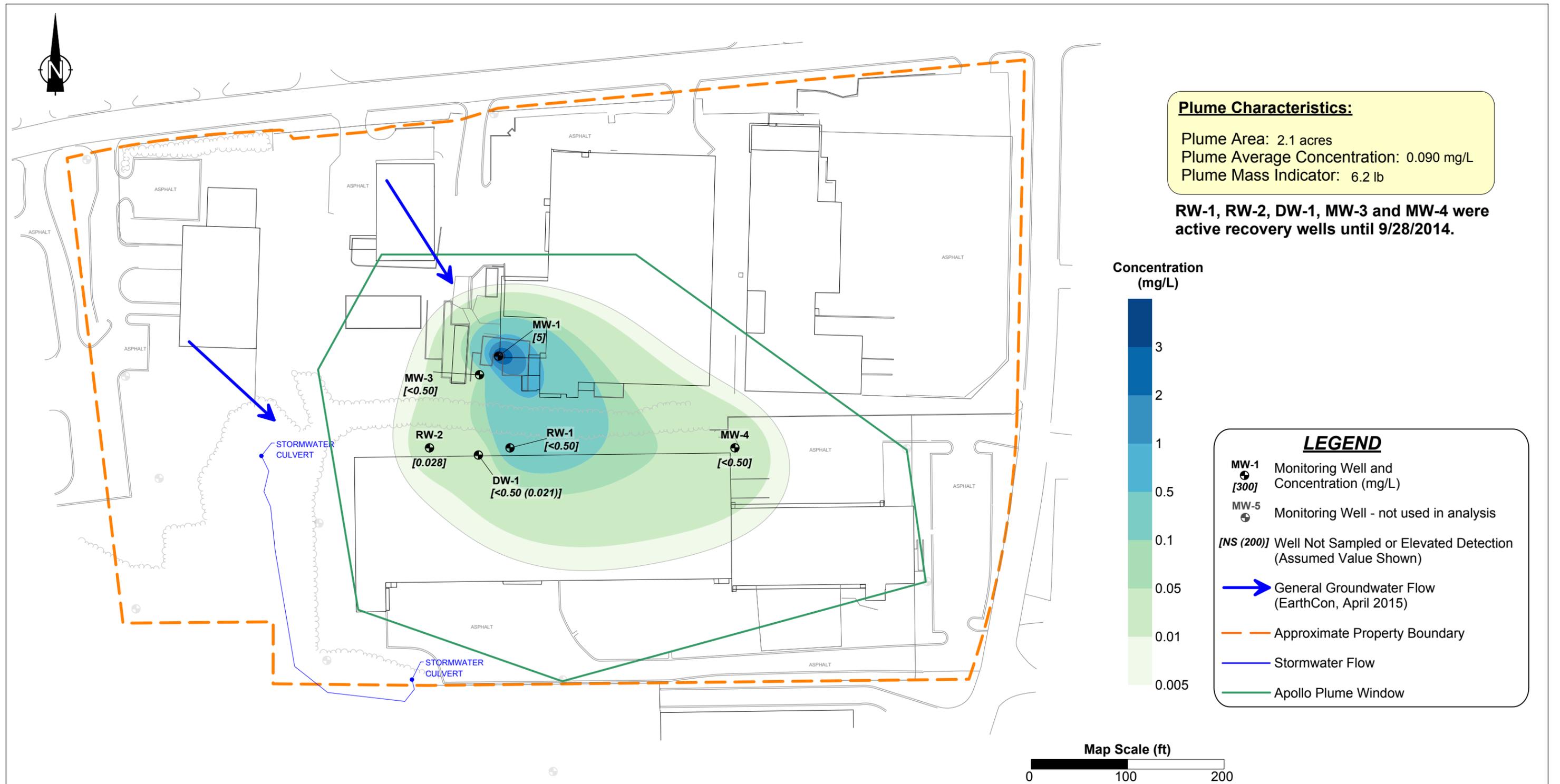
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**Apollo Plume
 Tetrachloroethene (PCE)
 Apr-2015**

Prepared by: SSW Checked by: DW Figure:

Appendix C
Apollo Plume Series Isopleth Maps
Trichloroethene



Base Map Source: Terramark Land Surveying, Inc. (6/5/2012)

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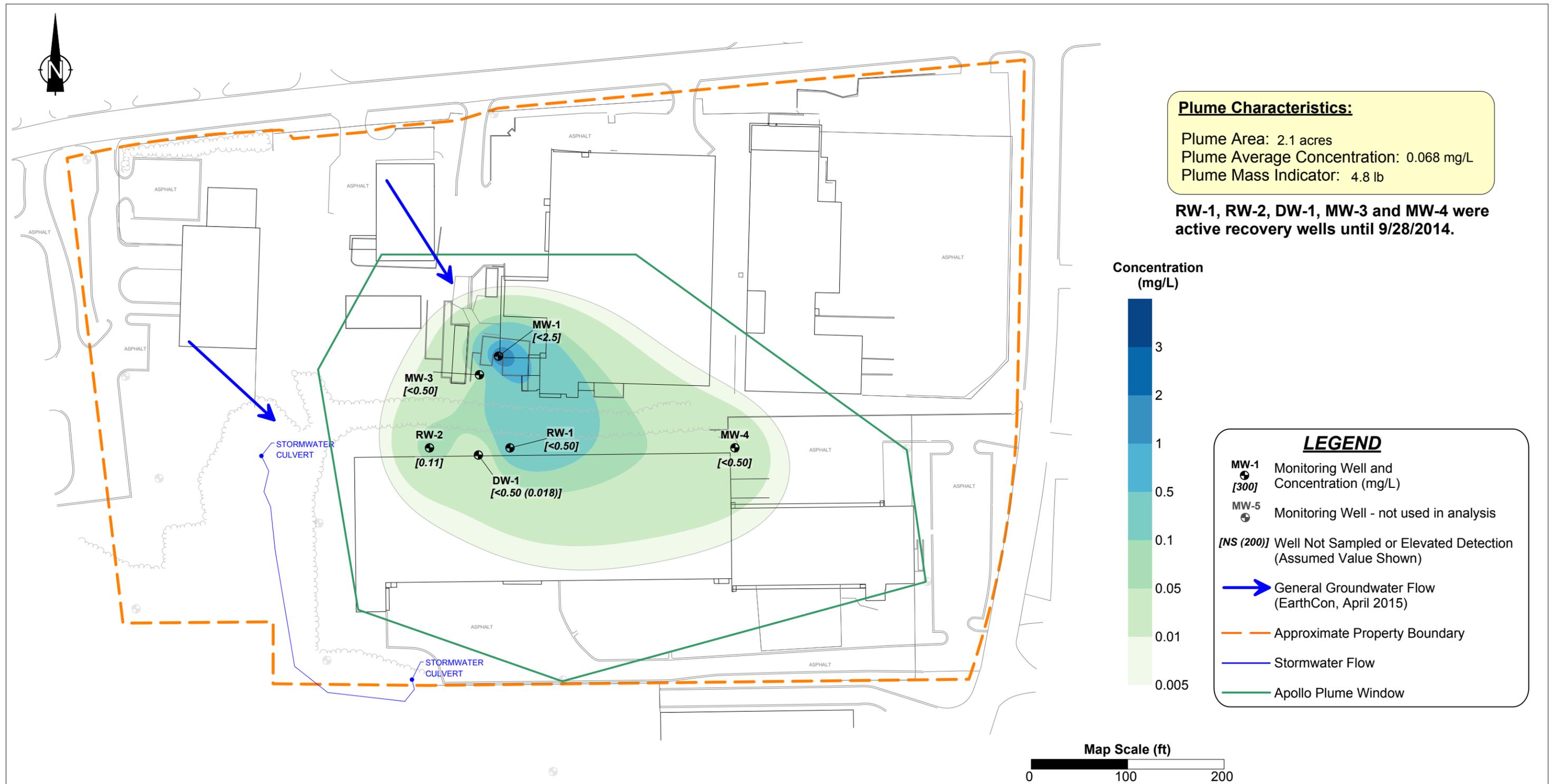
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**Apollo Plume
 Trichloroethene (TCE)
 Jan-2005**

Prepared by: SSW Checked by: DW Figure:



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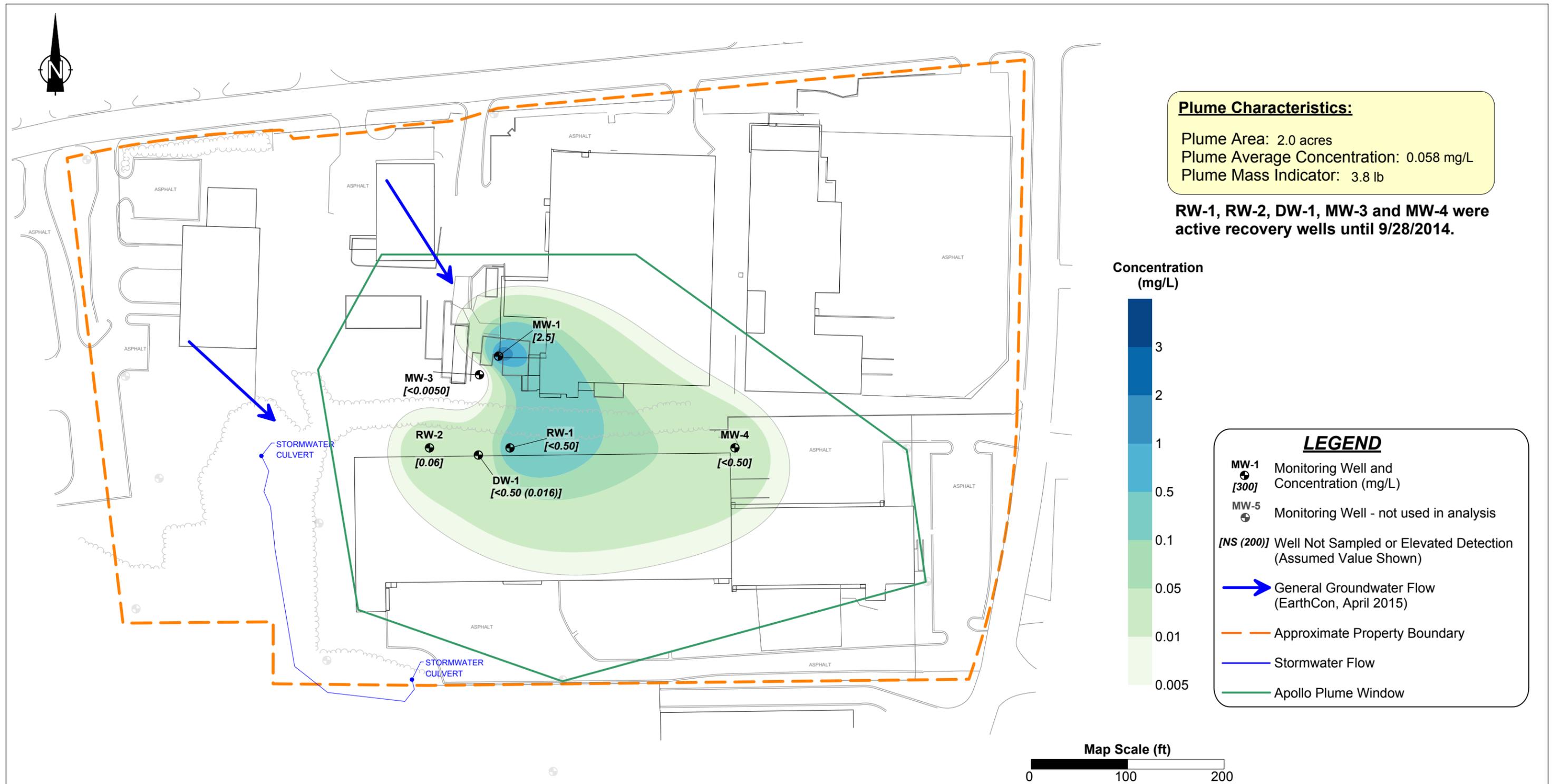
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**Apollo Plume
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 Dec-2005**

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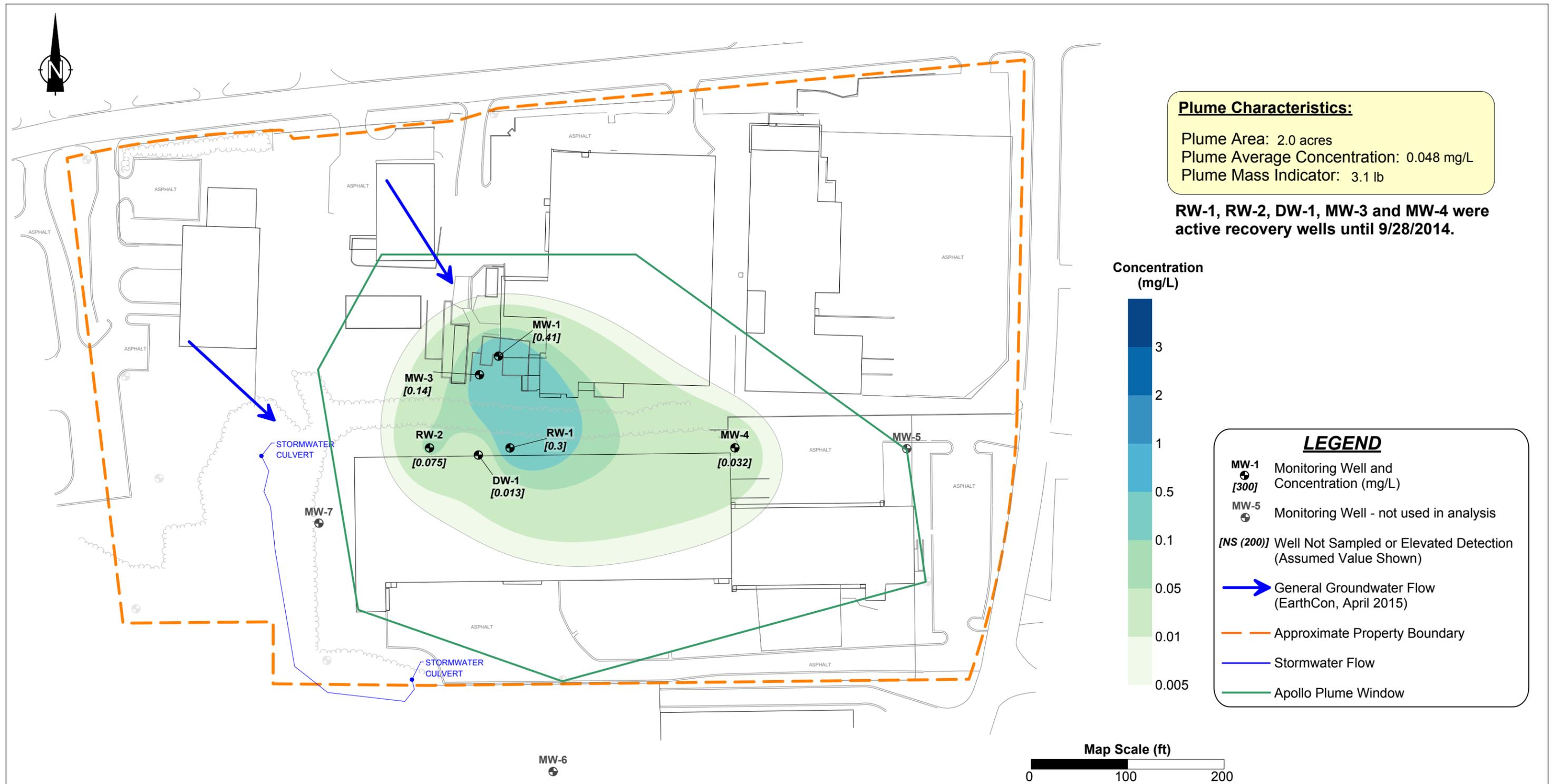
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**Apollo Plume
 Trichloroethene (TCE)
 Jul-2006**

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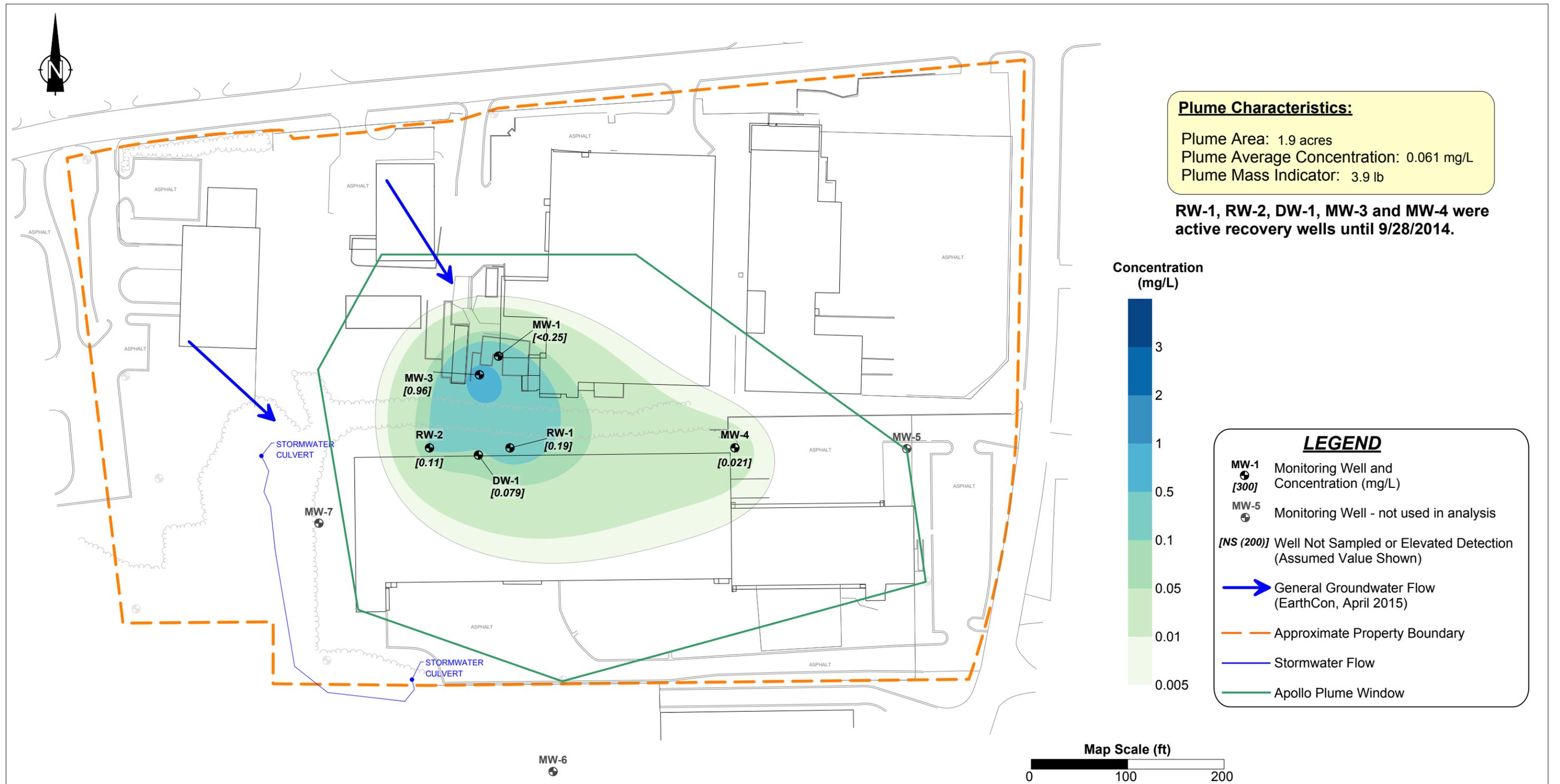
Project Number: 02.20140391.00



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**Apollo Plume
 Trichloroethene (TCE)
 Feb-2007**

Prepared by: SSW Checked by: DW Figure:



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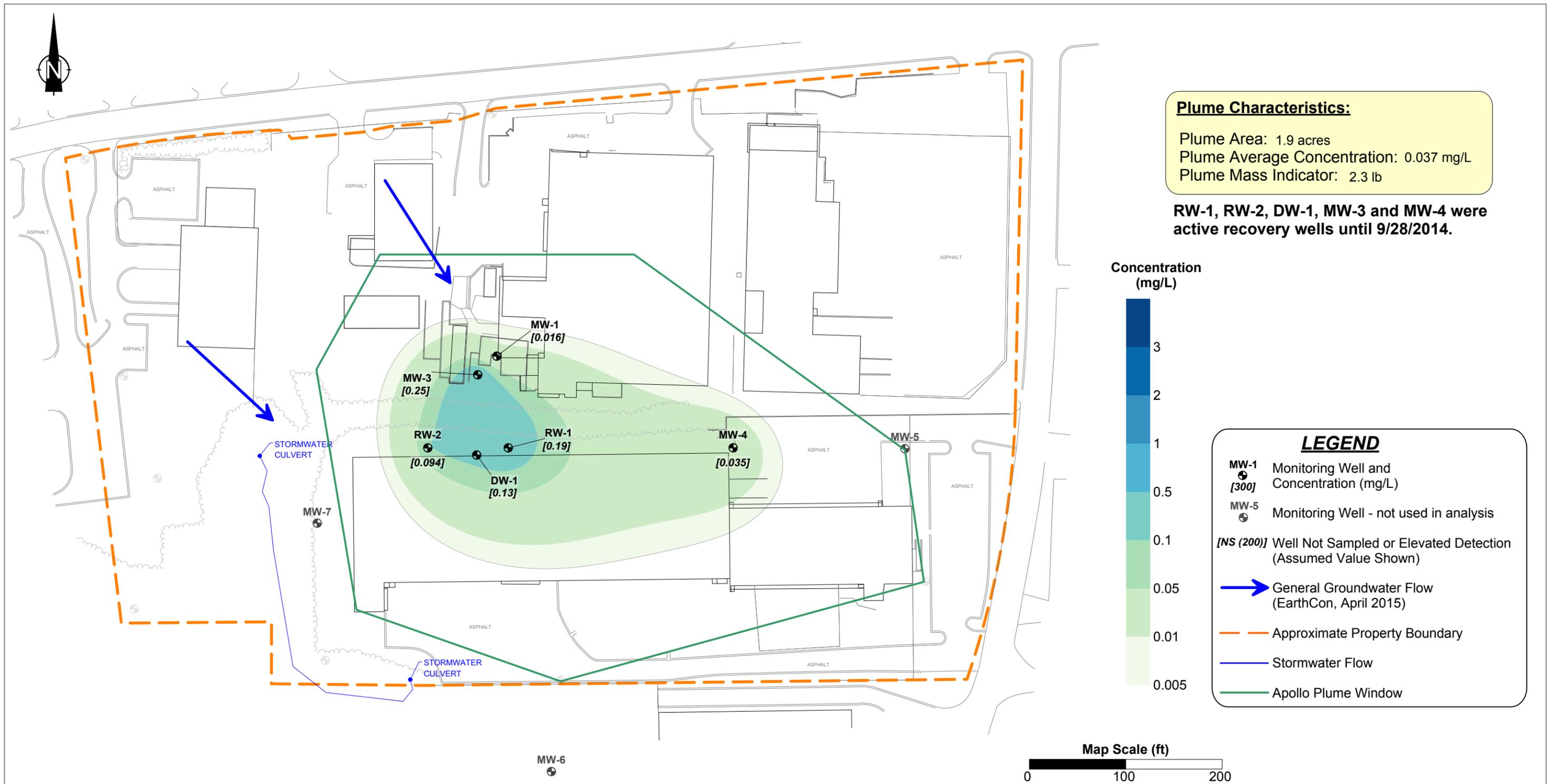
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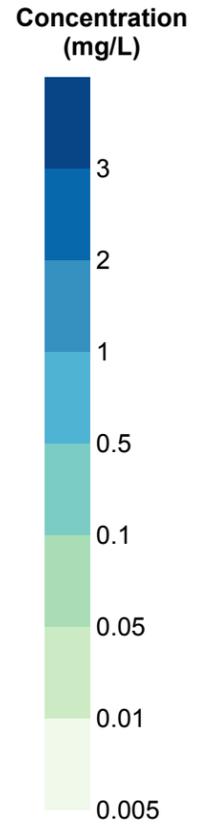
**Apollo Plume
 Trichloroethene (TCE)
 Aug-2007**

Prepared by: SSW Checked by: DW Figure:



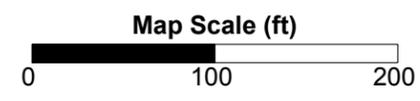
Plume Characteristics:
 Plume Area: 1.9 acres
 Plume Average Concentration: 0.037 mg/L
 Plume Mass Indicator: 2.3 lb

RW-1, RW-2, DW-1, MW-3 and MW-4 were active recovery wells until 9/28/2014.



LEGEND

- MW-1 [300] Monitoring Well and Concentration (mg/L)
- MW-5 [NS (200)] Monitoring Well - not used in analysis
- [NS (200)] Well Not Sampled or Elevated Detection (Assumed Value Shown)
- ➔ General Groundwater Flow (EarthCon, April 2015)
- - - Approximate Property Boundary
- Stormwater Flow
- Apollo Plume Window



Base Map Source: Terramark Land Surveying, Inc. (6/5/2012)

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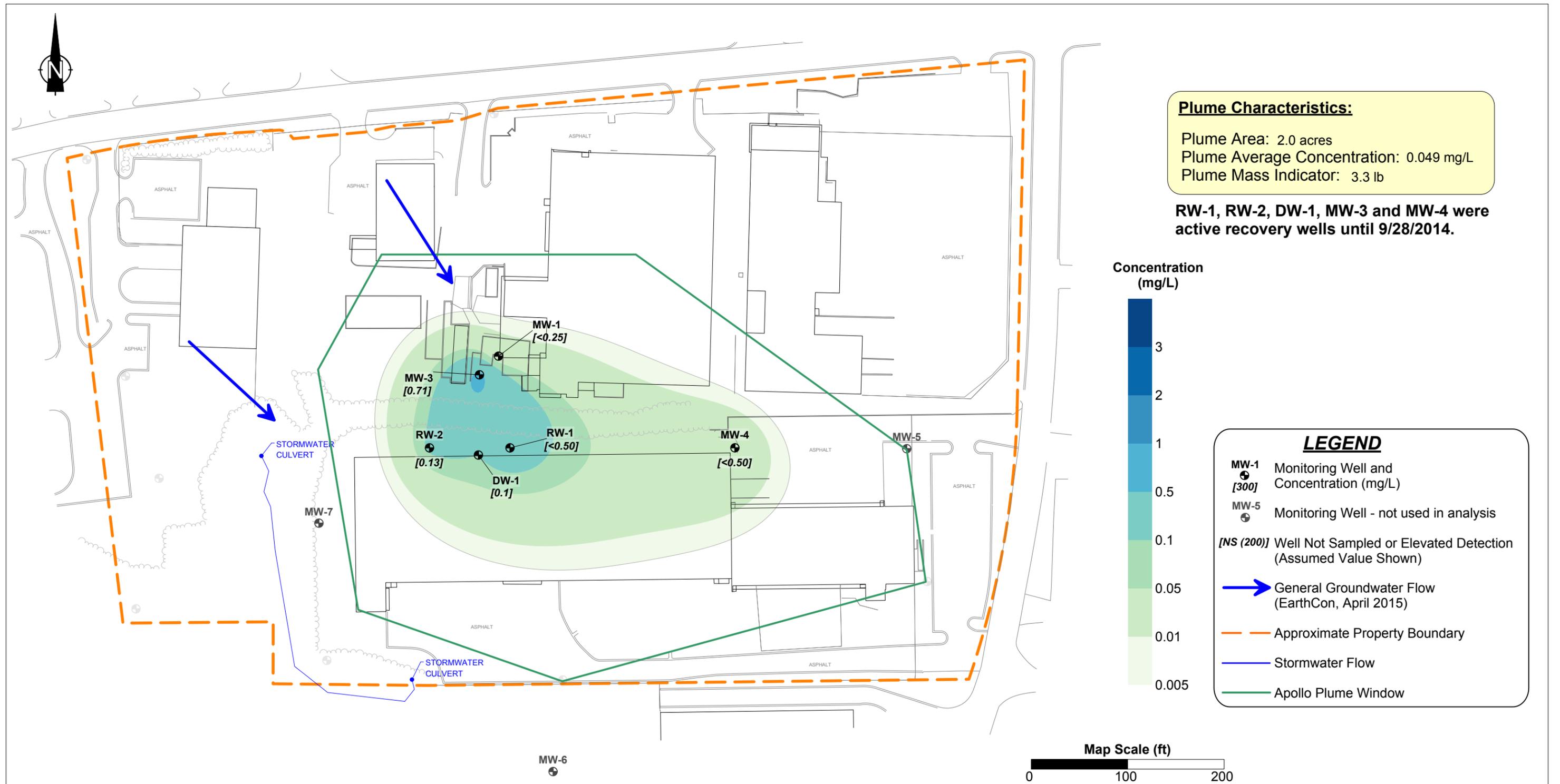


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Project Number: 02.20140391.00

**Apollo Plume
 Trichloroethene (TCE)
 Feb-2008**

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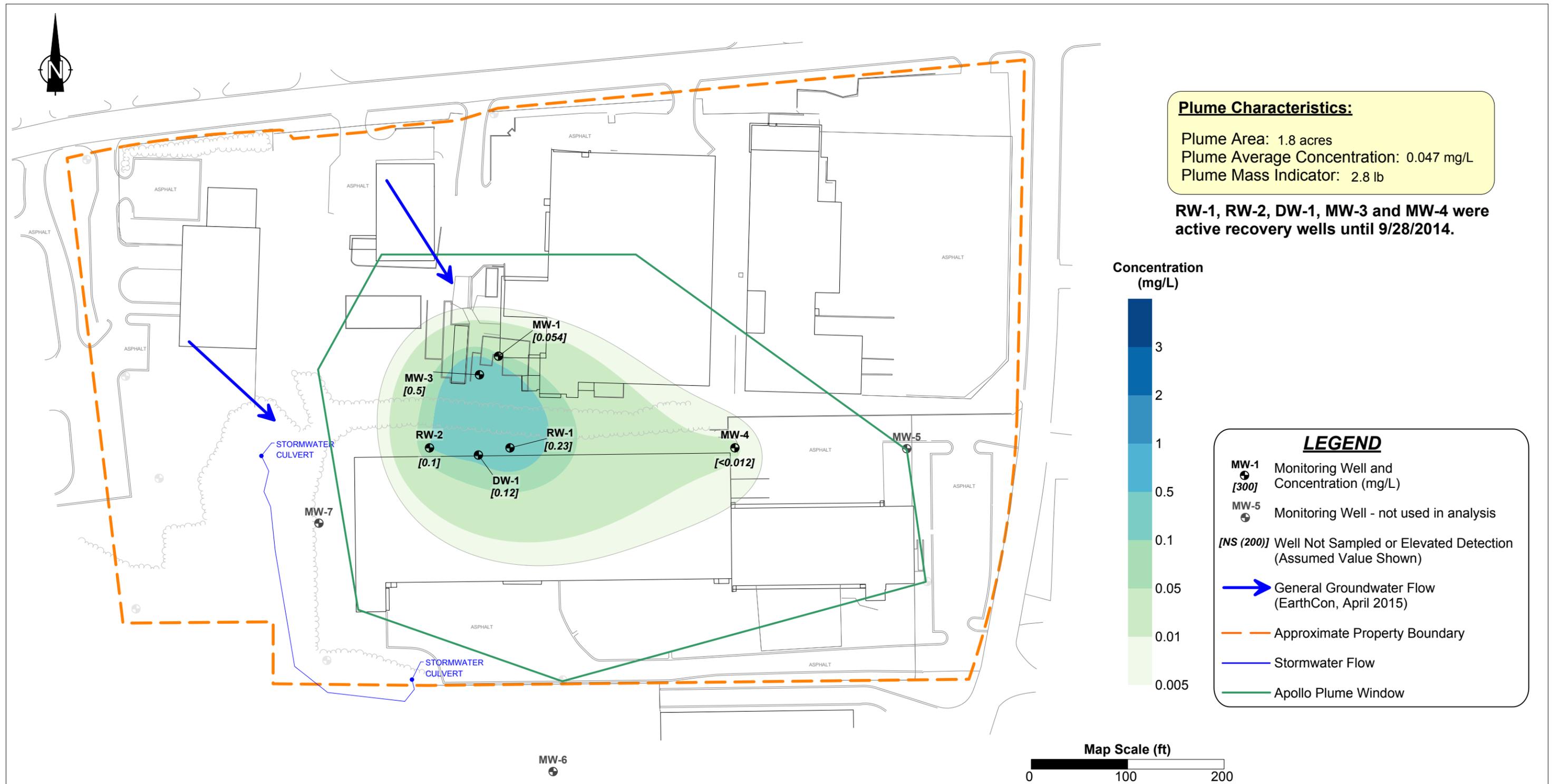
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**Apollo Plume
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 Nov-2008**

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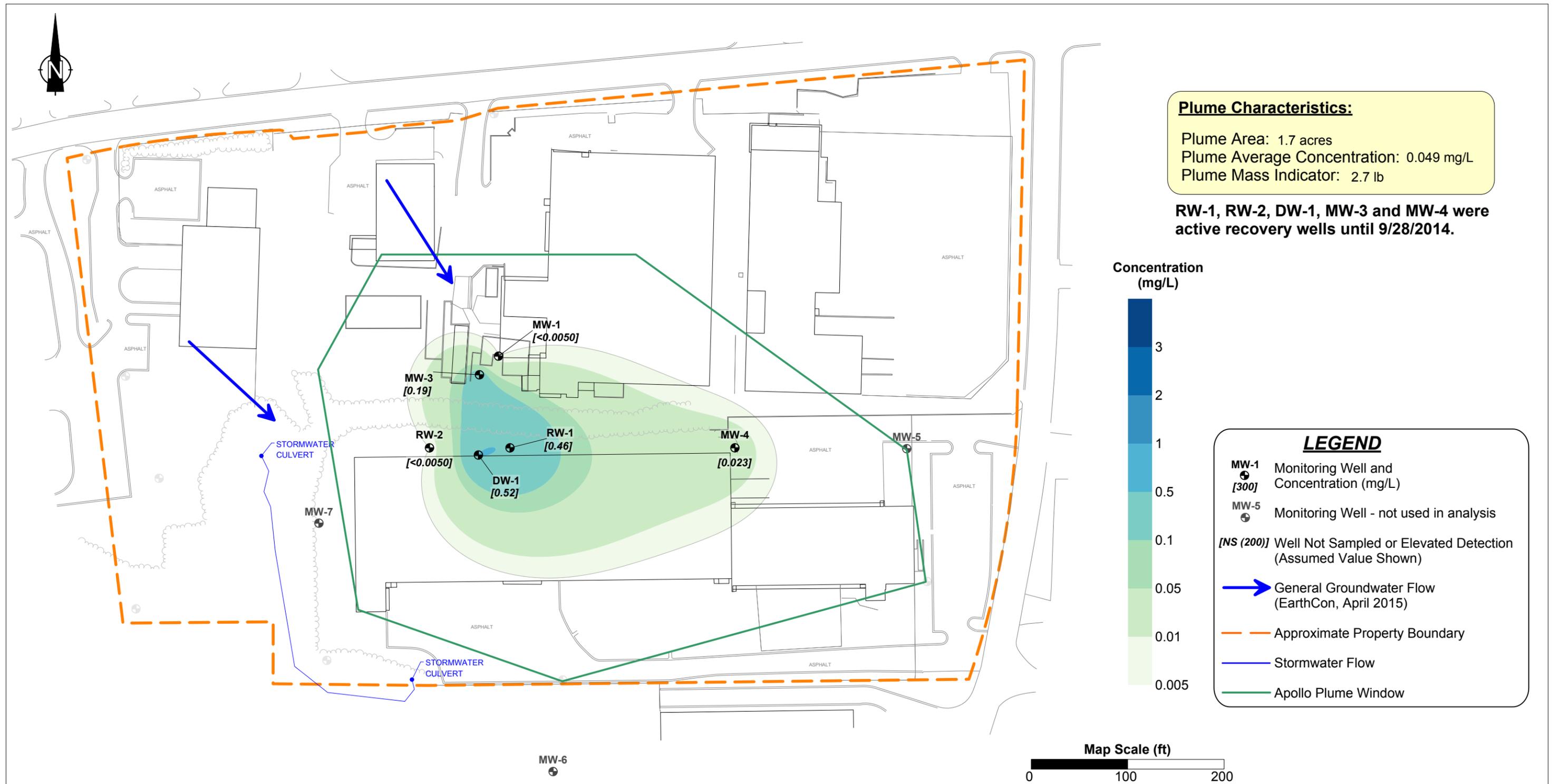
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**Apollo Plume
 Trichloroethene (TCE)
 Sep-2009**

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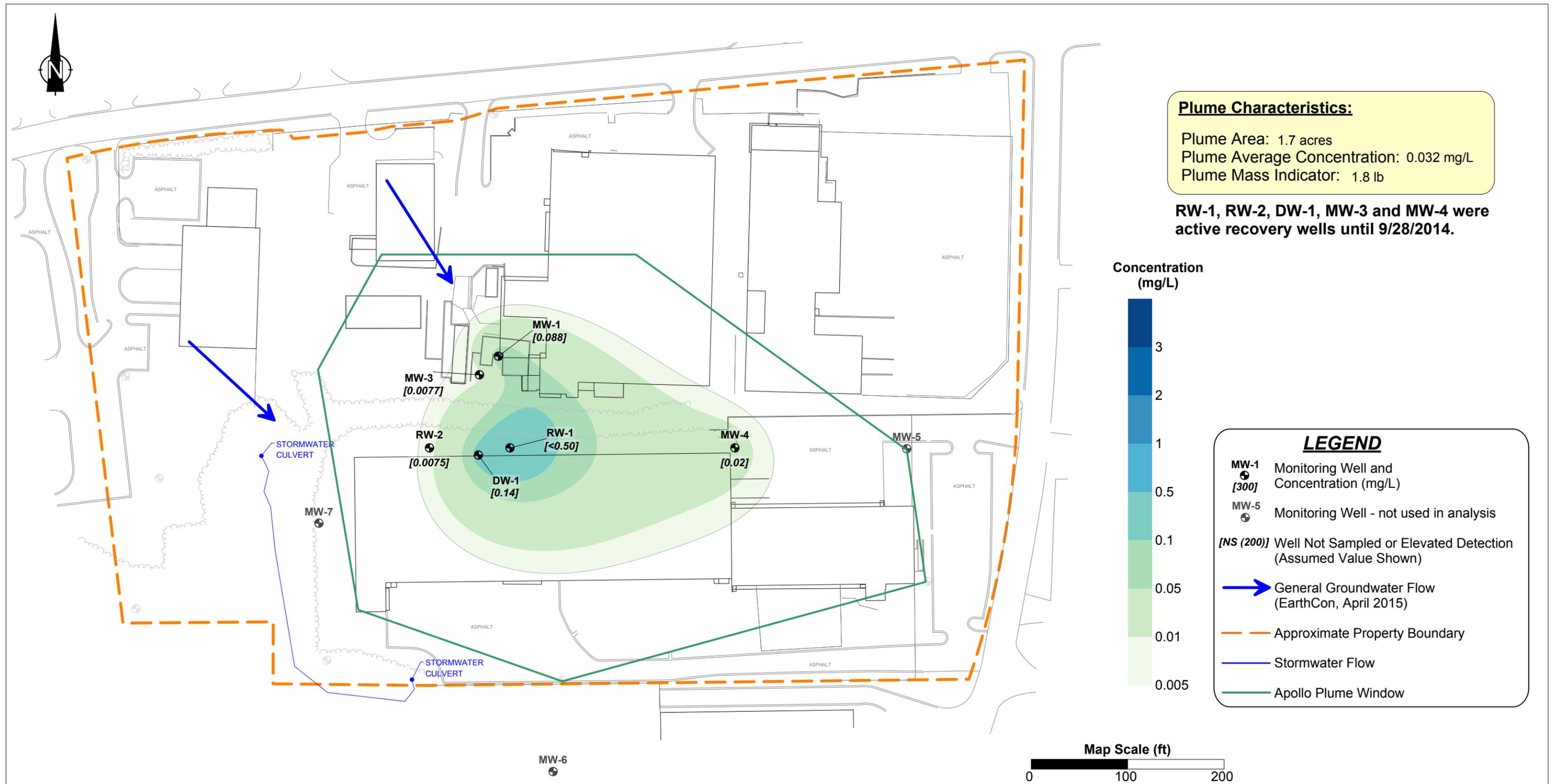
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**Apollo Plume
 Trichloroethene (TCE)
 Mar-2010**

Prepared by: SSW Checked by: DW Figure:



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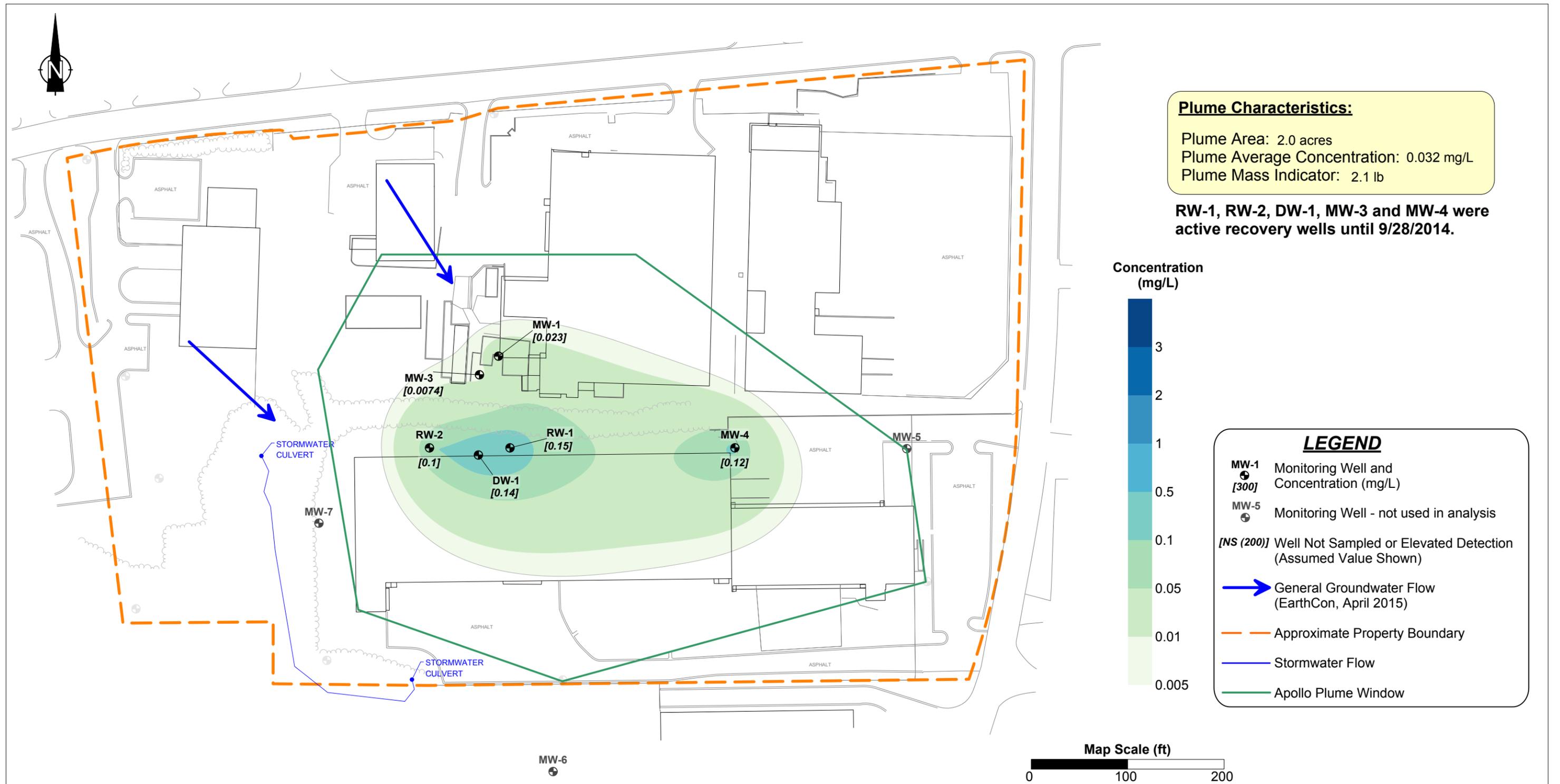
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**Apollo Plume
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 Sep-2010**

Prepared by: SSW Checked by: DW Figure:



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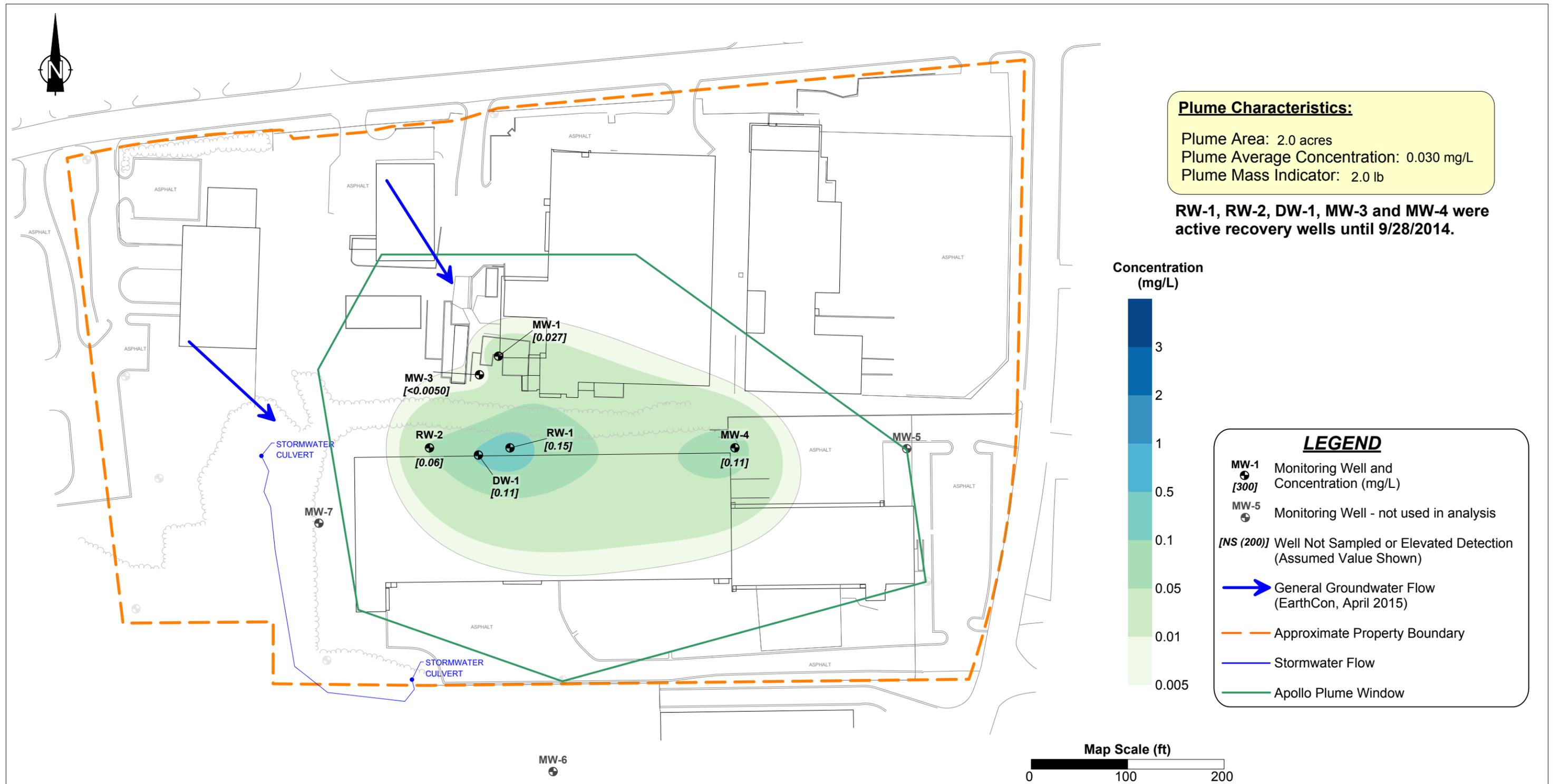
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**Apollo Plume
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 Apr-2011**

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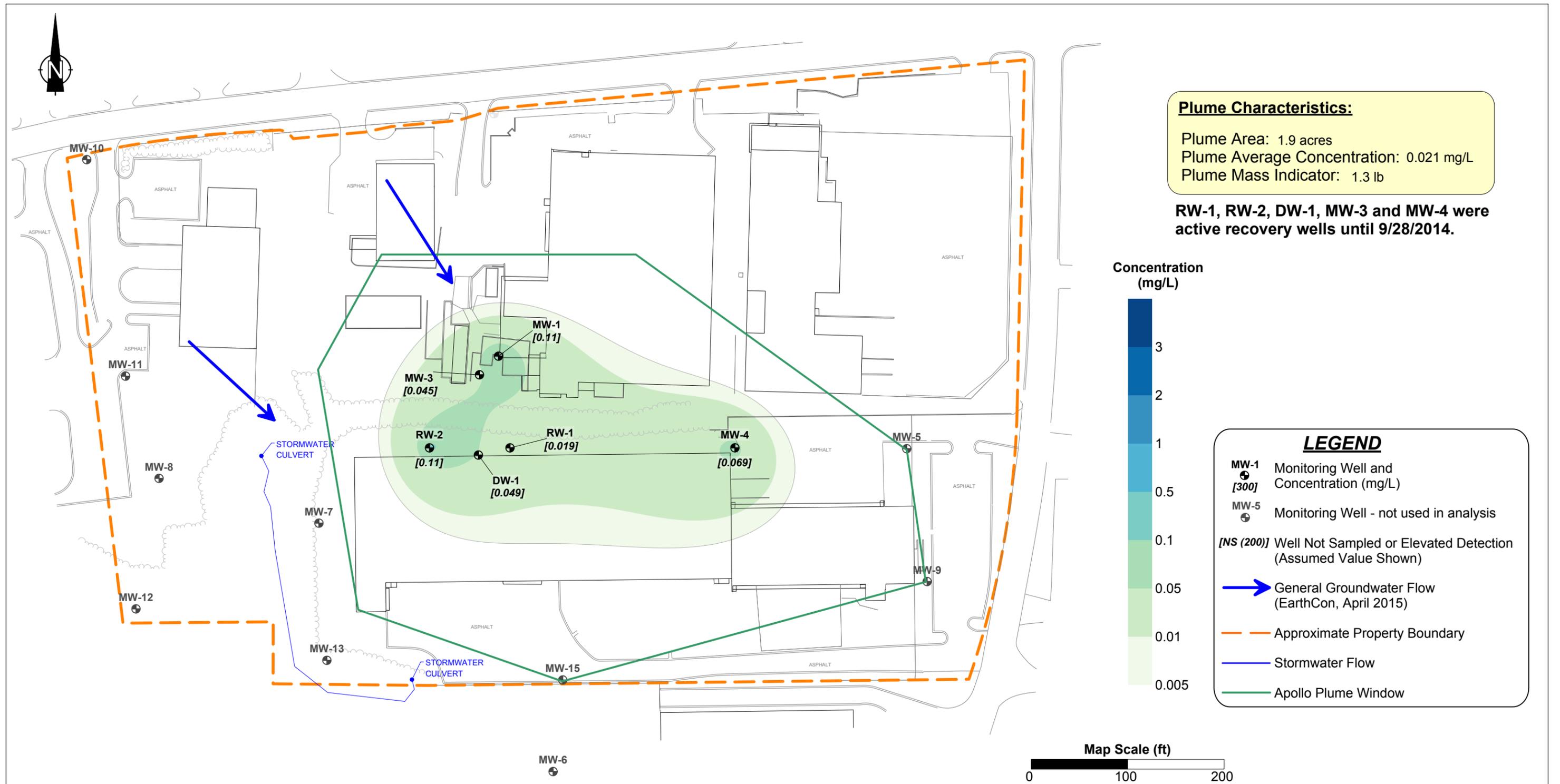
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**Apollo Plume
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 Oct-2011**

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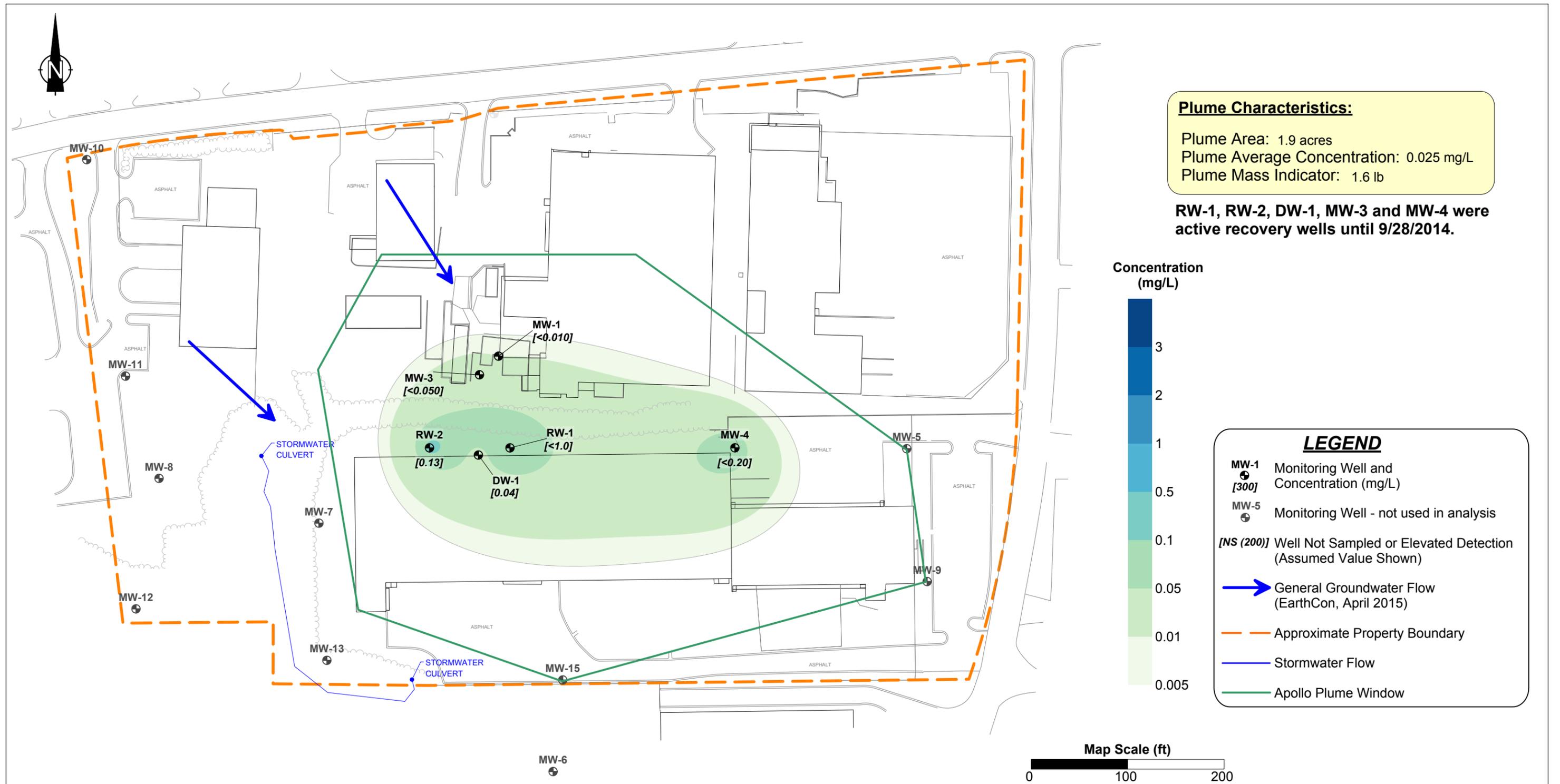
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**Apollo Plume
 Trichloroethene (TCE)
 Sep-2012**

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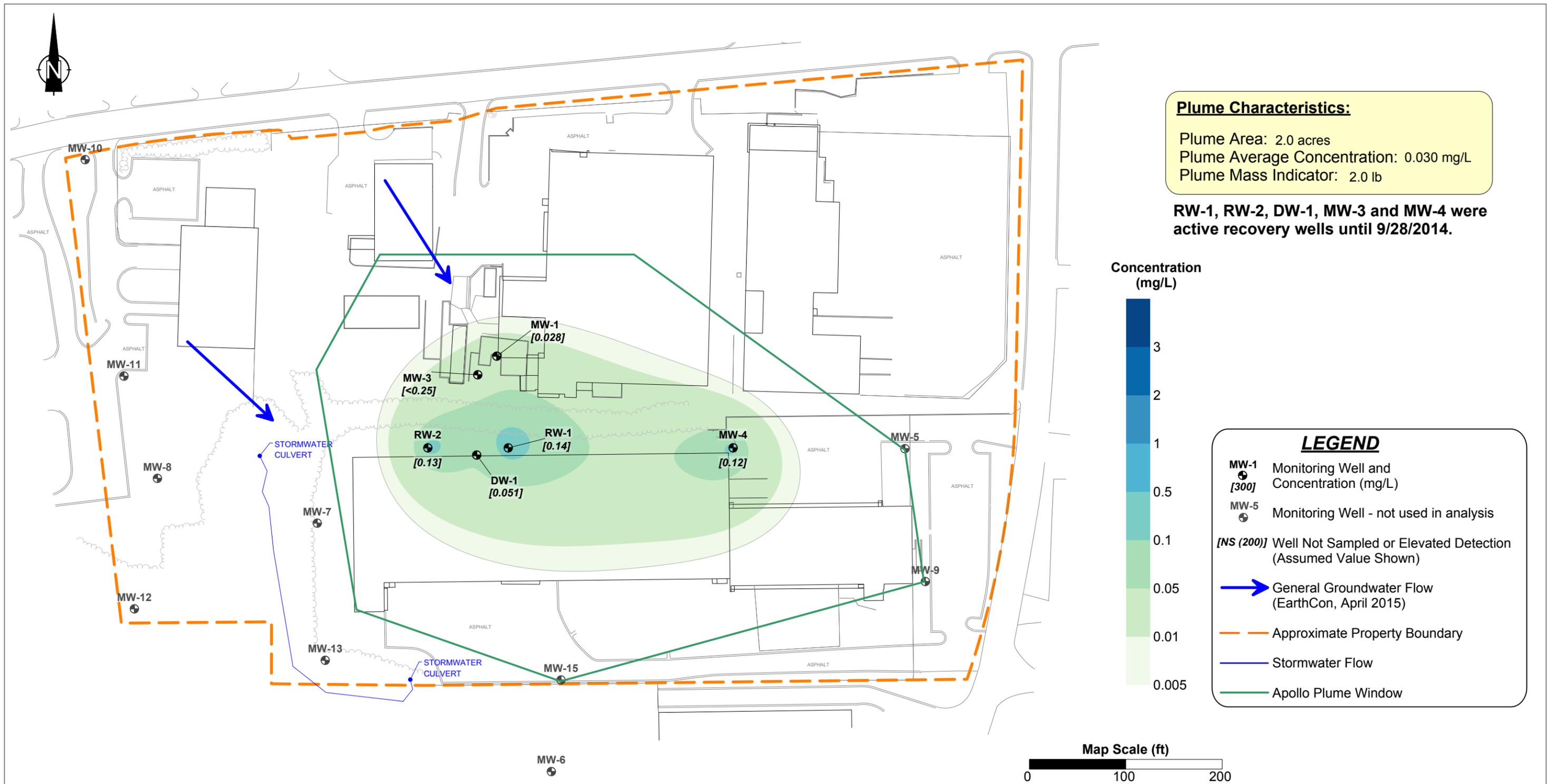
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**Apollo Plume
 Trichloroethene (TCE)
 Jun-2013**

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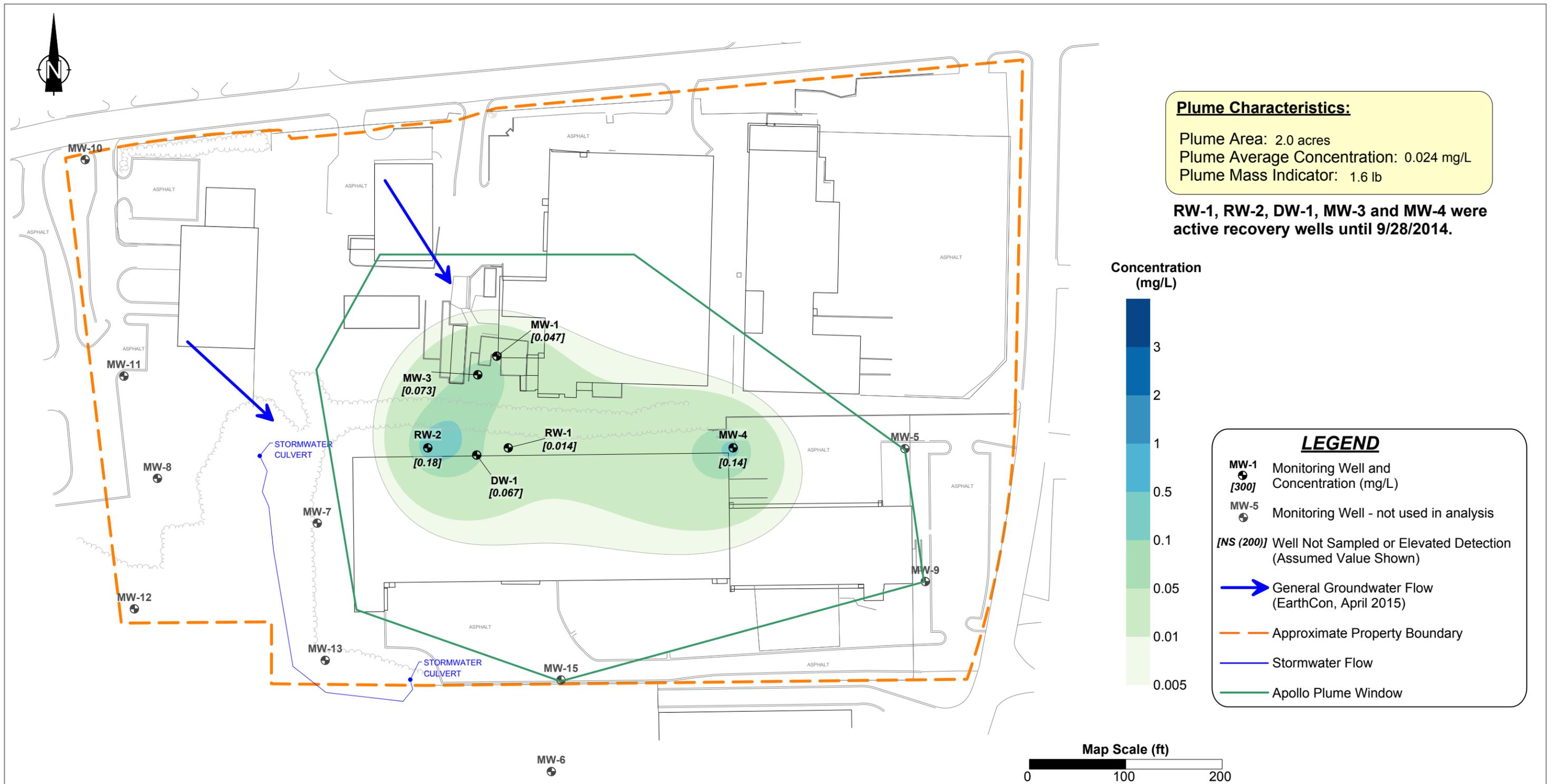


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**Apollo Plume
 Trichloroethene (TCE)
 Dec-2013**

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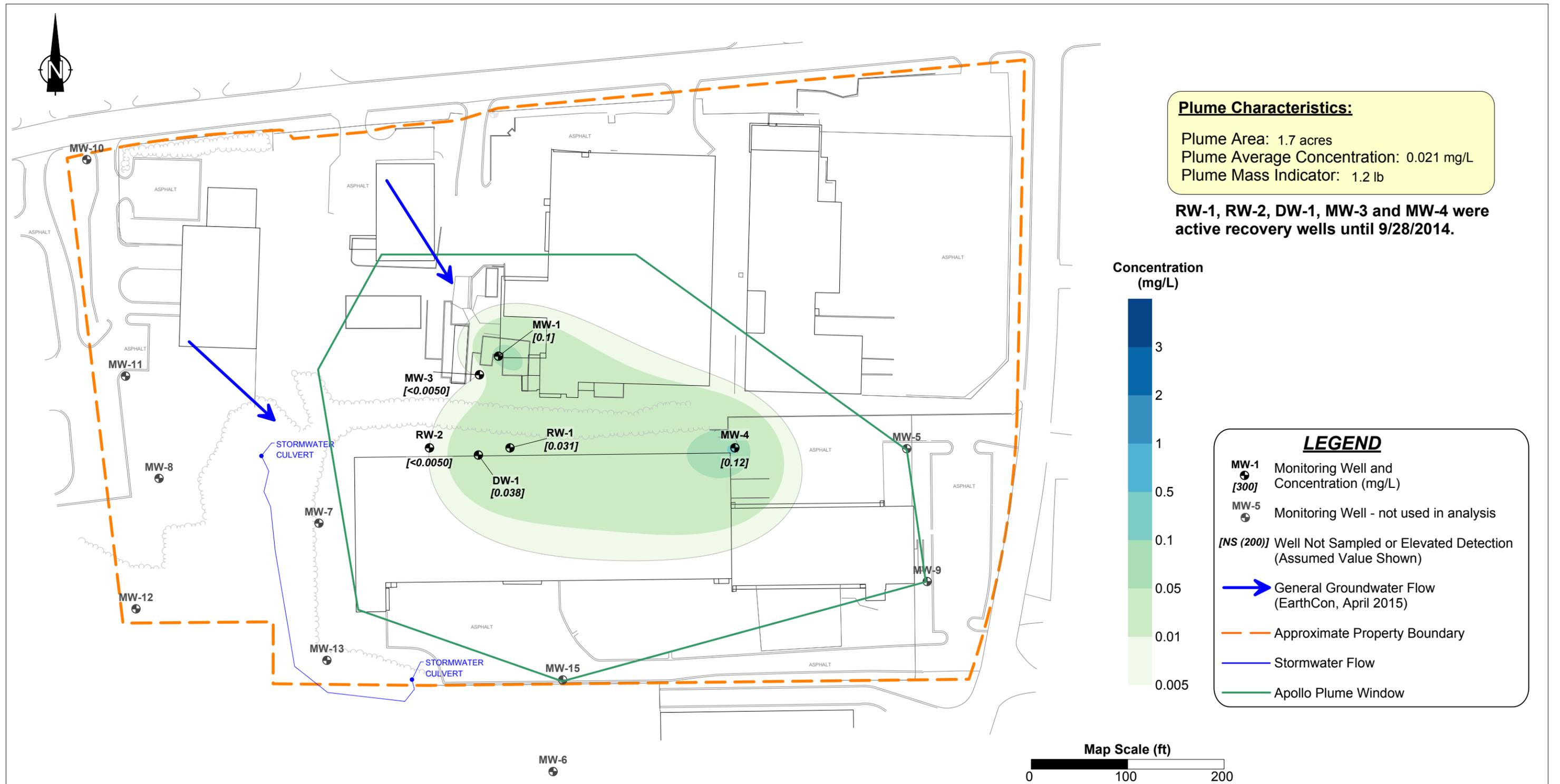


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 Marietta, Georgia 30062

**Apollo Plume
 Trichloroethene (TCE)
 Oct-2014**

Project Number: 02.20140391.00

Prepared by: SSW Checked by: DW Figure:



Base Map Source: Terramark Land Surveying, Inc. (6/5/2012)

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 HSI Site Number 10333

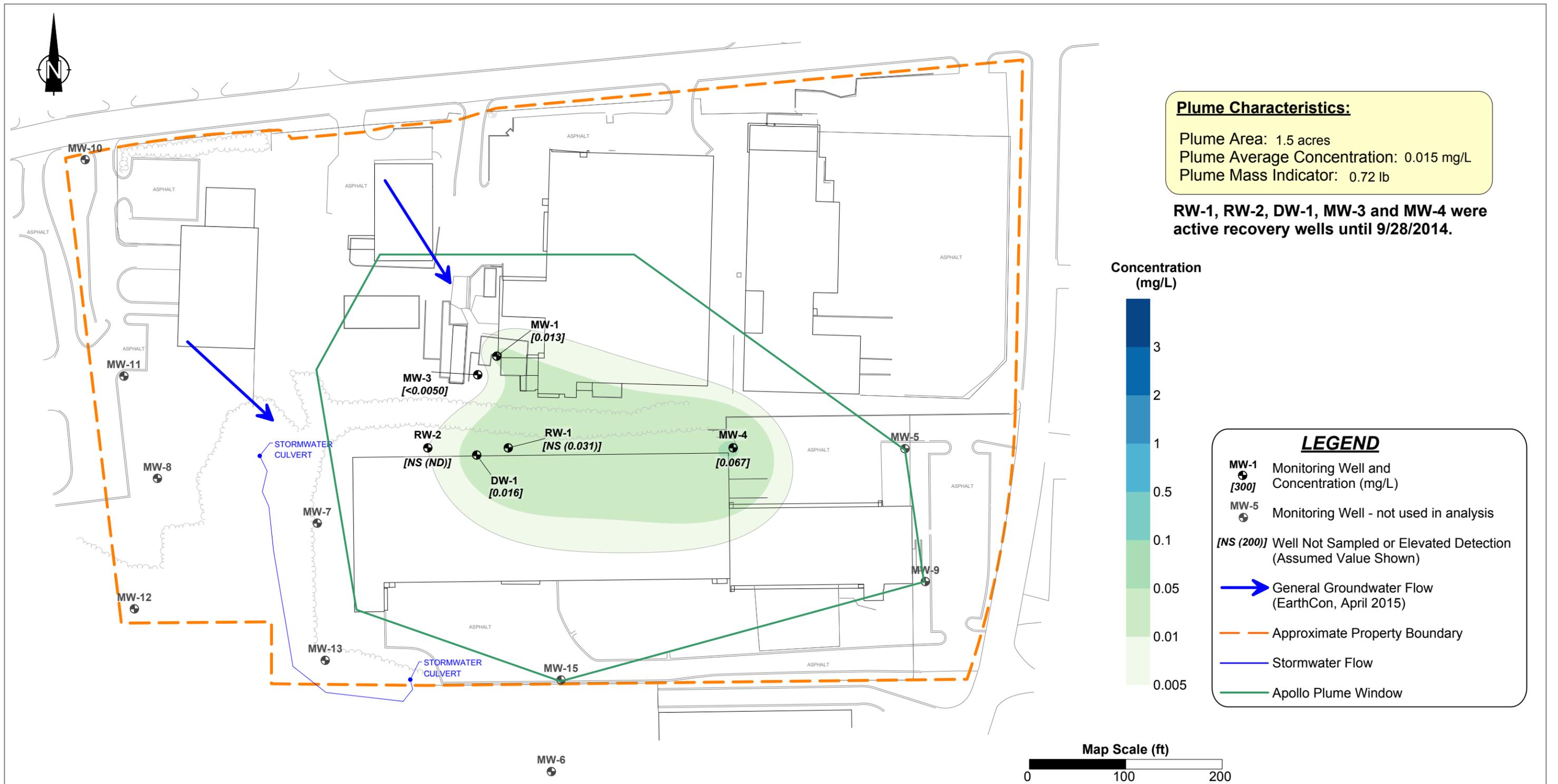
Project Number: 02.20140391.00



1880 West Oak Parkway, Bldg. 100 Suite 106
 Marietta, Georgia 30062

**Apollo Plume
 Trichloroethene (TCE)
 Jan-2015**

Prepared by: SSW Checked by: DW Figure:



Base Map Source: Terramark Land Surveying, Inc. (6/5/2012)

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Project Number: 02.20140391.00

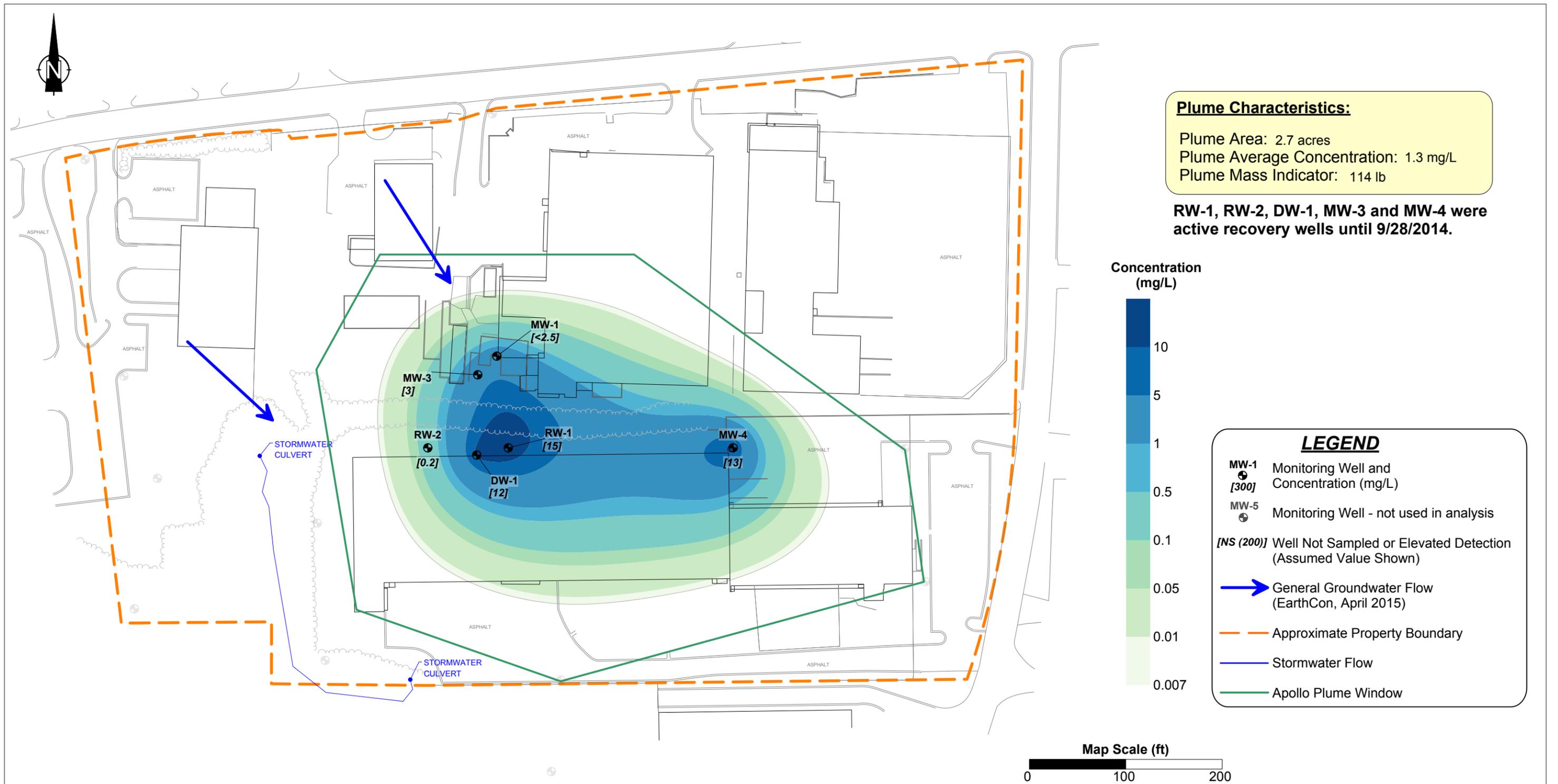


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 Marietta, Georgia 30062

**Apollo Plume
 Trichloroethene (TCE)
 Apr-2015**

Prepared by: SSW Checked by: DW Figure:

Appendix D
Apollo Plume Series Isopleth Map
1,1-Dichloroethene



Base Map Source: Terramark Land Surveying, Inc. (6/5/2012)

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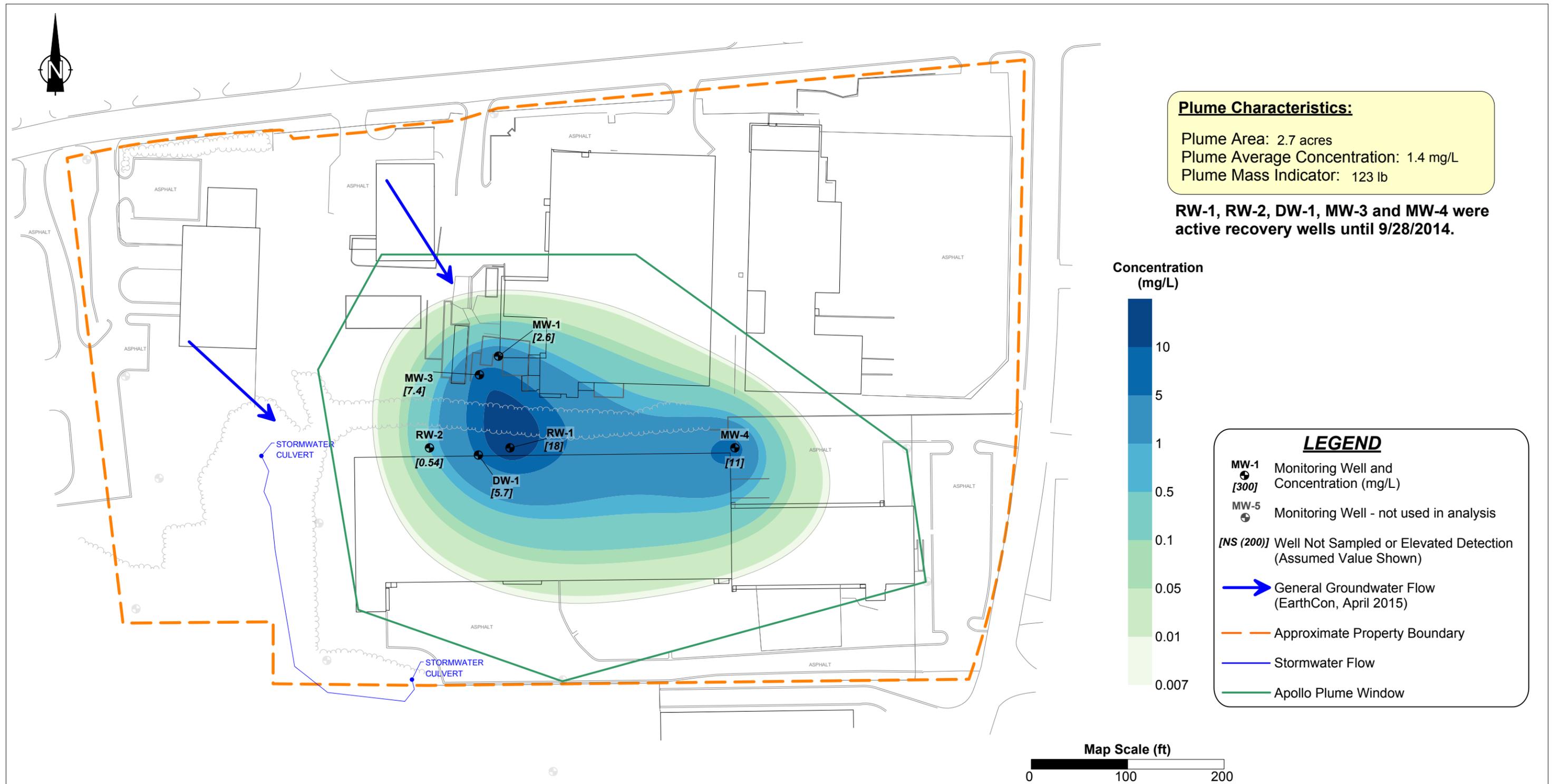
Project Number: 02.20140391.00



1880 West Oak Parkway, Bldg. 100 Suite 106
 Marietta, Georgia 30062

Apollo Plume
1,1-Dichloroethene (1,1-DCE)
Jan-2005

Prepared by: SSW Checked by: DW Figure:



Plume Characteristics:
 Plume Area: 2.7 acres
 Plume Average Concentration: 1.4 mg/L
 Plume Mass Indicator: 123 lb

RW-1, RW-2, DW-1, MW-3 and MW-4 were active recovery wells until 9/28/2014.

LEGEND

- MW-1 [300] Monitoring Well and Concentration (mg/L)
- MW-5 [] Monitoring Well - not used in analysis
- [NS (200)] Well Not Sampled or Elevated Detection (Assumed Value Shown)
- ➔ General Groundwater Flow (EarthCon, April 2015)
- - - Approximate Property Boundary
- Stormwater Flow
- Apollo Plume Window

Base Map Source: Terramark Land Surveying, Inc. (6/5/2012)

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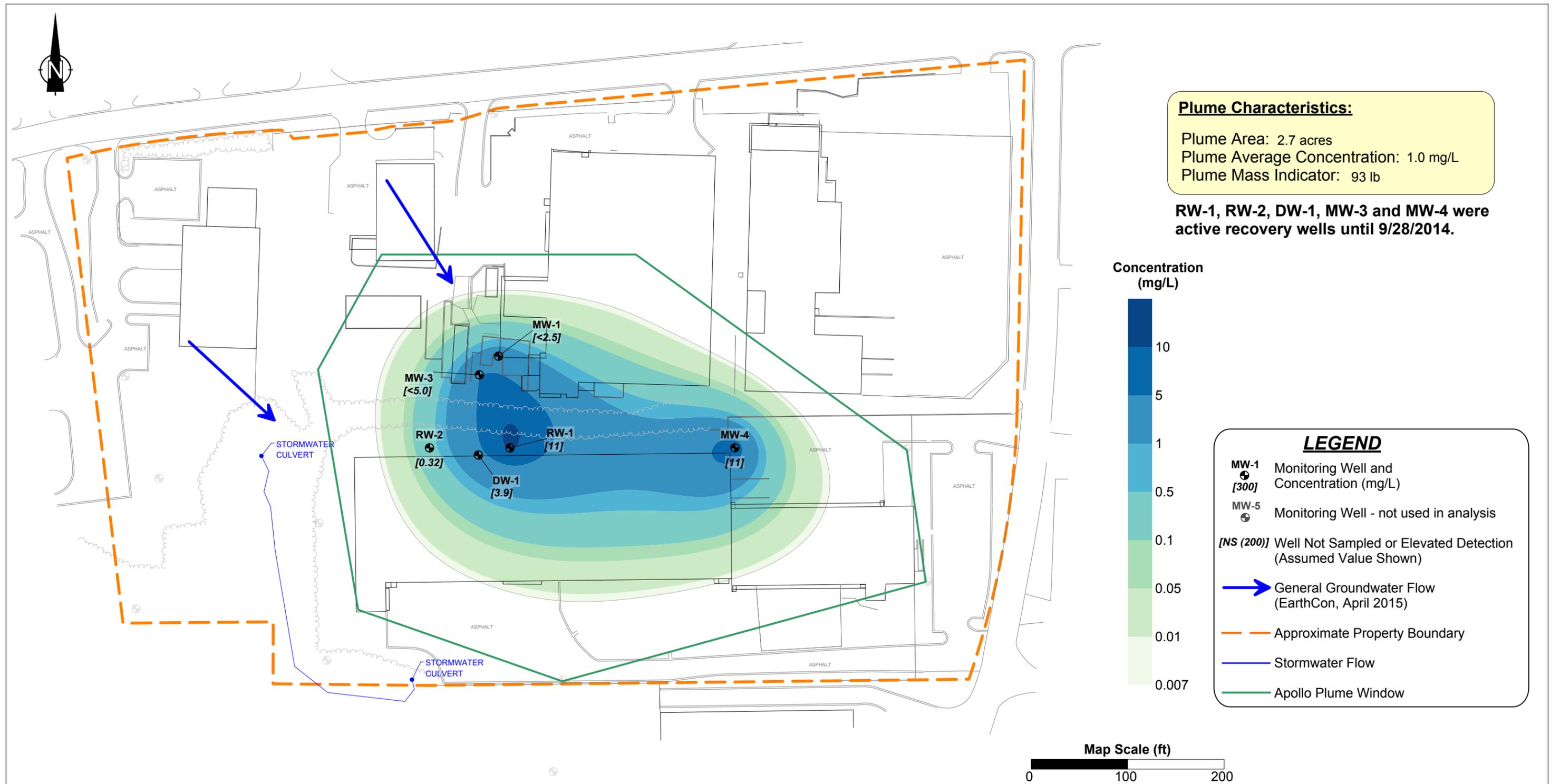
Project Number: 02.20140391.00



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Apollo Plume
1,1-Dichloroethene (1,1-DCE)
Dec-2005

Prepared by: SSW Checked by: DW Figure:



Base Map Source: Terramark Land Surveying, Inc. (6/5/2012)

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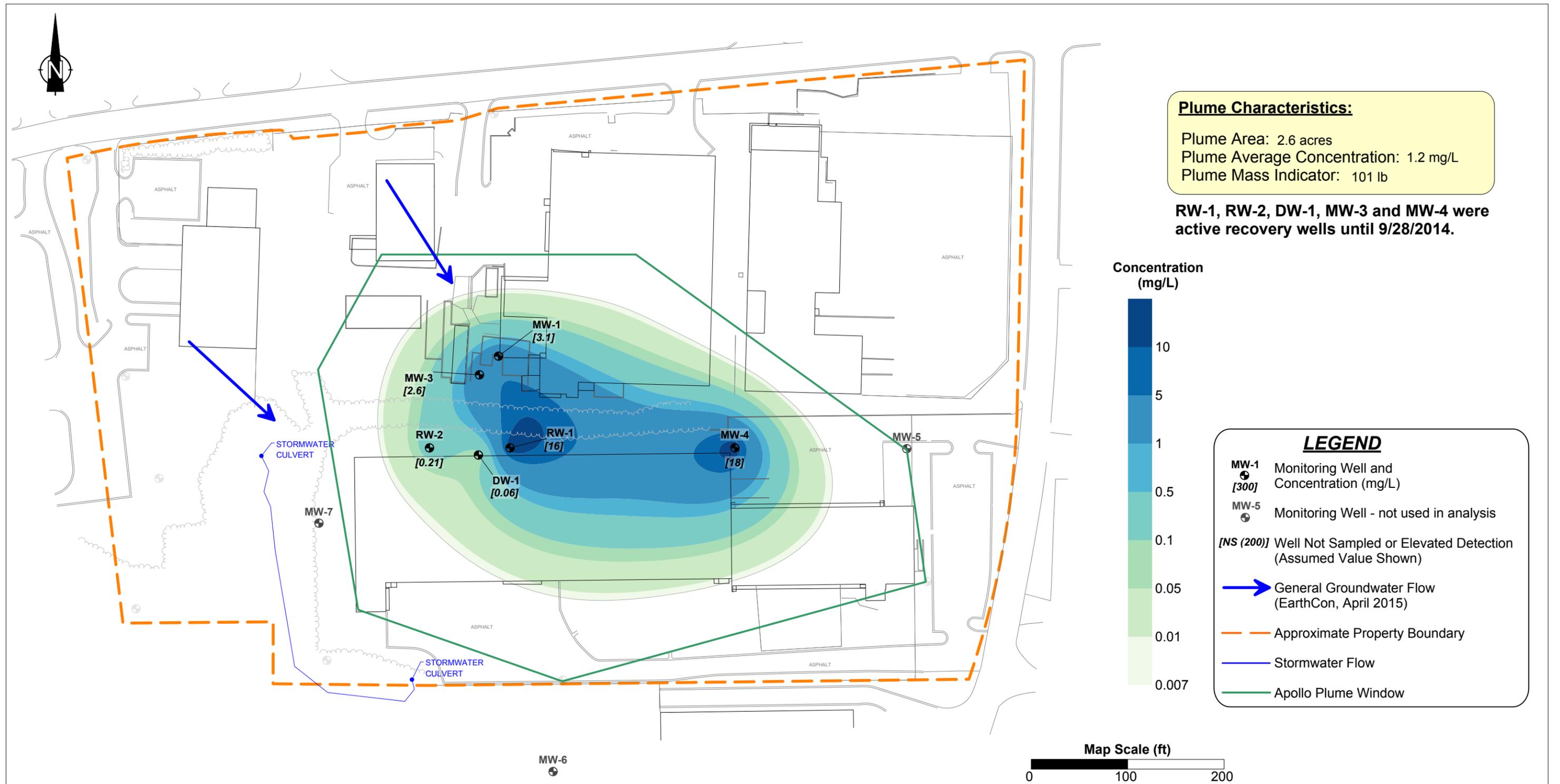
Project Number: 02.20140391.00



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Apollo Plume
1,1-Dichloroethene (1,1-DCE)
Jul-2006

Prepared by: SSW Checked by: DW Figure:



Base Map Source: Terramark Land Surveying, Inc. (6/5/2012)

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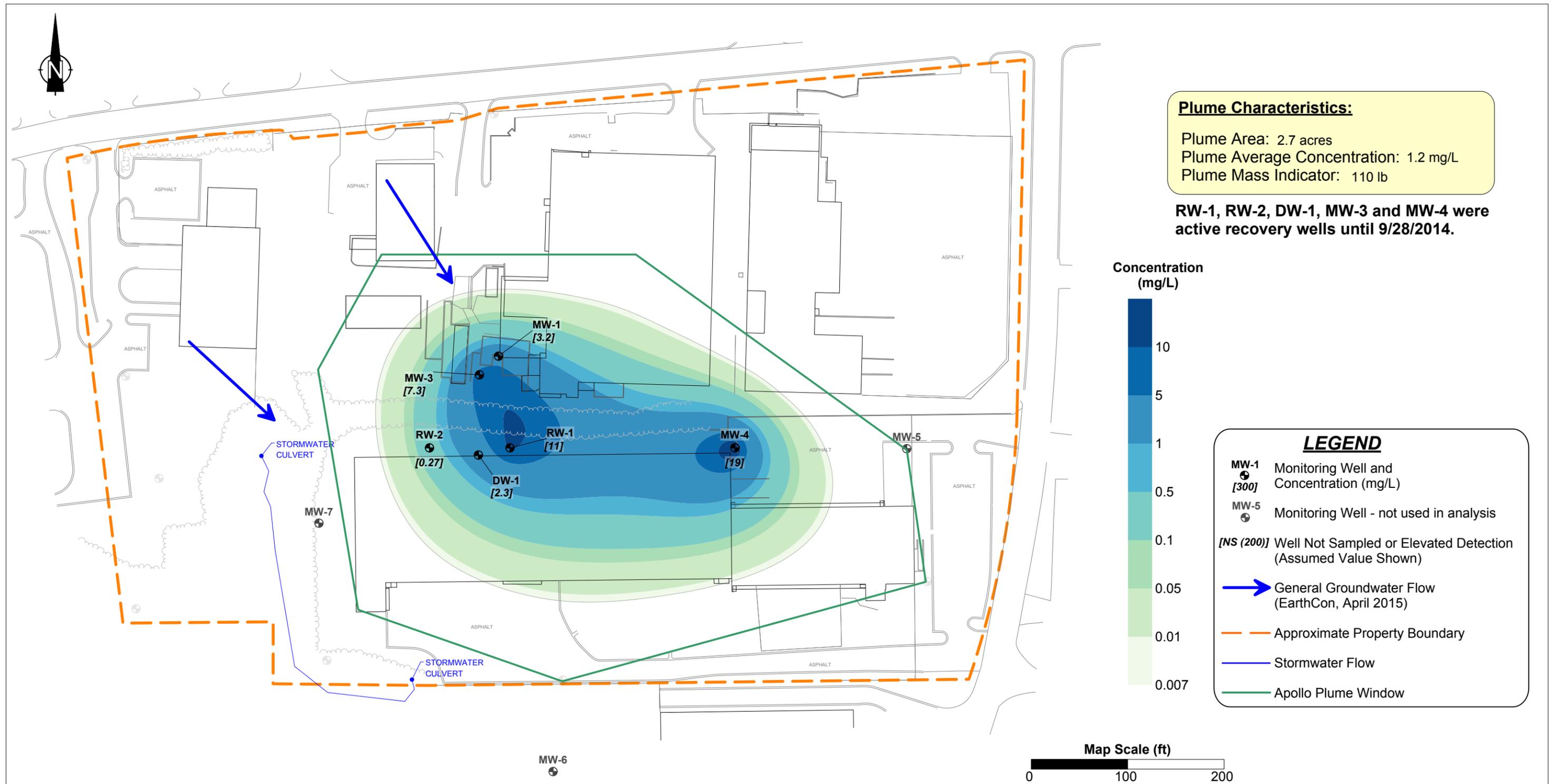
Project Number: 02.20140391.00



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Apollo Plume
1,1-Dichloroethene (1,1-DCE)
Feb-2007

Prepared by: SSW Checked by: DW Figure:



Base Map Source: Terramark Land Surveying, Inc. (6/5/2012)

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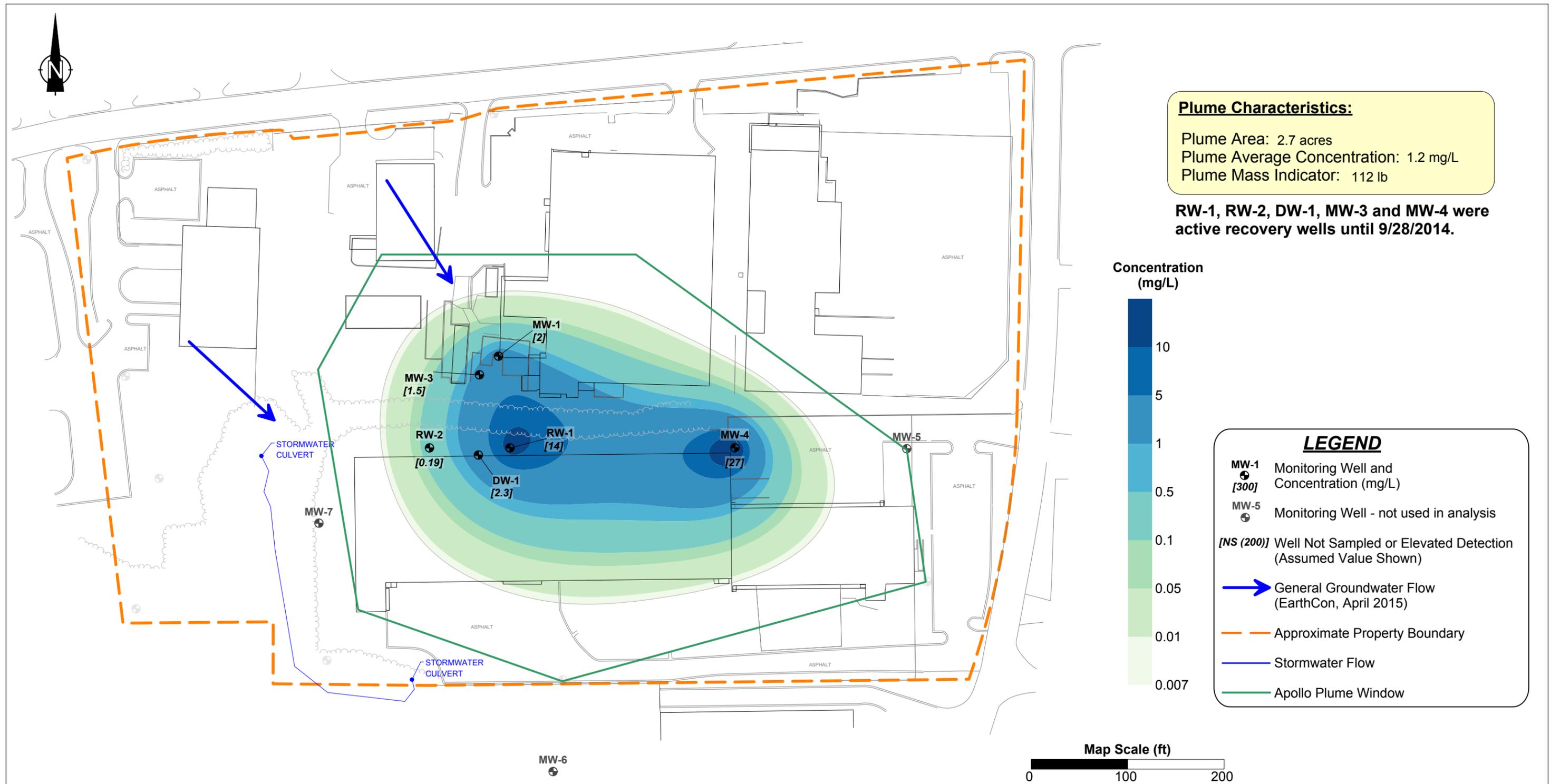
Project Number: 02.20140391.00



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Apollo Plume
1,1-Dichloroethene (1,1-DCE)
Aug-2007

Prepared by: SSW Checked by: DW Figure:



Base Map Source: Terramark Land Surveying, Inc. (6/5/2012)

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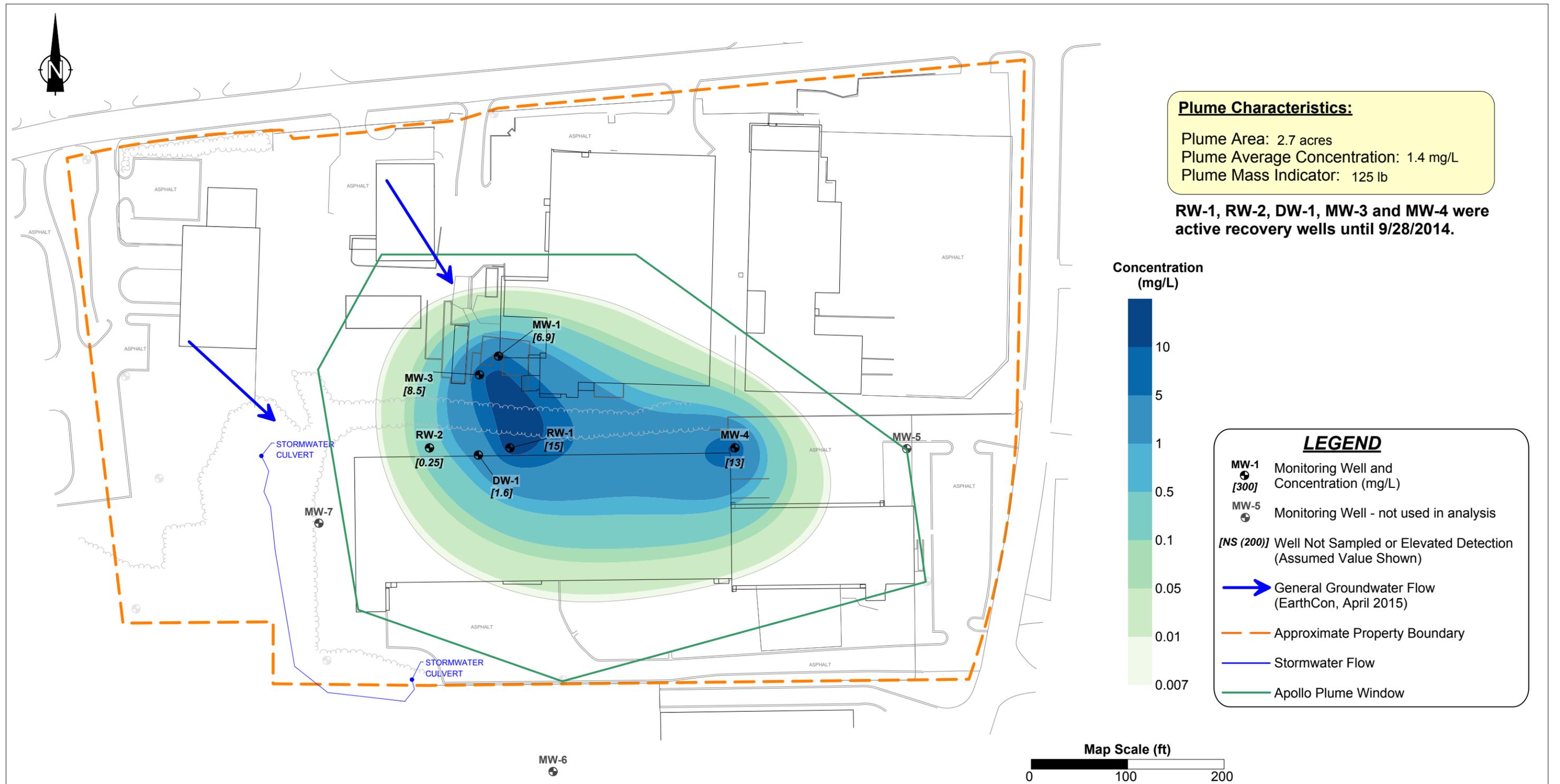
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Apollo Plume
1,1-Dichloroethene (1,1-DCE)
Feb-2008

Prepared by: SSW Checked by: DW Figure:



Base Map Source: Terramark Land Surveying, Inc. (6/5/2012)

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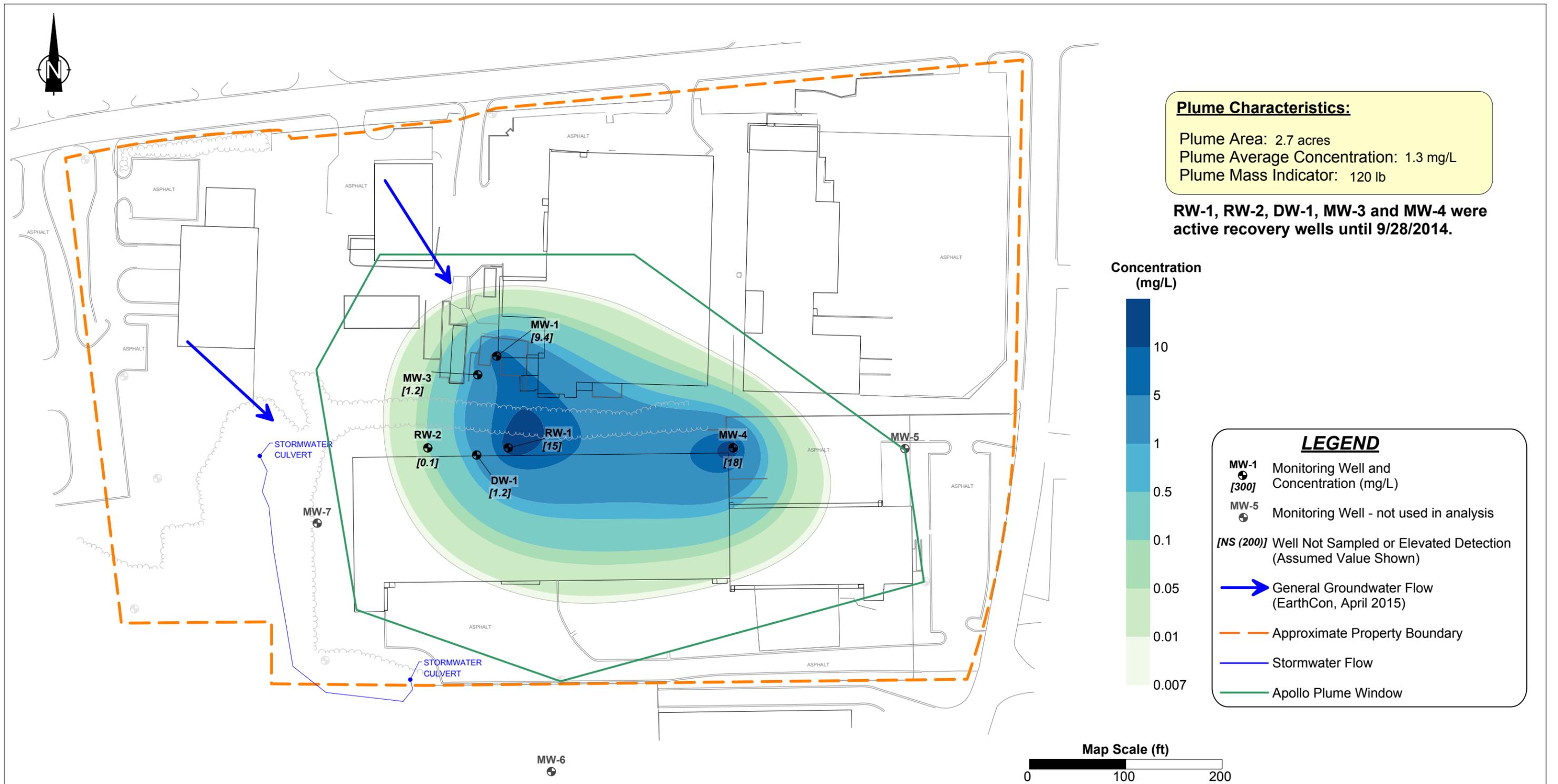
Project Number: 02.20140391.00



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Apollo Plume
1,1-Dichloroethene (1,1-DCE)
Nov-2008

Prepared by: SSW Checked by: DW Figure:



Base Map Source: Terramark Land Surveying, Inc. (6/5/2012)

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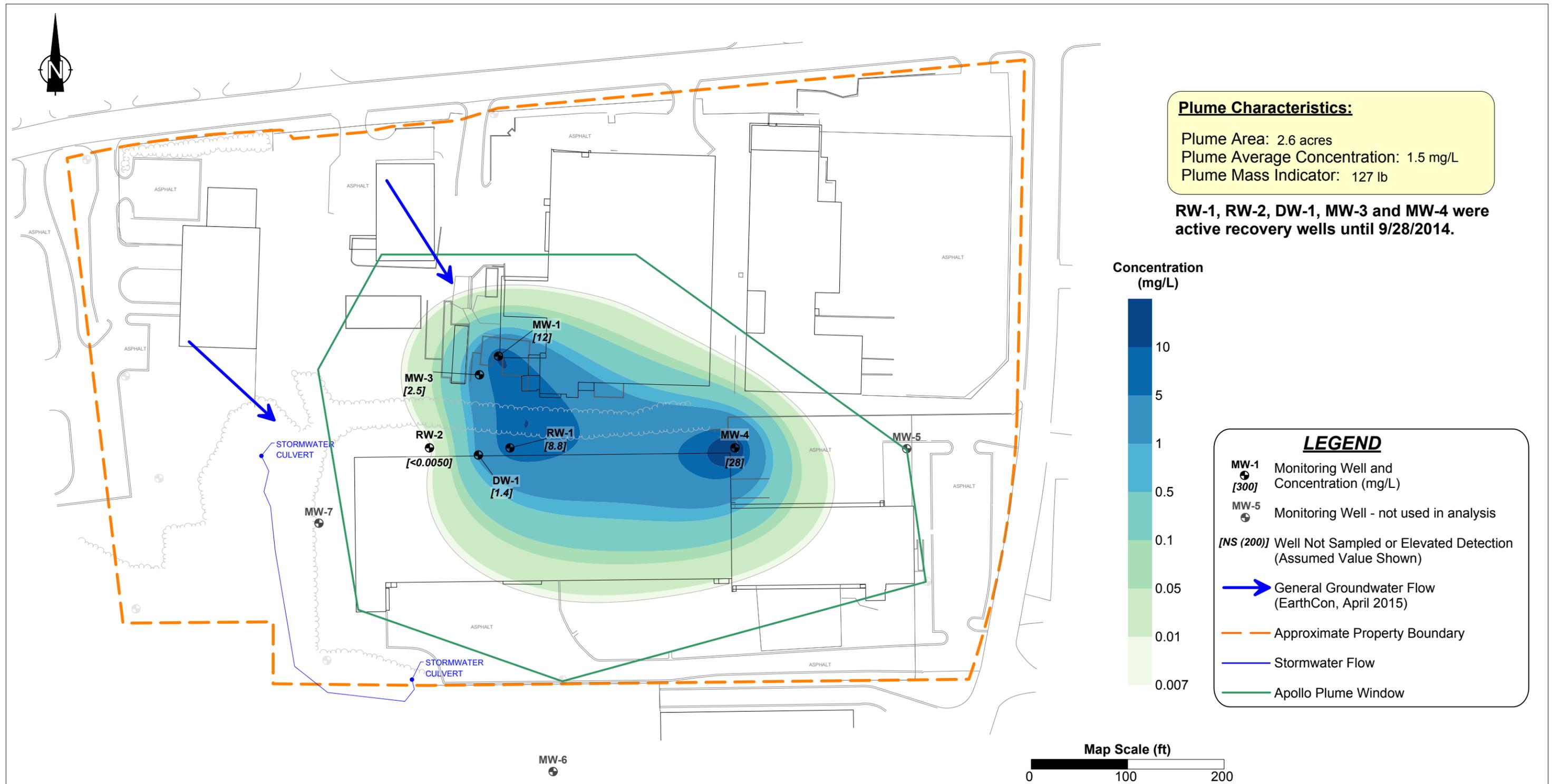
Project Number: 02.20140391.00



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Apollo Plume
1,1-Dichloroethene (1,1-DCE)
Sep-2009

Prepared by: SSW Checked by: DW Figure:



Plume Characteristics:
 Plume Area: 2.6 acres
 Plume Average Concentration: 1.5 mg/L
 Plume Mass Indicator: 127 lb

RW-1, RW-2, DW-1, MW-3 and MW-4 were active recovery wells until 9/28/2014.

LEGEND

- MW-1 [300] Monitoring Well and Concentration (mg/L)
- MW-5 [NS (200)] Monitoring Well - not used in analysis
- [NS (200)] Well Not Sampled or Elevated Detection (Assumed Value Shown)
- ➔ General Groundwater Flow (EarthCon, April 2015)
- - - - - Approximate Property Boundary
- Stormwater Flow
- Apollo Plume Window

Base Map Source: Terramark Land Surveying, Inc. (6/5/2012)

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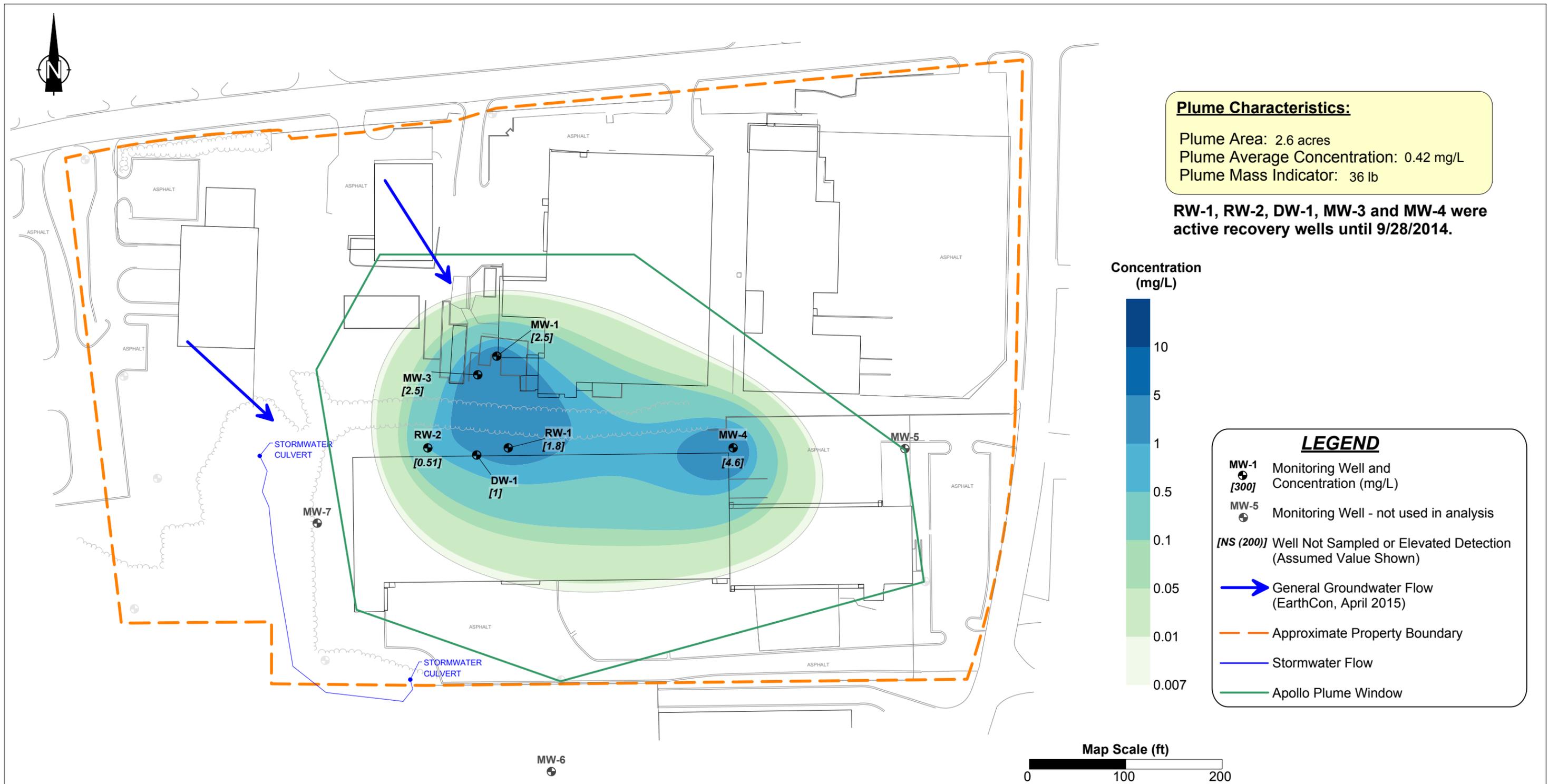
Project Number: 02.20140391.00



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Apollo Plume
1,1-Dichloroethene (1,1-DCE)
Mar-2010

Prepared by: SSW Checked by: DW Figure:



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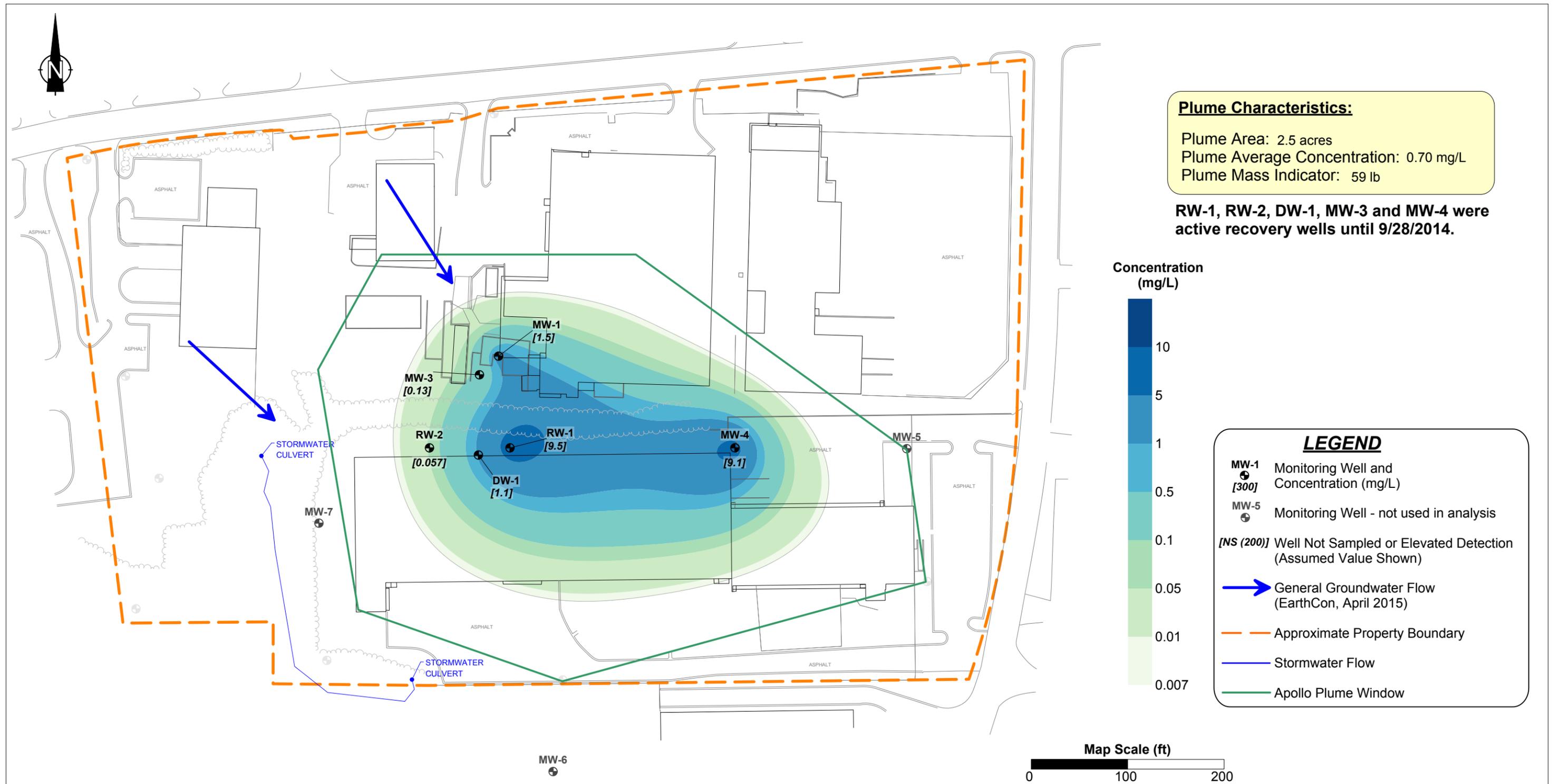
Project Number: 02.20140391.00



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Apollo Plume
1,1-Dichloroethene (1,1-DCE)
Sep-2010

Prepared by: SSW Checked by: DW Figure:



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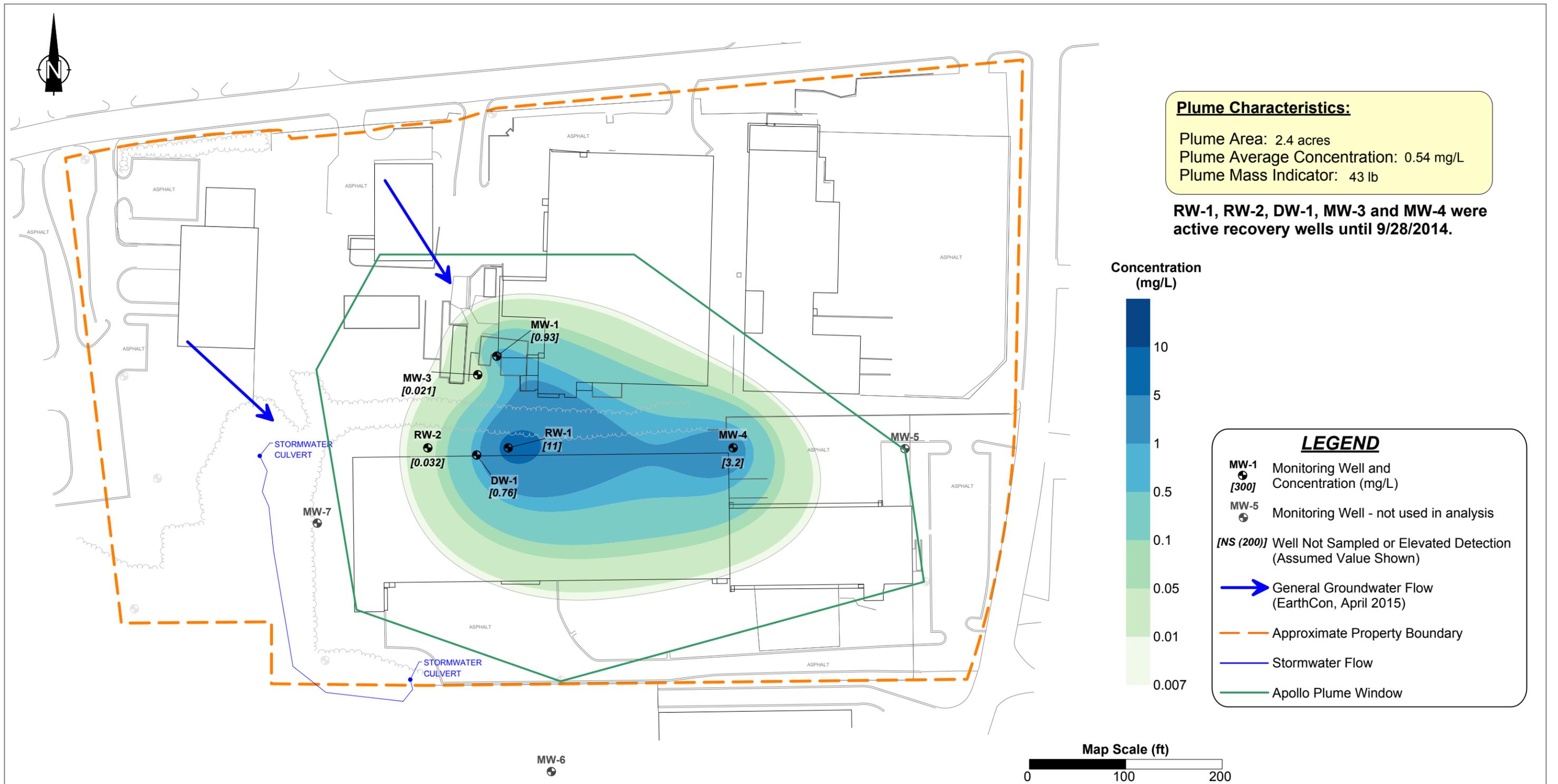
Project Number: 02.20140391.00



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Apollo Plume
1,1-Dichloroethene (1,1-DCE)
Apr-2011

Prepared by: SSW Checked by: DW Figure:



Base Map Source: Terramark Land Surveying, Inc. (6/5/2012)

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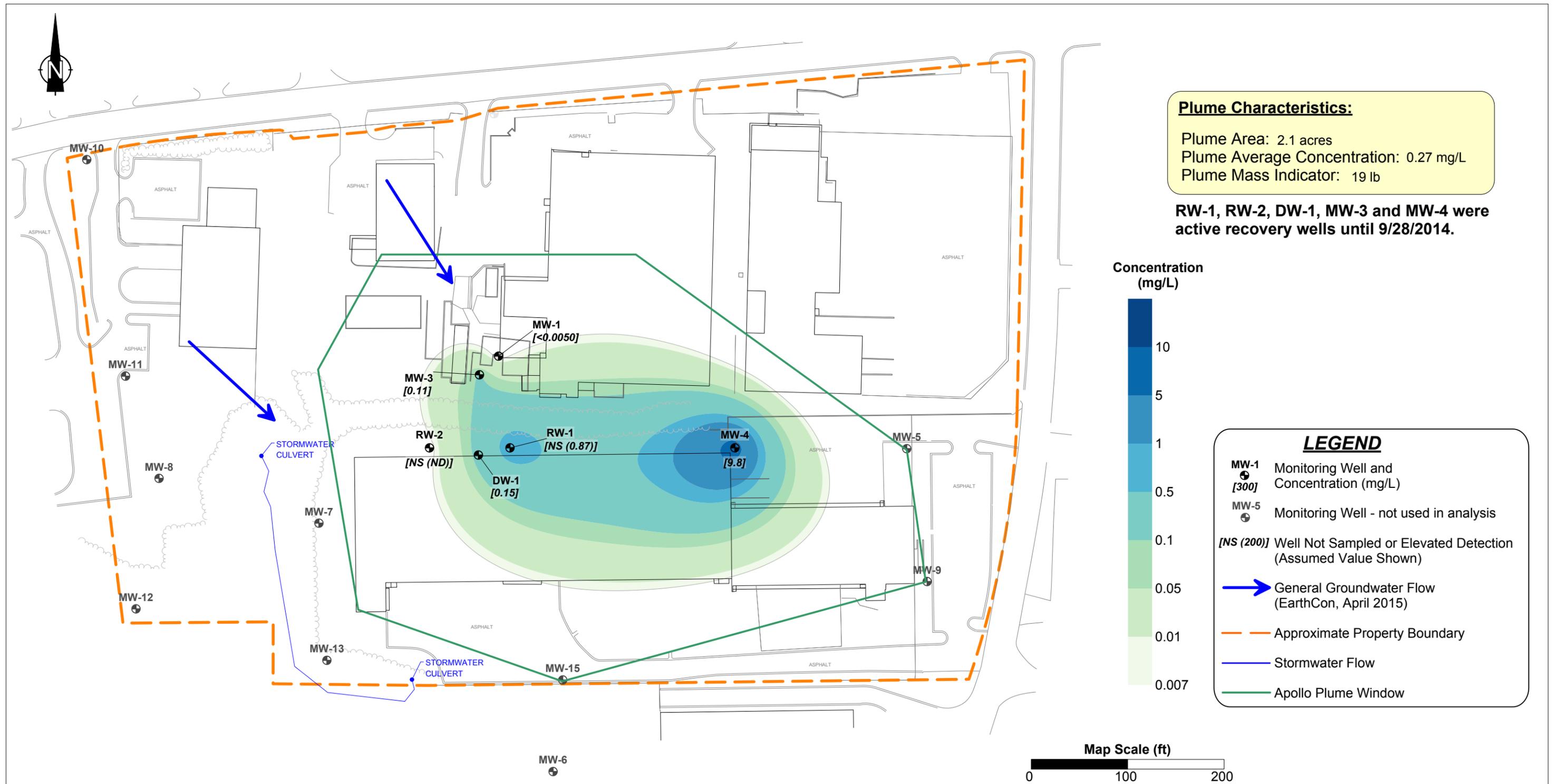
Project Number: 02.20140391.00



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Apollo Plume
1,1-Dichloroethene (1,1-DCE)
Oct-2011

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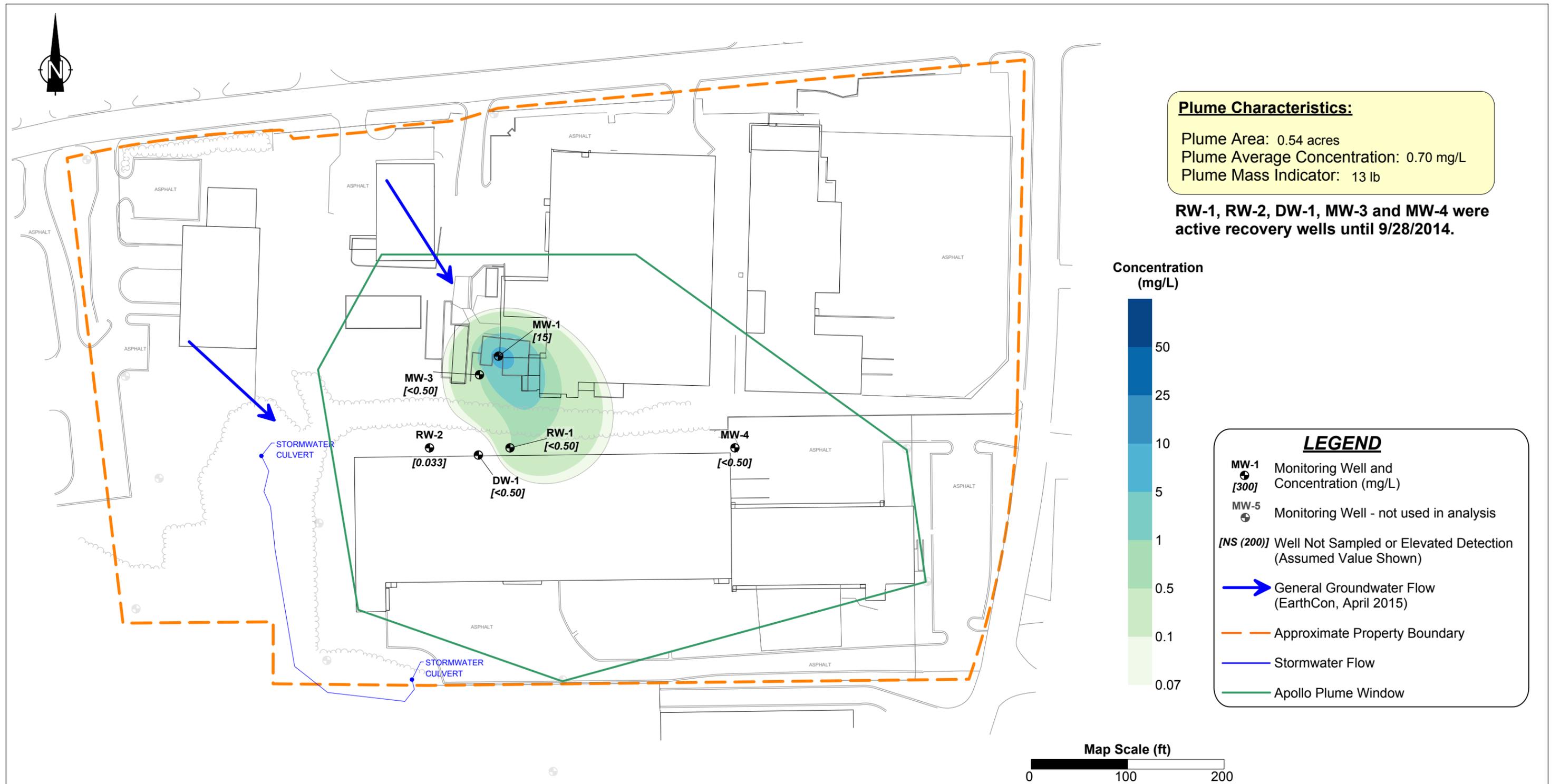


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Apollo Plume
1,1-Dichloroethene (1,1-DCE)
Apr-2015

Prepared by: SSW Checked by: DW Figure:

Appendix E
Apollo Plume Series Isopleth Maps
cis-1,2-Dichloroethene



Base Map Source: Terramark Land Surveying, Inc. (6/5/2012)

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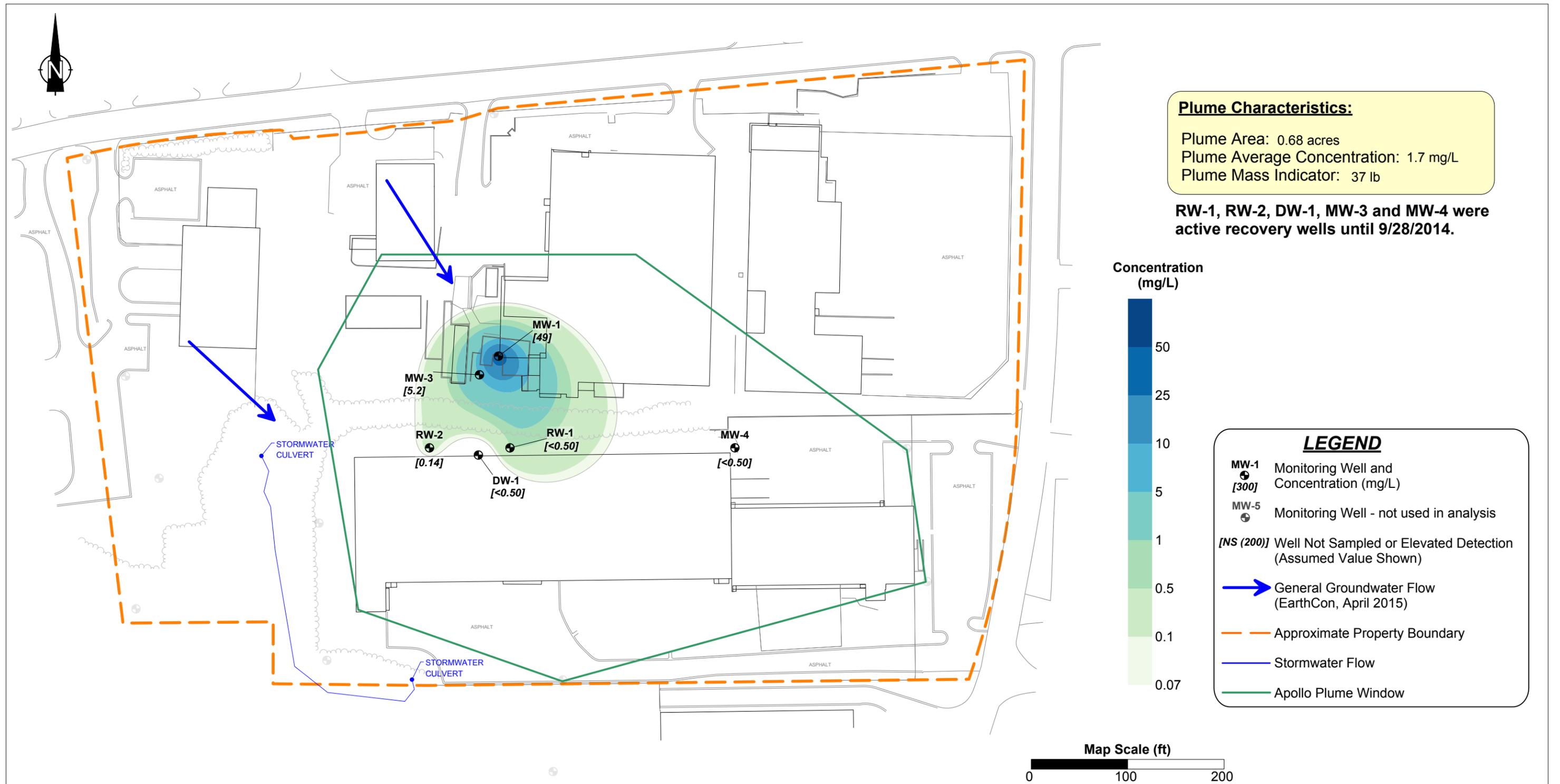
Project Number: 02.20140391.00



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 Marietta, Georgia 30062

Apollo Plume
cis-1,2-Dichloroethene
(cis-1,2-DCE)
Jan-2005

Prepared by: SSW Checked by: DW Figure:



Base Map Source: Terramark Land Surveying, Inc. (6/5/2012)

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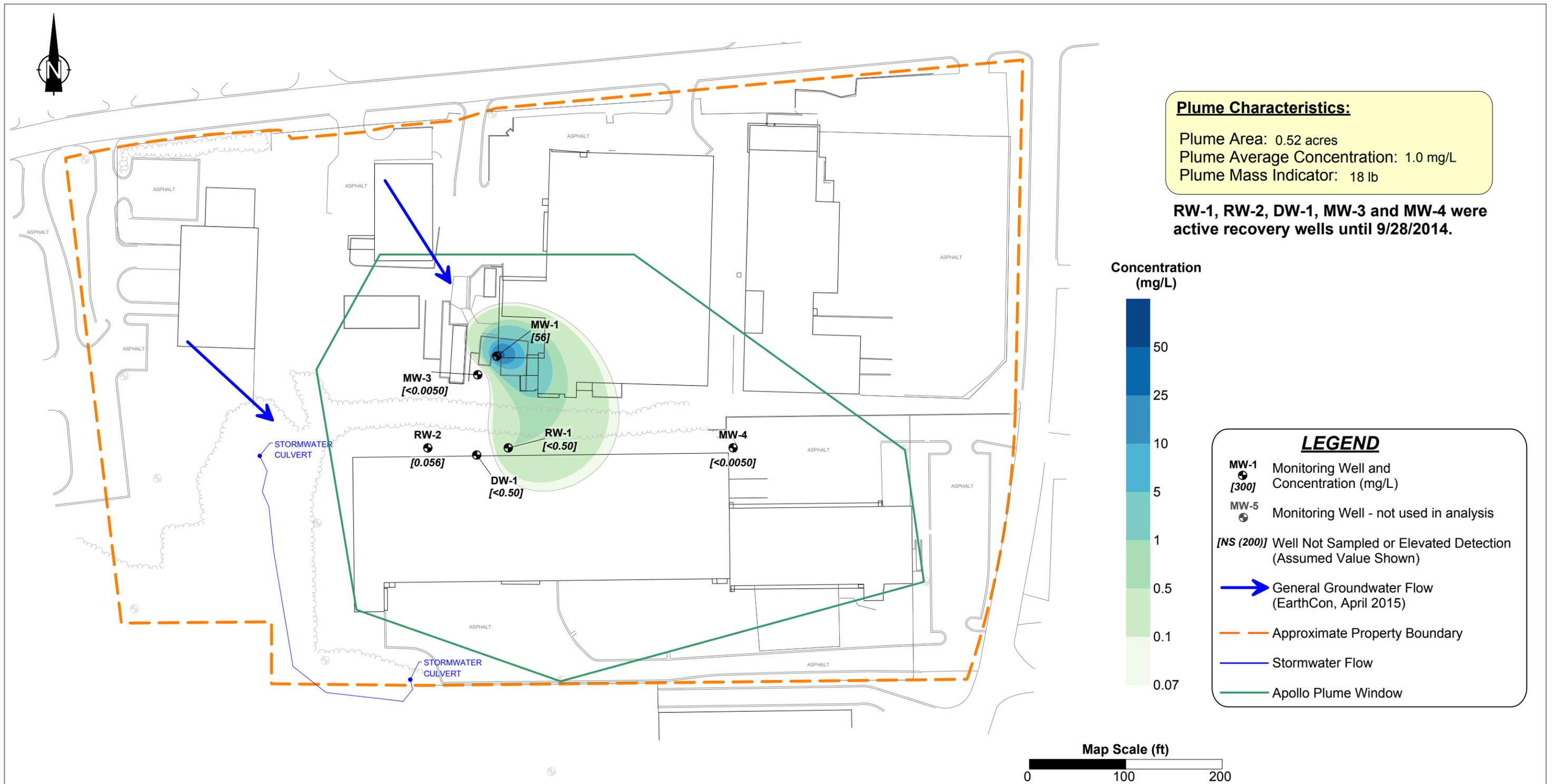
Project Number: 02.20140391.00



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Apollo Plume
cis-1,2-Dichloroethene
(cis-1,2-DCE)
Dec-2005

Prepared by: SSW Checked by: DW Figure:



Base Map Source: Terramark Land Surveying, Inc. (6/5/2012)

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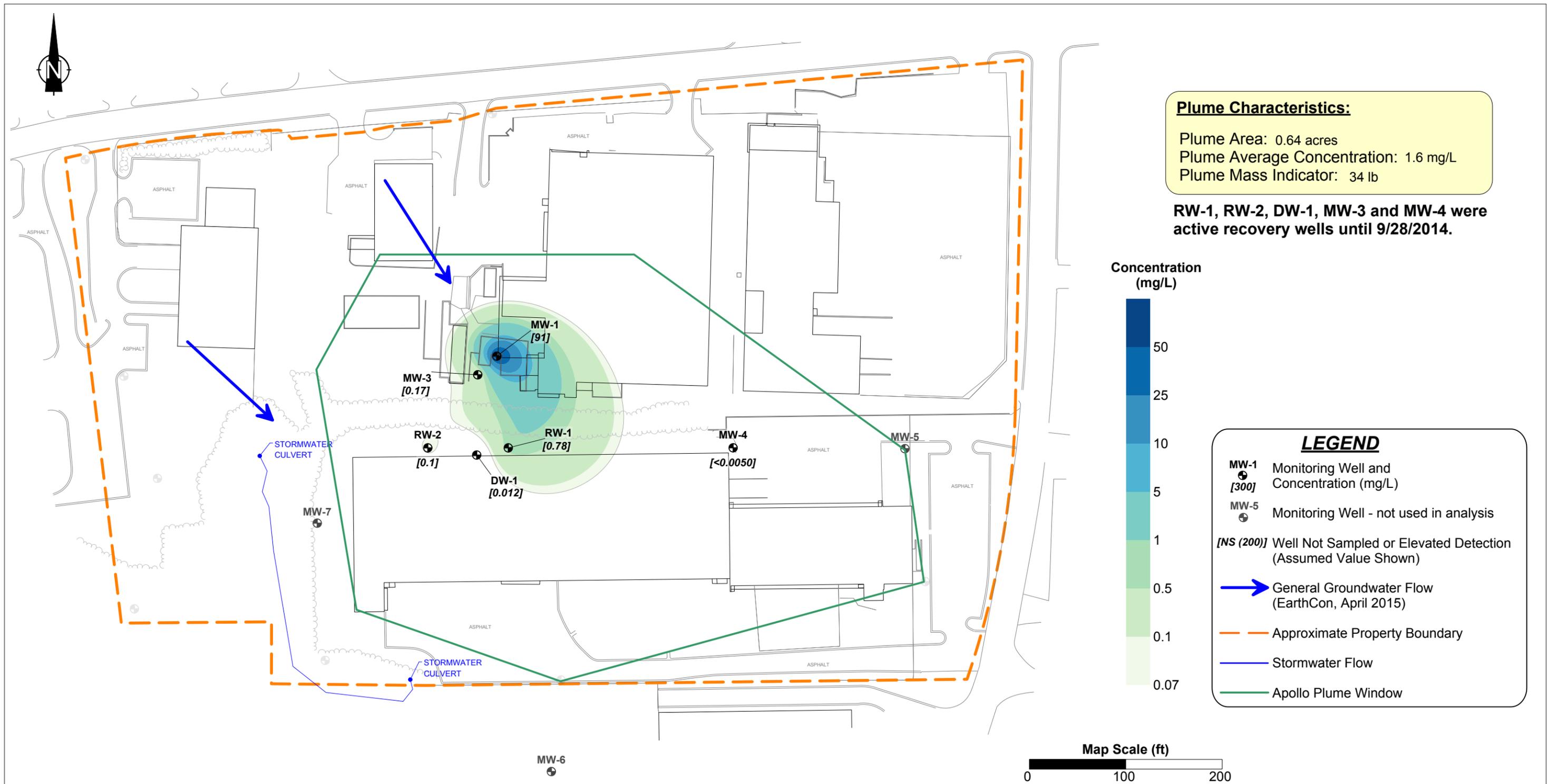
Project Number: 02.20140391.00



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 Marietta, Georgia 30062

Apollo Plume
cis-1,2-Dichloroethene
(cis-1,2-DCE)
Jul-2006

Prepared by: SSW Checked by: DW Figure:



Base Map Source: Terramark Land Surveying, Inc. (6/5/2012)

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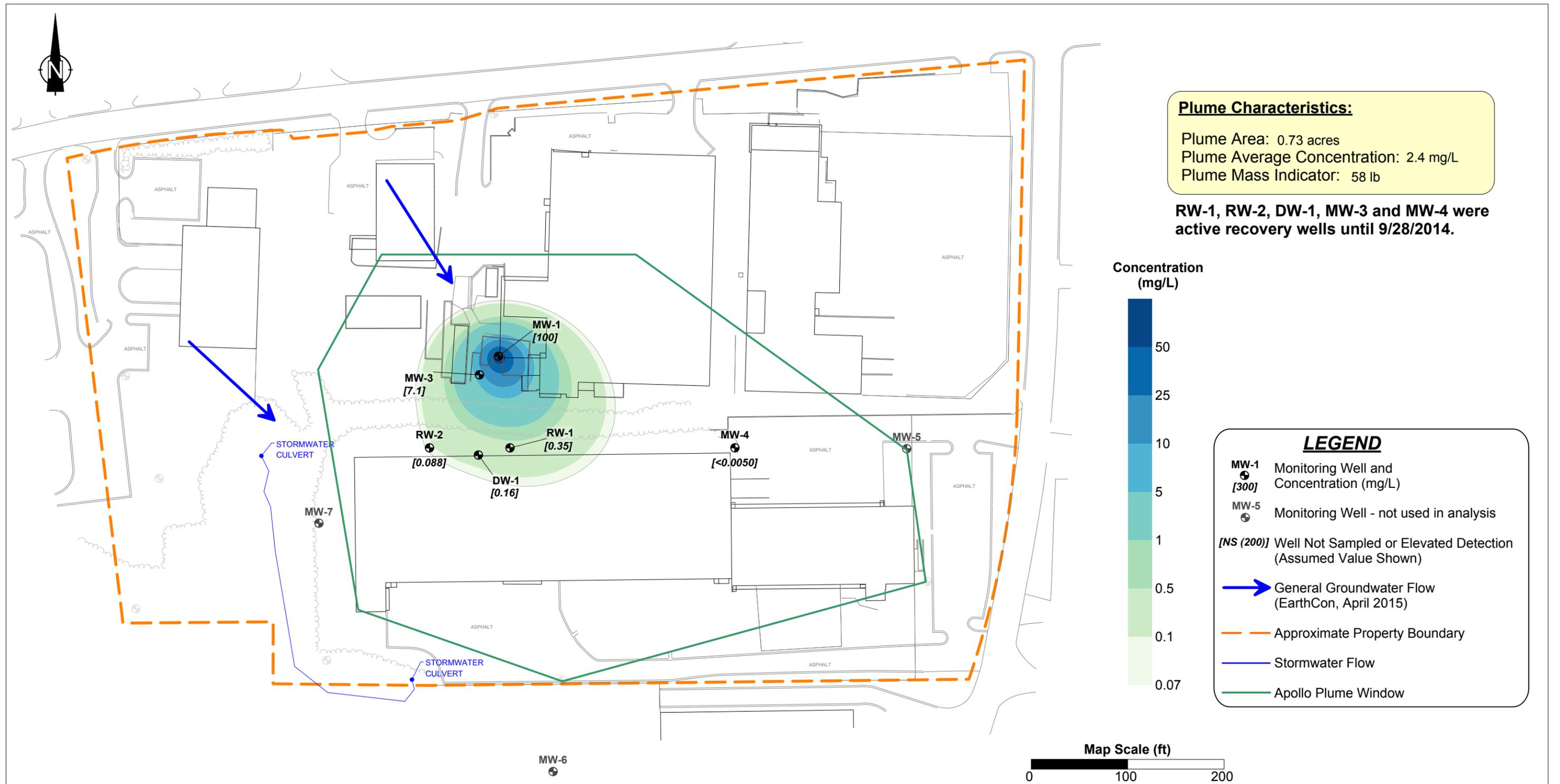
Project Number: 02.20140391.00



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Apollo Plume
cis-1,2-Dichloroethene
(cis-1,2-DCE)
Feb-2007

Prepared by: SSW Checked by: DW Figure:



Base Map Source: Terramark Land Surveying, Inc. (6/5/2012)

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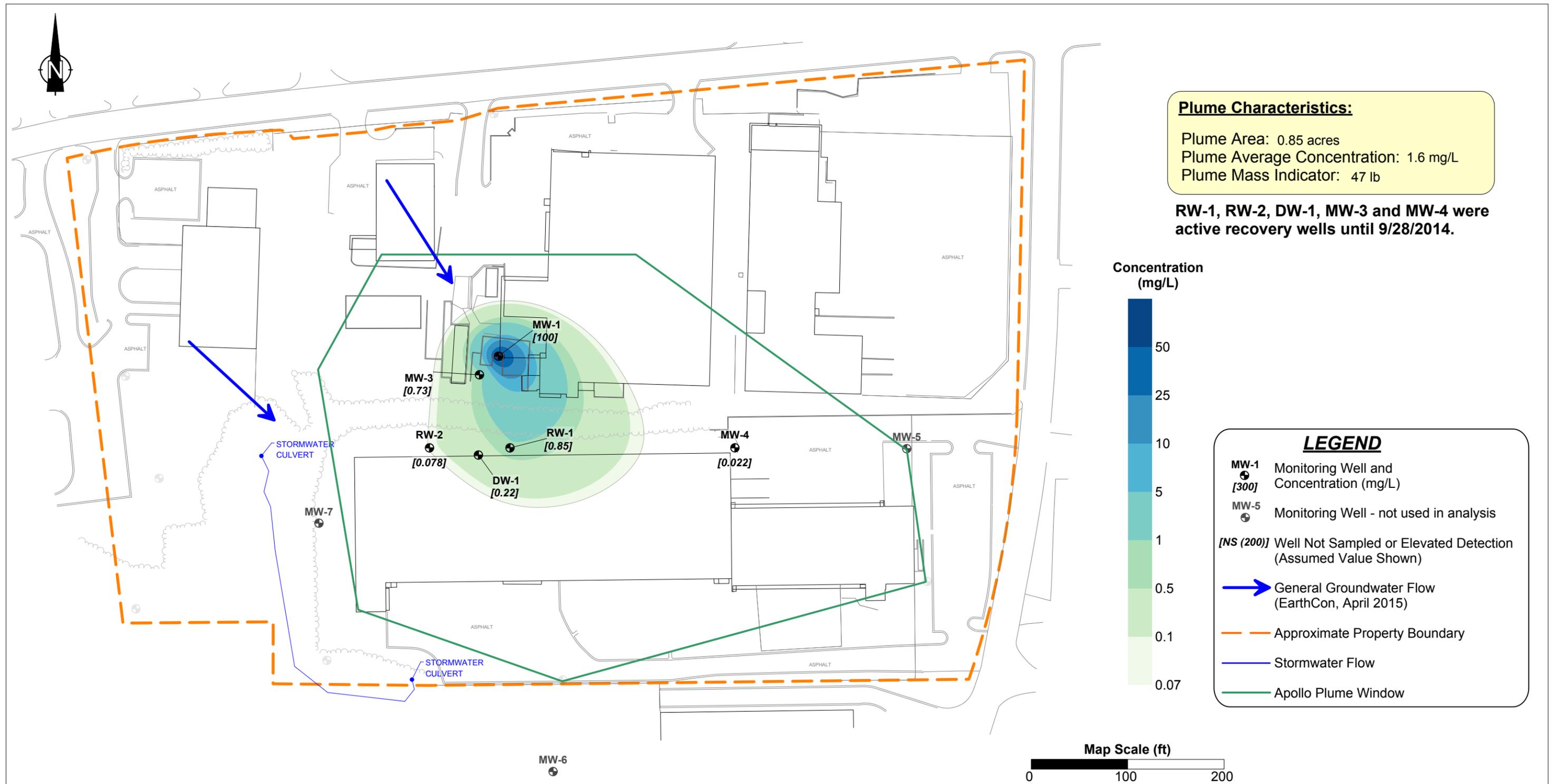
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Apollo Plume
cis-1,2-Dichloroethene
(cis-1,2-DCE)
Aug-2007

Prepared by: SSW Checked by: DW Figure:



Base Map Source: Terramark Land Surveying, Inc. (6/5/2012)

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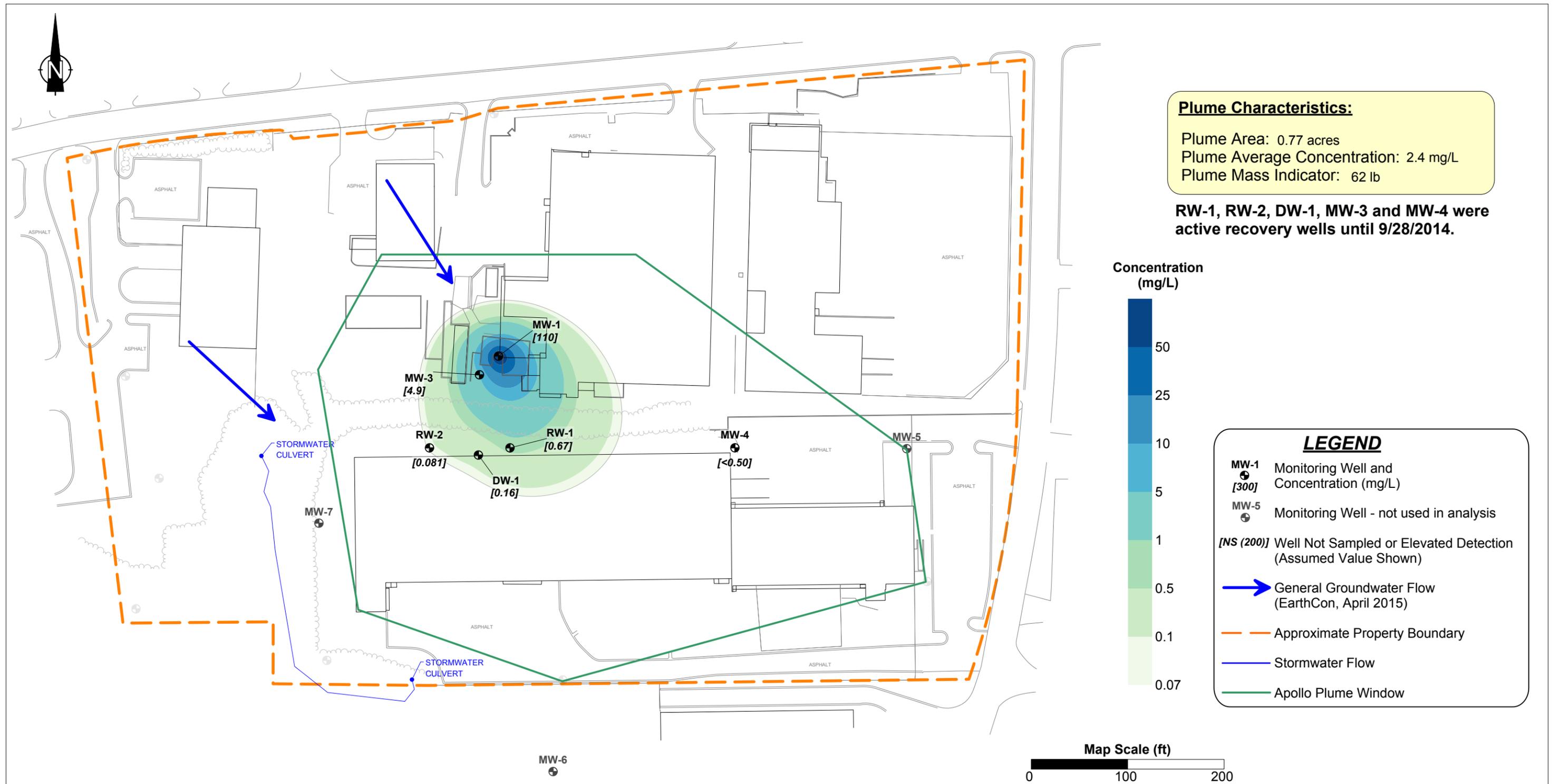
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Apollo Plume
cis-1,2-Dichloroethene
(cis-1,2-DCE)
Feb-2008

Prepared by: SSW Checked by: DW Figure:



Base Map Source: Terramark Land Surveying, Inc. (6/5/2012)

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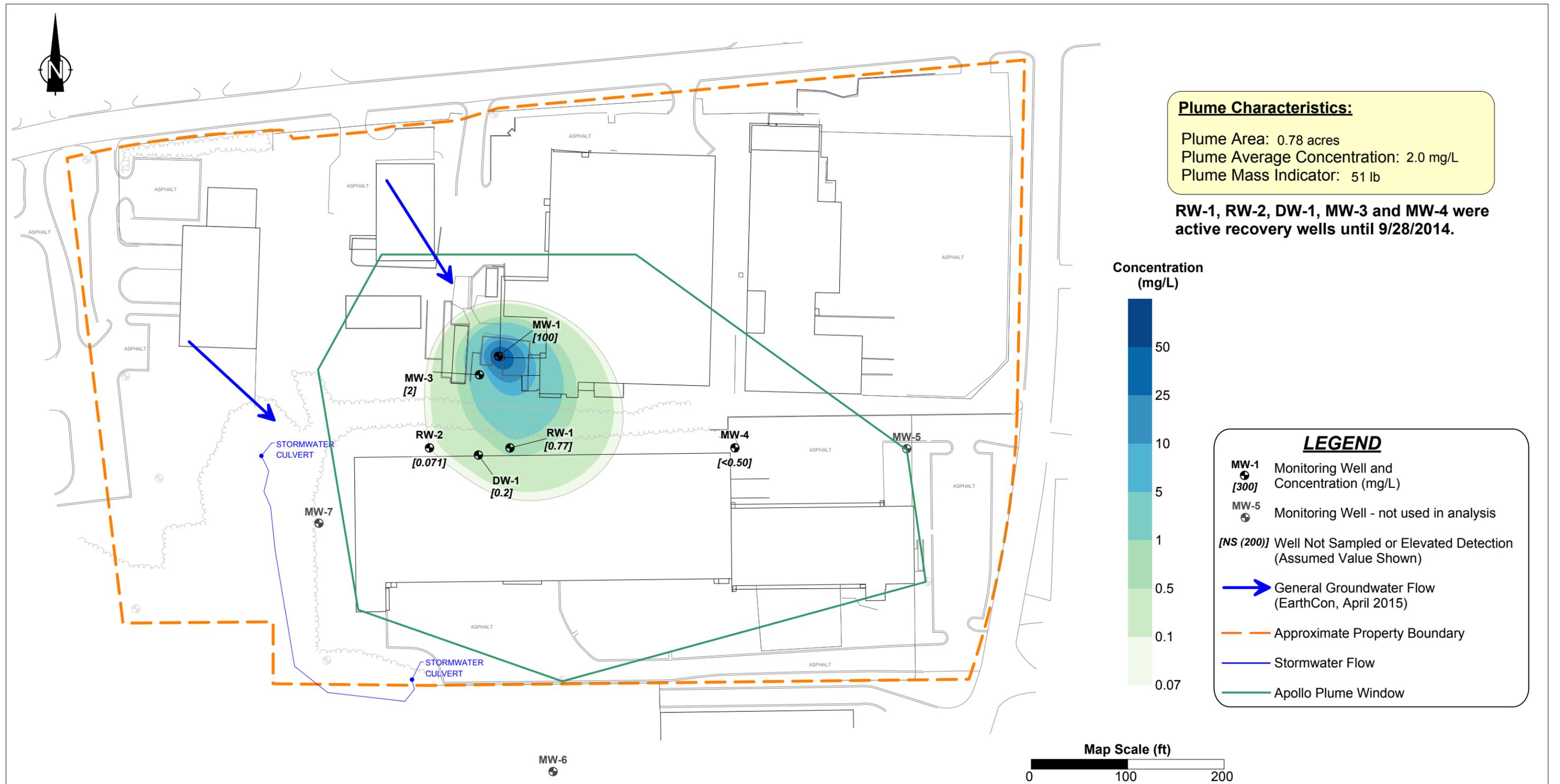
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Apollo Plume
cis-1,2-Dichloroethene
(cis-1,2-DCE)
Nov-2008

Prepared by: SSW Checked by: DW Figure:



Base Map Source: Terramark Land Surveying, Inc. (6/5/2012)

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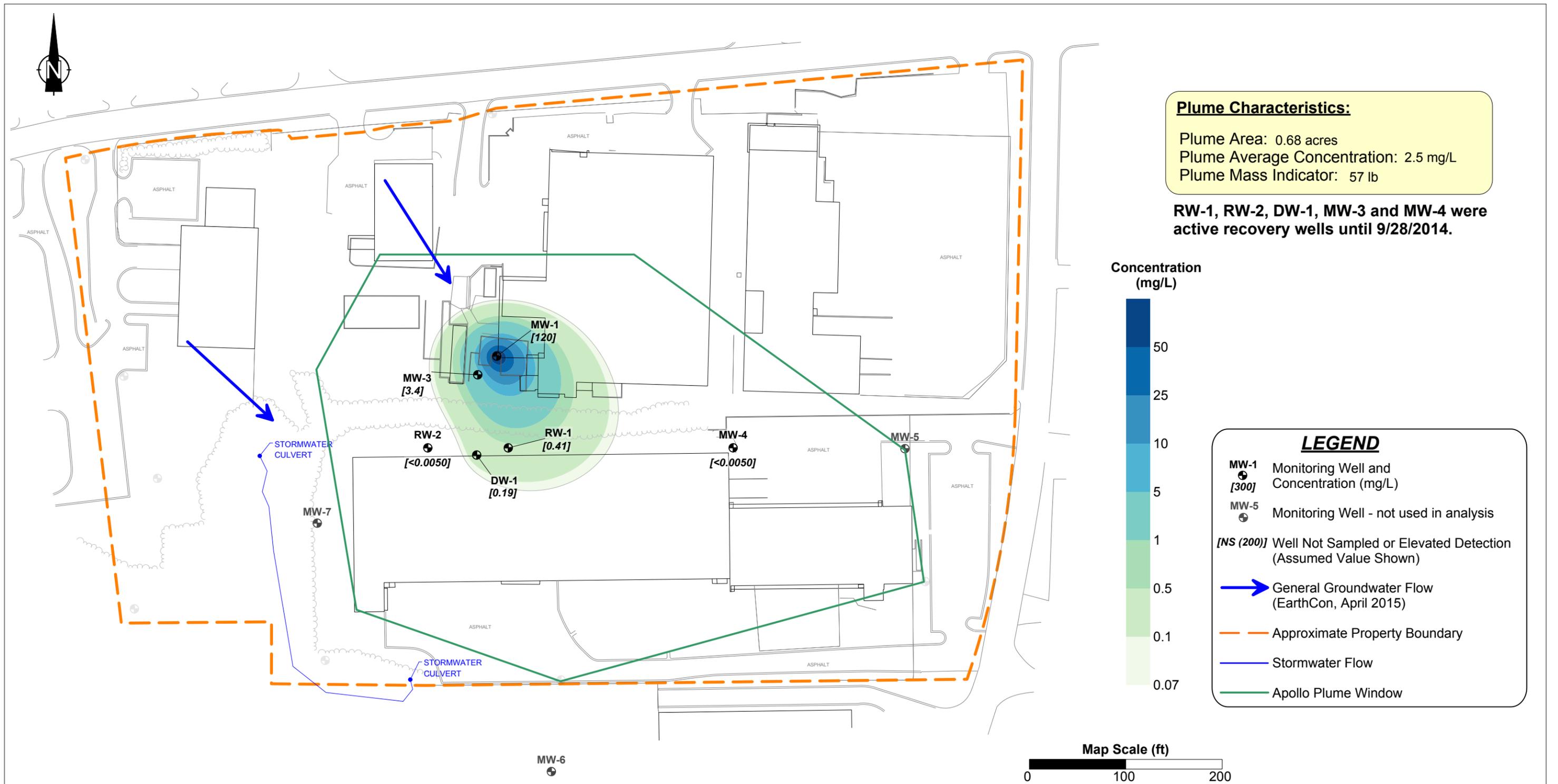
Project Number: 02.20140391.00



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Apollo Plume
cis-1,2-Dichloroethene
(cis-1,2-DCE)
Sep-2009

Prepared by: SSW Checked by: DW Figure:



Base Map Source: Terramark Land Surveying, Inc. (6/5/2012)

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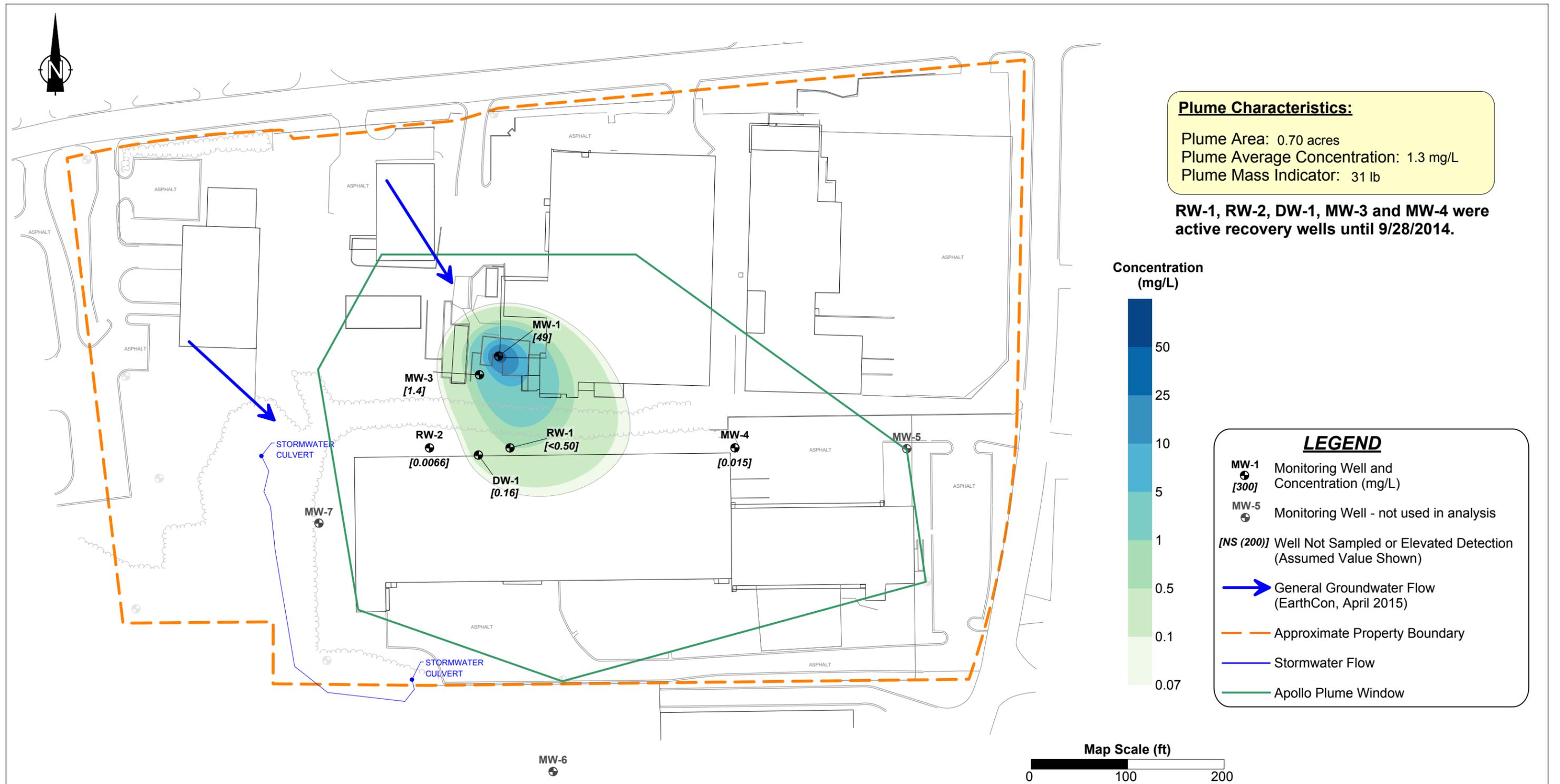
Project Number: 02.20140391.00



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Apollo Plume
cis-1,2-Dichloroethene
(cis-1,2-DCE)
Mar-2010

Prepared by: SSW Checked by: DW Figure:



Base Map Source: Terramark Land Surveying, Inc. (6/5/2012)

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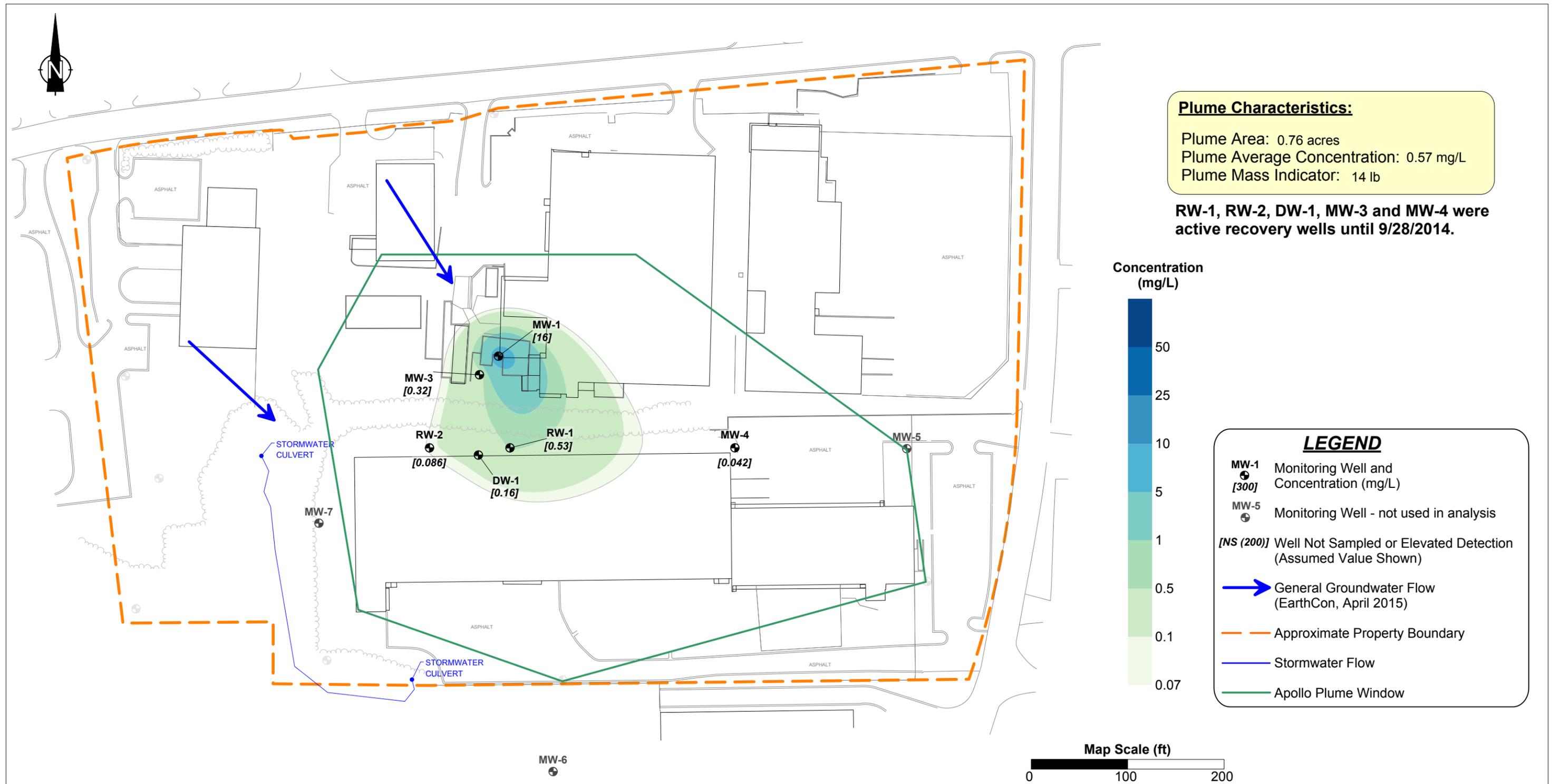
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Apollo Plume
cis-1,2-Dichloroethene
(cis-1,2-DCE)
Sep-2010

Prepared by: SSW Checked by: DW Figure:



Base Map Source: Terramark Land Surveying, Inc. (6/5/2012)

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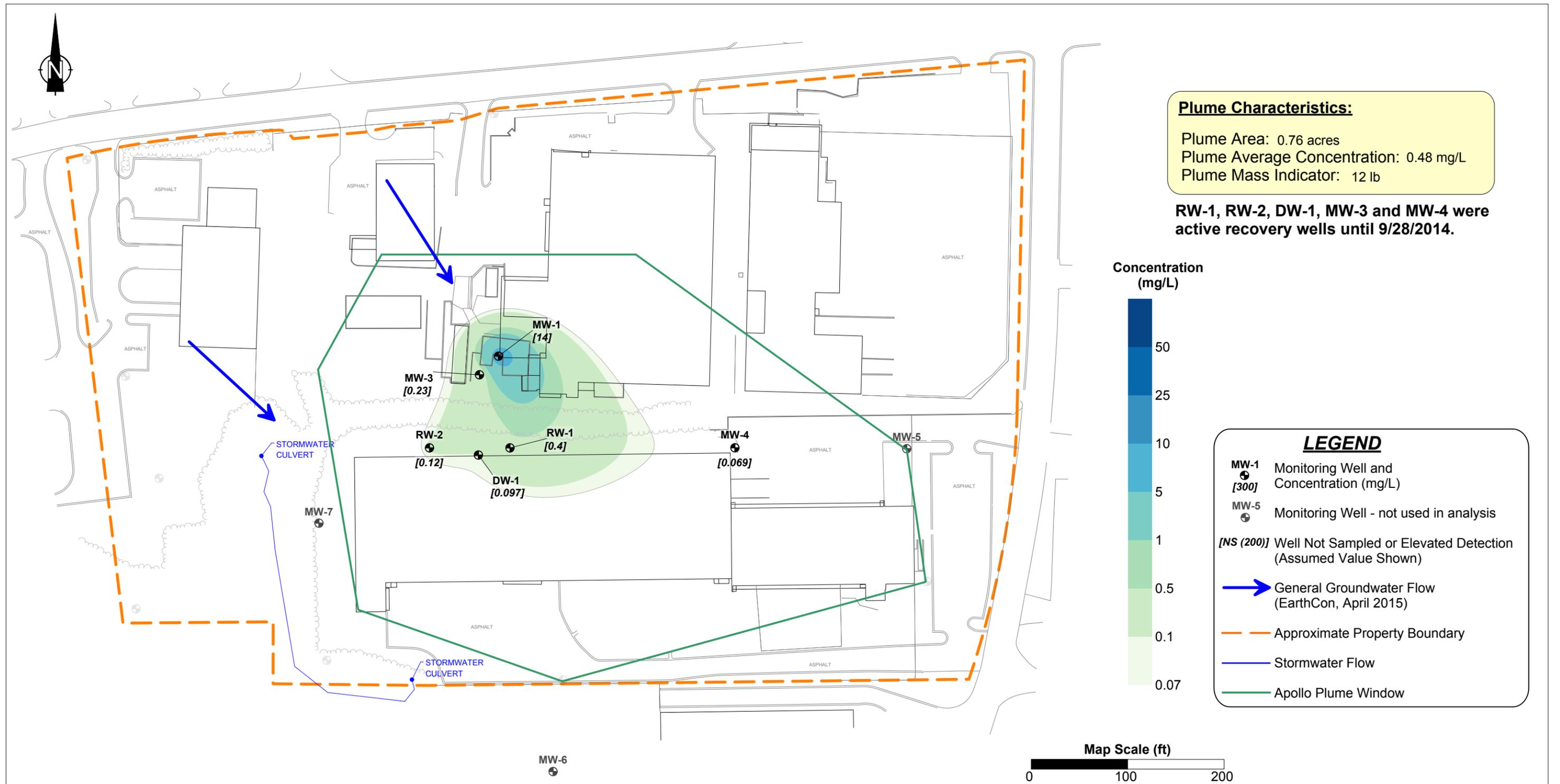
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 Marietta, Georgia 30062

Apollo Plume
cis-1,2-Dichloroethene
(cis-1,2-DCE)
Apr-2011

Prepared by: SSW Checked by: DW Figure:



Base Map Source: Terramark Land Surveying, Inc. (6/5/2012)

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Apollo Industries, Inc.
 1850 South Cobb Industrial Blvd.
 HSI Site Number 10333

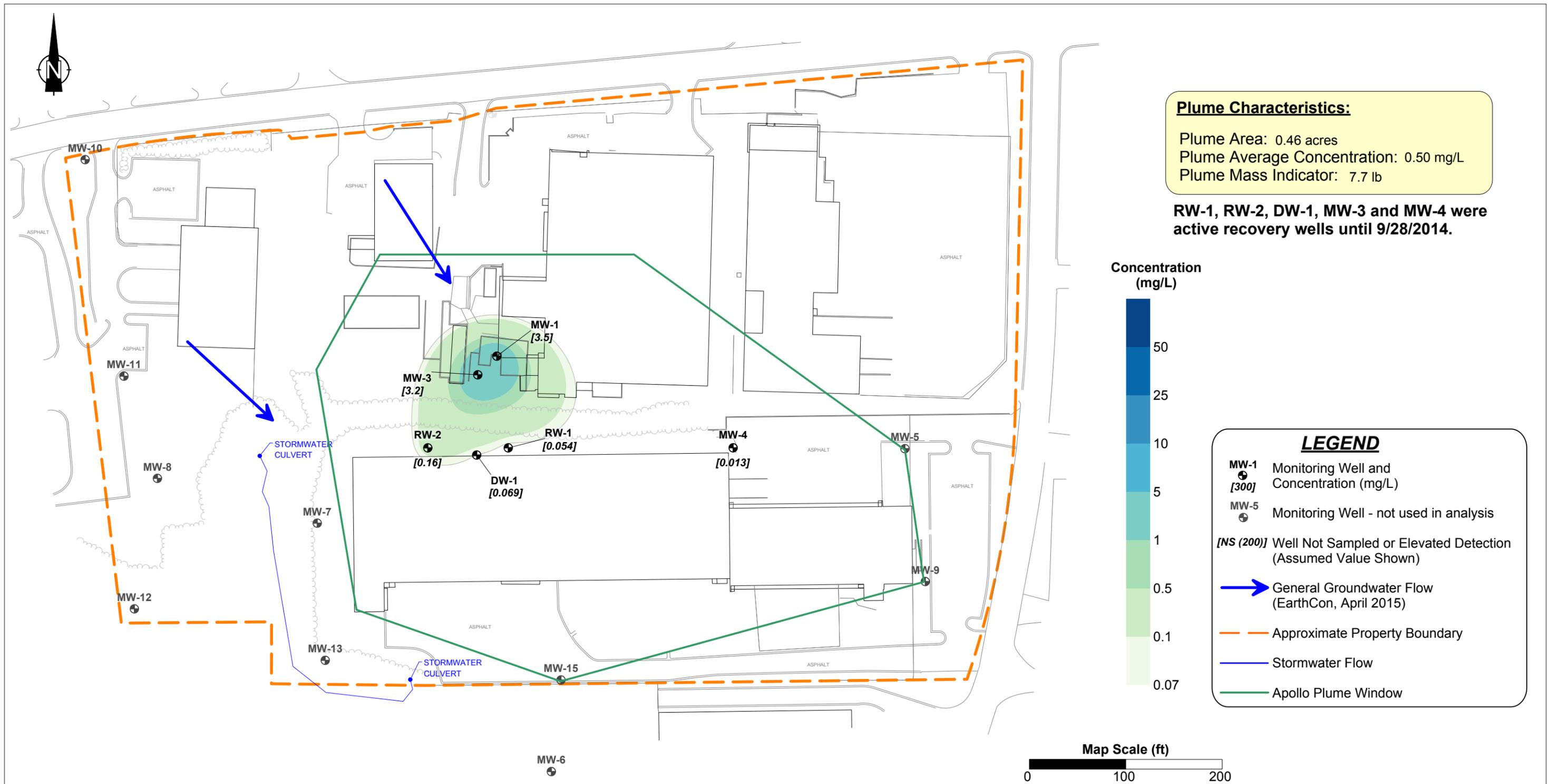
Project Number: 02.20140391.00



1880 West Oak Parkway, Bldg. 100 Suite 106
 Marietta, Georgia 30062

Apollo Plume
cis-1,2-Dichloroethene
(cis-1,2-DCE)
Oct-2011

Prepared by: SSW Checked by: DW Figure:



Base Map Source: Terramark Land Surveying, Inc. (6/5/2012)

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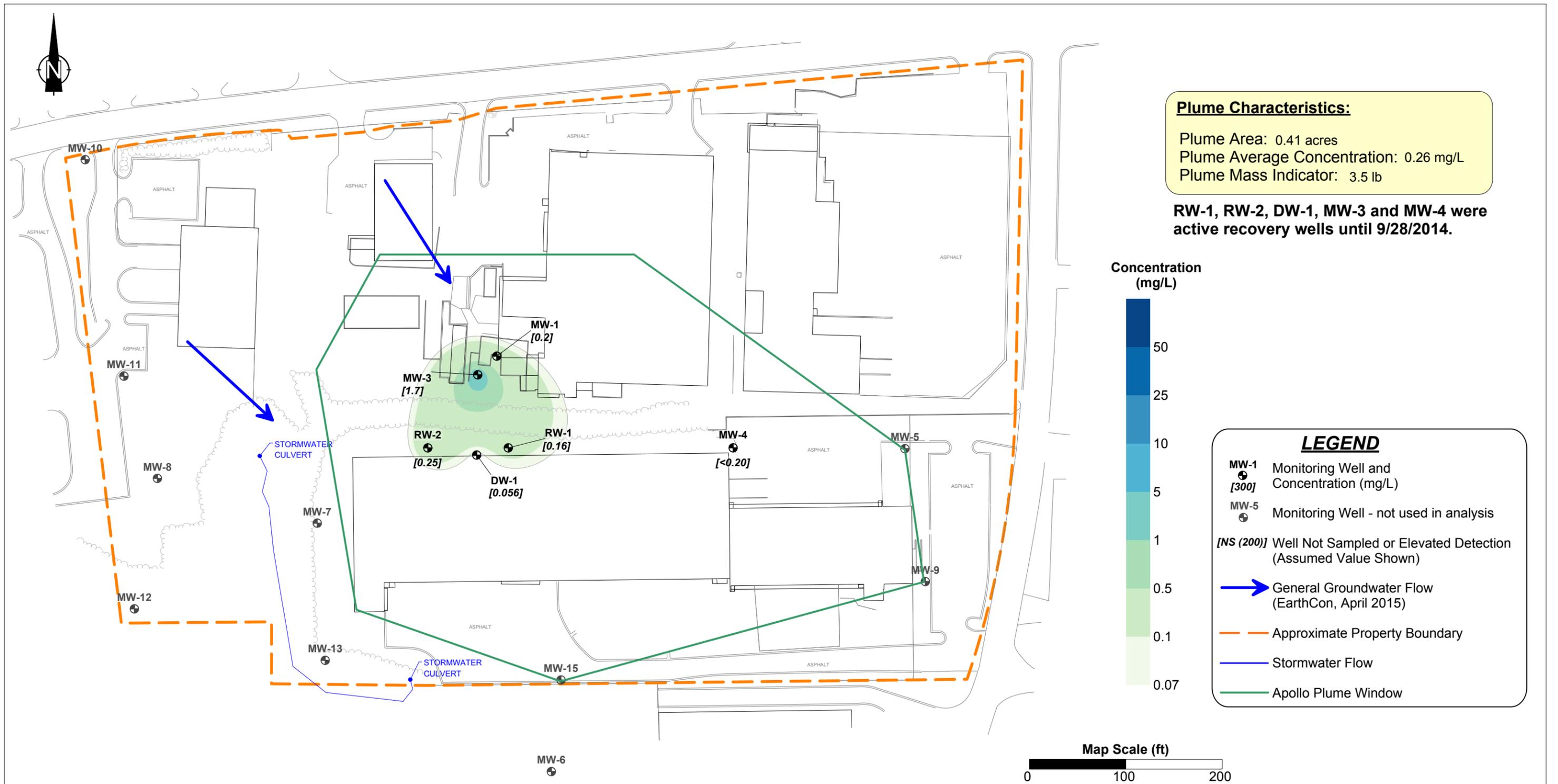
Project Number: 02.20140391.00



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Apollo Plume
cis-1,2-Dichloroethene
(cis-1,2-DCE)
Sep-2012

Prepared by: SSW Checked by: DW Figure:



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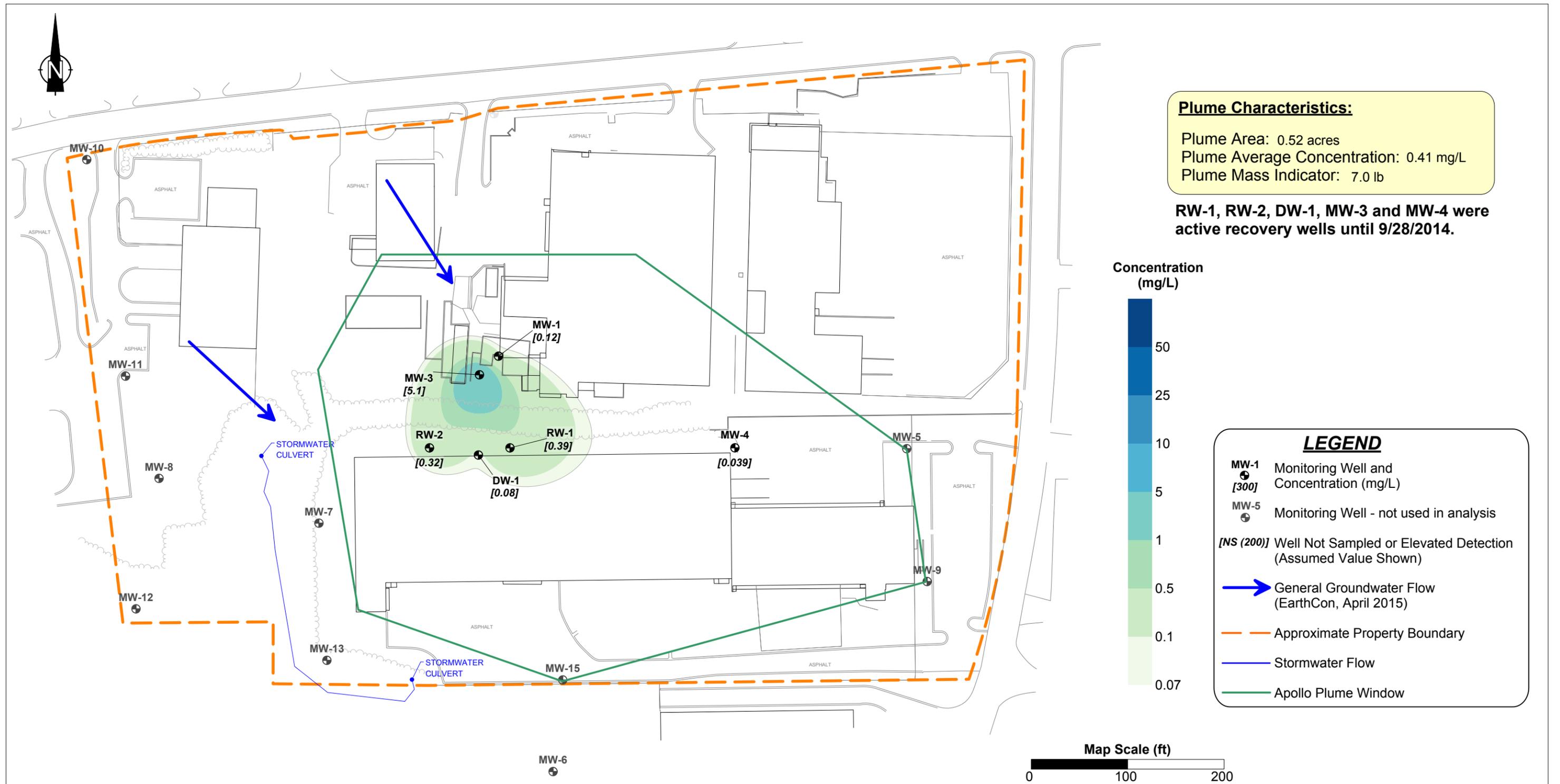
Project Number: 02.20140391.00



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Apollo Plume
cis-1,2-Dichloroethene
(cis-1,2-DCE)
Jun-2013

Prepared by: SSW Checked by: DW Figure:



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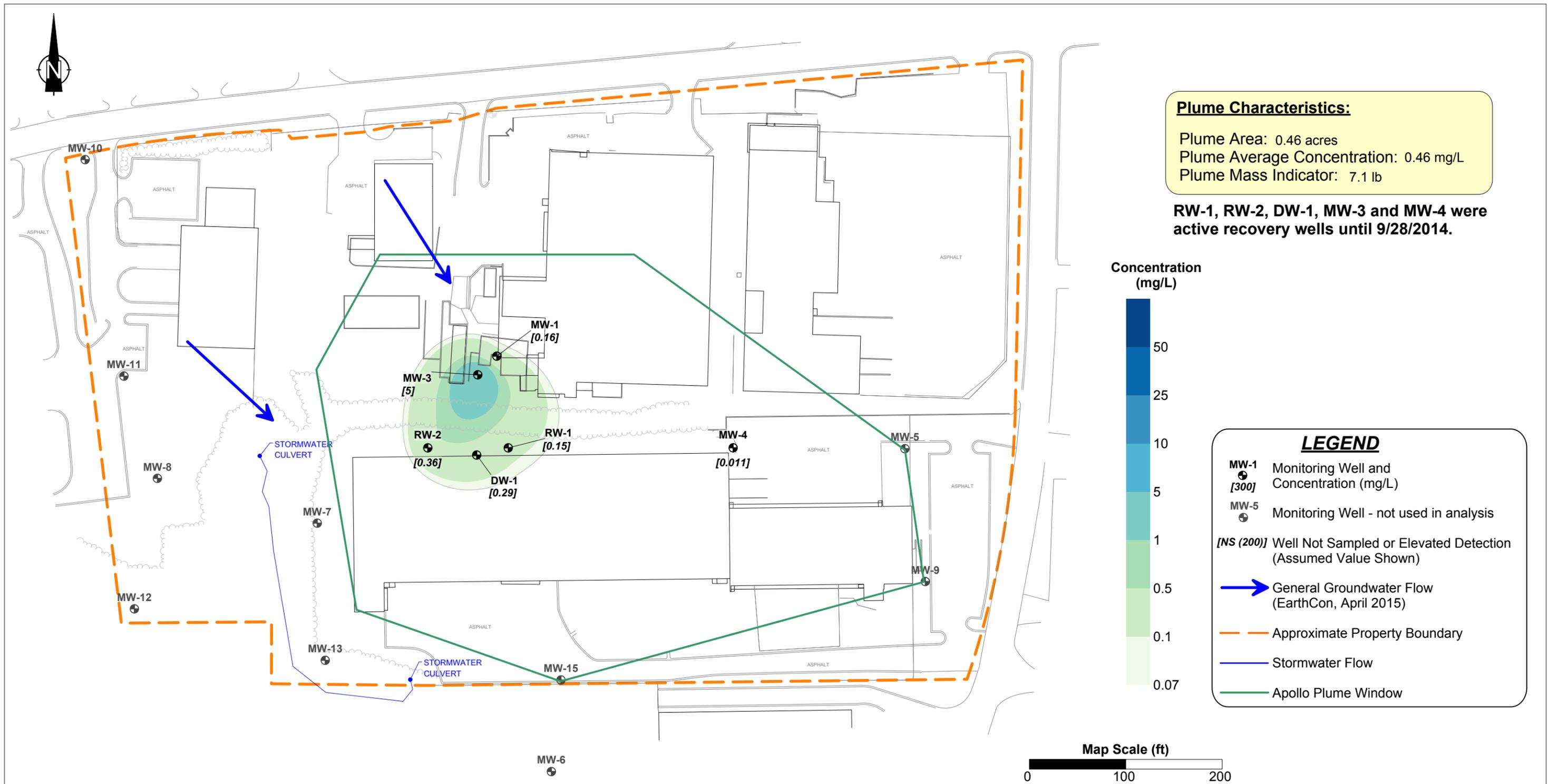
Project Number: 02.20140391.00



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Apollo Plume
cis-1,2-Dichloroethene
(cis-1,2-DCE)
Dec-2013

Prepared by: SSW Checked by: DW Figure:



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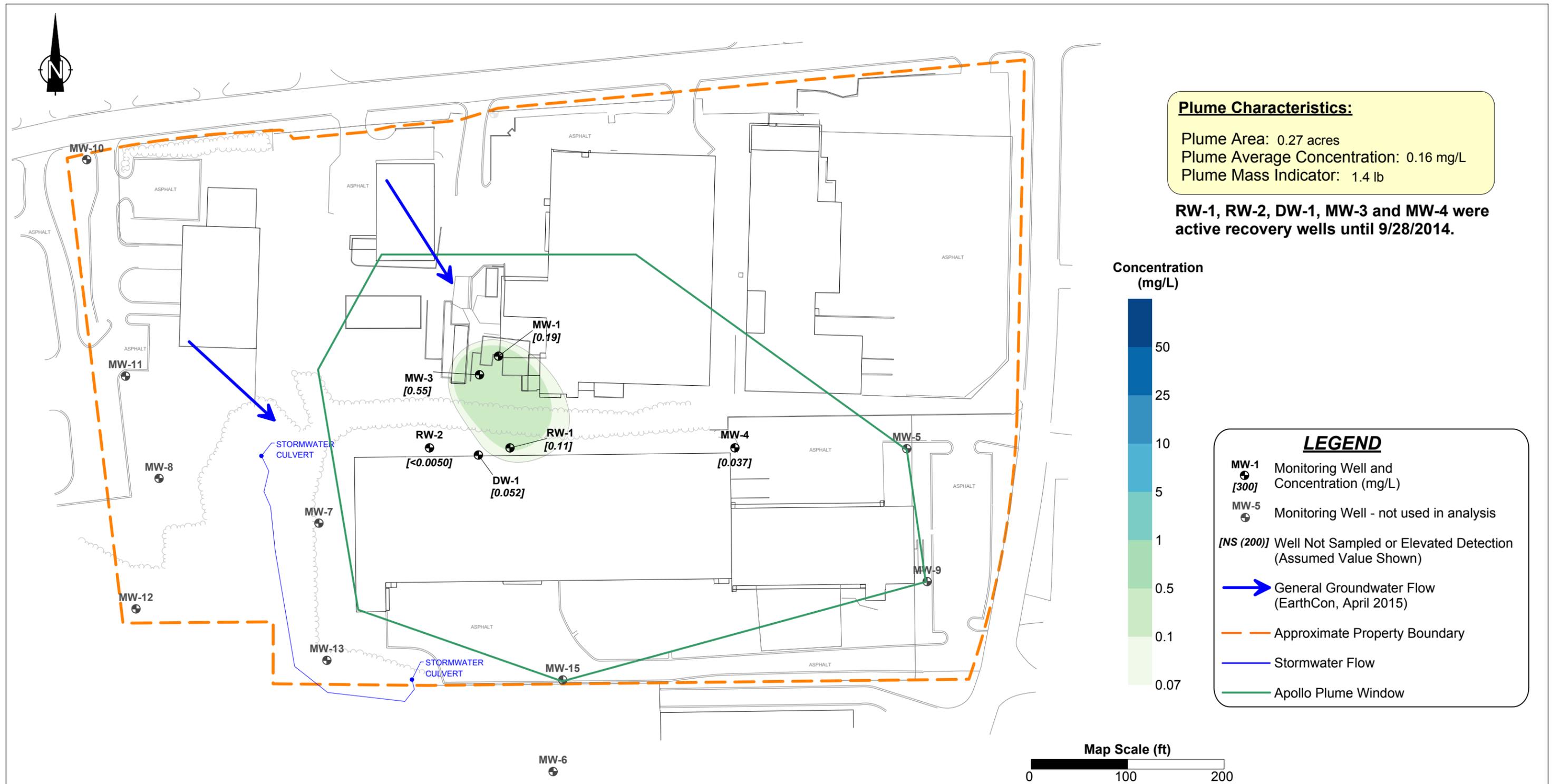
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Apollo Plume
cis-1,2-Dichloroethene
(cis-1,2-DCE)
Oct-2014

Prepared by: SSW Checked by: DW Figure:



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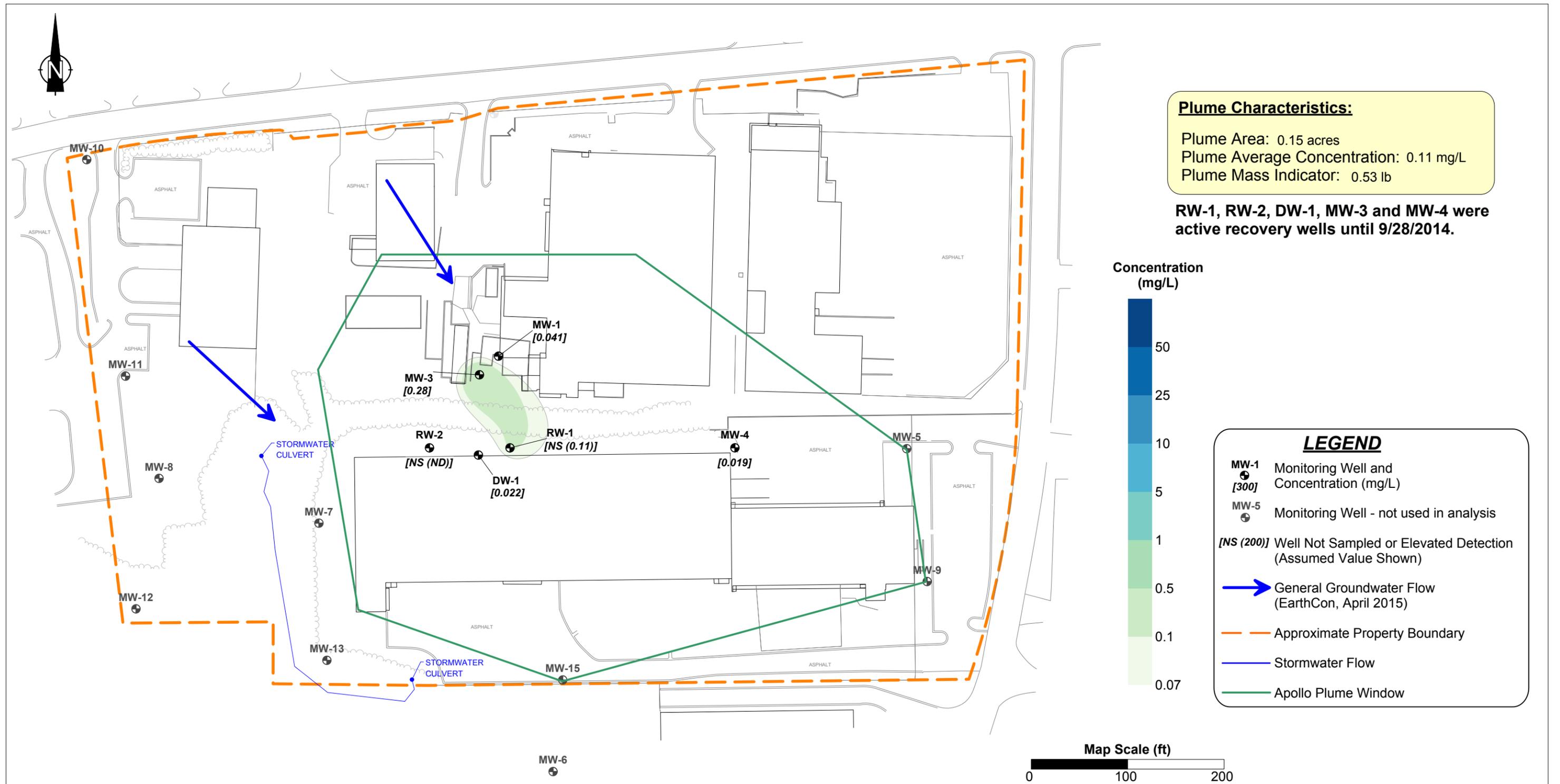
Project Number: 02.20140391.00



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Apollo Plume
cis-1,2-Dichloroethene
(cis-1,2-DCE)
Jan-2015

Prepared by: SSW Checked by: DW Figure:



Base Map Source: Terramark Land Surveying, Inc. (6/5/2012)

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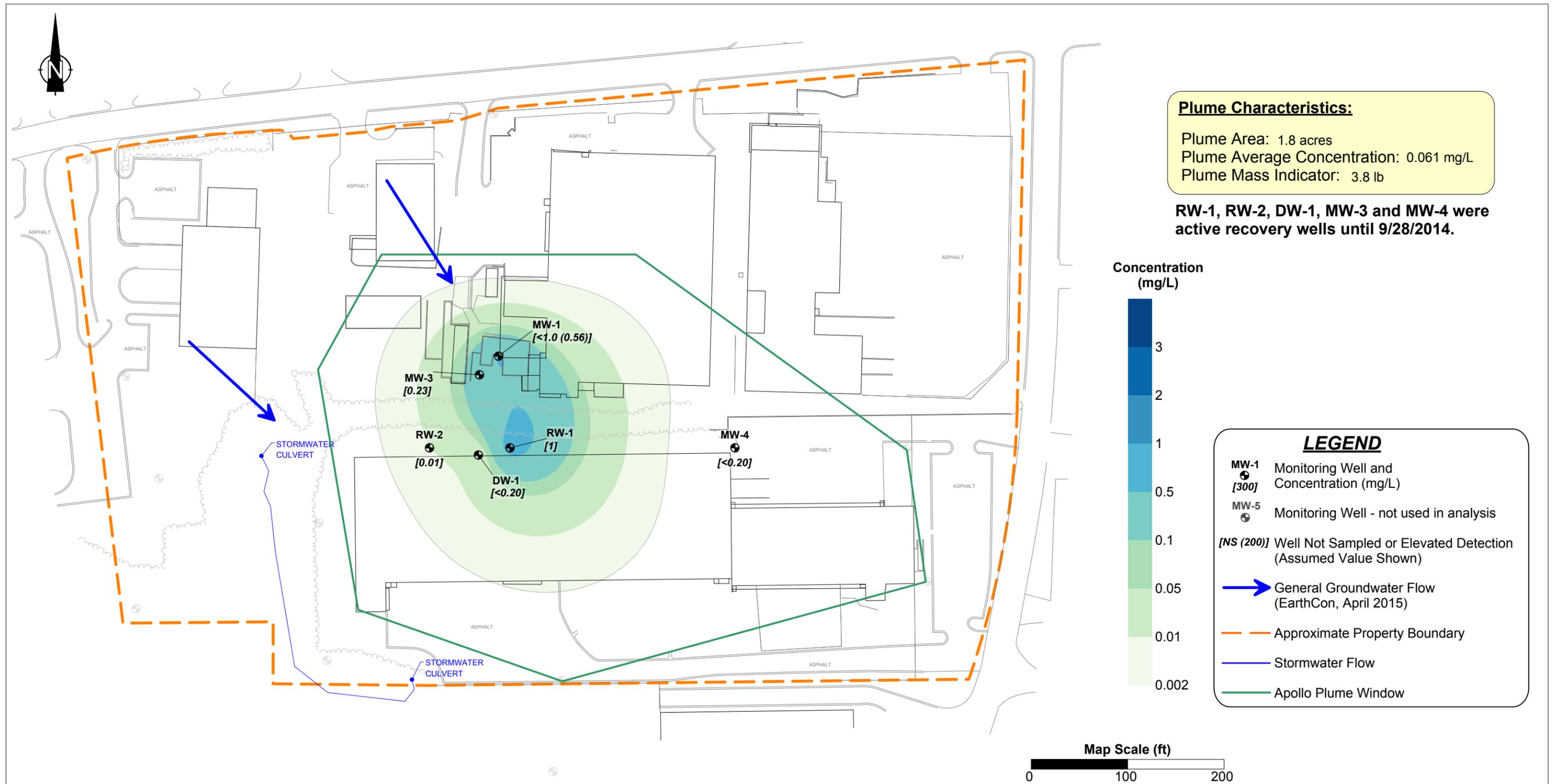


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Apollo Plume
cis-1,2-Dichloroethene
(cis-1,2-DCE)
Apr-2015

Prepared by: SSW Checked by: DW Figure:

Appendix F
Apollo Plume Series Isopleth Maps
Vinyl Chloride



Base Map Source: Terramark Land Surveying, Inc. (6/5/2012)

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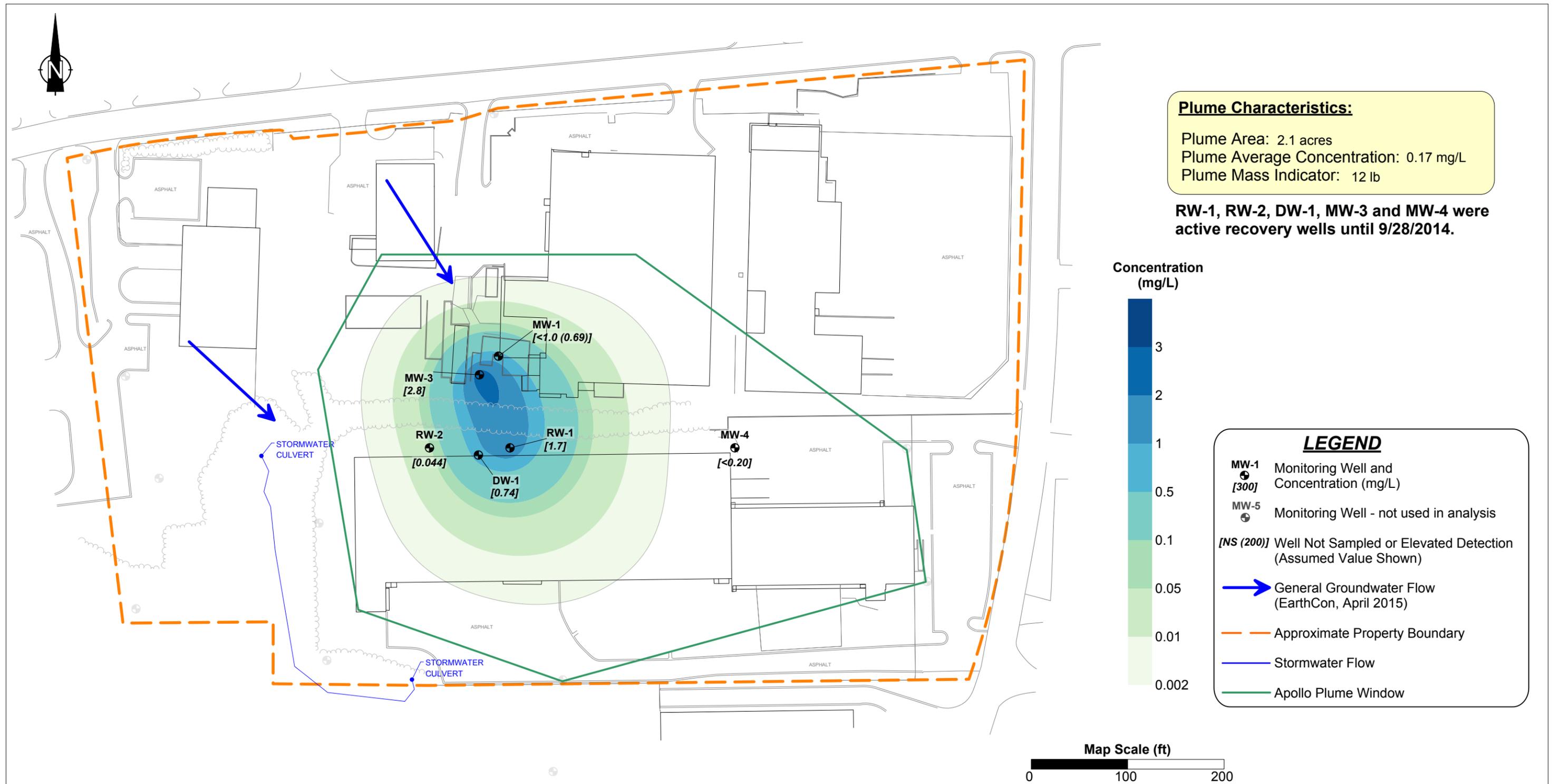
Project Number: 02.20140391.00



1880 West Oak Parkway, Bldg. 100 Suite 106
 Marietta, Georgia 30062

**Apollo Plume
 Vinyl Chloride (VC)
 Jan-2005**

Prepared by: SSW Checked by: DW Figure:



Base Map Source: Terramark Land Surveying, Inc. (6/5/2012)

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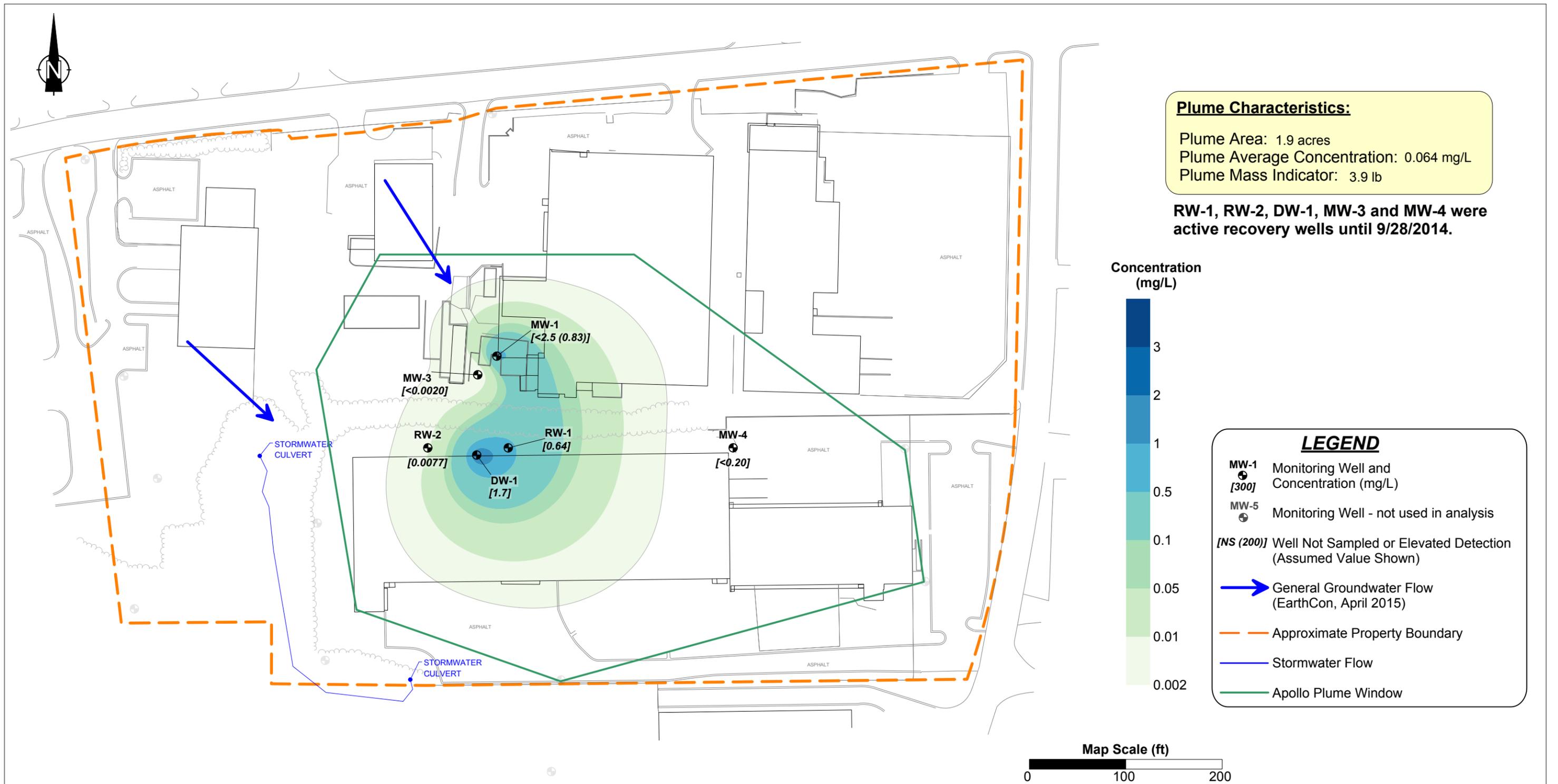
Project Number: 02.20140391.00



1880 West Oak Parkway, Bldg. 100 Suite 106
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**Apollo Plume
 Vinyl Chloride (VC)
 Dec-2005**

Prepared by: SSW Checked by: DW Figure:



Base Map Source: Terramark Land Surveying, Inc. (6/5/2012)

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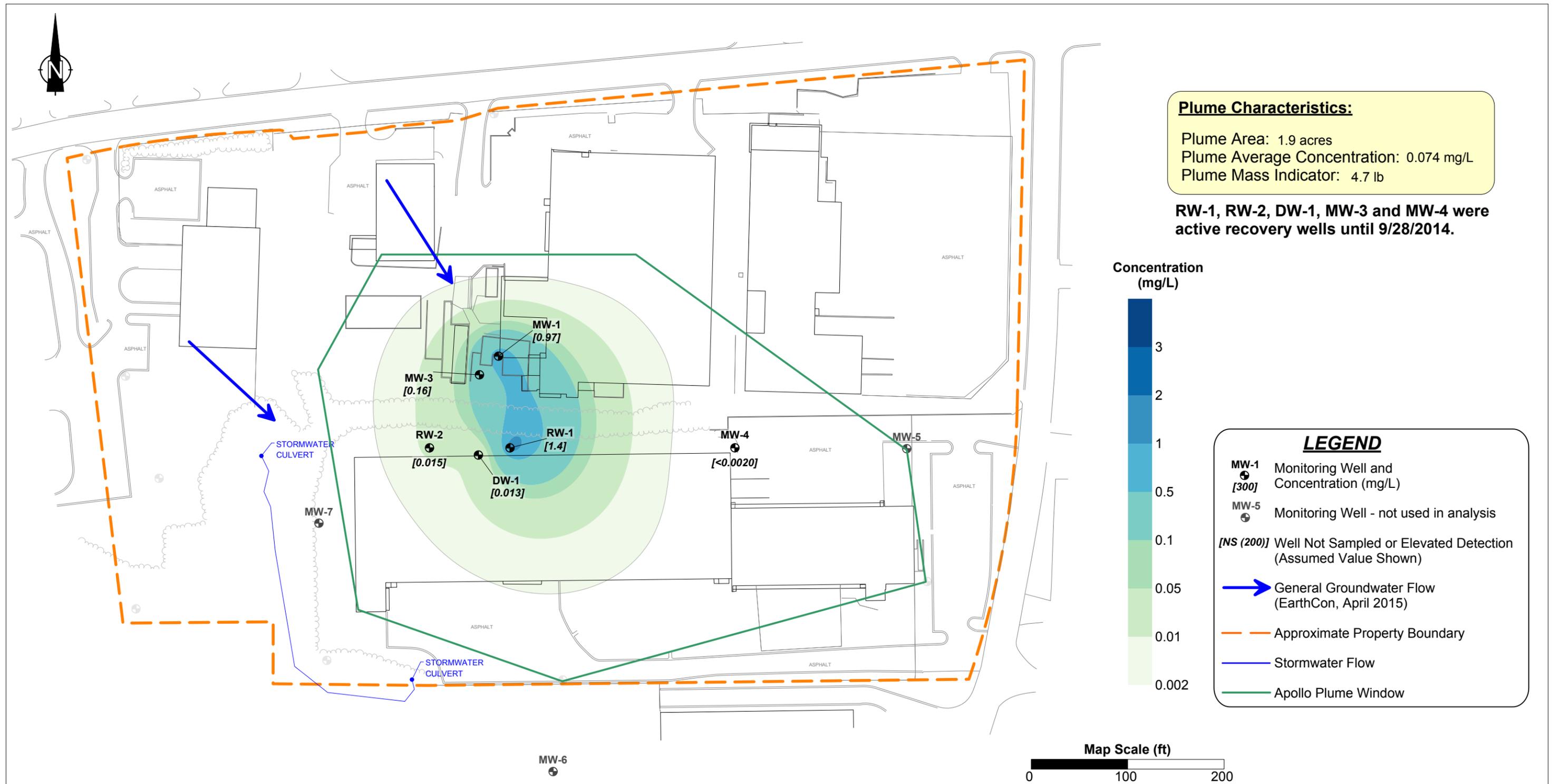
Project Number: 02.20140391.00



1880 West Oak Parkway, Bldg. 100 Suite 106
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**Apollo Plume
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 Jul-2006**

Prepared by: SSW Checked by: DW Figure:



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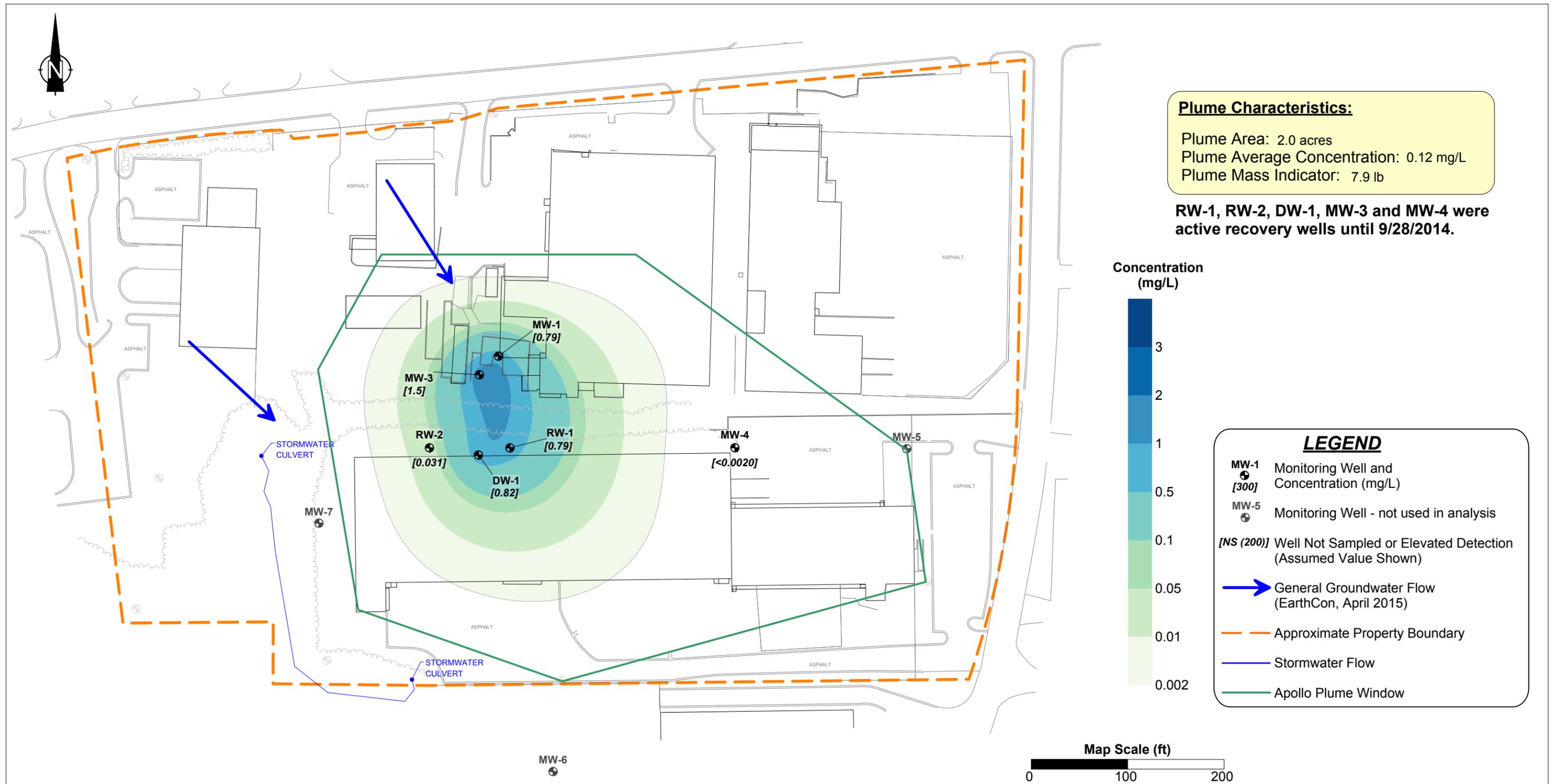


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 Marietta, Georgia 30062

**Apollo Plume
 Vinyl Chloride (VC)
 Feb-2007**

Project Number: 02.20140391.00

Prepared by: SSW Checked by: DW Figure:



Base Map Source: Terramark Land Surveying, Inc. (6/5/2012)

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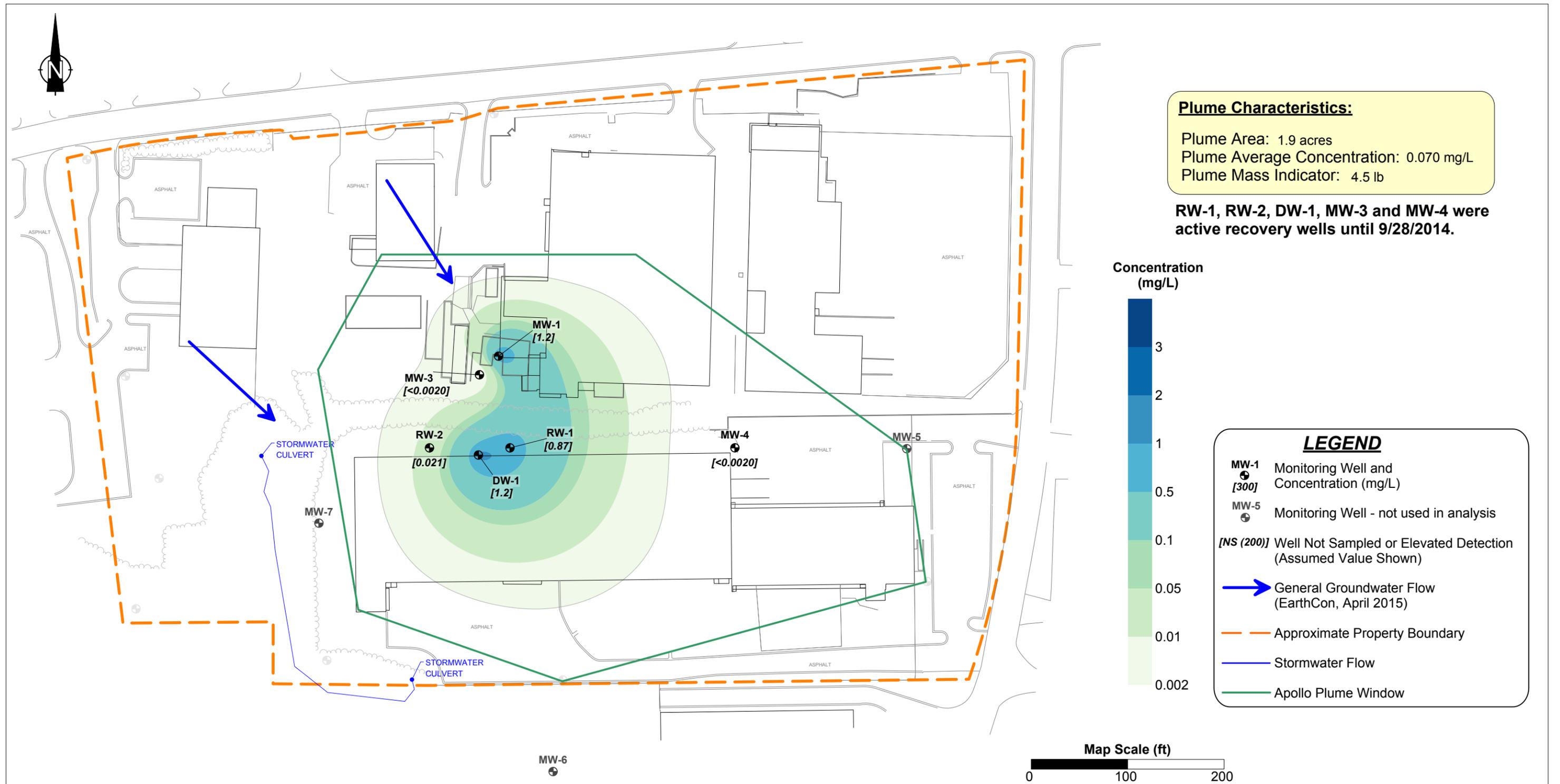
Project Number: 02.20140391.00



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**Apollo Plume
 Vinyl Chloride (VC)
 Aug-2007**

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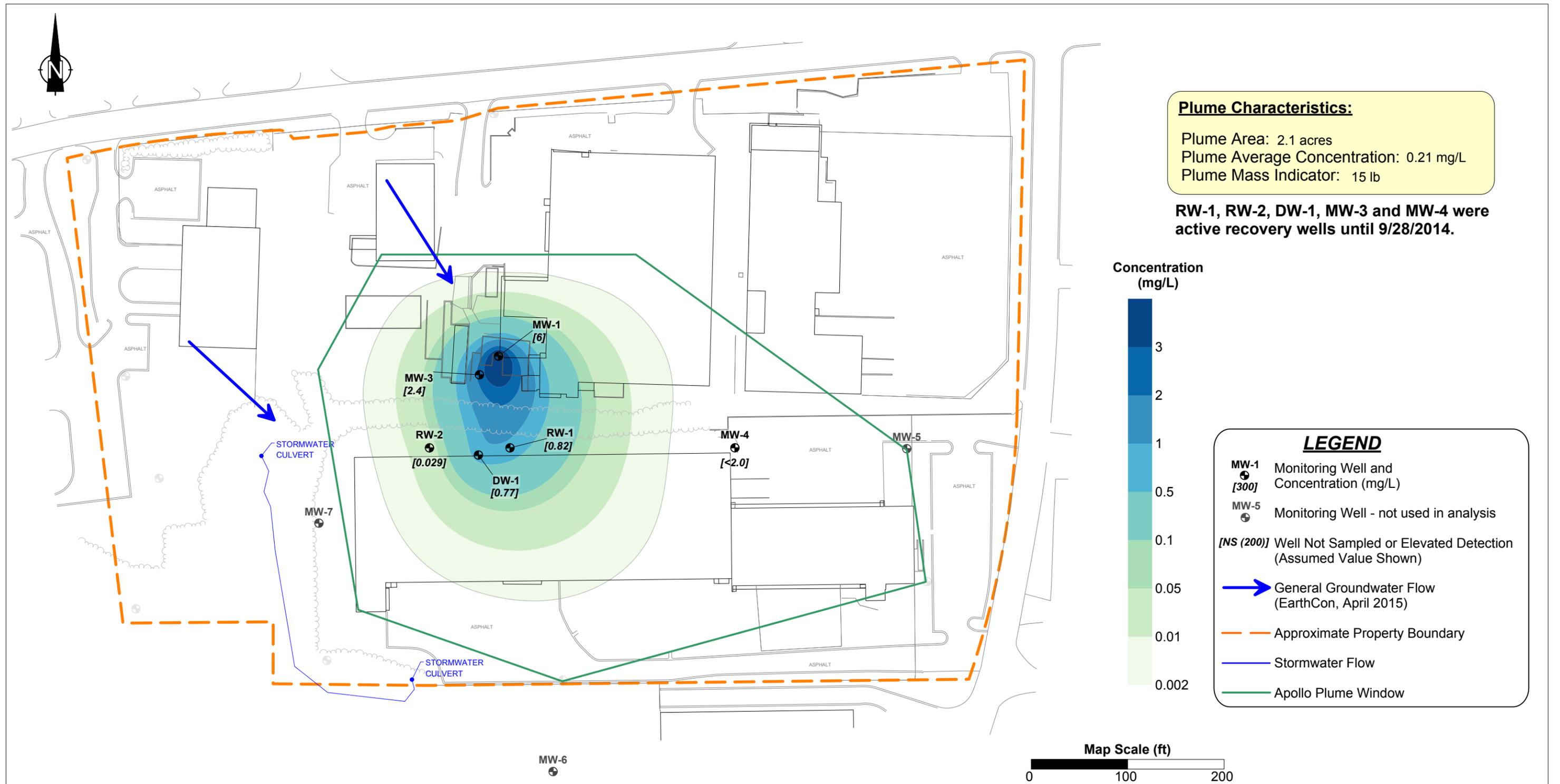
Project Number: 02.20140391.00



1880 West Oak Parkway, Bldg. 100 Suite 106
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**Apollo Plume
 Vinyl Chloride (VC)
 Feb-2008**

Prepared by: SSW Checked by: DW Figure:



Base Map Source: Terramark Land Surveying, Inc. (6/5/2012)

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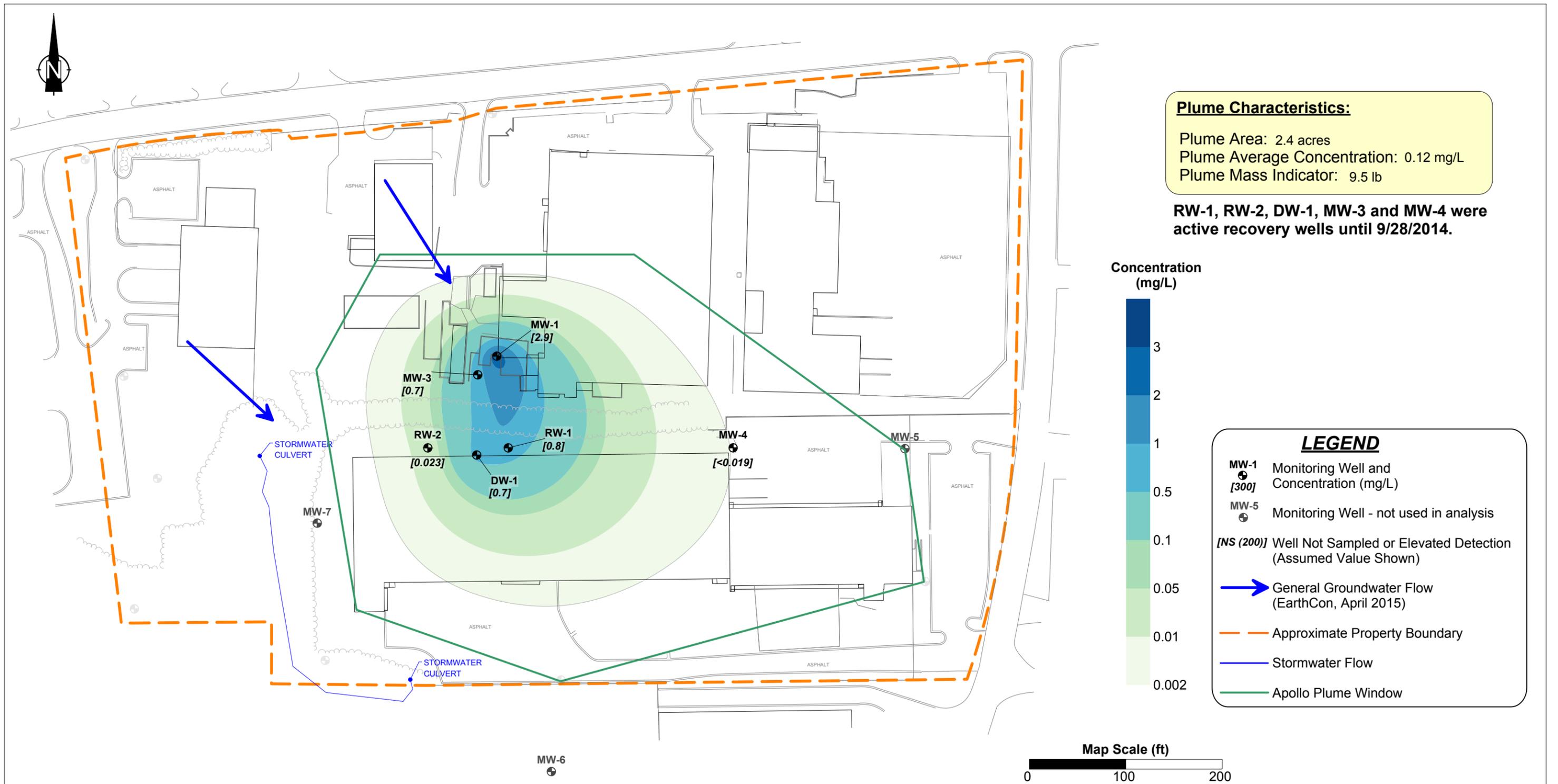
Project Number: 02.20140391.00



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**Apollo Plume
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 Nov-2008**

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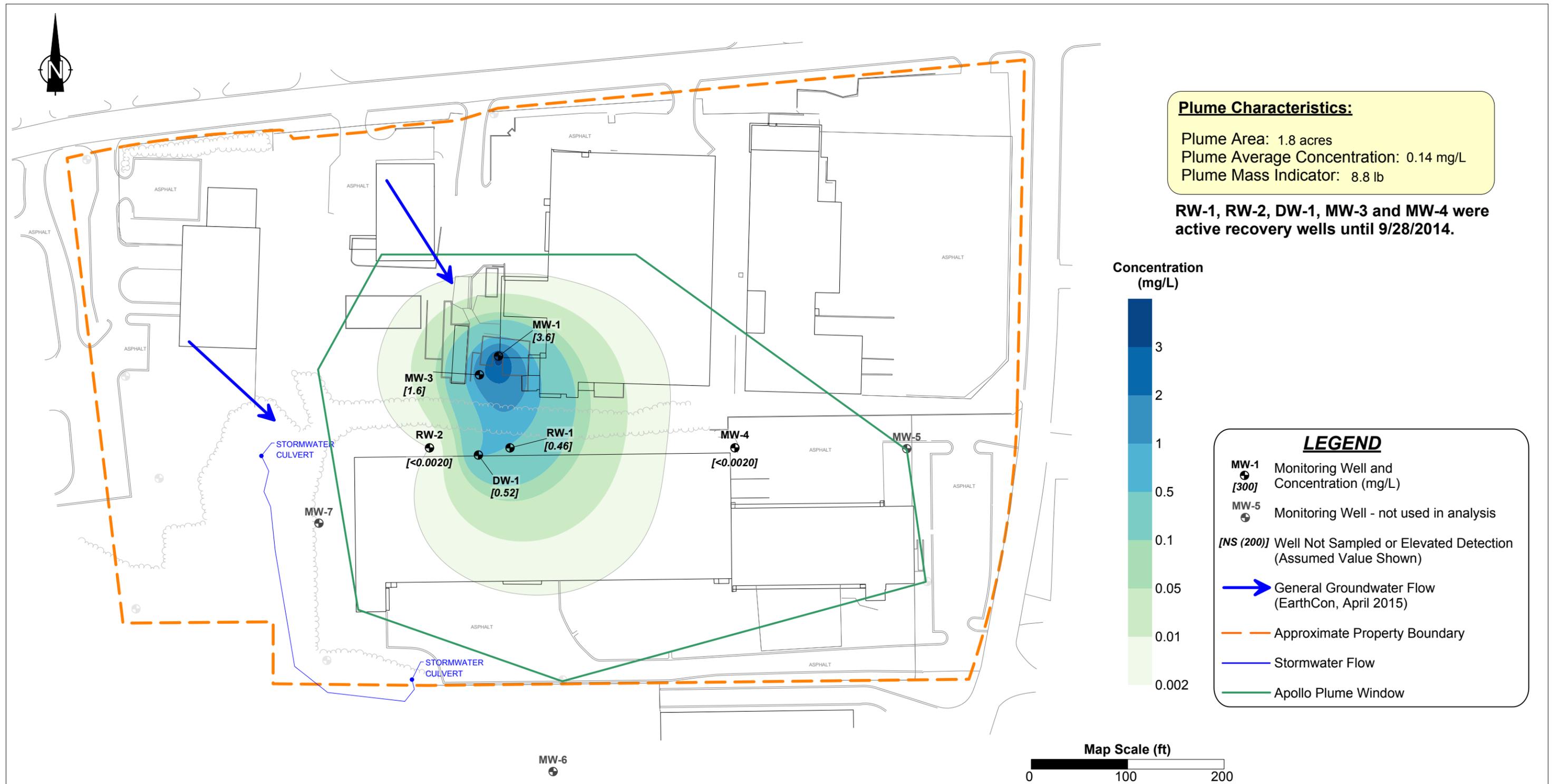
Project Number: 02.20140391.00



1880 West Oak Parkway, Bldg. 100 Suite 106
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**Apollo Plume
 Vinyl Chloride (VC)
 Sep-2009**

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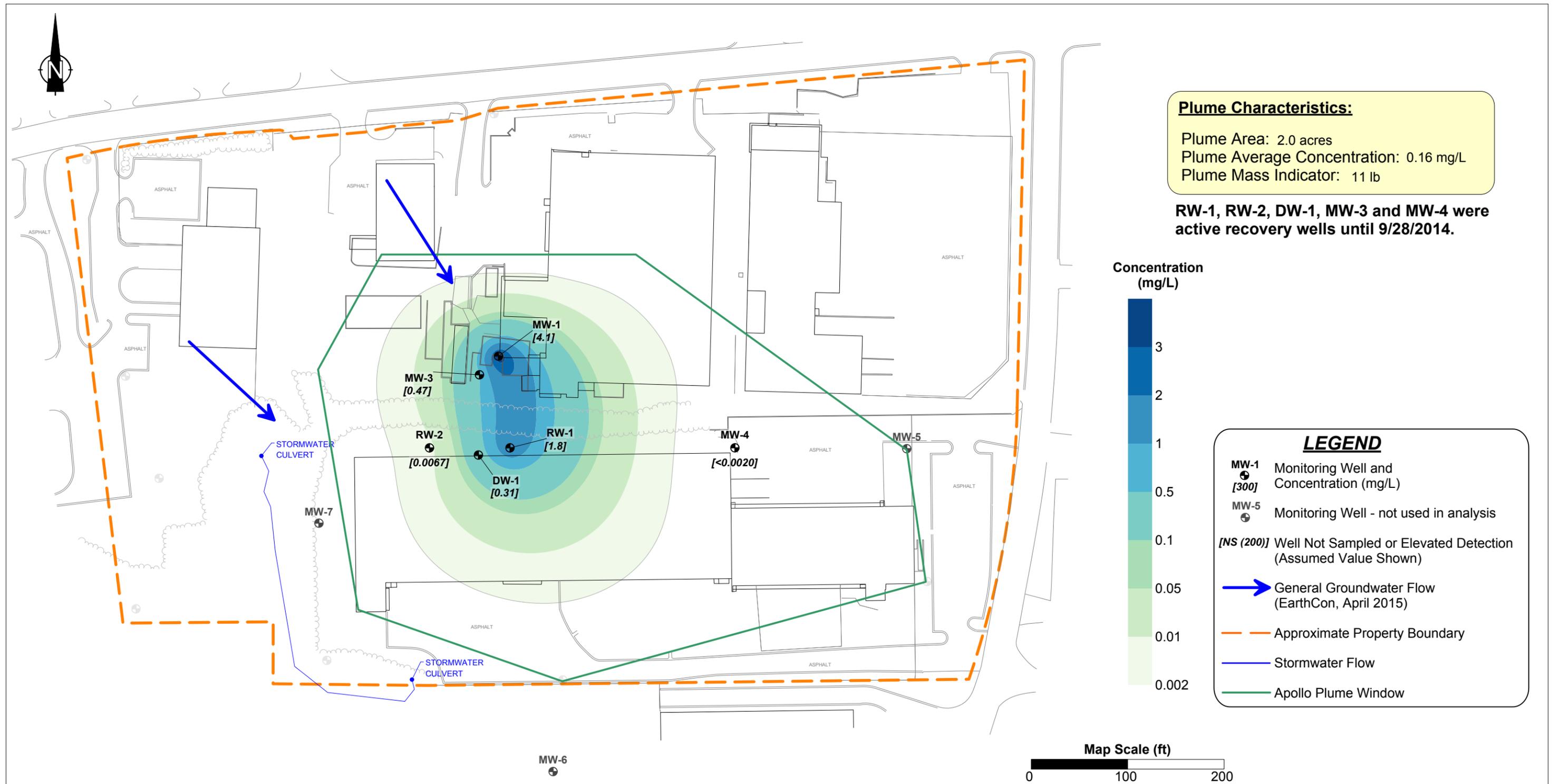
Project Number: 02.20140391.00



1880 West Oak Parkway, Bldg. 100 Suite 106
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**Apollo Plume
 Vinyl Chloride (VC)
 Mar-2010**

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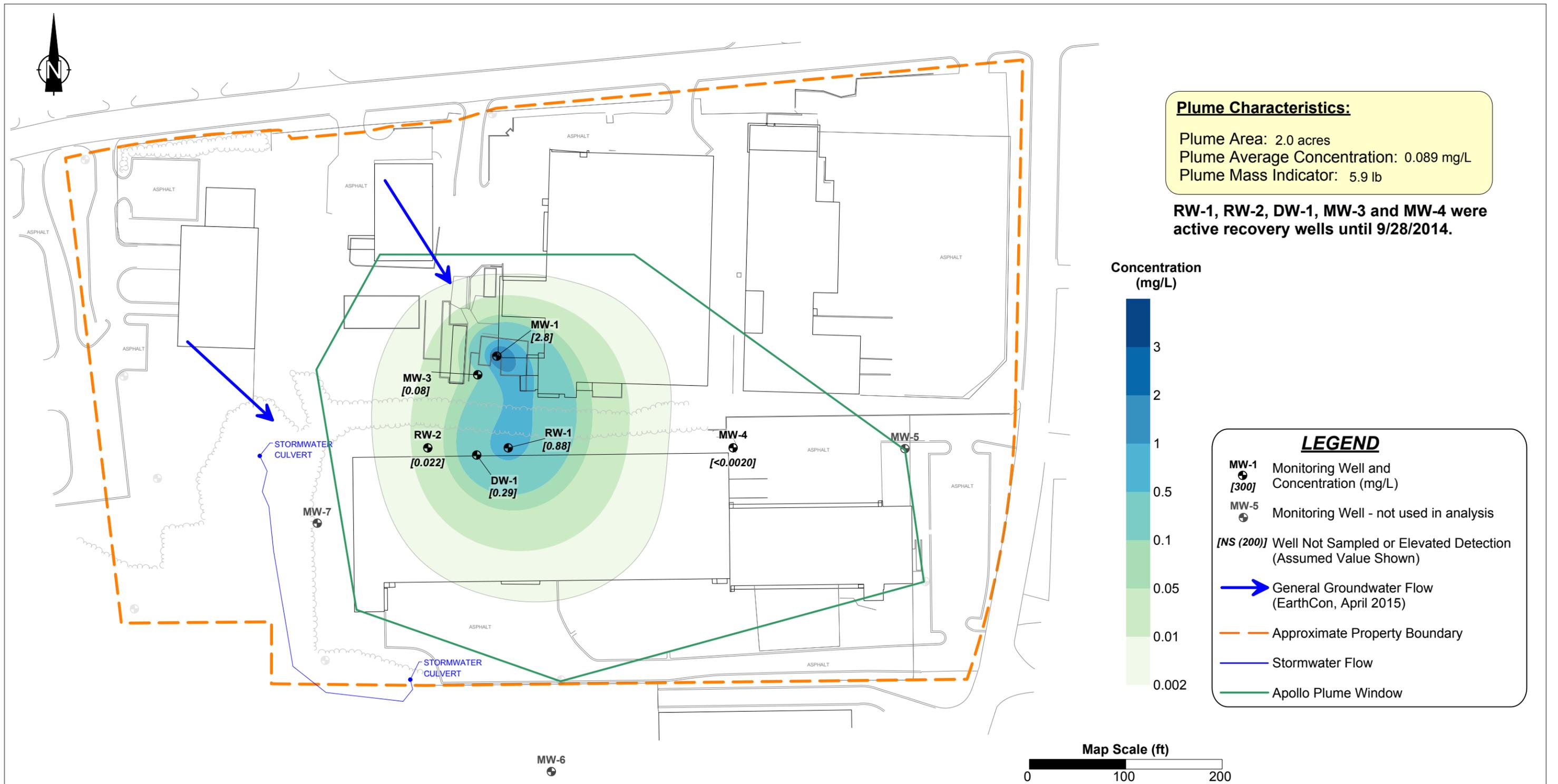
Project Number: 02.20140391.00



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**Apollo Plume
 Vinyl Chloride (VC)
 Sep-2010**

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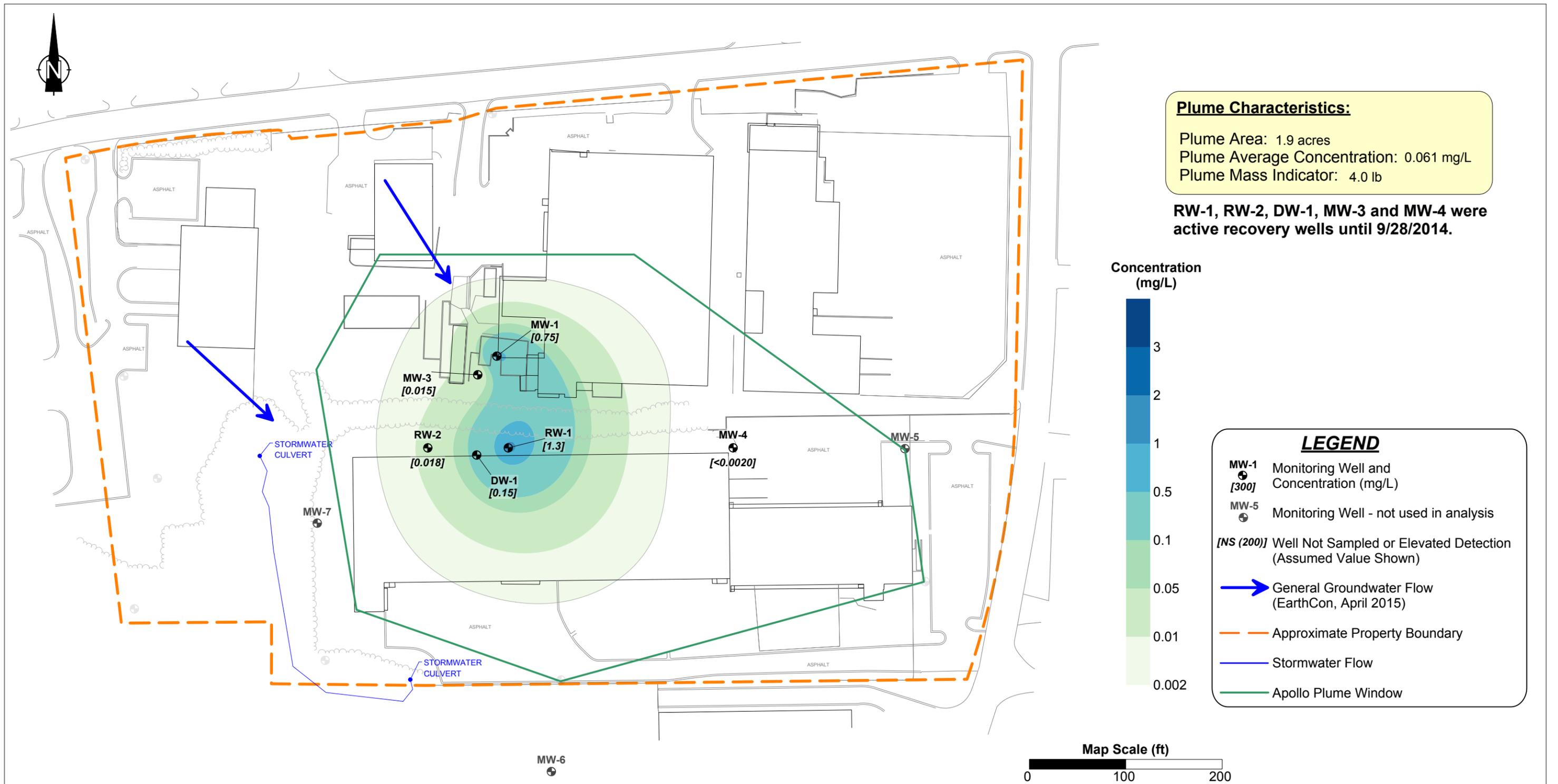
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**Apollo Plume
 Vinyl Chloride (VC)
 Apr-2011**

Prepared by: SSW Checked by: DW Figure:



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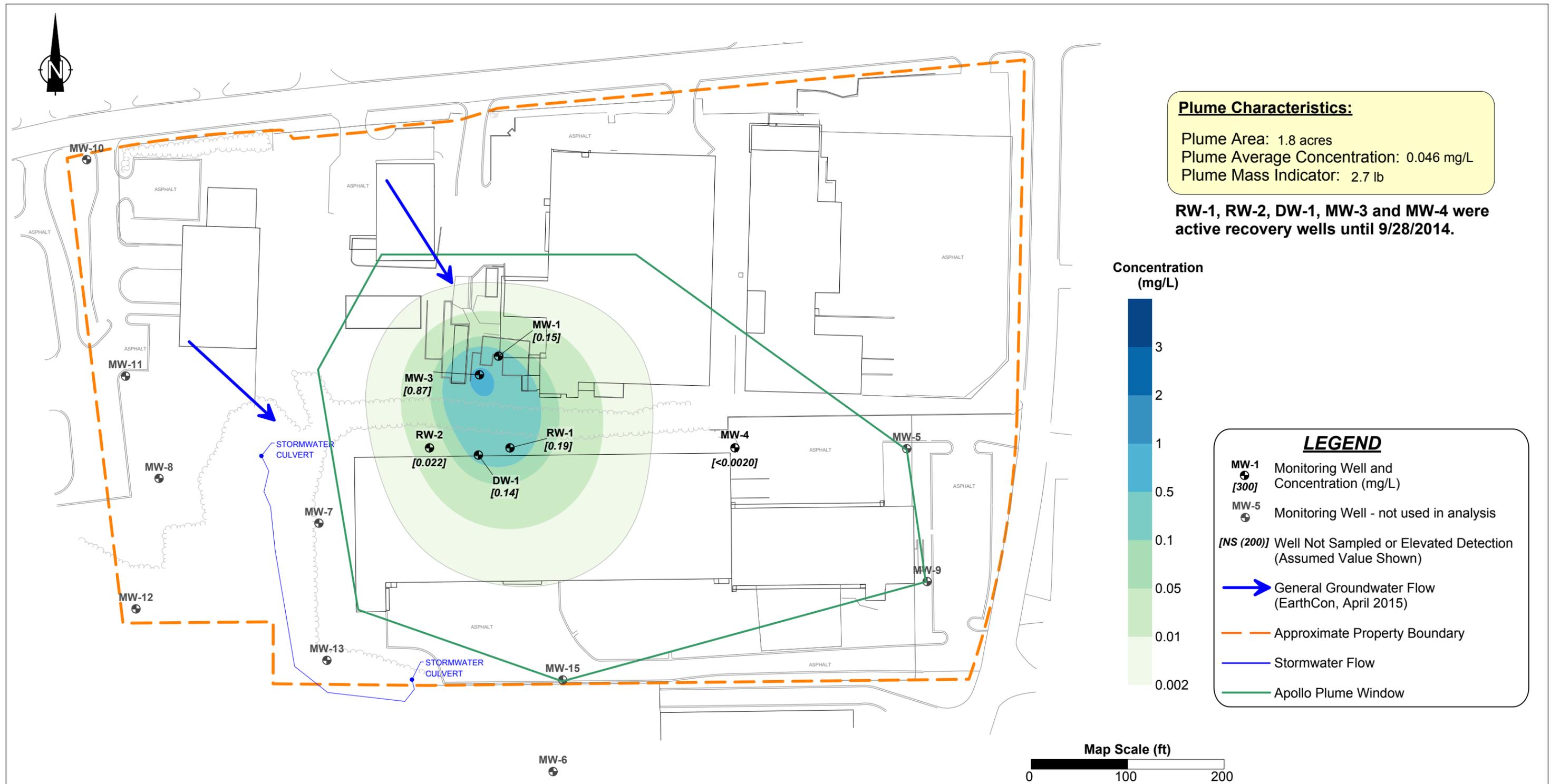


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**Apollo Plume
 Vinyl Chloride (VC)
 Oct-2011**

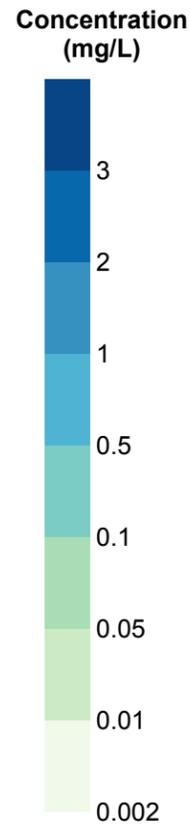
Project Number: 02.20140391.00

Prepared by: SSW Checked by: DW Figure:



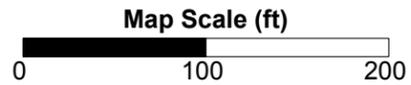
Plume Characteristics:
 Plume Area: 1.8 acres
 Plume Average Concentration: 0.046 mg/L
 Plume Mass Indicator: 2.7 lb

RW-1, RW-2, DW-1, MW-3 and MW-4 were active recovery wells until 9/28/2014.



LEGEND

- MW-1 [300] Monitoring Well and Concentration (mg/L)
- MW-5 [NS (200)] Monitoring Well - not used in analysis
- [NS (200)] Well Not Sampled or Elevated Detection (Assumed Value Shown)
- Blue Arrow General Groundwater Flow (EarthCon, April 2015)
- Orange Dashed Line Approximate Property Boundary
- Blue Line Stormwater Flow
- Green Line Apollo Plume Window



Base Map Source: Terramark Land Surveying, Inc. (6/5/2012)

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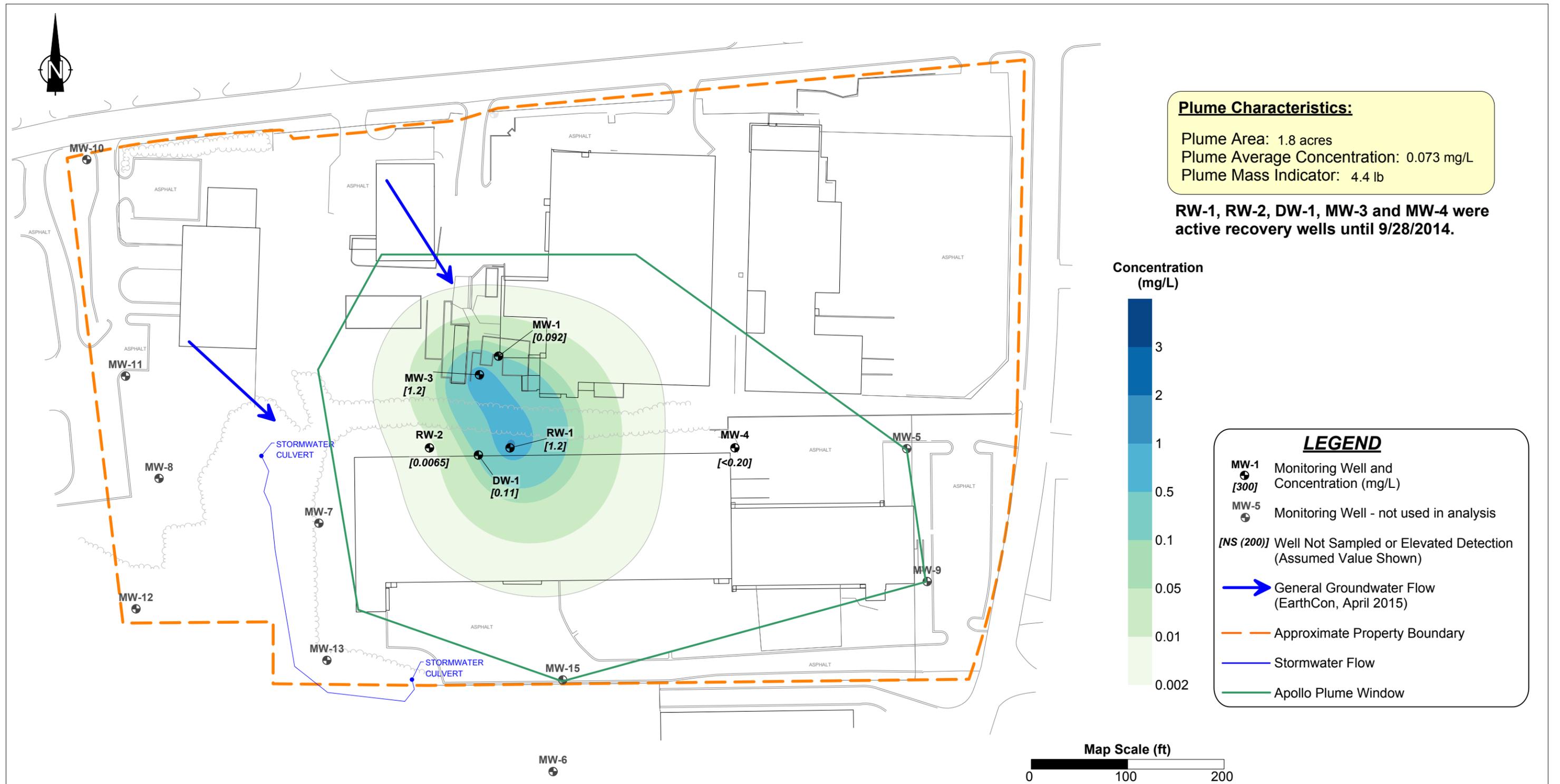


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 Marietta, Georgia 30062

**Apollo Plume
 Vinyl Chloride (VC)
 Sep-2012**

Project Number: 02.20140391.00

Prepared by: SSW Checked by: DW Figure:



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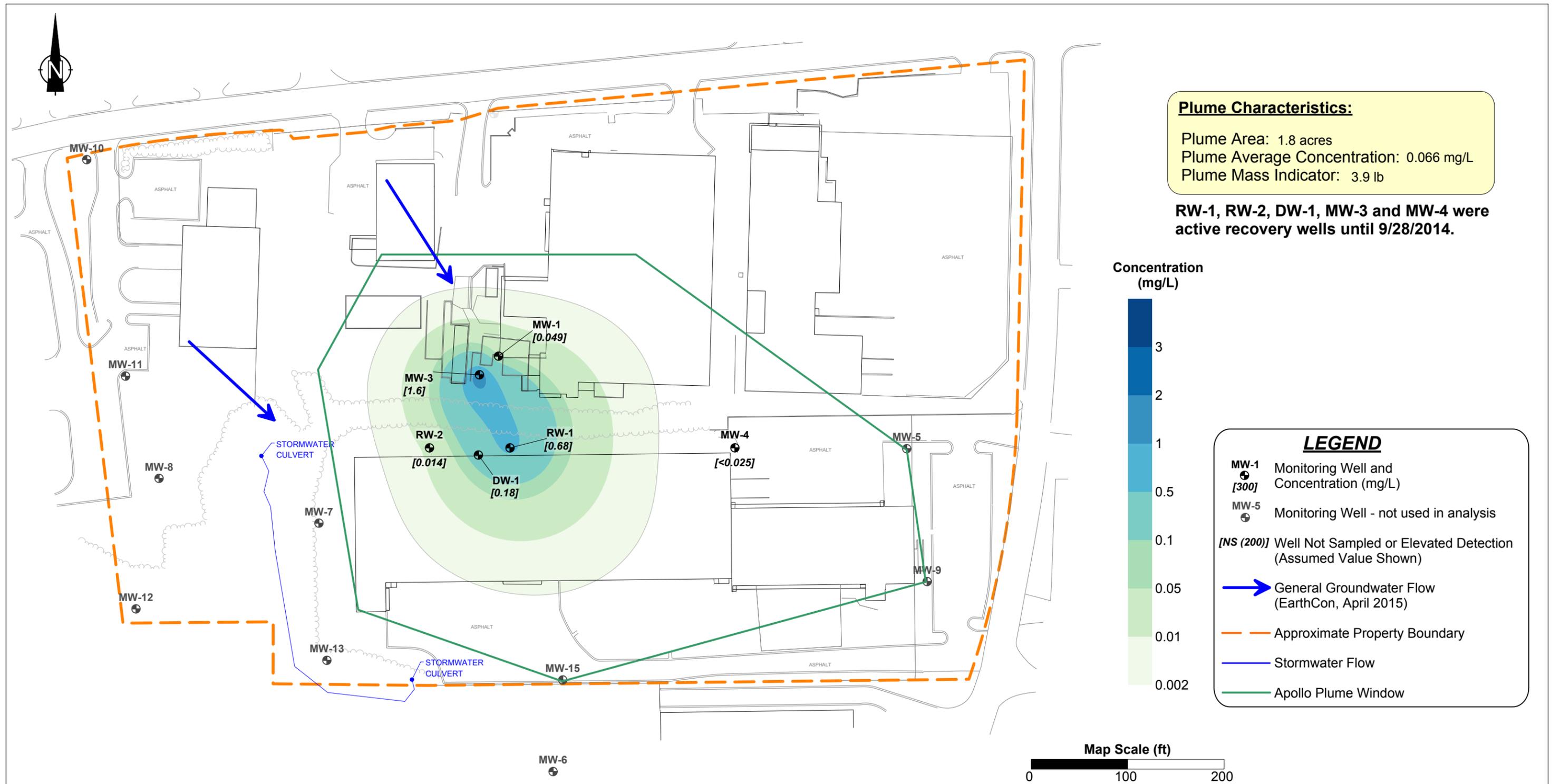


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**Apollo Plume
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 Jun-2013**

Project Number: 02.20140391.00

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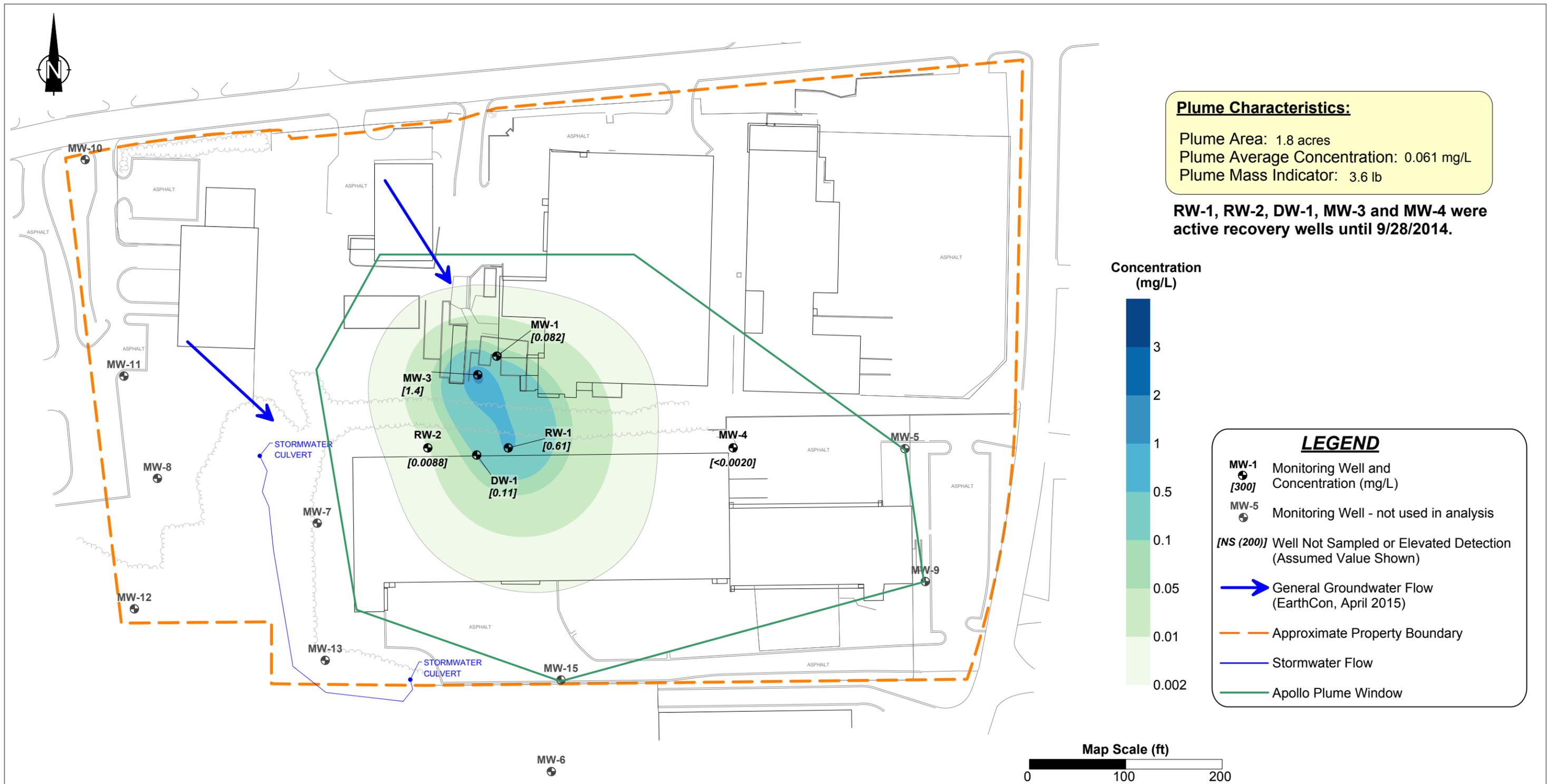


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**Apollo Plume
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 Dec-2013**

Project Number: 02.20140391.00

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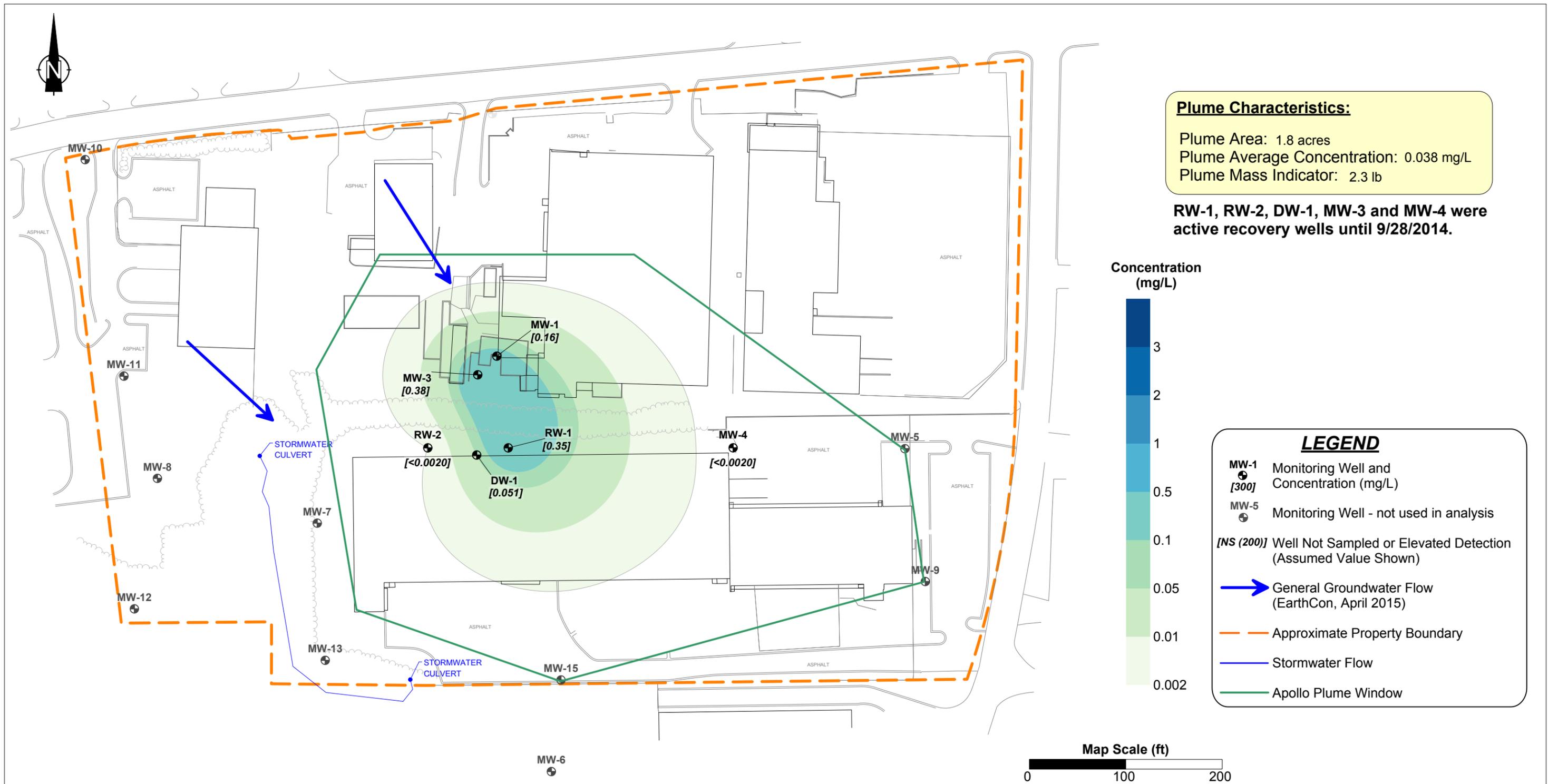


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**Apollo Plume
 Vinyl Chloride (VC)
 Oct-2014**

Project Number: 02.20140391.00

Prepared by: SSW Checked by: DW Figure:



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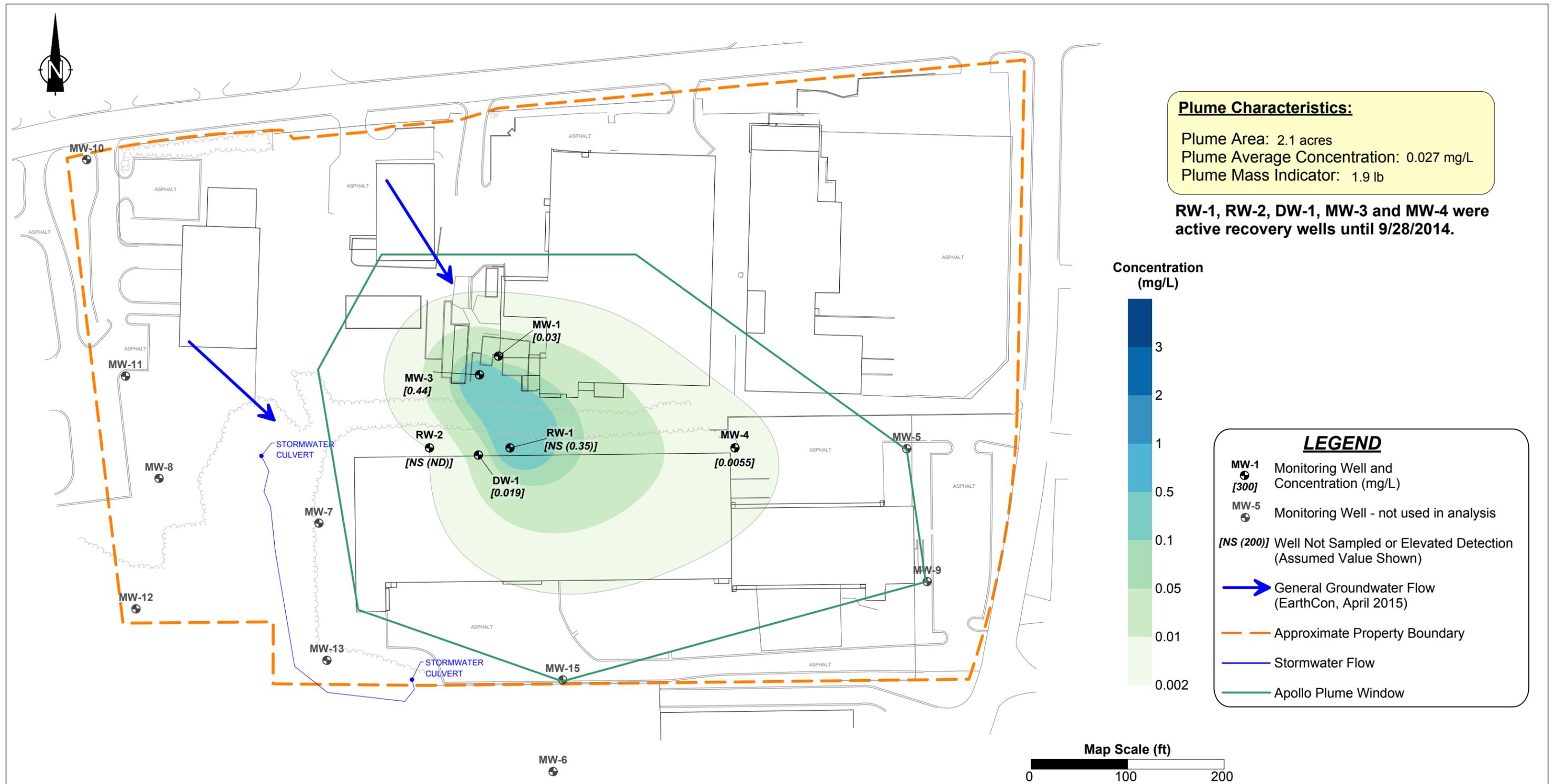


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**Apollo Plume
 Vinyl Chloride (VC)
 Jan-2015**

Project Number: 02.20140391.00

Prepared by: SSW Checked by: DW Figure:



Base Map Source: Terramark Land Surveying, Inc. (6/5/2012)

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**Apollo Plume
 Vinyl Chloride (VC)
 Apr-2015**

Project Number: 02.20140391.00

Prepared by: SSW Checked by: DW Figure:

Appendix G
Trend Analysis Summary Statistics

Appendix G
Trend Analysis Summary Statistics

1,1,1-TCA Mann-Kendall Trend Analysis Summary

Parameter	# of samples, n	S Statistic	Confidence Factor	Coeff. of Variation	Conclusion
Plume Area	18	-111	>99%	0.43	Decreasing Trend
Plume Average Concentration	18	-109	>99%	0.65	Decreasing Trend
Plume Mass Indicator	18	-109	>99%	0.96	Decreasing Trend

1,1,1-TCA Linear Regression Trend Analysis Summary

Parameter	# of samples, n	Slope (yr⁻¹)	R²	Confidence Factor	Coeff. of Variation	Conclusion
Plume Area	18	-0.09	0.75	>99%	0.43	Decreasing Trend
Plume Average Concentration	18	-0.15	0.72	>99%	0.65	Decreasing Trend
Plume Mass Indicator	18	-0.3	0.73	>99%	0.96	Decreasing Trend

PCE Mann-Kendall Trend Analysis Summary

Parameter	# of samples, n	S Statistic	Confidence Factor	Coeff. of Variation	Conclusion
Plume Area	18	-105	>99%	0.10	Decreasing Trend
Plume Average Concentration	18	-93	>99%	0.43	Decreasing Trend
Plume Mass Indicator	18	-91	>99%	0.52	Decreasing Trend

PCE Linear Regression Trend Analysis Summary

Parameter	# of samples, n	Slope (yr⁻¹)	R²	Confidence Factor	Coeff. of Variation	Conclusion
Plume Area	18	-0.06	0.76	>99%	0.10	Decreasing Trend
Plume Average Concentration	18	-0.01	0.63	>99%	0.43	Decreasing Trend
Plume Mass Indicator	18	-0.79	0.68	>99%	0.52	Decreasing Trend

TCE Mann-Kendall Trend Analysis Summary

Parameter	# of samples, n	S Statistic	Confidence Factor	Coeff. of Variation	Conclusion
Plume Area	18	-51	97%	0.09	Decreasing Trend
Plume Average Concentration	18	-125	>99%	0.48	Decreasing Trend
Plume Mass Indicator	18	-125	>99%	0.53	Decreasing Trend

TCE Linear Regression Trend Analysis Summary

Parameter	# of samples, n	Slope (yr⁻¹)	R²	Confidence Factor	Coeff. of Variation	Conclusion
Plume Area	18	-0.02	0.22	94.8%	0.09	Decreasing Trend
Plume Average Concentration	18	-0.13	0.86	>99%	0.48	Decreasing Trend
Plume Mass Indicator	18	-0.15	0.84	>99%	0.53	Decreasing Trend

Appendix G
Trend Analysis Summary Statistics

1,1-DCE Mann-Kendall Trend Analysis Summary

Parameter	# of samples, n	S Statistic	Confidence Factor	Coeff. of Variation	Conclusion
Plume Area	18	-115	>99%	0.11	Decreasing Trend
Plume Average Concentration	18	-77	>99%	0.54	Decreasing Trend
Plume Mass Indicator	18	-77	>99%	0.59	Decreasing Trend

1,1-DCE Linear Regression Trend Analysis Summary

Parameter	# of samples, n	Slope (yr⁻¹)	R²	Confidence Factor	Coeff. of Variation	Conclusion
Plume Area	18	-0.07	0.61	>99%	0.11	Decreasing Trend
Plume Average Concentration	18	-0.16	0.69	>99%	0.54	Decreasing Trend
Plume Mass Indicator	18	-11.1	0.70	>99%	0.59	Decreasing Trend

cis-1,2-DCE Mann-Kendall Trend Analysis Summary

Parameter	# of samples, n	S Statistic	Confidence Factor	Coeff. of Variation	Conclusion
Plume Area	18	-51	97%	0.32	Decreasing Trend
Plume Average Concentration	18	-83	>99%	0.74	Decreasing Trend
Plume Mass Indicator	18	-83	>99%	0.84	Decreasing Trend

cis-1,2-DCE Linear Regression Trend Analysis Summary

Parameter	# of samples, n	Slope (yr⁻¹)	R²	Confidence Factor	Coeff. of Variation	Conclusion
Plume Area	18	-0.08	0.36	>99%	0.32	Decreasing Trend
Plume Average Concentration	18	-0.22	0.57	>99%	0.74	Decreasing Trend
Plume Mass Indicator	18	-0.3	0.54	>99%	0.84	Decreasing Trend

Vinyl Chloride Mann-Kendall Trend Analysis Summary

Parameter	# of samples, n	S Statistic	Confidence Factor	Coeff. of Variation	Conclusion
Plume Area	18	-29	86%	0.08	Stable/No Trend
Plume Average Concentration	18	-57	98%	0.56	Decreasing Trend
Plume Mass Indicator	18	-61	99%	0.60	Decreasing Trend

Vinyl Chloride Linear Regression Trend Analysis Summary

Parameter	# of samples, n	Slope (yr⁻¹)	R²	Confidence Factor	Coeff. of Variation	Conclusion
Plume Area	18	-0.01	0.05	62.1%	0.08	Stable/No Trend
Plume Average Concentration	18	-0.09	0.26	97.1%	0.56	Decreasing Trend
Plume Mass Indicator	18	-0.09	0.26	97.1%	0.60	Decreasing Trend

Appendix G
Trend Analysis Summary Statistics

Total Molar Mann-Kendall Trend Analysis Summary

Parameter	# of samples, n	S Statistic	Confidence Factor	Coeff. of Variation	Conclusion
Plume Area	18	-115	>99%	0.11	Decreasing Trend
Plume Average Concentration	18	-85	>99%	0.55	Decreasing Trend
Plume Mass Indicator	18	-89	>99%	0.61	Decreasing Trend

Total Molar Linear Regression Trend Analysis Summary

Parameter	# of samples, n	Slope (yr⁻¹)	R²	Confidence Factor	Coeff. of Variation	Conclusion
Plume Area	18	-0.05	0.80	>99%	0.11	Decreasing Trend
Plume Average Concentration	18	-0.17	0.75	>99%	0.55	Decreasing Trend
Plume Mass Indicator	18	-0.2	0.77	>99%	0.61	Decreasing Trend