SEA
SAILORS ENGINEERING ASSOCIATES, INC.
1675 SPECTRUM DRIVE • LAWRENCEVILLE, GEORGIA 30043 • TEL (770) 962-5922 • FAX 962-7964

November 14, 2014

Mr. Jake Carpenter
Response and Remediation Program
2 Martin Luther King, Jr. Drive, S.E.
Suite 1054, East Tower
Atlanta, Georgia 30334

RE: Spalding Corners Shopping Center
7700 Spalding Drive
Sandy Springs, Fulton County, Georgia
HSI #10639

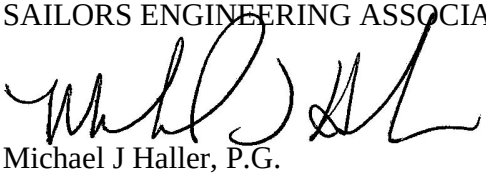
Dear Mr. Carpenter:

In accordance with the October 12, 2010 Voluntary Remediation Plan Approval Letter, Sailors Engineering Associates, Inc. (SEA) appreciates this opportunity to submit this 2nd 2014 Semi-Annual Progress Report on behalf of Selig Enterprises, Inc. for the Spalding Corners Shopping Center Site, HSI #10639 located in Sandy Springs, Fulton County, Georgia.

If you have any questions or need additional information, please contact us at (770) 962-5922. We look forward to working with you on this project.

Respectfully submitted,

SAILORS ENGINEERING ASSOCIATES, INC.



Michael J Haller, P.G.
Manager, Environmental Engineering

w/enclosures
cc: Mr. S. Kevin Curry, Selig Enterprises, Inc w/enclosures

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VRP 2nd 2014 SEMI-ANNUAL PROGRESS REPORT SPALDING CORNERS SHOPPING CENTER 7700 SPALDING DRIVE NORCROSS, FULTON COUNTY, GEORGIA HSI #10639

SEA JOB #102-063

SUBMITTED:
November 14, 2014

SEA
SAILORS ENGINEERING ASSOCIATES, INC.
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CERTIFICATION

I certify, under penalty of law, that the electronic copy is complete, identical to the paper copy, and virus free.

11-14-2014
Date

Michael J. Haller, P.G.
Project Manager

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VOLUNTARY INVESTIGATION AND REMEDIATION PLAN CERTIFICATION

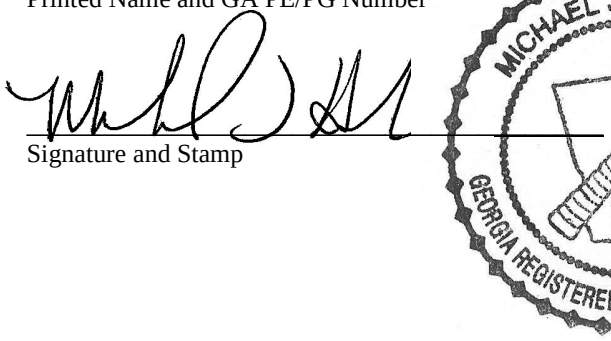
"I certify under penalty of law that this report and all attachments were prepared by me or under my direct supervision in accordance with the Voluntary Remediation Program Act (O.C.G.A. Section 12-8-101, et seq.). I am a professional engineer/professional geologist who is registered with the Georgia 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 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."

Michael J. Haller, P.G.#1062___
Printed Name and GA PE/PG Number

____November 14, 2014___
Date



Signature and Stamp

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1.0 INTRODUCTION

1.1 Purpose

The purpose of this Second 2014 Semi-Annual Voluntary Remediation Program Progress Report is to discuss the current site conditions and any actions taken since the initial Voluntary Remediation Program (VRP) application and the VRP 1st, 2nd, 3rd, 4th and 1st 2014 Semi-Annual Progress Reports.

1.2 Background

The VRP application (the Application") submitted for Spalding Corners Shopping Center HSI #10639 located at 7700 Spalding Drive in Sandy Springs, Fulton County, Georgia, dated May 10, 2010 was approved on October 12, 2010. As discussed in the Application, Monitored Natural Attenuation (MNA) with additional In-Situ Chemical Oxidation, as necessary, were identified as the most likely remedial approach for this site. To determine whether MNA is appropriate, Sailors Engineering Associates, Inc. (SEA) evaluated historical data, including prior remediation efforts, conducted additional testing, and utilize fate and transport models. The first semi-annual sampling event occurred in March 2011. The VRP 1st Semi-Annual Progress Report was submitted on April 12, 2011 and the VRP 2nd Semi-Annual Progress Report was submitted on October 12, 2011. The EPD review letter with comments dated March 6, 2012 was received after the commencement of the third semi-annual sampling event. The VRP 3rd Semi-Annual Progress Report was submitted on April 12, 2012 concurrently with a letter in response to the EPD comment letter under separate cover. The VRP 4th Semi-Annual Progress report was submitted on October 12, 1012, recommending that no additional remediation or monitoring is warranted for this site and that a Compliance Status Report be prepared.

An EPD review letter with comments dated January 10, 2014 stated that certain potential exposure pathways have not been controlled. Specifically, EPD stated that compliance with the residential risk reduction standards (RRS) must be demonstrated or uniform environmental covenants (UEC) must be filed on both properties restricting groundwater use. Further, EPD stated that the vapor intrusion pathway must be evaluated for the existing structures on Parcel 06-0313 LL-009-1 and for future structures on Parcel 06-0313 LL-034-9. EPD also requires continued groundwater monitoring and model calibration until it is demonstrated that impacts will not exceed residential RRS or until the property located west of River Exchange Drive is included as a qualifying property and a UEC is placed on the property.

The VRP 1st 2014 Semi-Annual Progress Report that included responses to the EPD comment letter was submitted on April 11, 2014.

1.3 Summary of Results

Due to the presence of detectible concentrations in what at the time were the most downgradient wells (MW-5S, MW-6S and MW-21S), EPD required an additional permanent monitoring (MW-22S) located on the Sandy Springs Property downgradient of MW-6S. The laboratory results for MW-22S were below reporting limits (BRL), indicating that the Sandy Springs Property is

currently in compliance with the residential RRS.

PCE concentrations continued an overall decreasing trend with the exception of the downgradient wells mentioned above as well as MW-14S and MW-17S.

2.0 SEMI-ANNUAL GROUNDWATER MONITORING EVENTS

A total of 14 monitoring wells and one wetland area well point were sampled as part of the second 2014 semi-annual sampling event. The recently installed downgradient monitoring well located on the Sandy Springs Property, MW-22S, was included in this event. Two monitoring wells, MW-8S and MW-9S, were not sampled since they are located side gradient of the plume and have never shown impacts. The sampled locations represent the plume centerline, down-gradient sampling points, and select upgradient and side-gradient wells. The wells along the centerline of the plume were used to determine the strength of evidence for biotransformation by collecting MNA indicator parameters in addition to the volatile organic compound analysis samples from all chosen sampling points. One monitoring well (MW-7S), three seep water locations (SW-1, SW-2 and SW-3) and one wetland area well point (SW-4) were dry.

The groundwater monitoring wells sampled were purged using a precleaned submersible bladder pump or peristaltic pump. Parameter stabilization was used to determine when the well had been adequately purged prior to sampling.

2.1 Groundwater Monitoring Well Installation

On September 8, 2014, SEA mobilized an ATV-mounted drilling rig to the subject site to install the one additional horizontal delineation groundwater monitoring well as proposed. Monitoring well, MW-22S, was installed approximately 240 feet southwest or downgradient of MW-6 on the undeveloped Sandy Springs Property across River Exchange Drive from the subject property. The boring was advanced in unconsolidated media using hollow-stem auger drilling techniques (nominal 4.25-inch ID) that will produce an 8-inch diameter borehole. Since soil sampling was not performed, a wooden plug was place in the auger head to prevent soil cuttings from entering the interior of the augers. Refusal on shallow rock was encountered at 25 feet below the ground surface (bgs). The groundwater monitoring well was constructed using precleaned, individually wrapped 2-inch diameter Schedule 40 PVC well screen and casing (Silver Line Enviro Pure) within the auger string. One five-foot section and one ten-foot section of 0.010-inch slotted screen were installed and brought to the ground surface with one ten-foot section of solid PVC riser. A lockable, watertight cap was used to seal the well casing. The annulus, the area between the well screen and the wall of the boring, was backfilled with washed and sorted filter sand (FilterSil Filtration Sands and Gravel WG-1) by slowly pouring the sand through the augers to approximately four feet above the well screen. To seal the filter pack, bentonite chips (Cetco PureGold Medium Chips) were slowly poured into the annulus to approximately two feet below the ground surface. The bentonite was allowed to hydrate prior to surface completion. Approximately 0.75 feet of the top portion of the riser was cut off. On September 29, 2014, MW-22S was developed by the over-pumping technique using a variable-speed 12 Volt Proactive Hurricane submersible pump. A well development log was not produced since the well contained little water and was repeatedly pumped dry.

On November 4, 2014, a surface seal of concrete that extends from below the frost line to the surface where a square apron is formed extending outward at least 18 inches from the edge of the borehole was constructed at MW-22S. A protective well cover or manhole was placed over the well casing within the concrete apron. The manhole is of flush-mount design constructed of cast iron with bolt-down, 8-inch diameter removable cover with a gasket placed within 10-inch diameter flanged ring. Attached to the base of the ring is an 8-inch diameter by 10-inch long galvanized steel cylindrical skirt that forms a vault around the top of the well casing. The top of the well casing was cut below the surface to accommodate the manhole set slightly above being flush with the ground surface to allow surface drainage. A boring log and well construction diagram for MW-22S are included in Appendix 7.

2.2 Procedure for Installation of Monitoring Wells

Monitoring well installation was performed in general accordance with published protocols including USEPA Region 4 Science and Ecosystem Support Division "Design and Installation of Monitoring Wells" Guidance (SESDGUID-101-R1, January 29, 2013). The drilling rig and tools are steam-cleaned prior to arrival on-site. Laboratory grade Liqui-Nox® soap is diluted with potable water and used for the wash. At least 24-hours following installation, the monitoring well is properly developed by removing a minimum of three well volumes of groundwater to ensure the removal of fine-grained sediments from the vicinity of the well screen which allows the water to flow freely from the formation into the well and reduces the turbidity of the water during sampling. Well development is usually performed with a small submersible pump. The water level is measured before and after well development. A boring log including an "as built" well construction diagram is prepared for each monitoring well.

2.3 Groundwater Elevation and Flow Direction

The depth to water in each monitoring well was gauged from the top of the well casing (TOC) using an electronic water level indicator (Slope Indicator 100-foot Water Level Indicator Model No. 51670810). On October 6, 2014, prior to purging and sampling, the depth to water in each monitoring well was gauged from the TOC. This monitoring period, with the exception of upgradient wells MW-13S and MW-14S, the groundwater elevations decreased since March 2014. The groundwater flow direction continues to trend southwest toward Crooked Creek. The water level data was used to determine the volume of water to be purged from each well prior to sample collection and to create a potentiometric surface map. A Historic Groundwater Elevation Data Summary is included in Table 4 of Appendix 2. The current potentiometric surface map is included in Appendix 1.

2.4 General Approach and Procedure for Measuring Groundwater Elevations

Groundwater elevation and well depths were measured in general accordance with published protocol USEPA Region 4 Science and Ecosystem Support Division "Groundwater Level and Well Depth Measurement" Operating Procedure (SESDPROC-105-R2, January 29, 2013). Water levels are measured using an electronic water level indicator accurate to 0.01 feet. Groundwater level measurements are made relative to an established reference point on the top of well casing (TOC) identified with a permanent mark. The reference point is tied to an arbitrary datum common to all wells. To minimize the risk of cross-contamination between

wells when conducting water level measurements, the device is decontaminated between wells, in accordance with (SESDPROC-205). When possible, water level measurements are conducted from the least suspected contaminated area to the most suspected contaminated area. Total well depth measurements are collected when necessary.

2.5 General Approach and Procedures for Sampling

Samples were collected in general accordance with published protocols including USEPA Region 4 Science and Ecosystem Support Division "Groundwater Sampling" Operating Procedure (SESDPROC-301-R3, March 6, 2013) with the exception of the recommended tubing material as noted below. Well purging was conducted using either the *"Tubing-in-Screened-Interval" Method* (Section 3.2.2), where the intake was positioned in the approximate mid-portion of the screened interval or the *Purging with Pumps, Peristaltic Pumps* method (Section 3.3.1.1.1), where the intake was placed in the uppermost portion of the water column when the recovery rate was equal to the purge rate. Groundwater samples were obtained from each well either directly from the submersible pump discharge tubing (Section 4.3.1.3) or from *Peristaltic Pump, Direct from Pump Head Tubing* (Section 4.3.1.1) for MNA parameter samples or *Peristaltic Pump/Vacuum Jug* "soda straw" method B (Section 4.3.1.2) for VOC samples. Due to the relatively high cost of the recommended Teflon® tubing disposable polyethylene tubing was utilized for pump intake and discharge. Disposable polyethylene bladders were used in the bladder pump and disposable silicon tubing was used in the peristaltic pump head. New tubing and bladders were used for each well. Samples were collected following *Order of Sampling with Respect to Analytes* (Section 4.7.2). The various MNA parameter samples were collected in laboratory supplied containers in the recommended order followed by the VOC samples at the end. VOC samples were collected in laboratory supplied 40-ml sample vials preserved with HCL. A Teflon®-lined cap was placed on the vial, and the vial was inverted to ensure zero headspace. The samples were immediately packed in ice and transported to the analytical laboratory under chain-of-custody procedures. To minimize the risk of cross-contamination between wells when conducting groundwater sampling, the pumps and instruments are decontaminated between wells, in accordance with (SESDPROC-205). When possible, groundwater sampling was conducted from the least suspected contaminated area to the most suspected contaminated area. Copies of the groundwater sampling logs are included in Appendix 3. Copies of the laboratory data sheets are included in Appendix 5.

2.6 Decontamination Procedures

All downhole and/or reusable field equipment and instruments were properly decontaminated between wells in general accordance with published protocols including USEPA Region 4 Science and Ecosystem Support Division "Field Equipment Cleaning and Decontamination" Operating Procedure (SESDPROC-205-R2, December 20, 2011). The electronic water level meter was decontaminated following *Well Sounders or Tapes* (Section 3.5), where unless conditions warrant, the wetted portion of the meter was decontaminated using the procedure listed below:

1. Wash with laboratory grade Liqui-Nox® detergent diluted with deionized water
2. Rinse with deionized water

The water quality meter was decontaminated following *"Classical Parameter" Sampling Equipment* (Section 3.3), where the meter and flow cell was decontaminated by rinsing with deionized water. The bladder pump was decontaminated following *Sample Collection Equipment Contaminated with Environmental Media* (Section 2.5), where the pump was decontaminated using the procedure listed below:

1. Disassemble the pump and remove and discard the bladder
2. Wash with laboratory grade Liqui-Nox® detergent diluted with deionized water
3. Rinse with deionized water
4. Install a new bladder and reassemble the pump

2.7 Results

The results of the October 2014 monitoring event indicate that a few notable changes have occurred in the seven months since the March 2014 sampling. Slight increases in PCE concentrations were detected in several wells this period. MW-5S increased from 0.048 mg/L to 0.067 mg/L, MW-10S increased from 0.043 mg/L to 0.061 mg/L, MW-14S increased from 0.0019 mg/L to 0.0068 mg/L, MW-15S increased from 0.025 mg/L to 0.200 mg/L, MW-16S increased from 0.170 mg/L to 0.280 mg/L, MW-17S increased from 0.110 mg/L to 0.130 mg/L, MW-18S increased from 0.0055 mg/L to 0.240 mg/L, MW-20S increased from 0.0027 mg/L to 0.018 mg/L and MW-21S increased from 0.0048 mg/L to 0.020 mg/L. PCE concentrations decreased slightly in MW-19S from 0.032 mg/L to 0.017 mg/L this period. The presence of PCE in MW-5S and MW-21S, located at downgradient locations, was detected this period at concentrations of 0.067 mg/L and 0.020 mg/L, respectively. MW-6 also located down gradient had PCE concentration of 0.0032 mg/L. The PCE concentration detected in upgradient well MW-14S was 0.0068 mg/L. TCE was detected at low concentrations (below 0.005 mg/L) in five locations and cDCE was detected in two locations at low concentrations (below 0.070 mg/L). Specifically, TCE was detected in MW-15S, MW-16S, MW-18S, MW-19S and MW-20S below 0.005 mg/L, and cDCE was detected in MW-19S and MW-20S below 0.070 mg/L. VC was not detected in the groundwater samples collected from any of the selected sampling locations this period. Chloroform was detected at three sampling locations at very low concentrations. Chloroform was detected in MW-15S at 0.0054 mg/L, MW-16S at 0.0054 mg/L and MW-17S at 0.013 mg/L. Methyl tert-butyl ether (MTBE) was not detected this period. The current increases in PCE concentrations this period appear to coincide with seasonal fluctuations in the water table. Current and historic laboratory summaries are included in Table 1 and Table 2, respectively, of Appendix 2. Historic Groundwater and Seep Water PCE Trend Graphs are included in Appendix 6.

2.8 Monitored Natural Attenuation Evaluation

The natural attenuation mechanisms active at the site include both biological transformation and non-biological attenuation. Both mechanisms are responsible for the attenuation of the plume at this site. In order to determine the contribution from biotransformation, the Natural Attenuation Screening Protocol portion of the BIOCHLOR model was used to evaluate individual wells. Only seven monitoring wells were sampled for natural attenuation parameters this period.

Although it was proposed, newly installed downgradient well MW-22S was not sampled for these parameters because the well contained too little water to collect numerous samples. Based on the scoring method used in the worksheets, limited evidence of anaerobic biodegradation was only seen in downgradient wells MW-6S, MW-19S and MW-20S. The worksheets indicated inadequate evidence of reductive dechlorination was shown in the "source well", MW-15S, and in downgradient wells MW-16S and MW-18S. The upgradient well, MW-14S, also showed inadequate evidence of reductive dechlorination. SEA interprets the results in MW-19S and MW-20S, where nutrients were injected into the soil and groundwater through the BioNet system in 2006, to indicate that conditions are again favorable for reductive dechlorination. SEA interprets the results in MW-16S and MW-18S, where a chemical oxidation product (sodium persulfate) with an alkaline (NaOH) activator was injected into the groundwater in the vicinity of MW-16S in 2008, to indicate that conditions are not favorable for reductive dechlorination. The Natural Attenuation Screening Protocol worksheets are included in Appendix 4. Copies of the groundwater sampling logs and laboratory data sheets are included in Appendix 3 and Appendix 5, respectively. Table 4 and Table 5 are current and historic tabular summaries, respectively, of the parameters tested with the results and a scoring summary for each of the site monitoring wells. Historic laboratory summaries are included in Table 2 of Appendix 2. A Site Plan depicting the sample locations and Isoconcentration Maps for PCE, TCE, cDCE and Chloroform have been included in Appendix 1.

Based on the results of the biotransformation evaluation, dispersion and dilution are the primary mechanisms responsible for the natural attenuation at the site.

3.0 PROPOSED CORRECTIVE ACTION

Soil and groundwater are impacted with chlorinated solvents and their degradation products at the Spalding Corners Shopping Center Site. As discussed in previous reports, five exposure pathways, soil, vapor intrusion into the existing structure, seep water and sediment, and surface water (Crooked Creek) will not pose a threat to human exposure. While groundwater is currently an incomplete exposure pathway, it is possible that installation of a drinking water well could cause it to become complete in the future. Therefore, the proposed corrective action is to restrict use of groundwater through an institutional control in the form of a restrictive covenant.

3.1 INSTITUTIONAL CONTROLS

Institutional controls will be implemented through the use of Environmental Covenants (UECs) executed in conformance with the Georgia Uniform Environmental Covenants Act (OCGA § 44-16-1) as follows:

- To mitigate the potential groundwater exposure pathway, each of the impacted parcels (06-0313 LL-009-1 and 06-0313 LL-034-9) will require a restriction on non-remedial groundwater use of any kind, unless the constituents of Concern (COC) are treated to below HSRA residential RRS.

Draft UECs, including legal descriptions and tax maps, for the Spalding Corners Shopping Center parcel (06-0313 LL-009-1) and the River Exchange parcel (06-0313 LL-034-9) are included in Appendix 8.

4.0 PLANNED ACTIVITIES

SEA will prepare the Compliance Status Report for this site to be submitted in lieu of First Semi-Annual Progress Report for 2015.

5.0 CONCLUSION AND RECOMMENDATIONS

Fluctuations in contaminant concentrations have been observed in a number of the wells, but the overall trend is a reduction in the concentrations both temporally and with regard to distance from the source area. Coupled with the Groundwater-Surface Water Mixing Calculations presented in the 4th Semi-Annual report, site conditions are adequate to avoid impact to Crooked Creek or a hypothetical groundwater receptor 1000 feet from the site.

EPD has indicated that it would like to see continued groundwater monitoring and model calibration until it is demonstrated that impacts will not exceed residential RRS or until the property west of River Exchange Drive (Sandy Springs Property) is included as a qualifying property and a UEC is placed on the property. The laboratory results for MW-22S were below reporting limits (BRL), indicating that the Sandy Springs Property is in compliance with the residential RRS as calculated under the Rules for Hazardous site Response.

SEA recommends that once the UECs have been approved by EPD and are in place that the Compliance Status Report be prepared and submitted.

APPENDICES

Appendix 1 Figures

1 - Area Plan
2 - Site Plan
3 – Potentiometric Surface Map, October 6, 2014
4 – PCE Isoconcentration Map, October 2014
5 – TCE Isoconcentration Map, October 2014
6 – cDCE Isoconcentration Map, October 2014
7 – Chloroform Isoconcentration Map, October 2014

Appendix 2 Tables

Table 1 – Current Groundwater and Seep Water Analytical Results Summary
Table 2 – Historic Groundwater and Seep Water Analytical Results Summary
Table 3 – Historic Groundwater Elevation Summary
Table 4 – Current MNA Screening Laboratory Results Summary
Table 5 – Historic MNA Screening Laboratory Results Summary

Appendix 3 Groundwater Sampling Logs

Appendix 4 Monitored Natural Attenuation Screening Protocol Worksheets

Appendix 5 Laboratory Data Sheets – Groundwater

Appendix 6 Historic Groundwater and Seep Water PCE Trend Graphs

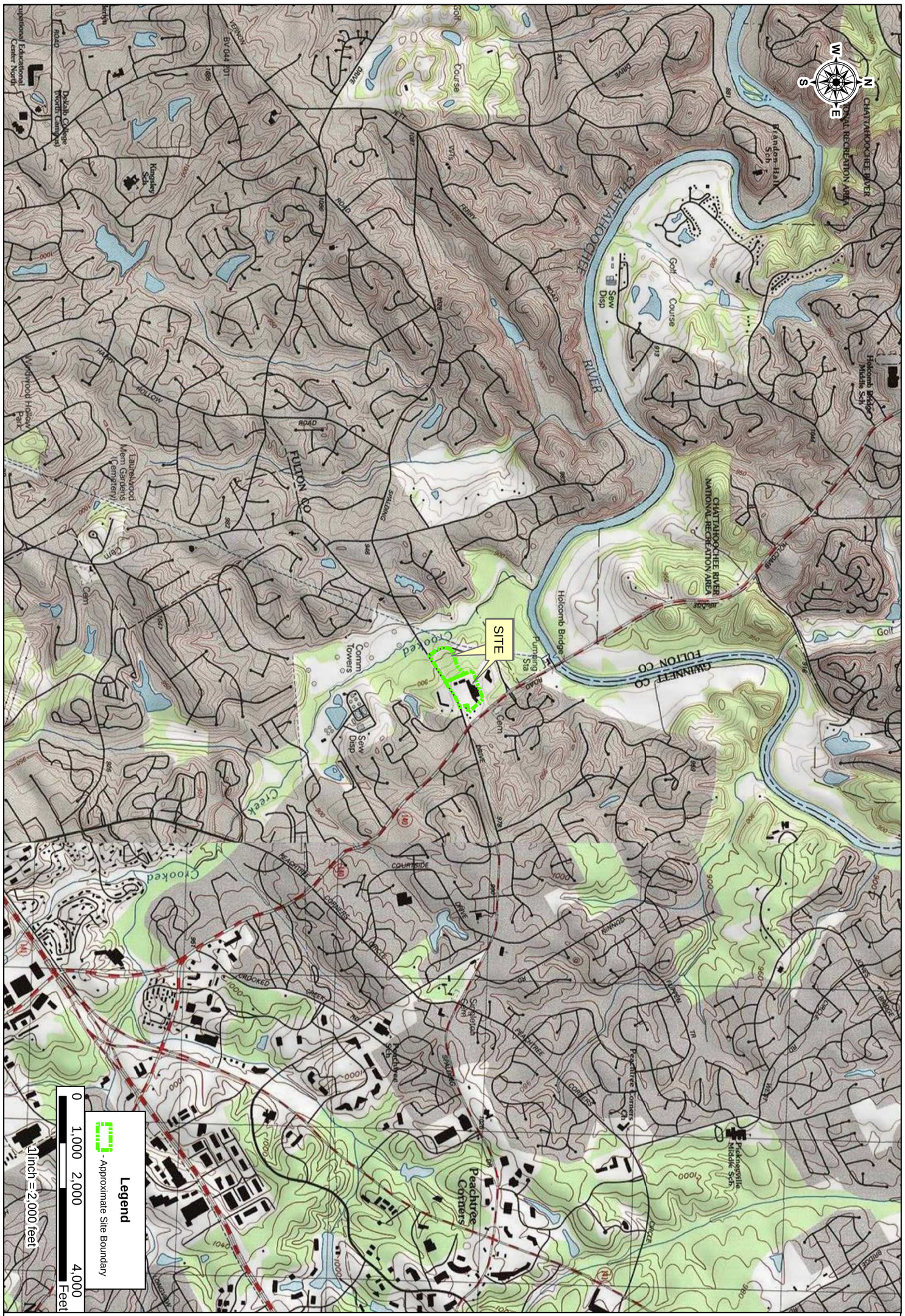
Appendix 7 Boring Log and Well Construction Diagram for MW-22S

Appendix 8 Draft Uniform Environmental Covenants

Appendix 9 Summary of Services and Professional Hours

APPENDIX 1

FIGURES



DATA SOURCES: - 1:24,000 Chamblee, Georgia USGS 7.5' Topographic Map Quadrangle courtesy of ESRI Map Services

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REVISED AREA PLAN

Figure 1

SPALDING CORNERS SHOPPING CENTER
7700 Spalding Drive
Sandy Springs, Fulton County, Georgia
HSI# 10639

Job No. 102-063

SEA-2203

REVISED SITE PLAN

Figure 2

SPALDING CORNERS SHOPPING CENTER
7700 Spalding Drive
Sandy Springs, Fulton County, Georgia
HSI #10639

Job No. 102-063

SEA-2203

SAILORS ENGINEERING ASSOCIATES, INC.
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DATA SOURCES: - 2014 aerial photography courtesy of *Google Earth*

06-0313 LL-0372
SANDY SPRINGS SENIOR HOLDINGS LLC

06-0313 LL-036-4
"SANDY SPRINGS PROPERTY"

06-0313 LL-034-9
DUNWOODY PLACE VENTURES LLC

06-0313 LL-037-2
SELIG ENTERPRISES INC

RIVER EXCHANGE DRIVE

SPALDING DRIVE

Dekalb County
24" Water Main
Easement
(Approximate)

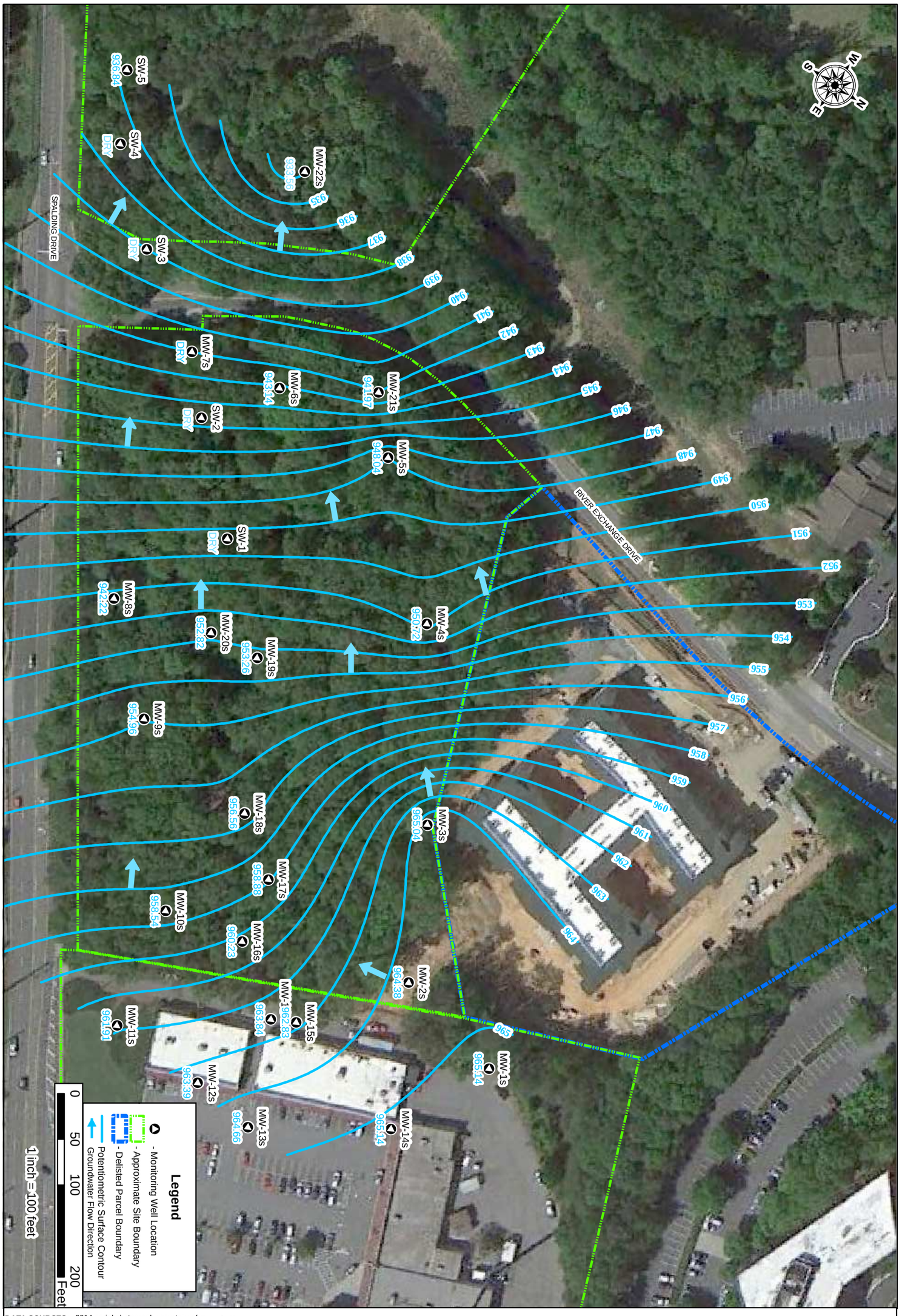
MW-1s
MW-2s
Abandoned
MW-3s
MW-4s
MW-5s
MW-6s
MW-7s
MW-8s
MW-9s
MW-10s
MW-11s
MW-12s
MW-13s
MW-14s
MW-15s
MW-16s
MW-17s
MW-18s
MW-19s
MW-20s
MW-21s
MW-22s
MW-1d
SW-1
SW-2
SW-3
SW-4
SW-5

Legend

- Monitoring Well Location
- Approximate Site Boundary
- Delisted Parcel Boundary

0 50 100 200 Feet

1 inch = 100 feet



DATA SOURCES: - 2014 aerial photography courtesy of ***Google Maps***

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POTENTIOMETRIC SURFACE MAP

OCTOBER 6, 2014
Figure3

SPALDING CORNERS SHOPPING CENTER

7700 Spalding Drive
Sandy Springs, Fulton County, Georgia
HSI# 10639

Job No. 122-081

SEA-2203

RIVER EXCHANGE DRIVE

SPALDING DRIVE

MW-1s NA

MW-2s NA

MW-3s NA

MW-4s NA

MW-5s 0.067

MW-6s 0.0032

MW-7s DRY

MW-8s NA

MW-9s NA

MW-10s 0.061

MW-11s NA

MW-12s NA

MW-13s 0.0019

MW-14s 0.0068

MW-15s 0.200

MW-16s 0.280

MW-17s 0.130

MW-18s 0.240

MW-19s 0.017

MW-20s 0.018

MW-21s 0.020

MW-22s <0.001

MW-1d <0.001

SW-1 DRY

SW-2 DRY

SW-3 DRY

SW-4 DRY

SW-5 <0.001

0.200

0.100

0.0050

Legend

- Monitoring Well Location
- Approximate Site Boundary
- Delisted Parcel Boundary
- PCE Isoconcentration Contour
- NA - Not Analyzed

PCE concentration in mg/L

0 50 100 200 Feet

1 inch = 100 feet

DATA SOURCES: - 2014 aerial photography courtesy of *Google Earth*

PCE ISOCONCENTRATION MAP

OCTOBER 2014

Figure 4

SPALDING CORNERS SHOPPING CENTER

7700 Spalding Drive
Sandy Springs, Fulton County, Georgia
HSI# 10639

Job No. 102-063

SEA-2203

SAILORS ENGINEERING ASSOCIATES, INC.
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LAWRENCEVILLE, GEORGIA 30043
(770) 962-5922 FAX 962-7964

RIVER EXCHANGE DRIVE

SPALDING DRIVE

MW-1s NA
MW-2s NA
MW-3s NA
MW-4s NA
MW-5s <0.001
MW-6s <0.001
MW-7s DRY
MW-8s NA
MW-9s NA
MW-10s <0.001
MW-11s NA
MW-12s NA
MW-13s <0.001
MW-14s <0.001
MW-15s <0.001
MW-16s 0.0024
MW-17s <0.001
MW-18s 0.0028
MW-19s 0.0023
MW-20s 0.0038
MW-21s <0.001
MW-22s <0.001
SW-1 DRY
SW-2 DRY
SW-3 DRY
SW-4 DRY
SW-5 <0.001
MW-1d 0.0019
MW-1d <0.001
<0.001
<0.001
<0.001
<0.001

Legend

- Monitoring Well Location
- Approximate Site Boundary
- Delisted Parcel Boundary
- TCE Isoconcentration Contour
- NA - Not Analyzed
- TCE Concentration in mg/L

0 50 100 200 Feet

1 inch = 100 feet

DATA SOURCES: - 2014 aerial photography courtesy of *Google Earth*

TCE ISOCONCENTRATION MAP

OCTOBER 2014

Figure 5

SPALDING CORNERS SHOPPING CENTER

7700 Spalding Drive
Sandy Springs, Fulton County, Georgia
HSI# 10639

Job No. 102-063

SEA-2203

SEA
SAILORS ENGINEERING ASSOCIATES, INC.
ENVIRONMENTAL/GEOTECHNICAL
1675 SPECTRUM DRIVE
LAWRENCEVILLE, GEORGIA 30043
(770) 962-5922 FAX 962-7964

RIVER EXCHANGE DRIVE

SPALDING DRIVE

MW-1s NA
MW-2s NA
MW-3s NA
MW-4s NA
MW-5s <0.001
MW-6s <0.001
MW-7s DRY
MW-8s NA
MW-9s NA
MW-10s <0.001
MW-11s NA
MW-12s NA
MW-13s <0.001
MW-14s <0.001
MW-15s
MW-16s <0.001
MW-17s <0.001
MW-18s <0.001
MW-19s 0.0011
MW-20s 0.0041
MW-21s <0.001
MW-22s <0.001
MW-1d <0.001
<0.001
SW-1 DRY
SW-2 DRY
SW-3 DRY
SW-4 DRY
SW-5 <0.001

Legend

- Monitoring Well Location
- Approximate Site Boundary
- Delisted Parcel Boundary
- cDCE Isoconcentration Contour
- NA - Not Analyzed

cDCE Concentration in mg/L

0 50 100 200 Feet

1 inch = 100 feet

DATA SOURCES: - 2014 aerial photography courtesy of *Google Earth*

cDCE ISOCONCENTRATION MAP

OCTOBER 2014

Figure 6

SPALDING CORNERS SHOPPING CENTER

7700 Spalding Drive
Sandy Springs, Fulton County, Georgia
HSI# 10639

Job No. 102-063

SEA-2203

SAILORS ENGINEERING ASSOCIATES, INC.
ENVIRONMENTAL/GEOTECHNICAL
1675 SPECTRUM DRIVE
LAWRENCEVILLE, GEORGIA 30043
(770) 962-5922 FAX 962-7964

DATA SOURCES: - 2014 aerial photography courtesy of *Google Earth*

SAILORS ENGINEERING ASSOCIATES, INC.
ENVIRONMENTAL/GEOTECHNICAL
1675 SPECTRUM DRIVE
LAWRENCEVILLE, GEORGIA 30043
(770) 962-5922 FAX 962-7964

SEA

CHLOROFORM ISOCONCENTRATION MAP
OCTOBER 2014
Figure 7

SPALDING CORNERS SHOPPING CENTER
7700 Spalding Drive
Norcross; Fulton County, Georgia
HSI# 10639

Job No. 102-063

SEA-2203

APPENDIX 2

TABLES

TABLE 1

Spalding Corners Shopping Center
Norcross, Fulton County, Georgia
HSI No. 10639
SEA Job#102-063
Current Groundwater Analytical Results Summary

Location	Date Sampled	2-Butonone	Acetone	Benzene	Chloroform	cis-1,2-Dichloroethene	Methyl tert-butyl ether	Tetrachloroethene	Toluene	Trichloroethene	Vinyl Chloride	Total Xylenes
MW-5S	10/13/2014	<0.050	<0.050	<0.005	<0.005	<0.001	<0.005	**0.067**	<0.005	<0.001	<0.001	<0.010
MW-6S	10/9/2014	<0.050	<0.050	<0.005	<0.005	<0.001	<0.005	**0.0032**	<0.005	<0.001	<0.001	<0.010
MW-7S	10/6/2014	DRY										
MW-8S	10/6/2014	Not Sampled										
MW-9S	10/6/2014	Not Sampled										
MW-10S	10/8/2014	<0.050	<0.050	<0.005	<0.005	<0.001	<0.005	**0.061**	<0.005	<0.001	<0.001	<0.010
MW-13S	10/7/2014	<0.050	<0.050	<0.005	<0.005	<0.001	<0.005	**0.0019**	<0.005	<0.001	<0.001	<0.010
MW-14S	10/7/2014	<0.050	<0.050	<0.005	<0.005	<0.001	<0.005	**0.0068**	<0.005	<0.001	<0.001	<0.010
MW-15S	10/7/2014	<0.050	<0.050	<0.005	**0.0054**	<0.001	<0.005	**0.200**	<0.005	**0.0019**	<0.001	<0.010
MW-16S	10/7/2014	<0.050	<0.050	<0.005	**0.0054**	<0.001	<0.005	**0.280**	<0.005	**0.0024**	<0.001	<0.010
MW-17S	10/8/2014	<0.050	<0.050	<0.005	**0.013**	<0.001	<0.005	**0.130**	<0.005	<0.001	<0.001	<0.010
MW-18S	10/9/2014	<0.050	<0.050	<0.005	<0.005	<0.001	<0.005	**0.240**	<0.005	**0.0028**	<0.001	<0.010
MW-19S	10/9/2014	<0.050	<0.050	<0.005	<0.005	**0.0011**	<0.005	**0.017**	<0.005	**0.0023**	<0.001	<0.010
MW-20S	10/9/2014	<0.050	<0.050	<0.005	<0.005	**0.0041**	<0.005	**0.018**	<0.005	**0.0038**	<0.001	<0.010
MW-21S	10/13/2014	<0.050	<0.050	<0.005	<0.005	<0.001	<0.005	**0.020**	<0.005	<0.001	<0.001	<0.010
MW-22S	10/13/2014	<0.050	<0.050	<0.005	<0.005	<0.001	<0.005	<0.001	<0.005	<0.001	<0.001	<0.010
MW-1D	10/8/2014	<0.050	<0.050	<0.005	<0.005	<0.001	<0.005	<0.001	<0.005	<0.001	<0.001	<0.010
SW-1	10/6/2014	DRY										
SW-2	10/6/2014	DRY										
SW-3	10/6/2014	DRY										
SW-4 (SEA)	10/6/2014	DRY										
SW-5 (SEA)	10/13/2014	<0.050	<0.050	<0.005	<0.005	<0.001	<0.005	<0.001	<0.005	<0.001	<0.001	<0.010
Type I & 3 Risk Reduction Standard		**2.000**	**4.000**	**0.005**	**0.100**	**0.070**	**Not Applicable**	**0.005**	**1.000**	**0.005**	**0.002**	**10.000**

Note: All concentrations listed in mg/L
HIGHLIGHTED RESULTS EXCEED TYPE 1 RRS
2014 sampling performed by Sailors Engineering Associates, Inc.

TABLE 2

Spalding Corners Shopping Center
Norcross, Fulton County, Georgia
HSI No. 10639
SEA Job#102-063
Historic Groundwater Analytical Results Summary

Location	Date Sampled	1,1,2-Trichloroethane	2-Butonone	Acetone	Benzene	Chloroform	cis-1,2-Dichloroethene	Methyl tert-butyl ether	Tetrachloroethene	Toluene	Trichloroethene	Total Xylenes
MW-1S	10/22/2003	NA	NA	NA	NA	NA	<0.005	<0.005	<0.005	NA	<0.005	<0.005
(SMW-13 N2)	3/7/2005	<0.005	<0.010	<0.020	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	5/31/2006	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
	5/30/2007	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
	3/23/2010	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
MW-2S	2/4/2003	<0.005	NA	NA	<0.005	NA	NA	<0.005	NA	<0.005	NA	<0.005
(SMW-24)	2/12/2003	<0.005	NA	NA	<0.005	**0.0320**	<0.005	<0.005	**0.0090**	<0.005	<0.005	<0.005
	12/12/2003	<0.005	<0.010	<0.020	<0.005	**0.014**	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
	3/7/2005	<0.005	<0.010	<0.020	<0.005	**0.0063**	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
	5/31/2006	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
	5/31/2007	<0.005	<0.050	<0.050	<0.005	**0.012**	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
	3/22/2010	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
MW-3S	1/15/2003	<0.005	NA	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
(SMW-20)	3/9/2004	NA	NA	NA	NA	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.005
	3/7/2005	<0.005	<0.010	<0.020	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
	5/31/2006	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
	5/31/2007	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
	3/22/2010	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
MW-4S	5/12/2003	<0.005	NA	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
(SMW-26 N)	3/7/2005	<0.005	<0.010	<0.020	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
	6/1/2006	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
	6/1/2007	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
	3/22/2010	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
MW-5S	12/31/2002	<0.005	NA	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
(SMW-17)	3/9/2004	NA	NA	NA	NA	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.005
	3/7/2005	<0.005	<0.010	<0.020	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
	6/1/2006	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	**0.0080**	<0.005	<0.005	<0.010
	6/1/2007	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	**0.010**	<0.005	<0.005	<0.010
	8/21/2007	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	**0.012**	<0.005	<0.005	<0.010
	10/26/2007	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	**0.019**	<0.005	<0.005	<0.010
	3/22/2010	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	**0.014**	<0.005	<0.005	<0.010
	2/28/2011	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	**0.023**	<0.005	<0.005	<0.010
	9/14/2011	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	**0.024**	<0.005	<0.005	<0.010
	3/16/2012	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
	9/12/2012	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	**0.032**	<0.005	<0.005	<0.010
	3/19/2014	<0.005	<0.050	<0.050	<0.005	<0.005	**0.0011**	<0.005	**0.048**	<0.005	<0.001	<0.010
	10/13/2014	<0.005	<0.050	<0.050	<0.005	<0.005	<0.001	<0.005	**0.067**	<0.005	<0.001	<0.010
Type I & 3 Risk Reduction Standard		**0.005**	**2.000**	**4.000**	**0.005**	**0.100**	**0.070**	**Not Applicable**	**0.005**	**1.000**	**0.005**	**10.000**

All concentrations listed in mg/L
HIGHLIGHTED RESULTS EXCEED TYPE 1 RRS
Sampling: 2000 by Rindt-McDuff; 2002-2003 by Pyramid;
2004-2010 by Peachtree Environmental
2011-current by SEA

TABLE 2

Spalding Corners Shopping Center
Norcross, Fulton County, Georgia
HSI No. 10639
SEA Job#102-063
Historic Groundwater Analytical Results Summary

Location	Date Sampled	1,1,2-Trichloroethane	2-Butonone	Acetone	Benzene	Chloroform	cis-1,2-Dichloroethene	Methyl tert-butyl ether	Tetrachloroethene	Toluene	Trichloroethene	Total Xylenes
MW-6S	8/20/2002	<0.005	NA	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
(SMW-10)	3/9/2004	NA	NA	NA	NA	<0.005	<0.005	<0.005	**0.020**	NA	<0.005	<0.005
	3/19/2004	NA	NA	NA	NA	NA	NA	NA	**0.016**	NA	NA	NA
	8/19/2004	<0.005	<0.010	<0.020	<0.005	<0.005	<0.005	<0.005	**0.012**	<0.005	<0.005	<0.005
	3/9/2005	<0.005	<0.010	<0.020	<0.005	<0.005	<0.005	<0.005	**0.011**	<0.005	<0.005	<0.010
	1/31/2006	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	**0.0062**	<0.005	<0.005	<0.010
	6/1/2006	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
	11/29/2006	<0.005	<0.010	<0.020	<0.005	<0.005	<0.005	<0.005	**0.0055**	<0.005	<0.005	<0.010
	6/1/2007	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	**0.0094**	<0.005	<0.005	<0.010
	3/22/2010	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	**0.073**	<0.005	<0.005	<0.010
	2/28/2011	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	**0.044**	<0.005	<0.005	<0.010
	9/16/2011	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	**0.014**	<0.005	<0.005	<0.010
	3/15/2012	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	**0.041**	<0.005	<0.005	<0.010
	9/10/2012		DRY									
	3/18/2014	<0.005	<0.050	<0.050	<0.005	<0.005	**0.0018**	<0.005	**0.0019**	<0.005	<0.001	<0.010
	10/9/2014	<0.005	<0.050	<0.050	<0.005	<0.005	<0.001	<0.005	**0.0032**	<0.005	<0.001	<0.010
MW-7S	3/2/2004	NA	NA	NA	NA	<0.005	<0.005	NA	**0.0081**	NA	<0.005	NA
(SC-2)	3/8/2005	<0.005	<0.010	<0.020	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
	6/1/2006	<0.005	<0.050	<0.050	<0.005	<0.005	**0.059**	<0.005	**0.012**	<0.005	**0.017**	<0.010
	6/1/2007	<0.005	<0.050	<0.050	<0.005	<0.005	**0.0083**	<0.005	**0.0051**	<0.005	<0.005	<0.010
	3/22/2010	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
	3/2/2011	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
	9/12/2011		DRY									
	3/15/2012	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
	9/10/2012		DRY									
	3/20/2014	<0.005	<0.050	<0.050	<0.005	<0.005	<0.001	<0.005	<0.001	<0.005	<0.001	<0.010
	10/6/2014		DRY									
MW-8S	3/2/2004	NA	NA	NA	NA	NA	<0.005	NA	<0.005	NA	NA	NA
(SC-1)	3/7/2005	<0.005	<0.010	<0.020	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
	5/30/2006	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
	5/29/2007	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
	3/24/2010	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
	3/2/2011	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
	9/12/2011		DRY									
	3/14/2012	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
	9/14/2012	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
Type I & 3 Risk Reduction Standard		**0.005**	**2.000**	**4.000**	**0.005**	**0.100**	**0.070**	**Not Applicable**	**0.005**	**1.000**	**0.005**	**10.000**

All concentrations listed in mg/L
HIGHLIGHTED RESULTS EXCEED TYPE 1 RRS
Sampling: 2000 by Rindt-McDuff; 2002-2003 by Pyramid;
2004-2010 by Peachtree Environmental
2011-current by SEA

TABLE 2

Spalding Corners Shopping Center
Norcross, Fulton County, Georgia
HSI No. 10639
SEA Job#102-063
Historic Groundwater Analytical Results Summary

Location	Date Sampled	1,1,2-Trichloroethane	2-Butonone	Acetone	Benzene	Chloroform	cis-1,2-Dichloroethene	Methyl tert-butyl ether	Tetrachloroethene	Toluene	Trichloroethene	Total Xylenes
MW-9S	8/7/2002	NA	NA	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
(SMW-7)	3/9/2004	NA	NA	NA	NA	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.010
	3/8/2005	<0.005	<0.010	<0.020	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	5/30/2006	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
	5/29/2007	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
	3/24/2010	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
	3/1/2011	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
	9/15/2011	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
	3/14/2012	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
	9/13/2012	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
MW-10S	7/29/2002	<0.005	NA	NA	<0.005	<0.005	<0.005	<0.005	**0.236**	<0.005	<0.005	<0.005
(SMW-3 SE)	3/9/2004	NA	NA	NA	NA	<0.005	<0.005	<0.005	**0.0075**	NA	<0.005	<0.005
	3/19/2004	NA	NA	NA	NA	NA	NA	NA	**0.0062**	NA	NA	NA
	8/19/2004	<0.005	<0.010	<0.020	<0.005	<0.005	<0.005	<0.005	**0.015**	<0.005	<0.005	<0.010
	3/8/2005	<0.005	<0.010	<0.020	<0.005	<0.005	<0.005	<0.005	**0.022**	<0.005	<0.005	<0.010
	5/30/2006	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	**0.018**	<0.005	<0.005	<0.010
	11/29/2006	<0.005	<0.010	<0.020	<0.005	<0.005	<0.005	<0.005	**0.026**	<0.005	<0.005	<0.010
	6/1/2007	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	**0.021**	<0.005	<0.005	<0.010
	3/24/2010	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	**0.024**	<0.005	<0.005	<0.010
	3/2/2011	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	**0.034**	<0.005	<0.005	<0.010
	9/14/2011	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	**0.065**	<0.005	<0.005	<0.010
	3/14/2012	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	**0.052**	<0.005	<0.005	<0.010
	9/13/2012	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	**0.018**	<0.005	<0.005	<0.010
	3/19/2014	<0.005	<0.050	<0.050	<0.005	<0.005	<0.001	<0.005	**0.043**	<0.005	<0.001	<0.010
	10/8/2014	<0.005	<0.050	<0.050	<0.005	<0.005	<0.001	<0.005	**0.061**	<0.005	<0.001	<0.010
MW-11S	5/28/2003	<0.005	NA	NA	<0.005	**0.0050**	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
(MW-3 SE)	10/22/2003	NA	NA	NA	NA	NA	NA	NA	<0.005	NA	NA	NA
	8/13/2004	<0.005	<0.010	<0.020	<0.005	**0.0084**	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	3/8/2005	<0.005	<0.010	**0.180**	<0.005	**0.0062**	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
	6/1/2006	<0.005	<0.050	<0.050	<0.005	**0.0070**	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
	5/30/2007	<0.005	<0.050	<0.050	<0.005	**0.018**	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
	3/23/2010	<0.005	<0.050	<0.050	<0.005	**0.018**	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
MW-12S	5/28/2003	<0.005	NA	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
(MW-1 S)	3/8/2005	<0.005	<0.010	<0.020	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
	5/31/2006	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
	5/30/2007	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
	3/23/2010	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
Type I & 3 Risk Reduction Standard		**0.005**	**2.000**	**4.000**	**0.005**	**0.100**	**0.070**	**Not Applicable**	**0.005**	**1.000**	**0.005**	**10.000**

All concentrations listed in mg/L
HIGHLIGHTED RESULTS EXCEED TYPE 1 RRS
Sampling: 2000 by Rindt-McDuff; 2002-2003 by Pyramid;
2004-2010 by Peachtree Environmental
2011-current by SEA

TABLE 2

Spalding Corners Shopping Center
Norcross, Fulton County, Georgia
HSI No. 10639
SEA Job#102-063
Historic Groundwater Analytical Results Summary

Location	Date Sampled	1,1,2-Trichloroethane	2-Butonone	Acetone	Benzene	Chloroform	cis-1,2-Dichloroethene	Methyl tert-butyl ether	Tetrachloroethene	Toluene	Trichloroethene	Total Xylenes
MW-13S	12/30/2002	<0.005	NA	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
(SMW-11)	3/9/2004	NA	NA	NA	NA	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.005
	3/8/2005	<0.005	<0.010	<0.020	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
	6/1/2006	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
	5/30/2007	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
	3/23/2010	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
	2/28/2011	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
	9/13/2011	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
	3/12/2012	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
	9/11/2012	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
	3/19/2014	<0.005	<0.050	<0.050	<0.005	<0.005	<0.001	**0.0051**	<0.001	<0.005	<0.001	<0.010
	10/7/2014	<0.005	<0.050	<0.050	<0.005	<0.005	<0.001	<0.005	**0.0019**	<0.005	<0.001	<0.010
MW-14S	5/28/2003	NA	NA	NA	NA	NA	NA	NA	<0.005	NA	NA	NA
(MW-1 N2)	10/22/2003	NA	NA	NA	NA	<0.005	<0.005	<0.005	NA	NA	<0.005	<0.005
	3/8/2005	<0.005	<0.010	<0.020	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
	6/1/2006	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
	5/30/2007	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
	3/23/2010	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
	2/28/2011	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
	9/13/2011	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	**0.011**	<0.005	<0.005	<0.010
resample	9/23/2011	NA	NA	NA	NA	NA	<0.005	NA	**0.011**	NA	<0.005	NA
	9/12/2012	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	**0.0050**	<0.005	<0.005	<0.010
	3/19/2014	<0.005	<0.050	<0.050	<0.005	<0.005	<0.001	<0.005	**0.0019**	<0.005	<0.001	<0.010
	10/7/2014	<0.005	<0.050	<0.050	<0.005	<0.005	<0.001	<0.005	**0.0068**	<0.005	<0.001	<0.010
MW-15S	2/21/2000	<0.005	NA	NA	<0.005	NA	BRL	BRL	**0.110**	<0.005	BRL	BRL
(MW-2)	7/20/2000	<0.005	NA	NA	<0.005	<0.005	**0.045**	<0.005	**0.135**	<0.005	<0.005	<0.005
	2/12/2003	<0.005	NA	NA	<0.005	NA	NA	<0.005	NA	<0.005	NA	<0.005
	2/21/2003	<0.005	NA	NA	<0.005	<0.005	<0.005	<0.005	**0.1350**	<0.005	<0.005	<0.005
	3/9/2004	<0.005	<0.010	<0.020	<0.005	**0.0065**	**0.045**	<0.005	**4.300**	<0.005	**0.058**	<0.005
	8/13/2004	<0.005	<0.010	<0.020	<0.005	<0.005	<0.005	<0.005	**1.000**	<0.005	**0.017**	<0.010
	3/9/2005	<0.005	<0.010	**0.033**	<0.005	<0.005	<0.005	<0.005	**0.500**	<0.005	**0.0083**	<0.010
	11/29/2005	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	**0.800**	<0.005	**0.012**	<0.010
	6/1/2006	<0.005	<0.050	<0.050	<0.005	<0.005	**0.0057**	<0.005	**0.950**	<0.005	**0.013**	<0.010
	11/29/2006	<0.005	<0.010	<0.020	<0.005	<0.005	<0.005	<0.005	**0.130**	<0.005	<0.005	<0.010
	5/31/2007	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	**0.260**	<0.005	<0.005	<0.010
	3/23/2010	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	**0.430**	<0.005	<0.005	<0.010
	3/2/2011	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	**0.490**	<0.005	<0.005	<0.010
	9/13/2011	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	**0.450**	<0.005	<0.005	<0.010
	3/13/2012	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	**0.290**	<0.005	<0.005	<0.010
	9/12/2012	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	**0.340**	<0.005	<0.005	<0.010
	3/18/2014	<0.005	<0.050	<0.050	<0.005	<0.005	<0.001	<0.005	**0.025**	<0.005	<0.001	<0.010
	10/7/2014	<0.005	<0.050	<0.050	<0.005	**0.0054**	<0.001	<0.005	**0.200**	<0.005	**0.0019**	<0.010
Type I & 3 Risk Reduction Standard		**0.005**	**2.000**	**4.000**	**0.005**	**0.100**	**0.070**	**Not Applicable**	**0.005**	**1.000**	**0.005**	**10.000**

All concentrations listed in mg/L
HIGHLIGHTED RESULTS EXCEED TYPE 1 RRS
Sampling: 2000 by Rindt-McDuff; 2002-2003 by Pyramid;
2004-2010 by Peachtree Environmental
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TABLE 2

Spalding Corners Shopping Center
Norcross, Fulton County, Georgia
HSI No. 10639
SEA Job#102-063
Historic Groundwater Analytical Results Summary

Location	Date Sampled	1,1,2-Trichloroethane	2-Butonone	Acetone	Benzene	Chloroform	cis-1,2-Dichloroethene	Methyl tert-butyl ether	Tetrachloroethene	Toluene	Trichloroethene	Total Xylenes
MW-16S	2/4/2003	<0.005	NA	NA	<0.005	NA	NA	<0.005	NA	<0.005	NA	<0.005
(SMW-23)	2/12/2003	<0.005	NA	NA	<0.005	<0.005	<0.005	<0.005	**0.1860**	<0.005	<0.005	<0.005
	3/10/2004	NA	NA	NA	NA	<0.005	<0.005	<0.005	**0.440**	NA	**0.0051**	<0.005
	8/13/2004	<0.005	<0.010	<0.020	<0.005	<0.005	<0.005	<0.005	**0.350**	<0.005	<0.005	<0.010
	3/9/2005	<0.005	<0.010	**1.600**	<0.005	<0.005	<0.005	<0.005	**0.230**	<0.005	**0.0055**	<0.010
	8/31/2005	<0.005	<0.050	<0.050	<0.005	**0.0052**	**0.0092**	<0.005	**0.520**	<0.005	**0.0077**	<0.010
	9/29/2005	<0.005	<0.050	<0.050	<0.005	<0.005	**0.019**	<0.005	**0.960**	<0.005	**0.019**	<0.010
	10/31/2005	<0.005	<0.050	<0.050	<0.005	**0.0051**	**0.0089**	<0.005	**0.700**	<0.005	**0.0088**	<0.010
	11/29/2005	<0.005	<0.050	<0.050	<0.005	<0.005	**0.012**	<0.005	**0.670**	<0.005	**0.012**	<0.010
	1/31/2006	<0.005	<0.050	<0.050	<0.005	<0.005	**0.013**	<0.005	**0.610**	<0.005	**0.011**	<0.010
	6/2/2006	<0.005	<0.050	<0.050	<0.005	<0.005	**0.014**	<0.005	**0.810**	<0.005	**0.014**	<0.010
	11/29/2006	<0.005	<0.010	<0.020	<0.005	<0.005	**0.0072**	<0.005	**0.500**	<0.005	**0.0081**	<0.010
	6/1/2007	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	**0.240**	<0.005	<0.005	<0.010
	8/21/2007	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	**0.190**	<0.005	<0.005	<0.010
	10/26/2007	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	**0.160**	<0.005	<0.005	<0.010
	8/18/2008	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	**0.120**	<0.005	<0.005	<0.010
	3/24/2010	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	**0.240**	<0.005	<0.005	<0.010
	3/2/2011	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	**0.390**	<0.005	<0.005	<0.010
	9/14/2011	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	**0.390**	<0.005	<0.005	<0.010
	3/12/2012	<0.005	<0.050	<0.050	<0.005	<0.005	**0.0050**	<0.005	**0.560**	<0.005	**0.0072**	<0.010
	9/12/2012	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	**0.280**	<0.005	<0.005	<0.010
	3/19/2014	<0.005	<0.050	<0.050	<0.005	<0.005	<0.001	<0.005	**0.170**	<0.005	**0.0014**	<0.010
	10/7/2014	<0.005	<0.050	<0.050	<0.005	**0.0054**	<0.001	<0.005	**0.280**	<0.005	**0.0024**	<0.010
MW-17S	12/31/2002	<0.005	NA	NA	<0.005	<0.005	<0.005	<0.005	**0.1510**	<0.005	<0.005	<0.005
(SMW-14)	3/10/2004	<0.005	<0.010	<0.020	<0.005	**0.0064**	<0.005	<0.005	**0.190**	<0.005	<0.005	<0.005
	8/13/2004	<0.005	<0.010	**0.028**	<0.005	**0.013**	<0.005	<0.005	**0.110**	<0.005	<0.005	<0.010
	3/9/2005	<0.005	<0.010	**0.028**	<0.005	**0.020**	<0.005	<0.005	**0.071**	<0.005	<0.005	<0.010
	8/31/2005	<0.005	<0.050	<0.050	<0.005	**0.017**	<0.005	<0.005	**0.041**	<0.005	<0.005	<0.010
	9/29/2005	<0.005	<0.050	<0.050	<0.005	**0.018**	<0.005	<0.005	**0.082**	<0.005	<0.005	<0.010
	10/31/2005	<0.005	<0.050	<0.050	<0.005	**0.026**	<0.005	<0.005	**0.073**	<0.005	<0.005	<0.010
	11/29/2005	<0.005	<0.050	<0.050	<0.005	**0.015**	<0.005	<0.005	**0.072**	<0.005	<0.005	<0.010
	1/31/2006	<0.005	<0.050	<0.050	<0.005	**0.017**	<0.005	<0.005	**0.084**	<0.005	<0.005	<0.010
	6/2/2006	<0.005	<0.050	<0.050	<0.005	**0.015**	<0.005	<0.005	**0.087**	<0.005	<0.005	<0.010
	11/29/2006	<0.005	<0.010	<0.020	<0.005	**0.011**	<0.005	<0.005	**0.034**	<0.005	<0.005	<0.010
	5/31/2007	<0.005	<0.050	<0.050	<0.005	**0.011**	<0.005	<0.005	**0.032**	<0.005	<0.005	<0.010
	8/21/2007	<0.005	<0.050	<0.050	<0.005	**0.010**	<0.005	<0.005	**0.035**	<0.005	<0.005	<0.010
	10/26/2007	<0.005	<0.050	<0.050	<0.005	**0.0089**	<0.005	<0.005	**0.072**	<0.005	<0.005	<0.010
	8/18/2008	<0.005	<0.050	<0.050	<0.005	**0.0089**	<0.005	<0.005	**0.047**	<0.005	<0.005	<0.010
	3/24/2010	<0.005	<0.050	<0.050	<0.005	**0.0084**	<0.005	<0.005	**0.035**	<0.005	<0.005	<0.010
	2/28/2011	<0.005	<0.050	<0.050	<0.005	**0.0083**	<0.005	<0.005	**0.086**	<0.005	<0.005	<0.010
	3/15/2012	<0.005	<0.050	<0.050	<0.005	**0.0080**	<0.005	<0.005	**0.150**	<0.005	<0.005	<0.010
	9/11/2012	<0.005	<0.050	<0.050	<0.005	**0.012**	<0.005	<0.005	**0.140**	<0.005	<0.005	<0.010
	3/19/2014	<0.005	<0.050	<0.050	<0.005	**0.010**	<0.001	<0.005	**0.110**	<0.005	<0.001	<0.010
	10/8/2014	<0.005	<0.050	<0.050	<0.005	**0.013**	<0.001	<0.005	**0.130**	<0.005	<0.001	<0.010
Type I & 3 Risk Reduction Standard		**0.005**	**2.000**	**4.000**	**0.005**	**0.100**	**0.070**	**Not Applicable**	**0.005**	**1.000**	**0.005**	**10.000**

All concentrations listed in mg/L
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Location	Date Sampled	1,1,2-Trichloroethane	2-Butonone	Acetone	Benzene	Chloroform	cis-1,2-Dichloroethene	Methyl tert-butyl ether	Tetrachloroethene	Toluene	Trichloroethene	Total Xylenes
MW-18S (SMW-2b)	7/29/2002	<0.005	NA	NA	<0.005	<0.005	<0.005	<0.005	**0.3730**	<0.005	<0.005	<0.005
	3/9/2004	<0.005	<0.010	<0.020	<0.005	<0.005	**0.011**	<0.005	**0.870**	<0.005	**0.014**	<0.005
	8/13/2004	<0.005	<0.010	<0.020	<0.005	<0.005	**0.015**	<0.005	**1.200**	<0.005	**0.019**	<0.010
	3/9/2005	<0.005	<0.010	<0.020	<0.005	<0.005	**0.012**	<0.005	**1.000**	<0.005	**0.017**	<0.010
	8/31/2005	<0.005	<0.050	<0.050	<0.005	**0.0067**	**0.011**	<0.005	**0.740**	<0.005	**0.013**	<0.010
	9/29/2005	<0.005	<0.050	<0.050	<0.005	<0.005	**0.0091**	<0.005	**0.790**	<0.005	**0.012**	<0.010
	10/31/2005	<0.005	<0.050	<0.050	<0.005	**0.0085**	**0.014**	<0.005	**0.730**	<0.005	**0.014**	<0.010
	11/29/2005	<0.005	<0.050	<0.050	<0.005	**0.0057**	**0.013**	<0.005	**0.900**	<0.005	**0.014**	<0.010
	6/2/2006	<0.005	<0.050	<0.050	<0.005	**0.0061**	**0.0071**	<0.005	**0.700**	<0.005	**0.010**	<0.010
	11/29/2006	<0.005	<0.010	<0.020	<0.005	**0.014**	**0.017**	<0.005	**0.870**	<0.005	**0.019**	<0.010
	6/1/2007	<0.005	<0.050	<0.050	<0.005	**0.0092**	**0.040**	<0.005	**1.300**	<0.005	**0.024**	<0.010
	8/21/2007	<0.005	<0.050	<0.050	<0.005	**0.011**	**0.018**	<0.005	**0.830**	<0.005	**0.018**	<0.010
	10/26/2007	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	**0.680**	<0.005	<0.005	<0.010
	8/18/2008	<0.005	<0.050	<0.050	<0.005	**0.0092**	**0.0054**	<0.005	**0.290**	<0.005	**0.0074**	<0.010
	3/24/2010	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	**0.043**	<0.005	<0.005	<0.010
	3/3/2011	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	**0.310**	<0.005	<0.005	<0.010
	9/14/2011	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	**0.280**	<0.005	<0.005	<0.010
	3/15/2012	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	**0.140**	<0.005	<0.005	<0.010
	9/13/2012	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	**0.370**	<0.005	<0.005	<0.010
	3/19/2014	<0.005	<0.050	<0.050	<0.005	<0.005	<0.001	<0.005	**0.0055**	<0.005	<0.001	<0.010
	10/9/2014	<0.005	<0.050	<0.050	<0.005	<0.005	<0.001	<0.005	**0.240**	<0.005	**0.0028**	<0.010
Type I & 3 Risk Reduction Standard		**0.005**	**2.000**	**4.000**	**0.005**	**0.100**	**0.070**	**Not Applicable**	**0.005**	**1.000**	**0.005**	**10.000**

All concentrations listed in mg/L
HIGHLIGHTED RESULTS EXCEED TYPE 1 RRS
Sampling: 2000 by Rindt-McDuff; 2002-2003 by Pyramid;
2004-2010 by Peachtree Environmental
2011-current by SEA

TABLE 2

Spalding Corners Shopping Center
Norcross, Fulton County, Georgia
HSI No. 10639
SEA Job#102-063
Historic Groundwater Analytical Results Summary

Location	Date Sampled	1,1,2-Trichloroethane	2-Butonone	Acetone	Benzene	Chloroform	cis-1,2-Dichloroethene	Methyl tert-butyl ether	Tetrachloroethene	Toluene	Trichloroethene	Total Xylenes
MW-19S	8/7/2002	<0.005	NA	NA	<0.005	<0.005	**0.0050**	<0.005	**0.1450**	<0.005	<0.005	<0.005
(SMW-6)	3/9/2004	<0.005	<0.010	<0.020	<0.005	**0.0054**	**0.0082**	<0.005	**0.560**	<0.005	**0.0059**	<0.005
	8/13/2004	<0.005	<0.010	<0.020	<0.005	<0.005	**0.0054**	<0.005	**0.380**	<0.005	<0.005	<0.010
	3/9/2005	<0.005	<0.010	<0.020	<0.005	<0.005	<0.005	<0.005	**0.540**	<0.005	**0.0081**	<0.010
	6/21/2005	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	**0.350**	<0.005	**0.0064**	<0.010
	7/28/2005	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	**0.310**	<0.005	**0.0074**	<0.010
	8/31/2005	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	**0.440**	<0.005	**0.0071**	<0.010
	9/29/2005	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	**0.570**	<0.005	**0.0094**	<0.010
	10/31/2005	<0.005	<0.050	<0.050	<0.005	<0.005	**0.0071**	<0.005	**0.560**	<0.005	**0.012**	<0.010
	11/29/2005	<0.005	<0.050	<0.050	<0.005	<0.005	**0.0060**	<0.005	**0.660**	<0.005	**0.011**	<0.010
	6/2/2006	<0.005	<0.050	<0.050	<0.005	<0.005	**0.0069**	<0.005	**0.730**	<0.005	**0.014**	<0.010
	7/13/2006	<0.005	**0.046**	**0.062**	**0.0020**	<0.005	**0.038**	<0.005	**0.230**	**1.500**	**0.0089**	<0.010
	9/22/2006	<0.005	<0.050	<0.050	<0.005	**0.0056**	**0.034**	<0.005	**0.570**	<0.005	**0.130**	<0.010
	11/29/2006	<0.005	<0.010	<0.020	<0.005	**0.0063**	**0.130**	<0.005	**0.350**	<0.005	**0.050**	<0.010
	1/23/2007	<0.005	<0.050	<0.050	<0.005	**0.0072**	**0.095**	<0.005	**0.460**	<0.005	**0.063**	<0.010
	6/1/2007	<0.005	<0.050	<0.050	<0.005	**0.0070**	**0.024**	<0.005	**0.530**	<0.005	**0.020**	<0.010
	8/21/2007	**0.014**	<0.050	<0.050	<0.005	**0.0066**	**0.0065**	<0.005	**0.400**	<0.005	**0.015**	<0.010
	10/26/2007	<0.005	<0.050	<0.050	<0.005	**0.011**	**0.016**	<0.005	**0.740**	<0.005	**0.016**	<0.010
	8/18/2008	<0.005	<0.050	<0.050	<0.005	**0.0074**	**0.016**	<0.005	**0.210**	<0.005	**0.0063**	<0.010
	11/11/2008	<0.005	<0.050	<0.050	<0.005	**0.012**	**0.0066**	<0.005	**0.510**	<0.005	**0.010**	<0.010
	3/24/2010	<0.005	<0.050	<0.050	<0.005	<0.005	**0.0077**	<0.005	**0.018**	<0.005	**0.013**	<0.010
	3/2/2011	<0.005	<0.050	<0.050	<0.005	<0.005	**0.013**	<0.005	**0.052**	<0.005	**0.0051**	<0.010
	9/15/2011	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	**0.0051**	<0.010
	3/14/2012	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
	9/13/2012	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
	3/18/2014	<0.005	<0.050	<0.050	<0.005	<0.005	**0.0035**	<0.005	**0.032**	<0.005	**0.0022**	<0.010
	10/9/2014	<0.005	<0.050	<0.050	<0.005	<0.005	**0.0011**	<0.005	**0.017**	<0.005	**0.0023**	<0.010
Type I & 3 Risk Reduction Standard		**0.005**	**2.000**	**4.000**	**0.005**	**0.100**	**0.070**	**Not Applicable**	**0.005**	**1.000**	**0.005**	**10.000**

All concentrations listed in mg/L
HIGHLIGHTED RESULTS EXCEED TYPE 1 RRS
Sampling: 2000 by Rindt-McDuff; 2002-2003 by Pyramid;
2004-2010 by Peachtree Environmental
2011-current by SEA

TABLE 2

Spalding Corners Shopping Center
Norcross, Fulton County, Georgia
HSI No. 10639
SEA Job#102-063
Historic Groundwater Analytical Results Summary

Location	Date Sampled	1,1,2-Trichloroethane	2-Butonone	Acetone	Benzene	Chloroform	cis-1,2-Dichloroethene	Methyl tert-butyl ether	Tetrachloroethene	Toluene	Trichloroethene	Total Xylenes
MW-20S	10/22/2003	NA	NA	NA	NA	<0.025	NA	<0.005	NA	NA	NA	<0.025
(SMW-6 SW2)	8/13/2004	<0.005	<0.010	<0.020	<0.005	<0.005	<0.005	<0.005	**0.410**	<0.005	**0.0091**	<0.010
	3/9/2005	<0.005	<0.010	<0.020	<0.005	<0.005	<0.005	<0.005	**0.330**	<0.005	**0.0092**	<0.010
	6/21/2005	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	**0.370**	<0.005	**0.0076**	<0.010
	7/28/2005	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	**0.350**	<0.005	**0.010**	<0.010
	11/29/2005	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	**0.370**	<0.005	**0.0083**	<0.010
	3/31/2006	<0.005	<0.050	<0.050	<0.005	<0.005	**0.039**	<0.005	**0.330**	**0.430**	**0.0096**	<0.010
	6/2/2006	<0.005	**0.055**	**0.076**	<0.005	<0.005	**0.036**	<0.005	**0.320**	**0.850**	**0.0083**	<0.010
	7/13/2006	<0.005	<0.050	<0.050	<0.005	**0.0059**	**0.0067**	<0.005	**0.600**	**0.014**	**0.013**	<0.010
	9/22/2006	<0.005	<0.050	<0.050	<0.005	<0.005	**0.031**	<0.005	**0.450**	**0.200**	**0.012**	<0.010
	11/29/2006	<0.005	<0.010	<0.020	<0.005	<0.005	**0.022**	<0.005	**0.390**	**0.019**	**0.0084**	<0.010
	1/23/2007	<0.005	<0.050	<0.050	<0.005	<0.005	**0.029**	<0.005	**0.300**	<0.005	**0.0095**	<0.010
	6/1/2007	<0.005	<0.050	<0.050	<0.005	<0.005	**0.028**	<0.005	**0.720**	<0.005	**0.014**	<0.010
	8/21/2007	**0.026**	<0.050	<0.050	<0.005	<0.005	**0.033**	<0.005	**0.650**	<0.005	**0.016**	<0.010
	10/26/2007	<0.005	<0.050	<0.050	<0.005	<0.005	**0.029**	<0.005	**1.600**	<0.005	**0.023**	<0.010
	8/18/2008	<0.005	<0.050	<0.050	<0.005	**0.0074**	**0.022**	<0.005	**0.700**	<0.005	**0.023**	<0.010
	11/11/2008	<0.005	<0.050	<0.050	<0.005	<0.005	**0.020**	<0.005	**1.700**	<0.005	**0.025**	<0.010
	2/13/2009	<0.005	<0.050	<0.050	<0.005	<0.005	**0.020**	<0.005	**0.190**	<0.005	<0.005	<0.010
	3/24/2010	<0.005	<0.050	<0.050	<0.005	<0.005	**0.018**	<0.005	<0.005	<0.005	**0.0059**	<0.010
	3/2/2011	<0.005	<0.050	<0.050	<0.005	<0.005	**0.012**	<0.005	<0.005	<0.005	<0.005	<0.010
	9/15/2011	<0.005	<0.050	<0.050	<0.005	<0.005	**0.0081**	<0.005	**0.048**	<0.005	<0.005	<0.010
	3/12/2012	<0.005	<0.050	<0.050	<0.005	<0.005	**0.0062**	<0.005	**0.041**	<0.005	<0.005	<0.010
	9/13/2012	<0.005	<0.050	<0.050	<0.005	<0.005	**0.0067**	<0.005	**0.050**	<0.005	<0.005	<0.010
	3/18/2014	<0.005	<0.050	<0.050	<0.005	<0.005	**0.0060**	<0.005	**0.0027**	<0.005	**0.0019**	<0.010
	10/9/2014	<0.005	<0.050	<0.050	<0.005	<0.005	**0.0041**	<0.005	**0.018**	<0.005	**0.0038**	<0.010
MW-21S	2/28/2011	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
	9/15/2011	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
	3/16/2012	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	**0.035**	<0.005	<0.005	<0.010
	9/13/2012	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	**0.0053**	<0.005	<0.005	<0.010
	3/19/2014	<0.005	<0.050	<0.050	<0.005	<0.005	<0.001	<0.005	**0.0048**	<0.005	<0.001	<0.010
	10/13/2014	<0.005	<0.050	<0.050	<0.005	<0.005	<0.001	<0.005	**0.020**	<0.005	<0.001	<0.010
MW-22S	10/13/2014	<0.005	<0.050	<0.050	<0.005	<0.005	<0.001	<0.005	<0.001	<0.005	<0.001	<0.010
MW-1D	3/15/2004	NA	NA	NA	NA	<0.005	<0.005	NA	<0.005	NA	<0.005	NA
	3/24/2004	NA	NA	NA	NA	<0.005	<0.005	NA	<0.005	NA	<0.005	NA
	3/7/2005	<0.005	<0.010	<0.020	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
	3/7/2005	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	**0.0064**	<0.005	<0.005	<0.010
	5/31/2007	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
	3/23/2010	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
	3/2/2011	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
	9/14/2011	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
	3/14/2012	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
	9/12/2012	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
	3/18/2014	<0.005	<0.050	<0.050	<0.005	<0.005	<0.001	<0.005	**0.0012**	<0.005	<0.001	<0.010
	10/8/2014	<0.005	<0.050	<0.050	<0.005	<0.005	<0.001	<0.005	<0.001	<0.005	<0.001	<0.010
Type I & 3 Risk Reduction Standard		**0.005**	**2.000**	**4.000**	**0.005**	**0.100**	**0.070**	**Not Applicable**	**0.005**	**1.000**	**0.005**	**10.000**

All concentrations listed in mg/L
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Location	Date Sampled	1,1,2-Trichloroethane	2-Butonone	Acetone	Benzene	Chloroform	cis-1,2-Dichloroethene	Methyl tert-butyl ether	Tetrachloroethene	Toluene	Trichloroethene	Total Xylenes
SW-1	3/2/2004	NA	NA	NA	NA	<0.005	**0.022**	NA	**0.050**	NA	**0.012**	NA
	3/7/2005	<0.005	<0.010	<0.020	<0.005	<0.005	**0.011**	<0.005	**0.031**	<0.005	**0.0059**	<0.005
	6/21/2005	<0.005	<0.050	<0.050	<0.005	<0.005	**0.056**	<0.005	**0.030**	<0.005	**0.014**	<0.010
	7/28/2005	<0.005	<0.050	<0.050	<0.005	<0.005	**0.059**	<0.005	**0.020**	<0.005	**0.012**	<0.010
	8/31/2005	<0.005	<0.050	<0.050	<0.005	<0.005	**0.090**	<0.005	**0.019**	<0.005	**0.011**	<0.010
	9/29/2005	<0.005	<0.050	<0.050	<0.005	<0.005	**0.077**	<0.005	<0.005	<0.005	<0.005	<0.010
	11/29/2005	<0.005	<0.050	<0.050	<0.005	<0.005	**0.075**	<0.005	**0.018**	<0.005	**0.0095**	<0.010
	2/1/2006	<0.005	<0.050	<0.050	<0.005	<0.005	**0.028**	<0.005	**0.031**	<0.005	**0.0089**	<0.010
	3/31/2006	<0.005	<0.050	<0.050	<0.005	<0.005	**0.029**	<0.005	**0.032**	<0.005	**0.010**	<0.010
	1/23/2007	<0.005	<0.050	<0.050	<0.005	<0.005	**0.014**	<0.005	**0.041**	<0.005	**0.0083**	<0.010
	3/24/2010	<0.005	<0.050	<0.050	<0.005	<0.005	**0.017**	<0.005	**0.092**	<0.005	**0.0086**	<0.010
	2/25/2011		DRY									
	9/12/2011		DRY									
	3/12/2012		DRY									
	9/10/2012		DRY									
	3/20/2014		DRY									
	10/6/2014		DRY									
SW-2	3/5/2004	NA	NA	NA	NA	<0.005	**0.0071**	NA	**0.013**	NA	<0.005	NA
	3/7/2005	<0.005	<0.010	<0.020	<0.005	<0.005	<0.005	<0.005	**0.010**	<0.005	<0.005	<0.005
	6/21/2005	<0.005	<0.050	<0.050	<0.005	<0.005	**0.020**	<0.005	**0.0092**	<0.005	<0.005	<0.010
	7/28/2005	<0.005	<0.050	<0.050	<0.005	<0.005	**0.023**	<0.005	**0.0063**	<0.005	<0.005	<0.010
	8/31/2005	<0.005	<0.050	<0.050	<0.005	<0.005	**0.042**	<0.005	**0.0072**	<0.005	<0.005	<0.010
	9/29/2005	<0.005	<0.050	<0.050	<0.005	<0.005	**0.027**	<0.005	<0.005	<0.005	<0.005	<0.010
	11/29/2005	<0.005	<0.050	<0.050	<0.005	<0.005	**0.044**	<0.005	**0.0077**	<0.005	<0.005	<0.010
	2/1/2006	<0.005	<0.050	<0.050	<0.005	<0.005	**0.019**	<0.005	**0.018**	<0.005	**0.0050**	<0.010
	3/31/2006	<0.005	<0.050	<0.050	<0.005	<0.005	**0.020**	<0.005	**0.016**	<0.005	<0.005	<0.010
	1/23/2007	<0.005	<0.050	<0.050	<0.005	<0.005	**0.0088**	<0.005	**0.022**	<0.005	**0.0051**	<0.010
	3/24/2010	<0.005	<0.050	<0.050	<0.005	<0.005	**0.011**	<0.005	**0.045**	<0.005	**0.0054**	<0.010
	2/25/2011	<0.005	<0.050	<0.050	<0.005	<0.005	**0.0068**	<0.005	**0.014**	<0.005	<0.005	<0.010
	9/12/2011		DRY									
	3/16/2012	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
	9/10/2012		DRY									
	3/20/2014	<0.005	<0.050	<0.050	<0.005	<0.005	<0.001	<0.005	**0.0043**	<0.005	<0.001	<0.010
	10/6/2014		DRY									
Type I & 3 Risk Reduction Standard		**0.005**	**2.000**	**4.000**	**0.005**	**0.100**	**0.070**	**Not Applicable**	**0.005**	**1.000**	**0.005**	**10.000**

All concentrations listed in mg/L
HIGHLIGHTED RESULTS EXCEED TYPE 1 RRS
Sampling: 2000 by Rindt-McDuff; 2002-2003 by Pyramid;
2004-2010 by Peachtree Environmental
2011-current by SEA

TABLE 2

Spalding Corners Shopping Center
Norcross, Fulton County, Georgia
HSI No. 10639
SEA Job#102-063
Historic Groundwater Analytical Results Summary

Location	Date Sampled	1,1,2-Trichloroethane	2-Butonone	Acetone	Benzene	Chloroform	cis-1,2-Dichloroethene	Methyl tert-butyl ether	Tetrachloroethene	Toluene	Trichloroethene	Total Xylenes
SW-3	3/5/2004	NA	NA	NA	NA	<0.005	<0.005	NA	<0.005	NA	<0.005	NA
	6/21/2005	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
	7/28/2005	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
	8/31/2005	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
	2/1/2006	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
	3/31/2006	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
	1/23/2007	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	**0.0072**	<0.005	<0.005	<0.010
	3/24/2010	<0.005	<0.050	<0.050	<0.005	<0.005	**0.0052**	<0.005	**0.019**	<0.005	<0.005	<0.010
	2/25/2011	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
	9/12/2011		DRY									
	3/16/2012	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
	9/10/2012		DRY									
	3/20/2014	<0.005	<0.050	<0.050	<0.005	<0.005	<0.001	<0.005	**0.0015**	<0.005	<0.001	<0.010
	10/6/2014		DRY									
SW-4	3/3/2011	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
	9/12/2011		DRY									
	3/12/2012		DRY									
	9/10/2012		DRY									
	3/20/2014	<0.005	<0.050	<0.050	<0.005	<0.005	<0.001	<0.005	<0.001	<0.005	<0.001	<0.010
	10/6/2014		DRY									
SW-5	2/25/2011	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
	9/16/2011	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
	3/19/2012	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010
	9/10/2012		DRY									
	3/20/2014	<0.005	<0.050	<0.050	<0.005	<0.005	<0.001	<0.005	<0.001	<0.005	<0.001	<0.010
	10/13/2014	<0.005	<0.050	<0.050	<0.005	<0.005	<0.001	<0.005	<0.001	<0.005	<0.001	<0.010
Type I & 3 Risk Reduction Standard		**0.005**	**2.000**	**4.000**	**0.005**	**0.100**	**0.070**	**Not Applicable**	**0.005**	**1.000**	**0.005**	**10.000**

All concentrations listed in mg/L
HIGHLIGHTED RESULTS EXCEED TYPE 1 RRS
Sampling: 2000 by Rindt-McDuff; 2002-2003 by Pyramid;
2004-2010 by Peachtree Environmental
2011-current by SEA

TABLE 3
Spalding Corners Shopping Center
Norcross Park, Fulton County, Georgia
HSI No. 10639
SEA Job#102-063
HISTORIC GROUNDWATER ELEVATION SUMMARY

WELL NO.	DATE SAMPLED	GROUND ELEVATION	TOP OF CASING ELEVATION	SCREENED INTERVAL	STATIC WATER LEVEL	GROUND WATER ELEVATION
MW-1S	6/24/2003	not measured	996.93	30-40	not measured	
	3/9/2004				31.16	965.77
	5/30/2006				30.52	966.41
	11/29/2006				34.57	962.36
	5/30/2007				33.29	963.64
	3/22/2010				30.55	966.38
	2/24/2011				33.19	963.74
	9/12/2011				34.03	962.90
	3/12/2012				34.41	962.52
	9/10/2012				35.61	961.32
	3/18/2014				31.35	965.58
	9/6/2014				31.79	965.14
MW-2S	6/24/2003	not measured	998.49	35-40	32.60	965.89
	3/9/2004				33.48	965.01
	5/30/2006				32.91	965.58
	11/29/2006				35.92	962.57
	5/31/2007				35.63	962.86
	3/22/2010				32.67	965.82
	2/24/2011				35.53	962.96
	9/12/2011				36.18	962.31
	3/12/2012				36.87	961.62
	9/10/2012				37.88	960.61
	3/18/2014				33.92	964.57
	9/6/2014				34.11	964.38
MW-3S	6/24/2003	not measured	990.89	15-25	23.30	967.59
	3/9/2004				25.11	965.78
	5/30/2006				24.33	966.56
	11/29/2006				30.17	960.72
	5/31/2007				28.48	962.41
	3/22/2010				22.44	968.45
	2/24/2011				29.83	961.06
	9/12/2011				30.73	960.16
	3/12/2012				32.52	958.37
	9/10/2012				34.61	956.28
	3/18/2014				25.30	965.59
	9/6/2014				25.85	965.04
MW-4S	6/24/2003	not measured	975.94	20-35	19.35	956.59
	3/9/2004				20.97	954.97
	5/30/2006				20.91	955.03
	11/29/2006				25.91	950.03
	6/1/2007				24.54	951.40
	3/22/2010				18.79	957.15
	2/24/2011				24.55	951.39
	9/12/2011				27.42	948.52
	3/12/2012				27.19	948.75
	9/10/2012				27.45	948.49
	3/18/2014				21.89	954.05
	9/6/2014				25.22	950.72
MW-5S	6/24/2003	not measured	965.95	25-35	12.80	953.15
	3/9/2004				12.78	953.17
	5/30/2006				13.49	952.46
	11/29/2006				16.94	949.01
	6/21/2007				16.94	949.01
	8/21/2007				18.81	947.14
	10/26/2007				20.21	945.74
	3/22/2010				11.25	954.70
	2/24/2011				15.54	950.41
	9/12/2011	963.34			20.33	945.62
	3/12/2012				17.93	948.02
	9/10/2012				22.05	943.90
	3/18/2014				13.98	951.97
	9/6/2014				17.91	948.04

Static water level taken from top of casing (TOC).
Elevations based on March 2004 survey
by Grant Shepherd Associates, Inc.

TABLE 3
Spalding Corners Shopping Center
Norcross Park, Fulton County, Georgia
HSI No. 10639
SEA Job#102-063
HISTORIC GROUNDWATER ELEVATION SUMMARY

WELL NO.	DATE SAMPLED	GROUND ELEVATION	TOP OF CASING ELEVATION	SCREENED INTERVAL	STATIC WATER LEVEL	GROUND WATER ELEVATION
MW-6S	6/24/2003	not measured	959.38	5.0-15.0	10.83	948.55
	3/9/2004				11.53	947.85
	5/30/2006				12.52	946.86
	11/29/2006				14.40	944.98
	6/1/2007				14.10	945.28
	3/22/2010				10.71	948.67
	2/24/2011				12.27	947.11
	9/12/2011				18.56	940.82
	3/12/2012				14.31	945.07
	9/10/2012				DRY	
	3/18/2014				12.51	946.87
	9/6/2014				16.21	943.17
MW-7S	3/22/2010	not measured	949.56	3.0-8.0	4.55	945.01
	2/24/2011				4.93	944.63
	9/12/2011				DRY	
	3/12/2012				4.92	944.64
	9/10/2012				DRY	
	3/18/2014				4.40	945.16
	9/6/2014				DRY	
MW-8S	2/18/2004	not measured	969.45	20-30	24.60	944.85
	3/25/2004				24.30	945.15
	5/30/2006				24.70	944.75
	11/29/2006				26.67	942.78
	5/29/2007				26.10	943.35
	3/22/2010				22.72	946.73
	2/24/2011				25.85	943.60
	9/12/2011				DRY	
	3/12/2012				26.60	942.85
	9/10/2012				29.02	940.43
	3/18/2014				24.59	944.86
	9/6/2014				27.23	942.22
MW-9S	6/24/2003	not measured	976.17	31.5-41.5	16.60	959.57
	3/9/2004				16.68	959.49
	5/30/2006				17.39	958.78
	11/29/2006				20.64	955.53
	5/29/2007				20.08	956.09
	3/22/2010				15.53	960.64
	2/24/2011				19.45	956.72
	9/12/2011				22.55	953.62
	3/12/2012				21.29	954.88
	9/10/2012				24.34	951.83
	3/18/2014				17.75	958.42
	9/6/2014				21.21	954.96
MW-10S	6/24/2003	not measured	987.32	30-40	not measured	
	3/9/2004				25.77	961.55
	5/30/2006				27.73	959.59
	11/29/2006				28.91	958.41
	6/1/2007				28.45	958.87
	3/22/2010				25.01	962.31
	2/24/2011				28.13	959.19
	9/12/2011				29.83	957.49
	3/12/2012				29.90	957.42
	9/10/2012				31.82	955.50
	3/18/2014				27.02	960.30
	9/6/2014				28.78	958.54

Static water level taken from top of casing (TOC).
Elevations based on March 2004 survey
by Grant Shepherd Associates, Inc.

TABLE 3
Spalding Corners Shopping Center
Norcross Park, Fulton County, Georgia
HSI No. 10639
SEA Job#102-063
HISTORIC GROUNDWATER ELEVATION SUMMARY

WELL NO.	DATE SAMPLED	GROUND ELEVATION	TOP OF CASING ELEVATION	SCREENED INTERVAL	STATIC WATER LEVEL	GROUND WATER ELEVATION
MW-11S	6/24/2003	not measured	991.13	40-50	27.20	963.93
	3/9/2004				27.06	964.07
	5/30/2006				26.83	964.30
	11/29/2006				29.41	961.72
	5/30/2007				29.38	961.75
	3/22/2010				28.01	963.12
	2/24/2011				29.14	961.99
	9/12/2011				29.76	961.37
	3/12/2012				35.50	955.63
	9/10/2012				31.62	959.51
	3/18/2014				28.39	962.74
	9/6/2014				29.22	961.91
MW-12S	6/24/2003	not measured	999.27	41.5-51.5	34.00	965.27
	3/9/2004				34.53	964.74
	5/30/2006				34.15	965.12
	11/29/2006				36.60	962.67
	5/30/2007				36.56	962.71
	3/22/2010				35.00	964.27
	2/24/2011				36.37	962.90
	9/12/2011				36.70	962.57
	3/12/2012				37.82	961.45
	9/10/2012				38.60	960.67
	3/18/2014				35.74	963.53
	9/6/2014				35.88	963.39
MW-13S	6/24/2003	not measured	997.91	40-50	32.10	965.81
	3/9/2004				32.48	965.43
	5/30/2006				32.56	965.35
	11/29/2006				34.35	963.56
	5/30/2007				34.48	963.43
	3/22/2010				33.13	964.78
	2/24/2011	998.54			34.22	963.69
	9/12/2011				34.40	963.51
	3/12/2012				35.90	962.01
	9/10/2012				36.26	961.65
	3/18/2014				33.63	964.28
	9/6/2014				33.25	964.66
MW-14S	6/24/2003	not measured	999.73	35-45	34.00	965.73
	3/9/2004				34.10	965.63
	5/30/2006				33.58	966.15
	11/29/2006				35.94	963.79
	5/30/2007				35.89	963.84
	3/22/2010				34.38	965.35
	2/24/2011	1000.22			35.78	963.95
	9/12/2011				36.03	963.70
	3/12/2012				37.00	962.73
	9/10/2012				37.69	962.04
	3/18/2014				34.71	965.02
	9/6/2014				34.59	965.14
MW-15S	6/24/2003	not measured	999.00	35-55	34.50	964.50
	3/9/2004				34.50	964.50
	11/29/2005				35.33	963.67
	5/30/2006				34.58	964.42
	11/29/2006				37.27	961.73
	5/31/2007				37.10	961.90
	3/22/2010				35.28	963.72
	2/24/2011	999.42			37.05	961.95
	9/12/2011				37.44	961.56
	3/12/2012				38.57	960.43
	9/10/2012				39.35	959.65
	3/18/2014				36.14	962.86
	9/6/2014				36.17	962.83

Static water level taken from top of casing (TOC).
Elevations based on March 2004 survey
by Grant Shepherd Associates, Inc.

TABLE 3
Spalding Corners Shopping Center
Norcross Park, Fulton County, Georgia
HSI No. 10639
SEA Job#102-063
HISTORIC GROUNDWATER ELEVATION SUMMARY

WELL NO.	DATE SAMPLED	GROUND ELEVATION	TOP OF CASING ELEVATION	SCREENED INTERVAL	STATIC WATER LEVEL	GROUND WATER ELEVATION
MW-16S	6/24/2003	not measured	991.90	38-43	30.10	961.80
	3/10/2004				29.29	962.61
	6/21/2005				28.31	963.59
	7/28/2005				28.71	963.19
	8/11/2005				28.55	963.35
	8/31/2005				28.95	962.95
	9/29/2005				29.39	962.51
	11/29/2005				30.46	961.44
	5/30/2006				29.16	962.74
	11/29/2006				32.20	959.70
	6/1/2007				31.84	960.06
	8/21/2007				32.93	958.97
	10/26/2007				33.63	958.27
	3/22/2010				29.23	962.67
	2/24/2011				31.61	960.29
	9/12/2011				32.74	959.16
	3/12/2012				33.34	958.56
	9/10/2012				34.78	957.12
	3/18/2014				30.72	961.18
	9/6/2014				31.67	960.23
MW-17S	6/24/2003	not measured	988.61	36-46	26.34	962.27
	3/10/2004				29.96	958.65
	6/21/2005				30.18	958.43
	7/28/2005				26.22	962.39
	8/11/2005				26.18	962.43
	8/31/2005				26.52	962.09
	9/29/2005				27.06	961.55
	11/29/2005				27.86	960.75
	5/30/2006				26.72	961.89
	11/29/2006				31.01	957.60
	5/31/2007				29.49	959.12
	8/21/2007				30.88	957.73
	10/26/2007				31.76	956.85
	3/22/2010				26.51	962.10
	2/24/2011				29.34	959.27
	9/12/2011				30.91	957.70
	3/12/2012				31.22	957.39
	9/10/2012				33.04	955.57
	3/18/2014				28.28	960.33
	9/6/2014				29.73	958.88
MW-18S	6/24/2003	not measured	983.52	23.5-33.5	19.65	963.87
	3/9/2004				20.66	962.86
	3/25/2003				23.27	960.25
	6/21/2005				22.69	960.83
	7/28/2005				23.14	960.38
	8/11/2005				23.23	960.29
	8/31/2005				23.44	960.08
	9/29/2005				24.17	959.35
	11/29/2005				24.82	958.70
	5/30/2006				23.50	960.02
	11/29/2006				27.03	956.49
	6/1/2007				26.26	957.26
	8/21/2007				28.03	955.49
	10/26/2007				29.11	954.41
	3/22/2010				21.81	961.71
	2/24/2011				25.52	958.00
	9/12/2011				28.18	955.34
	3/12/2012				27.19	956.33
	9/10/2012				30.17	953.35
	3/18/2014				23.65	959.87
	9/6/2014				26.96	956.56

Static water level taken from top of casing (TOC).
Elevations based on March 2004 survey
by Grant Shepherd Associates, Inc.

TABLE 3
Spalding Corners Shopping Center
Norcross Park, Fulton County, Georgia
HSI No. 10639
SEA Job#102-063
HISTORIC GROUNDWATER ELEVATION SUMMARY

WELL NO.	DATE SAMPLED	GROUND ELEVATION	TOP OF CASING ELEVATION	SCREENED INTERVAL	STATIC WATER LEVEL	GROUND WATER ELEVATION
MW-19S	6/24/2003	not measured	970.84	23-33	12.60	958.24
	3/9/2004				13.23	957.61
	6/21/2005				13.20	957.64
	7/28/2005				13.47	957.37
	8/11/2005				13.25	957.59
	8/31/2005				13.78	957.06
	9/29/2005				14.65	956.19
	10/31/2005				14.92	955.92
	11/29/2005				15.06	955.78
	5/30/2006				14.04	956.80
	11/29/2006				17.07	953.77
	6/1/2007				16.62	954.22
	8/21/2007				18.78	952.06
	10/26/2007				19.92	950.92
	3/22/2010				11.98	958.86
	2/24/2011				15.68	955.16
	9/12/2011				19.44	951.40
	3/12/2012				17.17	953.67
	9/10/2012				21.13	949.71
	3/18/2014				13.28	957.56
	9/6/2014				17.58	953.26
MW-20S	3/24/2003	not measured	968.82	15-25	not measured	
	3/9/2004				11.68	957.14
	6/21/2005				11.82	957.00
	7/28/2005				12.00	956.82
	8/11/2005				11.96	956.86
	8/31/2005				12.33	956.49
	9/29/2005				13.22	955.60
	10/31/2005				13.37	955.45
	11/29/2005				13.43	955.39
	5/30/2006				12.60	956.22
	11/29/2006				15.31	953.51
	6/1/2007				15.03	953.79
	8/21/2007				17.12	951.70
	10/26/2007				18.24	950.58
	3/22/2010				10.60	958.22
	2/24/2011				14.04	954.78
	9/12/2011				17.83	950.99
	3/12/2012				15.40	953.42
	9/10/2012				19.48	949.34
	3/18/2014				11.60	957.22
	9/6/2014				16.00	952.82
MW-21S	2/7/2011	963.86	964.00	14-29	15.52	948.48
	2/24/2011				18.33	945.67
*	9/12/2011	963.86	967.41		26.81	940.60
	3/12/2012				26.23	941.18
	9/10/2012				29.00	938.41
	3/18/2014				23.11	944.30
	9/6/2014				25.44	941.97
MW-22S	9/6/2014	957.52	957.19	10-25	23.63	933.56
MW-1D	5/15/2002	not measured	not measured	98-108	not measured	
	10/22/2003				not measured	
	10/31/2005				not measured	
	3/22/2010				33.56	964.68
	2/24/2011	998.78	998.24		34.67	963.57
	9/12/2011				35.40	962.84
	3/12/2012				36.89	961.35
	9/10/2012				36.58	961.66
	3/18/2014				34.08	964.16
	9/6/2014				34.40	963.84

* Elevations of MW-21S measured 9-15-11 based on MW-5S TOC elevation
Revised MW-21S February 2011 ground elevation (970.58) and TOC elevation (970.72) to 9-15-11 ground elevation (963.86).

Static water level taken from top of casing (TOC).
Elevations based on March 2004 survey
by Grant Shepherd Associates, Inc.

Table 4
Spalding Corners Shopping Center
Norcross, Fulton County, Georgia
HSI #10639
SEA Job #102-063
Current MNA Screening Laboratory Results Summary

Location		MW-5S	MW-6S	MW-7S	MW-10S	MW-13S	MW-14S	MW-15S	MW-16S	MW-17S	MW-18S	MW-19S	MW-20S	MW-21S	MW-22S	MW-1D
Sampling Date		10/13/2014	10/9/2014	10/6/2014	10/8/2014	10/7/2014	10/7/2014	10/7/2014	10/7/2014	10/8/2014	10/9/2014	10/9/2014	10/9/2014	10/13/2014	10/13/2014	10/8/2014
pH	mgL	6.19	5.57	DRY	5.76	6.04	6.15	6.05	10.78	6.05	6.64	6.09	6.95	5.84	6.22	8.08
Dissolved Oxygen	mg/L	4.37	0.25		5.39	5.30	5.72	4.76	5.30	4.86	4.27	0.40	0.17	4.44	0.40	0.16
Temperature	deg C	16.27	19.47		18.30	21.89	19.64	21.29	19.80	17.73	15.87	16.97	17.66	16.95	18.07	23.69
ORP	mV	7.4	13.1		61.9	70.9	73	67.7	47.7	-39.5	13.5	12.7	-6.5	13.9	-57.0	-218.9
DCE	mg/L	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	**0.0011**	**0.0041**	<0.001	<0.001	<0.001
PCE	mg/L	**0.067**	**0.0032**		**0.061**	**0.0019**	**0.0068**	**0.200**	**0.280**	**0.130**	**0.240**	**0.017**	**0.018**	**0.020**	<0.001	<0.001
TCE	mg/L	<0.001	<0.001		<0.001	<0.001	<0.001	**0.0019**	**0.0024**	<0.001	**0.0028**	**0.0023**	**0.0038**	<0.001	<0.001	<0.001
VC	mg/L	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
TOC	mg/L		<1.00				1.99	1.00	1.05		<1.00	<1.00	1.43			
Sulfide	mgL		<2.00				<2.00	<2.00	<2.00		<2.00	<2.00	<2.00			
Chloride	mgL		3.8				4.4	5.7	6.5		4.3	2.7	3.4			
Nitrate	mgL		<0.25				2.6	3.3	2.6		1.6	0.50	<0.25			
Nitrite	mgL		<0.25				<0.25	<0.25	<0.25		<0.25	<0.25	<0.25			
Sulfate	mgL		44				1.3	<1.0	9.0		<1.0	6.2	9.6			
Ethane	mgL		<0.009				<0.007	<0.007	<0.007		<0.007	<0.007	<0.007			
Ethene	mgL		<0.007				<0.009	<0.009	<0.009		<0.009	<0.009	<0.009			
Methane	mgL		0.360				<0.004	<0.004	<0.004		0.013	<0.004	0.047			
Iron II	mgL		<0.100				<0.100	<0.100	<0.100		<0.100	<0.100	<0.100			
Iron III	mg/L		3.79				0.454	0.150	0.382		0.888	0.117	<0.100			
Total Iron	mg/L		3.79				0.454	0.150	0.382		0.888	0.117	<0.100			
CO_2	mg/L															
Alkalinity	mgL															
COD	mg/L															
Sulfite	mg/L															
Natural Attenuation Screening Worksheet Score*			**6**				**-1**	**5**	**0**		**5**	**12**	**12**			

* Natural Attenuation Screening Worksheet Scoring for evidence for anaerobic biodegradation of chlorinated organics: 0 to 5 = Inadequate evidence; 6 to 14 = Limited evidence; 15 to 20 Adequate evidence; >20 = Strong evidence

Table 5
Spalding Corners Shopping Center
Norcross, Fulton County, Georgia
HSI #10639
SEA Job #102-063
Historic MNA Screening Laboratory Results Summary

Location		MW-15S								MW-16S							
Sampling Date		3/9/2004	3/9/2005	3/2/2011**	9/13/2011	3/13/2012	9/12/2012	3/18/2014	10/7/2014	3/9/2004	3/9/2005	3/2/2011	9/14/2011	3/12/2012	9/12/2012	3/19/2014	10/7/2014
pH	mgL	6.49	Not Recorded	6.97	5.88	5.36	6.70	7.55	6.05	7.04	6.13	11.52	11.52	11.98	10.00	10.55	10.78
Dissolved Oxygen	mg/L	0.39	Not Recorded	5.71	9.81	5.58	5.35	9.10	4.76		6.34	15.80	15.80	10.03	7.05	5.05	5.30
Temperature	deg C	19.05	Not Recorded	17.70	21.26	19.60	20.70	17.73	21.29	16.82	15.14	16.81	16.81	17.10	18.79	16.48	19.80
ORP	mV	175	Not Recorded	15.5	88.0	-13.7	-135.5	46.4	67.7		236	-23.0	-23.0	-100.9	-198.5	-45.5	47.7
DCE	mg/L	**0.045**	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	0.0050	<0.005	<0.001	<0.001
PCE	mg/L	**4.300**	**0.500**	**0.490**	**0.450**	**0.290**	**0.340**	**0.025**	**0.200**	**0.440**	**0.230**	**0.390**	**0.390**	**0.560**	**0.280**	**0.170**	**0.280**
TCE	mg/L	**0.058**	**0.0083**	<0.005	<0.005	<0.005	<0.005	<0.001	**0.0019**	**0.0051**	**0.0055**	<0.005	<0.005	**0.0072**	<0.005	**0.0014**	**0.0024**
VC	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.001	<0.001	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.001	<0.001
TOC	mg/L	1.5	<1.0	<1.0	<1.0	<1.0	1.09	<1.00	1.00		<1.0	<5.0	1.36	<1.00	<1.00	<1.00	1.05
Sulfide	mgL		<1.0		<2.00	<2.00	<2.00	<2.00	<2.00		<1.0		<2.00	<2.00	<2.00	<2.00	<2.00
Chloride	mgL				7.1	6.2	5.9	6.1	5.7				6.4	<10	6.4	6.2	6.5
Nitrate	mgL	1.59	3.3	3.02	3.0	2.6	2.7	2.7	3.3		3.6	<12.5	3.2	2.7	3.0	2.8	2.6
Nitrite	mgL	<0.250	<0.25		<0.25	<0.25	<0.25	<0.25	<0.25		<0.25		<0.25	<0.25	<0.25	<0.25	<0.25
Sulfate	mgL	<1.0	<1.0	<1.00	<1.0	<1.0	<1.0	<1.0	<1.0		2.3	552	230	110	81	20	9.0
Ethane	mgL		<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007		<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007
Ethene	mgL		<0.009	<0.009	<0.009	<0.009	<0.009	<0.009	<0.009		<0.009	<0.009	<0.009	<0.009	<0.009	<0.009	<0.009
Methane	mgL	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004		<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Iron II	mgL		Dissolved Fe = <0.100	<1.00	<0.100	<0.100	<0.100	<0.500	<0.100		Dissolved Fe = <0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
Iron III	mg/L				0.955	1.05	5.72	10.7	0.150				0.60	0.240	0.187	0.485	0.382
Total Iron	mg/L	10.80			0.955	1.05	5.72	10.7	0.150				0.60	0.240	0.187	0.485	0.382
CO_2	mg/L		79.8								69.6						
Alkalinity	mgL		22.3								28.2						
COD	mg/L			40.0								15.4					
Sulfite	mg/L	<2.00															
Natural Attenuation Screening Worksheet Score ***		**12 (9*)**	**6**	**0**	**0**	**0**	**2**	**0**	**5**		**3**	**0**	**-4**	**2**	**-3**	**-2**	**0**

* If no Fe II present. Since only Total Fe was analyzed, it was assumed that >1 mg/L Fe II was present.
** Low-flow purging was conducted on 3-1-2011 and was resampled on 3-2-2011.
***Natural Attenuation Screening Worksheet Scoring for evidence for anaerobic biodegradation of chlorinated organics:
0 to 5 = Inadequate evidence; 6 to 14 = Limited evidence; 15 to 20 Adequate evidence; >20 = Strong evidence

Table 5
Spalding Corners Shopping Center
Norcross, Fulton County, Georgia
HSI #10639
SEA Job #102-063

Historic MNA Screening Laboratory Results Summary

Location		MW-17S								MW-18S							
Sampling Date		3/9/2004	3/7/2005	2/28/2011	9/15/2011	3/15/2012	9/11/2012	3/19/2014	10/8/2014	3/9/2004	3/7/2005	3/3/2011	9/14/2011	3/15/2012	9/13/2012	3/19/2014	10/9/2014
pH	mgL	7.07	6.35	6.78	5.63	5.81	6.87	5.84	6.05	6.63	5.79	9.41	9.41	8.19	7.41	5.67	6.64
Dissolved Oxygen	mg/L	0.25	8.8	6.50	3.68	4.72	4.90	5.99	4.86	0.44	6.93	3.31	3.31	3.72	4.20	3.11	4.27
Temperature	deg C	15.31	15.55	16.10	17.67	18.54	17.95	14.26	17.73	15.74	15.81	14.70	14.70	17.17	16.74	12.99	15.87
ORP	mV	229	242	52.0	71.6	0.8	-84.4	40.0	-39.5	217	273	-17.1	-17.1	-49.0	-56.9	23.5	13.5
DCE	mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	**0.011**	**0.012**	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001
PCE	mg/L	**0.190**	**0.071**	**0.086**	**0.140**	**0.150**	**0.140**	**0.110**	**0.130**	**0.870**	**1.000**	**0.310**	**0.280**	**0.140**	**0.370**	**0.0055**	**0.240**
TCE	mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	**0.014**	**0.017**	<0.005	<0.005	<0.005	<0.005	<0.001	**0.0028**
VC	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.001	<0.001	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.001	<0.001
TOC	mg/L	<1.0	<1.0		1.89					1.9	<1.0	<5	<1.00	<10.0	<1.00	<1.00	<1.00
Sulfide	mgL		<1.0		<2.00						<1.0		<2.00	<2.00	<2.00	<2.00	<2.00
Chloride	mgL				8.3								5.3	7.1	7.3	7.3	4.3
Nitrate	mgL	2.41	1.4		1.7					2.24	1.8	<0.250	1.2	1.3	1.7	1.7	1.6
Nitrite	mgL	<0.250	<0.25		<0.25					<0.250	<0.25		<0.25	<0.25	<0.25	<0.25	<0.25
Sulfate	mgL	<1.00	<1.00		1.5					<1.00	<1.0	3.63	1.4	8.8	<1.0	<1.0	<1.0
Ethane	mgL		<0.007		<0.007						<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007
Ethene	mgL		<0.009		<0.009						<0.009	<0.009	<0.009	<0.009	<0.009	<0.009	<0.009
Methane	mgL	<0.004	<0.004		<0.004					<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	0.013
Iron II	mgL		Dissolved Fe = <0.100		<0.100						Dissolved Fe = <0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
Iron III	mg/L				1.11								0.832	0.382	0.320	<0.100	0.888
Total Iron	mg/L	9.20			1.11					2.86			0.832	0.382	0.320	<0.100	0.888
CO_2	mg/L		69.5								96.8						
Alkalinity	mgL		45.5								31.0						
COD	mg/L											15.4					
Sulfite	mg/L	<2.00								<2.00							
Natural Attenuation Screening Worksheet Score ***		**8 (5*)**	**1**		**2**					**12 (9*)**	**5**	**3**	**2**	**3**	**1**	**5**	**5**

* If no Fe II present. Since only Total Fe was analyzed, it was assumed that >1 mg/L Fe II was present.
** Low-flow purging was conducted on 3-1-2011 and was resampled on 3-2-2011.
***Natural Attenuation Screening Worksheet Scoring for evidence for anaerobic biodegradation of chlorinated organics:
0 to 5 = Inadequate evidence; 6 to 14 = Limited evidence; 15 to 20 Adequate evidence; >20 = Strong evidence

Table 5
Spalding Corners Shopping Center
Norcross, Fulton County, Georgia
HSI #10639
SEA Job #102-063

Historic MNA Screening Laboratory Results Summary

Location		MW-19S								MW-20S							
Sampling Date		3/9/2004	3/9/2005	3/2/2011	9/15/2011	3/14/2012	9/13/2012	3/18/2014	10/9/2014	3/9/2004	3/9/2005	3/2/2011	9/15/2011	3/12/2012	9/13/2012	3/18/2014	10/9/2014
pH	mgL	6.88	5.90	5.24	6.08	6.61	7.05	5.75	6.09		5.56	6.40	8.65	7.34	6.85	7.01	6.95
Dissolved Oxygen	mg/L	0.50	8.25	0.00	0.46	0.16	1.83	0.66	0.40		7.54	0.00	0.50	0.29	1.14	0.34	0.17
Temperature	deg C	15.34	15.29	16.11	17.10	17.43	16.94	14.25	16.97		14.70	15.32	16.60	15.68	18.46	13.36	17.66
ORP	mV	196	262	100.4	243.2	346	-89.8	-2.2	12.7		197	-120.7	56.8	41.8	18.0	-24.9	-6.5
DCE	mg/L	**0.0082**	<0.005	**0.013**	<0.005	<0.005	<0.005	**0.0035**	**0.0011**		<0.005	**0.012**	**0.0081**	**0.0062**	**0.0067**	**0.0060**	**0.0041**
PCE	mg/L	**0.560**	**0.540**	**0.052**	<0.005	<0.005	<0.005	**0.032**	**0.017**		**0.330**	<0.005	**0.048**	**0.041**	**0.050**	**0.0027**	**0.018**
TCE	mg/L	**0.0059**	**0.0081**	**0.0051**	<0.005	<0.005	<0.005	**0.0022**	**0.0023**		**0.0092**	<0.005	<0.005	<0.005	<0.005	**0.0019**	**0.0038**
VC	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.001	<0.001		<0.002	<0.002	<0.002	<0.002	<0.002	<0.001	<0.001
TOC	mg/L	1.8	<1.0	<1.0	<1.00	<5.00	1.48	<1.00	<1.00		<1.0	<1.0	<1.00	<1.00	<1.00	<1.00	1.43
Sulfide	mgL		<1.0		<2.00	<2.00	<2.00	<2.00	<2.00		<1.0		<2.00	<2.00	<2.00	<2.00	<2.00
Chloride	mgL				6.2	3.0	3.7	5.1	2.7				3.8	4.9	6.3	3.0	3.4
Nitrate	mgL	1.52	2.21	0.259	<0.25	<0.25	0.76	0.39	0.50		2.0	<0.250	0.42	0.36	1.1	<0.25	<0.25
Nitrite	mgL	<0.250	<0.25		<0.25	<0.25	<0.25	<0.25	<0.25		<0.25		<0.25	<0.25	<0.25	<0.25	<0.25
Sulfate	mgL	<1.00	<1.0	61.0	50	32	170	12	6.2		1.1	9.90	43	20	19	1.4	9.6
Ethane	mgL		<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007		<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007
Ethene	mgL		<0.009	<0.009	<0.009	<0.009	<0.009	<0.009	<0.009		<0.009	<0.009	<0.009	<0.009	<0.009	<0.009	<0.009
Methane	mgL	<0.004	<0.004	0.080	0.065	0.020	0.031	0.006	<0.004		<0.004	0.350	0.140	0.018	0.013	0.019	0.047
Iron II	mgL		Dissolved Fe = <0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100		Dissolved Fe = <0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
Iron III	mg/L				<0.100	<0.100	<0.100	<0.100	0.117				0.137	0.173	<0.100	<0.100	<0.100
Total Iron	mg/L	9.95			<0.100	<0.100	<0.100	<0.100	0.117				0.137	0.173	<0.100	<0.100	<0.100
CO_2	mg/L		93.2								100.0						
Alkalinity	mgL		36.1								12.8						
COD	mg/L			15.4								<10.0					
Sulfite	mg/L	<2.00															
Natural Attenuation Screening Worksheet Score ***		**12 (9*)**	**3**	**9**	**5**	**3**	**3**	**9**	**12**		**3**	**12**	**7**	**8**	**5**	**10**	**12**

* If no Fe II present. Since only Total Fe was analyzed, it was assumed that >1 mg/L Fe II was present.
** Low-flow purging was conducted on 3-1-2011 and was resampled on 3-2-2011.
***Natural Attenuation Screening Worksheet Scoring for evidence for anaerobic biodegradation of chlorinated organics:
0 to 5 = Inadequate evidence; 6 to 14 = Limited evidence; 15 to 20 Adequate evidence; >20 = Strong evidence

APPENDIX 3

GROUNDWATER SAMPLING LOGS

Sailors Engineering Associates, Inc
Low Flow Groundwater Sampling Log

Project No: 102-0[illegible]63 Project Name: Spalding Corners S/C

Project Manager: R Rudolph Well No: MW-55 Date: 10/13/14

Well Depth: 35 Screened Interval / Length: 25 / 35 Well Diameter: 2" Casing Type: PVC

Sampling Device (s): YSI-556 Tubing Type: 1/4 poly Water Level: 17.99

Pump Intake Depth: 30' Pump Type: Peristaltic Pumping Rate: 85 ml/min

Other Information: Can't pump any slower.

Sampling Personnel:

		± 5%	0.2 mg/L or ± 10%	± 0.1	± 10%	± 10%		per USEPA Region 4 (10-28-2011	
Time	Temperature (°C/°F)	Conductivity (mS/cm or µS/cm)	Dissolved Oxygen (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Water Level [TOC] (feet)	Cumulative Volume Purged (gallons)	Notes
9:10	16.33	72	6.95	5.99	2.1	9.31	16.89	0.2	
9:20	16.20	72	5.38	6.16	5.9	6.01	20.18	0.6	
9:30	16.26	73	4.87	6.18	5.4	4.10	20.50	0.8	
9:40	16.25	73	4.56	6.19	6.0	3.57	21.37	1.1	
9:50	16.27	73	4.50	6.19	6.5	2.09	21.98	1.3	
10:00	16.23	73	4.41	6.19	7.2	1.77	22.63	1.6	
10:10	16.27	73	4.37	6.19	7.4	1.69	23.16	1.8	

Analyses & Time of Sampling:

Sailors Engineering Associates, Inc
Low Flow Groundwater Sampling Log

Project No: 102-063 Project Name: Spalding Caverns S/C

Project Manager: R. Rudolph Well No: MW-6S Date: 10/9/14

Well Depth: 15 Screened Interval / Length: 5 / 15 Well Diameter: 2" Casing Type: PVC

Sampling Device (s): YSI-556 Tubing Type: 1/4 poly Water Level: 16.33

Pump Intake Depth: 14.5 Pump Type: peristaltic Pumping Rate: 130 ml/min

Other Information:

Sampling Personnel: Short

		± 5%	0.2 mg/L or ± 10%	± 0.1	± 10%	± 10%		per USEPA Region 4 (10-28-2011	
Time	Temperature (°C/°F)	Conductivity (mS/cm or µS/cm)	Dissolved Oxygen (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Water Level [TOC] (feet)	Cumulative Volume Purged (gallons)	Notes
15:30	18.87	134	1.33	5.92	-22.8	21.3	16.68	0.2	
15:35	19.11	130	1.12	5.89	-18.3	12.4	16.68	0.3	
15:40	19.63	135	1.03	5.84	-16.1	9.80	16.68	0.4	
15:45	19.75	135	0.94	5.82	-13.6	9.90	16.68	0.5	
15:50	19.50	132	0.65	5.66	-3.8	9.71	16.68	0.6	
15:55	19.22	134	0.47	5.62	2.8	9.51	16.68	0.7	
16:00	19.35	137	0.38	5.60	7.3	8.99	16.68	0.9	
16:05	19.69	140	0.34	5.59	8.4	8.90	16.68	1.0	
16:15	19.34	141	0.30	5.58	10.4	8.21	16.68	1.3	
16:20	19.53	142	0.27	5.56	11.5	7.75	16.68	1.4	
16:25	19.47	142	0.25	5.57	13.1	7.90	16.68	1.5	

Analyses & Time of Sampling:

Sailors Engineering Associates, Inc
Low Flow Groundwater Sampling Log

Project No: 102-063 Project Name: Spalding Corners S/C

Project Manager: R Rudolph Well No: MW-10S Date: 10/8/14

Well Depth: 40 Screened Interval / Length: 30 / 40 Well Diameter: 2" Casing Type: PVC

Sampling Device (s): YSI-556 Tubing Type: 1/4 poly Water Level: 28.78

Pump Intake Depth: 35 Pump Type: Bladder Pumping Rate: 235 mL/min

Other Information:

Sampling Personnel: Short

	± 5%	0.2 mg/L or ± 10%	± 0.1	± 10%	± 10%		per USEPA Region 4 (10-28-2011	
Time	Temperature (°C/°F)	Conductivity (mS/cm or µS/cm)	Dissolved Oxygen (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Water Level [TOC] (feet)	Cumulative Volume Purged (gallons)	Notes
13:45	18.41	64	5.43	5.59	-83.0	13.6	29.00	0.8	
13:55	18.33	63	5.37	5.69	-69.7	11.7	29.00	1.3	
14:00	18.31	63	5.38	5.71	-66.7	8.80	29.00	1.6	
14:05	18.27	65	5.38	5.75	-63.1	9.63	29.00	1.9	
14:10	18.30	65	5.39	5.76	61.9	6.85	29.00	2.2	

Analyses & Time of Sampling: 14:13

Sailors Engineering Associates, Inc
Low Flow Groundwater Sampling Log

Project No: 102-063 Project Name: Spalding Corners S/C

Project Manager: R. Rudolph Well No: MW-13S Date: 10/7/14

Well Depth: 40 Screened Interval / Length: 40 / 50 Well Diameter: 2" Casing Type: PVC

Sampling Device (s): YSI-556 Tubing Type: 1/4 poly Water Level: 33.45

Pump Intake Depth: 39 Pump Type: Bladder Pumping Rate: 260 ml/min

Other Information: 2.8 = 1 well volume

Sampling Personnel: Shert

		± 5%	0.2 mg/L or ± 10%	± 0.1	± 10%	± 10%		per USEPA Region 4 (10-28-2011	
Time	Temperature (°C/°F)	Conductivity (mS/cm or µS/cm)	Dissolved Oxygen (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Water Level [TOC] (feet)	Cumulative Volume Purged (gallons)	Notes
10:00	21.99	89	5.60	6.05	71.9	8.79	34.36	0.9	
10:10	21.73	88	5.38	6.04	72.8	6.31	34.36	1.3	
10:20	21.82	88	5.40	6.05	70.9	6.23	34.36	1.8	
10:30	22.00	88	5.35	6.05	70.0	5.23	34.36	2.5	
10:40	21.89	88	5.30	6.04	70.9	7.00	34.36	2.9	

Analyses & Time of Sampling: _____

Sailors Engineering Associates, Inc
Low Flow Groundwater Sampling Log

Project No: 102-063 Project Name: Spalding Corners S/C

Project Manager: R. Rudolph Well No: MW-14 Date: 10/7/14

Well Depth: 45 Screened Interval / Length: 35 / 45 Well Diameter: 2" Casing Type: PVC

Sampling Device (s): YSI-556 Tubing Type: 1/4 poly Water Level: 34.64

Pump Intake Depth: 39' Pump Type: Bladder Pumping Rate: 180 ml/min

Other Information: 1.8 = 1 well volume

Sampling Personnel: Shart

	± 5%	0.2 mg/L or ± 10%	± 0.1	± 10%	± 10%		per USEPA Region 4 (10-28-2011	
Time	Temperature (°C/°F)	Conductivity (mS/cm or µS/cm)	Dissolved Oxygen (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Water Level [TOC] (feet)	Cumulative Volume Purged (gallons)	Notes
7:40	19.52	79	6.06	6.29	76.9	40	34.90	0.8	
7:50	19.59	73	5.80	6.27	77.9	37	34.90	1.2	
8:00	19.62	67	5.85	6.23	76.6	30.9	34.90	1.6	
8:10	19.58	63	5.80	6.19	75.5	17.2	34.90	2.0	
8:20	19.75	62	5.75	6.17	74.9	14.6	34.90	2.4	
8:30	19.59	61	5.73	6.16	73.7	16.1	34.90	2.9	
8:40	19.62	61	5.74	6.16	73.4	10.94	34.90	3.4	
8:45	19.64	61	5.72	6.15	73.0	9.11	34.90	3.6	
	Allowed pump to run so long to try to get NTUs								
	below 10								

Analyses & Time of Sampling: _____

Sailors Engineering Associates, Inc
Low Flow Groundwater Sampling Log

Project No: 102-063 Project Name: Spalding Corners S/C

Project Manager: R. Rudolph Well No: MW-155 Date: 10/7/14

Well Depth: 55 Screened Interval / Length: 35 / 55 Well Diameter: 2" Casing Type: PVC

Sampling Device (s): YSI-556 Tubing Type: 1/4 poly Water Level: 36.19

Pump Intake Depth: 40' Pump Type: Bladder Pumping Rate: 130ml/min

Other Information: 3.2 = 1 well volume

Sampling Personnel: Short

Time	Temperature (°C/°F)	Conductivity (mS/cm or µS/cm)	Dissolved Oxygen (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Water Level [TOC] (feet)	Cumulative Volume Purged (gallons)	Notes
	± 5%	0.2 mg/L or ± 10%	± 0.1	± 10%	± 10%		per USEPA Region 4 (10-28-201		
12:40	21.12	86	5.08	5.84	88.2	21.6	36.50	0.7	
12:55	21.54	85	4.84	6.05	79.4	15.1	36.50	1.3	
13:10	21.71	84	4.78	6.04	72.9	8.59	36.50	1.6	
13:25	21.63	83	4.80	6.04	71.6	6.81	36.50	2.1	
13:40	21.34	82	4.76	6.04	69.5	3.93	36.50	2.6	
13:55	21.29	82	4.76	6.05	67.7	2.77	36.50	3.3	

Analyses & Time of Sampling: _____

Sailors Engineering Associates, Inc
Low Flow Groundwater Sampling Log

Project No: 105-063 Project Name: Spalding Corners S/C

Project Manager: R. Rudolph Well No: MW-163 Date: 10/7/14

Well Depth: 43 Screened Interval / Length: 38 / 43 Well Diameter: 2" Casing Type: _____

Sampling Device (s): YSI-556 Tubing Type: 1/4 poly Water Level: 31.67

Pump Intake Depth: 38 Pump Type: Bladder Pumping Rate: 400 ml/min

Other Information: 1.9 = 3 well vol.

Sampling Personnel: Shert

	± 5%	0.2 mg/L or ± 10%	± 0.1	± 10%	± 10%		per USEPA Region 4 (10-28-2011)	
Time	Temperature (°C/°F)	Conductivity (mS/cm or µS/cm)	Dissolved Oxygen (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Water Level [TOC] (feet)	Cumulative Volume Purged (gallons)	Notes
15:10	20.28	406	5.89	10.78	68.1	5.67	32.85	0.5	
15:25	20.22	416	5.60	10.80	67.0	6.81	32.85	0.6	
15:55	20.02	384	5.42	10.78	59.6	6.21	32.85	1.0	
16:10	20.03	378	5.36	10.78	55.9	5.98	32.85	1.1	
16:25	19.74	372	5.36	10.77	54.2	5.77	32.85	1.4	
16:40	19.84	369	5.36	10.78	50.0	5.80	32.85	1.6	
16:55	19.80	365	5.30	10.78	47.7	6.01	32.85	1.7	

Analyses & Time of Sampling: _____

Sailors Engineering Associates, Inc
Low Flow Groundwater Sampling Log

Project No: 102-063 Project Name: Spalding Corners S/C

Project Manager: R. Rudolph Well No: MW-17S Date: 10/8/14

Well Depth: 46 Screened Interval / Length: 36 / 46 Well Diameter: 2" Casing Type: PVC

Sampling Device (s): YSI-556 Tubing Type: 1/4 poly Water Level: 29.75

Pump Intake Depth: 39' Pump Type: Bladder Pumping Rate: 135ml/min

Other Information:

Sampling Personnel: Short

		± 5%	0.2 mg/L or ± 10%	± 0.1	± 10%	± 10%		per USEPA Region 4 (10-28-2011	
Time	Temperature (°C/°F)	Conductivity (mS/cm or µS/cm)	Dissolved Oxygen (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Water Level [TOC] (feet)	Cumulative Volume Purged (gallons)	Notes
15:05	18:53	86	5.69	6.00	-29.2	20.0	31.15	0.6	
15:20	18.22	85	5.21	5.92	-35.3	47.7	31.15	1.0	
15:40	18.17	86	5.00	6.06	-43.9	32.9	31.15	1.6	
15:55	17.91	85	4.89	6.04	-43.4	25.4	31.15	2.1	
16:10	17.67	84	4.89	6.04	-40.3	21.4	31.15	2.5	
16:15	17.73	84	4.86	6.05	-39.5	22.1	31.15	2.7	

Analyses & Time of Sampling: 16:19

Sailors Engineering Associates, Inc
Low Flow Groundwater Sampling Log

Project No: 103-063 Project Name: Spalding Corners S/C

Project Manager: R. Rudolph Well No: MW-18S Date: 10/9/14

Well Depth: 33.5 Screened Interval / Length: 23.5 / 33.5 Well Diameter: 2" Casing Type: PVC

Sampling Device (s): YSI-556 Tubing Type: 1/4 poly Water Level: 27.03

Pump Intake Depth: 30 Pump Type: Bladder Pumping Rate: 180 ml/min

Other Information: 3.3

Sampling Personnel: Sheet

		± 5%	0.2 mg/L or ± 10%	± 0.1	± 10%	± 10%		per USEPA Region 4 (10-28-2011	
Time	Temperature (°C/°F)	Conductivity (mS/cm or µS/cm)	Dissolved Oxygen (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Water Level [TOC] (feet)	Cumulative Volume Purged (gallons)	Notes
8:25	16.08	89	5.62	5.92	27.8	45	27.25	0.7	
8:30	16.06	95	5.21	6.01	26.2	33	27.25	0.8	
8:35	15.93	103	5.02	6.15	24.4	33	27.25	1.1	
8:40	15.97	112	4.78	6.28	23.7	28	27.25	1.5	
8:45	15.90	116	4.70	6.33	23.3	31	27.25	1.6	
8:50	15.96	126	4.59	6.42	21.7	30	27.25	2.0	
8:55	15.95	131	4.52	6.46	20.2	28	27.25	2.2	
9:00	16.04	138	4.45	6.53	18.0	20	27.25	2.6	
9:05	16.02	144	4.37	6.58	16.1	24	27.25	2.8	
9:10	16.01	147	4.36	6.60	14.9	24	27.25	3.0	
9:15	15.87	153	4.27	6.64	13.5	27	27.25	3.4	

Analyses & Time of Sampling:

Sailors Engineering Associates, Inc
Low Flow Groundwater Sampling Log

Project No: 102-063 Project Name: Spalding Corners S/C

Project Manager: R. Rudolph Well No: MW195 Date: 10/9/14

Well Depth: 33 Screened Interval / Length: 23 / 33 Well Diameter: 2" Casing Type: PVC

Sampling Device (s): YSI-556 Tubing Type: _____ Water Level: 17.68

Pump Intake Depth: 25 Pump Type: Peristaltic Pumping Rate: 185

Other Information: _____

Sampling Personnel: Short

		± 5%	0.2 mg/L or ± 10%	± 0.1	± 10%	± 10%		per USEPA Region 4 (10-28-2011	
Time	Temperature (°C/°F)	Conductivity (mS/cm or µS/cm)	Dissolved Oxygen (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Water Level [TOC] (feet)	Cumulative Volume Purged (gallons)	Notes
11:05	16.84	95	0.73	6.00	10.8	11	17.87	0.5	
11:15	17.05	101	0.56	5.99	12.4	8.1	17.87	1.1	
11:25	16.89	102	0.48	6.06	11.3	7.3	17.87	1.6	
11:35	16.95	102	0.43	6.08	11.8	4.77	17.87	2.0	
11:45	16.97	102	0.40	6.09	12.7	2.01	17.87	2.5	

Analyses & Time of Sampling: _____

Sailors Engineering Associates, Inc
Low Flow Groundwater Sampling Log

Project No: 102-063 Project Name: Spalding Corners S/E

Project Manager: R. Rudolph Well No: MW-20S Date: 10/3/14

Well Depth: 25 Screened Interval / Length: 15 / 25 Well Diameter: 2" Casing Type: PVC

Sampling Device (s): YSI-556 Tubing Type: 1/4 poly Water Level: 16.06

Pump Intake Depth: 21 Pump Type: Peristaltic Pumping Rate: 120 ml/min

Other Information:

Sampling Personnel: Shard

Time	Temperature (°C/°F)	Conductivity (mS/cm or µS/cm)	Dissolved Oxygen (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Water Level [TOC] (feet)	Cumulative Volume Purged (gallons)	Notes
	± 5%	0.2 mg/L or ± 10%	± 0.1	± 10%	± 10%		per USEPA Region 4 (10-28-2011		
13:50	18.12	284	1.01	7.24	4.5	1.76	16.13	0.4	
13:55	18.03	280	0.41	7.12	3.5	0.81	16.13	0.5	
14:05	17.78	272	0.25	7.06	1.8	0.44	16.13	0.8	
14:15	17.98	266	0.22	7.01	-1.1	0.39	16.13	1.1	
14:20	18.01	263	0.23	7.00	-2.7	0.41	16.13	1.2	
14:25	18.16	262	0.20	6.96	-3.5	0.33	16.13	1.3	
14:30	18.00	260	0.18	6.96	-5.2	0.29	16.13	1.4	
14:35	17.83	260	0.17	6.95	-5.9	0.34	16.13	1.5	
14:40	17.66	257	0.17	6.95	-6.5	0.35	16.13	1.6	

Analyses & Time of Sampling:

Sailors Engineering Associates, Inc
Low Flow Groundwater Sampling Log

Project No: 102-063 Project Name: Spalding Corners

Project Manager: R. Rudolph Well No: MW-21S Date: 10/13/14

Well Depth: 29 Screened Interval / Length: 14 / 29 Well Diameter: 2" Casing Type: PVC

Sampling Device (s): YSI-556 Tubing Type: 1/4 poly Water Level: 25.57

Pump Intake Depth: 29 Pump Type: peristaltic Pumping Rate: 100ml/min

Other Information:

Sampling Personnel: Shaw

		± 5%	0.2 mg/L or ± 10%	± 0.1	± 10%	± 10%		per USEPA Region 4 (10-28-2011	
Time	Temperature (°C/°F)	Conductivity (mS/cm or µS/cm)	Dissolved Oxygen (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Water Level [TOC] (feet)	Cumulative Volume Purged (gallons)	Notes
10:45	16.97	64	4.64	5.90	10.5	1.01	25.69	0.1	
10:50	16.77	63	4.29	5.86	11.6	0.95	25.74	0.3	
10:55	16.78	63	4.17	5.87	12.0	0.88	25.80	0.4	
11:00	16.91	63	4.12	5.86	12.7	0.56	25.86	0.6	
11:05	16.84	63	4.53	5.85	13.3	0.39	25.91	0.8	
11:10	16.99	63	4.47	5.83	13.9	0.42	25.93	1.0	
11:15	16.95	63	4.44	5.84	13.9	0.45	25.95	1.1	

Analyses & Time of Sampling:

Sailors Engineering Associates, Inc
Low Flow Groundwater Sampling Log

Project No: 102-063 Project Name: Spalding Leavers S/C

Project Manager: R. Rudolph Well No: MW-225 Date: 10/13/14

Well Depth: 25 Screened Interval / Length: 10 / 25 Well Diameter: 2" Casing Type: PVC

Sampling Device (s): YSI-556 Tubing Type: 1/4 poly Water Level: 23.83

Pump Intake Depth: 25 Pump Type: Peristaltic Pumping Rate: 80 ml/min

Other Information:

Sampling Personnel: Short

		± 5%	0.2 mg/L or ± 10%	± 0.1	± 10%	± 10%		per USEPA Region 4 (10-28-2011	
Time	Temperature (°C/°F)	Conductivity (mS/cm or µS/cm)	Dissolved Oxygen (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Water Level [TOC] (feet)	Cumulative Volume Purged (gallons)	Notes
13:10	18.34	239	1.24	6.69	-11.9	67.8	23.96	0.2	
13:15	18.01	258	0.47	6.83	-50.0	17.5	24.05	0.4	
13:20	18.07	260	0.40	6.82	-57.0	12.2	24.30	0.5	
		Well gone dry							
After an hour well only recovered to 24.0 TOC sampled for VOC only									

Analyses & Time of Sampling:

Sailors Engineering Associates, Inc
Low Flow Groundwater Sampling Log

Project No: 102-063 Project Name: Spalding Corners S/C

Project Manager: R. Rudolph Well No: MW-1D Date: 10/8/14

Well Depth: 108 Screened Interval / Length: 98 / 108 Well Diameter: 2" Casing Type: PVC

Sampling Device (s): YSI-556 Tubing Type: 1/4 poly Water Level: 34.31

Pump Intake Depth: 50' Pump Type: Bladder Pumping Rate: 40ml/min

Other Information: 12.58 = 1 well volume, 1 well volume @ 40ml/min would take 19.9 hrs. Not Feasible

Sampling Personnel: Short

	± 5%	0.2 mg/L or ± 10%	± 0.1	± 10%	± 10%		per USEPA Region 4 (10-28-2011
Time	Temperature (°C/°F)	Conductivity (mS/cm or µS/cm)	Dissolved Oxygen (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Water Level [TOC] (feet)	Cumulative Volume Purged (gallons)	Notes
8:10	19.81	334	1.03	7.95	-154.9	0.52	35.95	0.7	
8:55	20.28	347	0.41	7.96	-214.6	0.41	37.40	0.8	
	Had to pull pump & button up well due to impending rain. Testing resumed @ 10:00								
10:10	21.06	353	3.99	7.99	-167.9	0.65	36.85	1.0	
11:00	21.81	368	0.37	8.04	-222	0.44	38.35	1.5	
11:20	22.37	376	0.26	8.06	-223.3	0.41	38.75	1.7	
11:30	22.52	379	0.25	8.07	-221.7	0.40	38.96	1.8	
11:40	22.84	383	0.23	8.08	-219.1	0.40	39.20	1.9	
11:50	23.25	389	0.18	8.08	-220.3	0.40	39.40	2.0	
12:00	23.69	393	0.16	8.08	-218.9	0.40	39.55	2.1	

Analyses & Time of Sampling: 12:04

Sailors Engineering Associates, Inc
Low Flow Groundwater Sampling Log

Project No: 102-063 Project Name: Spalding Corners S/C

Project Manager: R. Rudolph Well No: SW-5 Date: 10/13/14

Well Depth: 6 Screened Interval / Length: 1 / 6 Well Diameter: 2" Casing Type: PVC

Sampling Device (s): YSI-556 Tubing Type: 1/4 poly Water Level: 4.11

Pump Intake Depth: 6' Pump Type: peristaltic Pumping Rate: 90ml/min

Other Information:

Sampling Personnel: Short

		± 5%	0.2 mg/L or ± 10%	± 0.1	± 10%	± 10%		per USEPA Region 4 (10-28-2011	
Time	Temperature (°C/°F)	Conductivity (mS/cm or µS/cm)	Dissolved Oxygen (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Water Level [TOC] (feet)	Cumulative Volume Purged (gallons)	Notes
12:05	19.39	166	0.87	6.39	-26.6	75	4.32	0.1	
12:10	19.44	86	0.31	5.95	-24.8	225	4.58	0.2	
12:15	19.46	60	0.66	5.45	-8.9	175	4.84	0.4	
12:20	19.50	56	0.93	5.20	-0.7	89.1	5.08	0.6	
12:25	19.54	62	0.70	5.11	3.0	32.5	5.44	0.8	
12:30	19.54	63	0.72	5.09	4.3	19.3	5.75	1.0	
12:35	19.55	63	0.73	5.12	5.1	15.7	6.10	1.1	

Analyses & Time of Sampling:

98½ in Total lenght
25 ⅛ in Stand up

73.375 in ground
6.11 ft total dept

APPENDIX 4

MONITORED NATURAL ATTENUATION SCREENING PROTOCOL WORKSHEETS

Natural Attenuation Screening Protocol

The following is taken from the USEPA protocol (USEPA, 1998). The results of this scoring process have no regulatory significance.

Interpretation	Score
Inadequate evidence for anaerobic biodegradation* of chlorinated organics	0 to 5
Limited evidence for anaerobic biodegradation* of chlorinated organics	6 to 14
Adequate evidence for anaerobic biodegradation* of chlorinated organics	15 to 20
Strong evidence for anaerobic biodegradation* of chlorinated organics	>20

Score: 6

Scroll to End of Table

* reductive dechlorination

Analysis	Concentration in Most Contam. Zone	Interpretation	Yes	No	Points Awarded
Oxygen*	<0.5 mg/L	Tolerated, suppresses the reductive pathway at higher concentrations	◉	○	3
	> 5mg/L	Not tolerated; however, VC may be oxidized aerobically	○	◉	0
Nitrate*	<1 mg/L	At higher concentrations may compete with reductive pathway	◉	○	2
Iron II*	>1 mg/L	Reductive pathway possible; VC may be oxidized under Fe(III)-reducing conditions	○	◉	0
Sulfate*	<20 mg/L	At higher concentrations may compete with reductive pathway	○	◉	0
Sulfide*	>1 mg/L	Reductive pathway possible	○	◉	0
Methane*	>0.5 mg/L	Ultimate reductive daughter product, VC Accumulates	○	◉	0
Oxidation Reduction Potential* (ORP)	<50 millivolts (mV)	Reductive pathway possible	◉	○	1
	<-100mV	Reductive pathway likely	○	◉	0
pH*	5 < pH < 9	Optimal range for reductive pathway	◉	○	0
TOC	>20 mg/L	Carbon and energy source; drives dechlorination; can be natural or anthropogenic	○	◉	0
Temperature*	>20°C	At T >20°C biochemical process is accelerated	○	◉	0
Carbon Dioxide	>2x background	Ultimate oxidative daughter product	○	○	
Alkalinity	>2x background	Results from interaction of carbon dioxide with aquifer minerals	○	○	
Chloride*	>2x background	Daughter product of organic chlorine	○	◉	0
Hydrogen	>1 nM	Reductive pathway possible, VC may accumulate	○	○	
Volatile Fatty Acids	>0.1 mg/L	Intermediates resulting from biodegradation of aromatic compounds; carbon and energy source	○	○	
BTEX*	>0.1 mg/L	Carbon and energy source; drives dechlorination	○	◉	0
PCE*		Material released	◉	○	0
TCE*		Daughter product of PCE [a/]	○	◉	0
DCE*		Daughter product of TCE. If cis is greater than 80% of total DCE it is likely a daughter product of TCE[a/]; 1,1-DCE can be a chem. reaction product of TCA	○	◉	0
VC*		Daughter product of DCE[a/]	○	◉	0
1,1,1-Trichloroethane*		Material released	○	○	
DCA		Daughter product of TCA under reducing conditions	○	○	
Carbon Tetrachloride		Material released	○	○	
Chloroethane*		Daughter product of DCA or VC under reducing conditions	○	○	
Ethene/Ethane	>0.01 mg/L	Daughter product of VC/ethene	○	◉	0
	>0.1 mg/L	Daughter product of VC/ethene	○	◉	0
Chloroform		Daughter product of Carbon Tetrachloride	○	○	
Dichloromethane		Daughter product of Chloroform	○	○	

* required analysis.

a/ Points awarded only if it can be shown that the compound is a daughter product (i.e., not a constituent of the source NAPL).

SCORE | Reset

End of Form

Natural Attenuation Screening Protocol

The following is taken from the USEPA protocol (USEPA, 1998). The results of this scoring process have no regulatory significance.

Interpretation	Score
Inadequate evidence for anaerobic biodegradation* of chlorinated organics	0 to 5
Limited evidence for anaerobic biodegradation* of chlorinated organics	6 to 14
Adequate evidence for anaerobic biodegradation* of chlorinated organics	15 to 20
Strong evidence for anaerobic biodegradation* of chlorinated organics	>20

Score: -1

Scroll to End of Table

* reductive dechlorination

Analysis	Concentration in Most Contam. Zone	Interpretation	Yes	No	Points Awarded
Oxygen*	<0.5 mg/L	Tolerated, suppresses the reductive pathway at higher concentrations	○	◉	0
	> 5mg/L	Not tolerated; however, VC may be oxidized aerobically	◉	○	-3
Nitrate*	<1 mg/L	At higher concentrations may compete with reductive pathway	○	◉	0
Iron II*	>1 mg/L	Reductive pathway possible; VC may be oxidized under Fe(III)-reducing conditions	○	◉	0
Sulfate*	<20 mg/L	At higher concentrations may compete with reductive pathway	◉	○	2
Sulfide*	>1 mg/L	Reductive pathway possible	○	◉	0
Methane*	>0.5 mg/L	Ultimate reductive daughter product, VC Accumulates	○	◉	0
Oxidation Reduction Potential* (ORP)	<50 millivolts (mV)	Reductive pathway possible	○	◉	0
	<-100mV	Reductive pathway likely	○	◉	0
pH*	5 < pH < 9	Optimal range for reductive pathway	◉	○	0
TOC	>20 mg/L	Carbon and energy source; drives dechlorination; can be natural or anthropogenic	○	◉	0
Temperature*	>20°C	At T >20°C biochemical process is accelerated	○	◉	0
Carbon Dioxide	>2x background	Ultimate oxidative daughter product	○	○	
Alkalinity	>2x background	Results from interaction of carbon dioxide with aquifer minerals	○	○	
Chloride*	>2x background	Daughter product of organic chlorine	○	◉	0
Hydrogen	>1 nM	Reductive pathway possible, VC may accumulate	○	○	
Volatile Fatty Acids	>0.1 mg/L	Intermediates resulting from biodegradation of aromatic compounds; carbon and energy source	○	○	
BTEX*	>0.1 mg/L	Carbon and energy source; drives dechlorination	○	◉	0
PCE*		Material released	◉	○	0
TCE*		Daughter product of PCE [a/]	○	◉	0
DCE*		Daughter product of TCE. If cis is greater than 80% of total DCE it is likely a daughter product of TCE[a/]; 1,1-DCE can be a chem. reaction product of TCA	○	◉	0
VC*		Daughter product of DCE[a/]	○	◉	0
1,1,1-Trichloroethane*		Material released	○	○	
DCA		Daughter product of TCA under reducing conditions	○	○	
Carbon Tetrachloride		Material released	○	○	
Chloroethane*		Daughter product of DCA or VC under reducing conditions	○	○	
Ethene/Ethane	>0.01 mg/L	Daughter product of VC/ethene	○	◉	0
	>0.1 mg/L	Daughter product of VC/ethene	○	◉	0
Chloroform		Daughter product of Carbon Tetrachloride	○	○	
Dichloromethane		Daughter product of Chloroform	○	○	

* required analysis.
a/ Points awarded only if it can be shown that the compound is a daughter product (i.e., not a constituent of the source NAPL).

SCORE | Reset

End of Form

Natural Attenuation Screening Protocol

The following is taken from the USEPA protocol (USEPA, 1998). The results of this scoring process have no regulatory significance.

Interpretation	Score
Inadequate evidence for anaerobic biodegradation* of chlorinated organics	0 to 5
Limited evidence for anaerobic biodegradation* of chlorinated organics	6 to 14
Adequate evidence for anaerobic biodegradation* of chlorinated organics	15 to 20
Strong evidence for anaerobic biodegradation* of chlorinated organics	>20

Score: 5

Scroll to End of Table

* reductive dechlorination

Analysis	Concentration in Most Contam. Zone	Interpretation	Yes	No	Points Awarded
Oxygen*	<0.5 mg/L	Tolerated, suppresses the reductive pathway at higher concentrations	○	◉	0
	> 5mg/L	Not tolerated; however, VC may be oxidized aerobically	○	◉	0
Nitrate*	<1 mg/L	At higher concentrations may compete with reductive pathway	○	◉	0
Iron II*	>1 mg/L	Reductive pathway possible; VC may be oxidized under Fe(III)-reducing conditions	○	◉	0
Sulfate*	<20 mg/L	At higher concentrations may compete with reductive pathway	◉	○	2
Sulfide*	>1 mg/L	Reductive pathway possible	○	◉	0
Methane*	>0.5 mg/L	Ultimate reductive daughter product, VC Accumulates	○	◉	0
Oxidation Reduction Potential* (ORP)	<50 millivolts (mV)	Reductive pathway possible	○	◉	0
	<-100mV	Reductive pathway likely	○	◉	0
pH*	5 < pH < 9	Optimal range for reductive pathway	◉	○	0
TOC	>20 mg/L	Carbon and energy source; drives dechlorination; can be natural or anthropogenic	○	◉	0
Temperature*	>20°C	At T >20°C biochemical process is accelerated	◉	○	1
Carbon Dioxide	>2x background	Ultimate oxidative daughter product	○	○	
Alkalinity	>2x background	Results from interaction of carbon dioxide with aquifer minerals	○	○	
Chloride*	>2x background	Daughter product of organic chlorine	○	◉	0
Hydrogen	>1 nM	Reductive pathway possible, VC may accumulate	○	○	
Volatile Fatty Acids	>0.1 mg/L	Intermediates resulting from biodegradation of aromatic compounds; carbon and energy source	○	○	
BTEX*	>0.1 mg/L	Carbon and energy source; drives dechlorination	○	◉	0
PCE*		Material released	◉	○	0
TCE*		Daughter product of PCE [a/]	◉	○	2
DCE*		Daughter product of TCE. If cis is greater than 80% of total DCE it is likely a daughter product of TCE[a/]; 1,1-DCE can be a chem. reaction product of TCA	○	◉	0
VC*		Daughter product of DCE[a/]	○	◉	0
1,1,1-Trichloroethane*		Material released	○	○	
DCA		Daughter product of TCA under reducing conditions	○	○	
Carbon Tetrachloride		Material released	○	○	
Chloroethane*		Daughter product of DCA or VC under reducing conditions	○	○	
Ethene/Ethane	>0.01 mg/L	Daughter product of VC/ethene	○	◉	0
	>0.1 mg/L	Daughter product of VC/ethene	○	◉	0
Chloroform		Daughter product of Carbon Tetrachloride	○	○	
Dichloromethane		Daughter product of Chloroform	○	○	

* required analysis.

a/ Points awarded only if it can be shown that the compound is a daughter product (i.e., not a constituent of the source NAPL).

SCORE | Reset

End of Form

Spalding Corners Shopping Center
HSI #10639
SEA Job #102-063

MW-16S

NA Parameters
2nd 2014 Semi-Annual, October 2014
Low-Flow Purged and Sampled 10-7--2014

Natural Attenuation Screening Protocol

The following is taken from the USEPA protocol (USEPA, 1998). The results of this scoring process have no regulatory significance.

Interpretation	Score
Inadequate evidence for anaerobic biodegradation* of chlorinated organics	0 to 5
Limited evidence for anaerobic biodegradation* of chlorinated organics	6 to 14
Adequate evidence for anaerobic biodegradation* of chlorinated organics	15 to 20
Strong evidence for anaerobic biodegradation* of chlorinated organics	>20

Score: 0

Scroll to End of Table

* reductive dechlorination

Analysis	Concentration in Most Contam. Zone	Interpretation	Yes	No	Points Awarded
Oxygen*	<0.5 mg/L	Tolerated, suppresses the reductive pathway at higher concentrations	○	◉	0
	> 5mg/L	Not tolerated; however, VC may be oxidized aerobically	◉	○	-3
Nitrate*	<1 mg/L	At higher concentrations may compete with reductive pathway	○	◉	0
Iron II*	>1 mg/L	Reductive pathway possible; VC may be oxidized under Fe(III)-reducing conditions	○	◉	0
Sulfate*	<20 mg/L	At higher concentrations may compete with reductive pathway	◉	○	2
Sulfide*	>1 mg/L	Reductive pathway possible	○	◉	0
Methane*	>0.5 mg/L	Ultimate reductive daughter product, VC Accumulates	○	◉	0
Oxidation Reduction Potential* (ORP)	<50 millivolts (mV)	Reductive pathway possible	◉	○	1
	<-100mV	Reductive pathway likely	○	◉	0
pH*	5 < pH < 9	Optimal range for reductive pathway	○	◉	-2
TOC	>20 mg/L	Carbon and energy source; drives dechlorination; can be natural or anthropogenic	○	◉	0
Temperature*	>20°C	At T >20°C biochemical process is accelerated	○	◉	0
Carbon Dioxide	>2x background	Ultimate oxidative daughter product	○	○	
Alkalinity	>2x background	Results from interaction of carbon dioxide with aquifer minerals	○	○	
Chloride*	>2x background	Daughter product of organic chlorine	○	◉	0
Hydrogen	>1 nM	Reductive pathway possible, VC may accumulate	○	○	
Volatile Fatty Acids	>0.1 mg/L	Intermediates resulting from biodegradation of aromatic compounds; carbon and energy source	○	○	
BTEX*	>0.1 mg/L	Carbon and energy source; drives dechlorination	○	◉	0
PCE*		Material released	◉	○	0
TCE*		Daughter product of PCE [a/]	◉	○	2
DCE*		Daughter product of TCE. If cis is greater than 80% of total DCE it is likely a daughter product of TCE[a/]; 1,1-DCE can be a chem. reaction product of TCA	○	◉	0
VC*		Daughter product of DCE[a/]	○	◉	0
1,1,1-Trichloroethane*		Material released	○	○	
DCA		Daughter product of TCA under reducing conditions	○	○	
Carbon Tetrachloride		Material released	○	○	
Chloroethane*		Daughter product of DCA or VC under reducing conditions	○	○	
Ethene/Ethane	>0.01 mg/L	Daughter product of VC/ethene	○	◉	0
	>0.1 mg/L	Daughter product of VC/ethene	○	◉	0
Chloroform		Daughter product of Carbon Tetrachloride	○	○	
Dichloromethane		Daughter product of Chloroform	○	○	

* required analysis.

a/ Points awarded only if it can be shown that the compound is a daughter product (i.e., not a constituent of the source NAPL).

SCORE Reset

End of Form

Spalding Corners Shopping Center
HSI #10639
SEA Job #102-063

MW-18S

NA Parameters
2nd 2014 Semi-Annual, October 2014
Low-Flow Purged and Sampled 10-9--2014

Natural Attenuation Screening Protocol

The following is taken from the USEPA protocol (USEPA, 1998). The results of this scoring process have no regulatory significance.

Interpretation	Score
Inadequate evidence for anaerobic biodegradation* of chlorinated organics	0 to 5
Limited evidence for anaerobic biodegradation* of chlorinated organics	6 to 14
Adequate evidence for anaerobic biodegradation* of chlorinated organics	15 to 20
Strong evidence for anaerobic biodegradation* of chlorinated organics	>20

Score: 5

Scroll to End of Table

* reductive dechlorination

Analysis	Concentration in Most Contam. Zone	Interpretation	Yes	No	Points Awarded
Oxygen*	<0.5 mg/L	Tolerated, suppresses the reductive pathway at higher concentrations	○	◉	0
	> 5mg/L	Not tolerated; however, VC may be oxidized aerobically	○	◉	0
Nitrate*	<1 mg/L	At higher concentrations may compete with reductive pathway	○	◉	0
Iron II*	>1 mg/L	Reductive pathway possible; VC may be oxidized under Fe(III)-reducing conditions	○	◉	0
Sulfate*	<20 mg/L	At higher concentrations may compete with reductive pathway	◉	○	2
Sulfide*	>1 mg/L	Reductive pathway possible	○	◉	0
Methane*	>0.5 mg/L	Ultimate reductive daughter product, VC Accumulates	○	◉	0
Oxidation Reduction Potential* (ORP)	<50 millivolts (mV)	Reductive pathway possible	◉	○	1
	<-100mV	Reductive pathway likely	○	◉	0
pH*	5 < pH < 9	Optimal range for reductive pathway	◉	○	0
TOC	>20 mg/L	Carbon and energy source; drives dechlorination; can be natural or anthropogenic	○	◉	0
Temperature*	>20°C	At T >20°C biochemical process is accelerated	○	◉	0
Carbon Dioxide	>2x background	Ultimate oxidative daughter product	○	○	
Alkalinity	>2x background	Results from interaction of carbon dioxide with aquifer minerals	○	○	
Chloride*	>2x background	Daughter product of organic chlorine	○	◉	0
Hydrogen	>1 nM	Reductive pathway possible, VC may accumulate	○	○	
Volatile Fatty Acids	>0.1 mg/L	Intermediates resulting from biodegradation of aromatic compounds; carbon and energy source	○	○	
BTEX*	>0.1 mg/L	Carbon and energy source; drives dechlorination	○	◉	0
PCE*		Material released	◉	○	0
TCE*		Daughter product of PCE [a/]	◉	○	2
DCE*		Daughter product of TCE. If cis is greater than 80% of total DCE it is likely a daughter product of TCE[a/]; 1,1-DCE can be a chem. reaction product of TCA	○	◉	0
VC*		Daughter product of DCE[a/]	○	◉	0
1,1,1-Trichloroethane*		Material released	○	○	
DCA		Daughter product of TCA under reducing conditions	○	○	
Carbon Tetrachloride		Material released	○	○	
Chloroethane*		Daughter product of DCA or VC under reducing conditions	○	○	
Ethene/Ethane	>0.01 mg/L	Daughter product of VC/ethene	○	○	
	>0.1 mg/L	Daughter product of VC/ethene	○	◉	0
Chloroform		Daughter product of Carbon Tetrachloride	○	◉	0
Dichloromethane		Daughter product of Chloroform	○	○	

* required analysis.

a/ Points awarded only if it can be shown that the compound is a daughter product (i.e., not a constituent of the source NAPL).

SCORE | Reset

End of Form

Natural Attenuation Screening Protocol

The following is taken from the USEPA protocol (USEPA, 1998). The results of this scoring process have no regulatory significance.

Interpretation	Score
Inadequate evidence for anaerobic biodegradation* of chlorinated organics	0 to 5
Limited evidence for anaerobic biodegradation* of chlorinated organics	6 to 14
Adequate evidence for anaerobic biodegradation* of chlorinated organics	15 to 20
Strong evidence for anaerobic biodegradation* of chlorinated organics	>20

Score: 12

Scroll to End of Table

* reductive dechlorination

Analysis	Concentration in Most Contam. Zone	Interpretation	Yes	No	Points Awarded
Oxygen*	<0.5 mg/L	Tolerated, suppresses the reductive pathway at higher concentrations	◉	○	3
	> 5mg/L	Not tolerated; however, VC may be oxidized aerobically	○	◉	0
Nitrate*	<1 mg/L	At higher concentrations may compete with reductive pathway	◉	○	2
Iron II*	>1 mg/L	Reductive pathway possible; VC may be oxidized under Fe(III)-reducing conditions	○	◉	0
Sulfate*	<20 mg/L	At higher concentrations may compete with reductive pathway	◉	○	2
Sulfide*	>1 mg/L	Reductive pathway possible	○	◉	0
Methane*	>0.5 mg/L	Ultimate reductive daughter product, VC Accumulates	○	◉	0
Oxidation Reduction Potential* (ORP)	<50 millivolts (mV)	Reductive pathway possible	◉	○	1
	<-100mV	Reductive pathway likely	○	◉	0
pH*	5 < pH < 9	Optimal range for reductive pathway	◉	○	0
TOC	>20 mg/L	Carbon and energy source; drives dechlorination; can be natural or anthropogenic	○	◉	0
Temperature*	>20°C	At T >20°C biochemical process is accelerated	○	◉	0
Carbon Dioxide	>2x background	Ultimate oxidative daughter product	○	○	
Alkalinity	>2x background	Results from interaction of carbon dioxide with aquifer minerals	○	○	
Chloride*	>2x background	Daughter product of organic chlorine	○	◉	0
Hydrogen	>1 nM	Reductive pathway possible, VC may accumulate	○	○	
Volatile Fatty Acids	>0.1 mg/L	Intermediates resulting from biodegradation of aromatic compounds; carbon and energy source	○	○	
BTEX*	>0.1 mg/L	Carbon and energy source; drives dechlorination	○	◉	0
PCE*		Material released	◉	○	0
TCE*		Daughter product of PCE [a/]	◉	○	2
DCE*		Daughter product of TCE. If cis is greater than 80% of total DCE it is likely a daughter product of TCE[a/]; 1,1-DCE can be a chem. reaction product of TCA	◉	○	2
VC*		Daughter product of DCE[a/]	○	◉	0
1,1,1-Trichloroethane*		Material released	○	○	
DCA		Daughter product of TCA under reducing conditions	○	○	
Carbon Tetrachloride		Material released	○	○	
Chloroethane*		Daughter product of DCA or VC under reducing conditions	○	○	
Ethene/Ethane	>0.01 mg/L	Daughter product of VC/ethene	○	◉	0
	>0.1 mg/L	Daughter product of VC/ethene	○	◉	0
Chloroform		Daughter product of Carbon Tetrachloride	○	○	
Dichloromethane		Daughter product of Chloroform	○	○	

* required analysis.

a/ Points awarded only if it can be shown that the compound is a daughter product (i.e., not a constituent of the source NAPL).

SCORE | Reset

End of Form

Natural Attenuation Screening Protocol

The following is taken from the USEPA protocol (USEPA, 1998). The results of this scoring process have no regulatory significance.

Interpretation	Score
Inadequate evidence for anaerobic biodegradation* of chlorinated organics	0 to 5
Limited evidence for anaerobic biodegradation* of chlorinated organics	6 to 14
Adequate evidence for anaerobic biodegradation* of chlorinated organics	15 to 20
Strong evidence for anaerobic biodegradation* of chlorinated organics	>20

Score: 12

Scroll to End of Table

* reductive dechlorination

Analysis	Concentration in Most Contam. Zone	Interpretation	Yes	No	Points Awarded
Oxygen*	<0.5 mg/L	Tolerated, suppresses the reductive pathway at higher concentrations	◉	○	3
	> 5mg/L	Not tolerated; however, VC may be oxidized aerobically	○	◉	0
Nitrate*	<1 mg/L	At higher concentrations may compete with reductive pathway	◉	○	2
Iron II*	>1 mg/L	Reductive pathway possible; VC may be oxidized under Fe(III)-reducing conditions	○	◉	0
Sulfate*	<20 mg/L	At higher concentrations may compete with reductive pathway	◉	○	2
Sulfide*	>1 mg/L	Reductive pathway possible	○	◉	0
Methane*	>0.5 mg/L	Ultimate reductive daughter product, VC Accumulates	○	◉	0
Oxidation Reduction Potential* (ORP)	<50 millivolts (mV)	Reductive pathway possible	◉	○	1
	<-100mV	Reductive pathway likely	○	◉	0
pH*	5 < pH < 9	Optimal range for reductive pathway	◉	○	0
TOC	>20 mg/L	Carbon and energy source; drives dechlorination; can be natural or anthropogenic	○	◉	0
Temperature*	>20°C	At T >20°C biochemical process is accelerated	○	◉	0
Carbon Dioxide	>2x background	Ultimate oxidative daughter product	○	○	
Alkalinity	>2x background	Results from interaction of carbon dioxide with aquifer minerals	○	○	
Chloride*	>2x background	Daughter product of organic chlorine	○	◉	0
Hydrogen	>1 nM	Reductive pathway possible, VC may accumulate	○	○	
Volatile Fatty Acids	>0.1 mg/L	Intermediates resulting from biodegradation of aromatic compounds; carbon and energy source	○	○	
BTEX*	>0.1 mg/L	Carbon and energy source; drives dechlorination	○	◉	0
PCE*		Material released	◉	○	0
TCE*		Daughter product of PCE [a/]	◉	○	2
DCE*		Daughter product of TCE. If cis is greater than 80% of total DCE it is likely a daughter product of TCE[a/]; 1,1-DCE can be a chem. reaction product of TCA	◉	○	2
VC*		Daughter product of DCE[a/]	○	◉	0
1,1,1-Trichloroethane*		Material released	○	○	
DCA		Daughter product of TCA under reducing conditions	○	○	
Carbon Tetrachloride		Material released	○	○	
Chloroethane*		Daughter product of DCA or VC under reducing conditions	○	○	
Ethene/Ethane	>0.01 mg/L	Daughter product of VC/ethene	○	◉	0
	>0.1 mg/L	Daughter product of VC/ethene	○	◉	0
Chloroform		Daughter product of Carbon Tetrachloride	○	○	
Dichloromethane		Daughter product of Chloroform	○	○	

* required analysis.

a/ Points awarded only if it can be shown that the compound is a daughter product (i.e., not a constituent of the source NAPL).

SCORE Reset

End of Form

APPENDIX 5

LABORATORY DATA SHEETS - GROUNDWATER

AND LABORATORY CERTIFICATION

State of Florida

Department of Health, Bureau of Public Health Laboratories

This is to certify that

E87582

ANALYTICAL ENVIRONMENTAL SERVICES, INC.
3080 PRESIDENTIAL DRIVE
ATLANTA, GA 30340

has complied with Florida Administrative Code 64E-1,
for the examination of environmental samples in the following categories

DRINKING WATER - MICROBIOLOGY, DRINKING WATER - PRIMARY INORGANIC CONTAMINANTS, DRINKING WATER - SECONDARY INORGANIC CONTAMINANTS, NON-POTABLE WATER - EXTRACTABLE ORGANICS, NON-POTABLE WATER - GENERAL CHEMISTRY, NON-POTABLE WATER - METALS, NON-POTABLE WATER - MICROBIOLOGY, NON-POTABLE WATER - PESTICIDES-HERBICIDES-PCB'S, NON-POTABLE WATER - VOLATILE ORGANICS, SOLID AND CHEMICAL MATERIALS - EXTRACTABLE ORGANICS, SOLID AND CHEMICAL MATERIALS - GENERAL CHEMISTRY, SOLID AND CHEMICAL MATERIALS - METALS, SOLID AND CHEMICAL MATERIALS - PESTICIDES-HERBICIDES-PCB'S, SOLID AND CHEMICAL MATERIALS - VOLATILE ORGANICS

Continued certification is contingent upon successful on-going compliance with the NELAC Standards and FAC Rule 64E-1 regulations. Specific methods and analytes certified are cited on the Laboratory Scope of Accreditation for this laboratory and are on file at the Bureau of Public Health Laboratories, P. O. Box 210, Jacksonville, Florida 32231. Clients and customers are urged to verify with this agency the laboratory's certification status in Florida for particular methods and analytes.

Date Issued: July 01, 2014 Expiration Date: June 30, 2015

William H. Anderson, DHA, FACHE, Director
Division of Emergency Preparedness and Community Support
DH Form 1697, 7/04
NON-TRANSFERABLE E87582-24-07/01/2014
Supersedes all previously issued certificates

AES

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

October 16, 2014

Rick Rudolph
Sailors Engineering Associates
1675 Spectrum Drive
Lawrenceville GA 30043

TEL: (770) 962-5922
FAX: (770) 962-7964

RE: Spalding Crnrs S/C

Dear Rick Rudolph: Order No: 1410658

Analytical Environmental Services, Inc. received 5 samples on 10/7/2014 6:15:00 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.

Dorothy deBruyn
Project Manager

3080 Presidential Drive • Atlanta, Georgia 30340 • Tel: 770.457.8177 • Fax: 770.457.8188 • Toll Free: 800.972.4889
www.aesatlanta.com

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: 1410658

Date: 10/7/14 Page 1 of 1

COMPANY:	ADDRESS:
Sailors Eng. Assoc.	1675 Spectrum Dr Lawrenceville, GA 30043
PHONE: 770-962-5922	FAX:
SAMPLED BY: Michael Short	SIGNATURE:

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	VOC 8260B	MEE	Total Iron	Chloride, Sulfate	Nitrate, Nitrite	Ferrous Iron	Sulfide	TOC	REMARKS	No # of Containers
	PRESERVATION (See codes)															
1	Trip Blank	10/7				W	/									2
2	MW-14S	10/7	8:55	/		GW	/	/	/	/	/	/	/	/		8
3	MW-13S	10/7	10:44	/		GW	/									2
4	MW-15S	10/7	14:04	/		GW	/	/	/	/	/	/	/	/		8
5	MW-16S	10/7	17:08	/		GW	/	/	/	/	/	/	/	/		8
6																
7																
8																
9																
10																
11																
12																
13																
14																

Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
1:	10/7/14 18:15	1:	10/7/14 6:15
2:		2:	
3:		3:	

PROJECT INFORMATION

PROJECT NAME: Spalding Corners S/C
PROJECT #: 102-863
SITE ADDRESS: 7720 Spalding Dr Doraville
SEND REPORT TO: Mike Hatler
INVOICE TO: (IF DIFFERENT FROM ABOVE)
QUOTE #: PO#:

RECEIPT

Total # of Containers: 28

Turnaround Time Request
- ● Standard 5 Business Days
- ○ 2 Business Day Rush
- ○ Next Business Day Rush
- ○ Same Day Rush (auth req.)
- ○ Other

STATE PROGRAM (if any):
E-mail? Y / N; Fax? Y / N
DATA PACKAGE: I II III IV

SPECIAL INSTRUCTIONS/COMMENTS: Short Hold Time

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

White Copy - Original; Yellow Copy - Client

Analytical Environmental Services, Inc **Date:** 16-Oct-14

Client:	Sailors Engineering Associates	**Client Sample ID:**	TRIP BLANK
Project Name:	Spalding Crnrs S/C	**Collection Date:**	10/7/2014
Lab ID:	1410658-001	**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	197550	1	10/10/2014 18:09	GC
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	197550	1	10/10/2014 18:09	GC
1,1,2-Trichloroethane	BRL	5.0		ug/L	197550	1	10/10/2014 18:09	GC
1,1-Dichloroethane	BRL	5.0		ug/L	197550	1	10/10/2014 18:09	GC
1,1-Dichloroethene	BRL	5.0		ug/L	197550	1	10/10/2014 18:09	GC
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	197550	1	10/10/2014 18:09	GC
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	197550	1	10/10/2014 18:09	GC
1,2-Dibromoethane	BRL	5.0		ug/L	197550	1	10/10/2014 18:09	GC
1,2-Dichlorobenzene	BRL	5.0		ug/L	197550	1	10/10/2014 18:09	GC
1,2-Dichloroethane	BRL	5.0		ug/L	197550	1	10/10/2014 18:09	GC
1,2-Dichloropropane	BRL	5.0		ug/L	197550	1	10/10/2014 18:09	GC
1,3-Dichlorobenzene	BRL	5.0		ug/L	197550	1	10/10/2014 18:09	GC
1,4-Dichlorobenzene	BRL	5.0		ug/L	197550	1	10/10/2014 18:09	GC
2-Butanone	BRL	50		ug/L	197550	1	10/10/2014 18:09	GC
2-Hexanone	BRL	10		ug/L	197550	1	10/10/2014 18:09	GC
4-Methyl-2-pentanone	BRL	10		ug/L	197550	1	10/10/2014 18:09	GC
Acetone	BRL	50		ug/L	197550	1	10/10/2014 18:09	GC
Benzene	BRL	5.0		ug/L	197550	1	10/10/2014 18:09	GC
Bromodichloromethane	BRL	5.0		ug/L	197550	1	10/10/2014 18:09	GC
Bromoform	BRL	5.0		ug/L	197550	1	10/10/2014 18:09	GC
Bromomethane	BRL	5.0		ug/L	197550	1	10/10/2014 18:09	GC
Carbon disulfide	BRL	5.0		ug/L	197550	1	10/10/2014 18:09	GC
Carbon tetrachloride	BRL	5.0		ug/L	197550	1	10/10/2014 18:09	GC
Chlorobenzene	BRL	5.0		ug/L	197550	1	10/10/2014 18:09	GC
Chloroethane	BRL	10		ug/L	197550	1	10/10/2014 18:09	GC
Chloroform	BRL	5.0		ug/L	197550	1	10/10/2014 18:09	GC
Chloromethane	BRL	10		ug/L	197550	1	10/10/2014 18:09	GC
cis-1,2-Dichloroethene	BRL	1.0		ug/L	197550	1	10/10/2014 18:09	GC
cis-1,3-Dichloropropene	BRL	5.0		ug/L	197550	1	10/10/2014 18:09	GC
Cyclohexane	BRL	5.0		ug/L	197550	1	10/10/2014 18:09	GC
Dibromochloromethane	BRL	5.0		ug/L	197550	1	10/10/2014 18:09	GC
Dichlorodifluoromethane	BRL	10		ug/L	197550	1	10/10/2014 18:09	GC
Ethylbenzene	BRL	5.0		ug/L	197550	1	10/10/2014 18:09	GC
Freon-113	BRL	10		ug/L	197550	1	10/10/2014 18:09	GC
Isopropylbenzene	BRL	5.0		ug/L	197550	1	10/10/2014 18:09	GC
m,p-Xylene	BRL	5.0		ug/L	197550	1	10/10/2014 18:09	GC
Methyl acetate	BRL	5.0		ug/L	197550	1	10/10/2014 18:09	GC
Methyl tert-butyl ether	BRL	5.0		ug/L	197550	1	10/10/2014 18:09	GC
Methylcyclohexane	BRL	5.0		ug/L	197550	1	10/10/2014 18:09	GC
Methylene chloride	BRL	5.0		ug/L	197550	1	10/10/2014 18:09	GC
o-Xylene	BRL	5.0		ug/L	197550	1	10/10/2014 18:09	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:** 16-Oct-14

Client:	Sailors Engineering Associates	**Client Sample ID:**	TRIP BLANK
Project Name:	Spalding Crnrs S/C	**Collection Date:**	10/7/2014
Lab ID:	1410658-001	**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	197550	1	10/10/2014 18:09	GC
Tetrachloroethene	BRL	1.0		ug/L	197550	1	10/10/2014 18:09	GC
Toluene	BRL	5.0		ug/L	197550	1	10/10/2014 18:09	GC
trans-1,2-Dichloroethene	BRL	1.0		ug/L	197550	1	10/10/2014 18:09	GC
trans-1,3-Dichloropropene	BRL	5.0		ug/L	197550	1	10/10/2014 18:09	GC
Trichloroethene	BRL	1.0		ug/L	197550	1	10/10/2014 18:09	GC
Trichlorofluoromethane	BRL	5.0		ug/L	197550	1	10/10/2014 18:09	GC
Vinyl chloride	BRL	1.0		ug/L	197550	1	10/10/2014 18:09	GC
Surr: 4-Bromofluorobenzene	96.4	66.2-120		%REC	197550	1	10/10/2014 18:09	GC
Surr: Dibromofluoromethane	105	79.5-121		%REC	197550	1	10/10/2014 18:09	GC
Surr: Toluene-d8	93.7	77-117		%REC	197550	1	10/10/2014 18:09	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:** 16-Oct-14

Client:	Sailors Engineering Associates	**Client Sample ID:**	MW-14S
Project Name:	Spalding Crnrs S/C	**Collection Date:**	10/7/2014 8:55:00 AM
Lab ID:	1410658-002	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) SW9060A								
Organic Carbon, Total	1.99	1.00		mg/L	R277523	1	10/09/2014 16:49	JM
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	197550	1	10/10/2014 23:16	GC
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	197550	1	10/10/2014 23:16	GC
1,1,2-Trichloroethane	BRL	5.0		ug/L	197550	1	10/10/2014 23:16	GC
1,1-Dichloroethane	BRL	5.0		ug/L	197550	1	10/10/2014 23:16	GC
1,1-Dichloroethene	BRL	5.0		ug/L	197550	1	10/10/2014 23:16	GC
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	197550	1	10/10/2014 23:16	GC
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	197550	1	10/10/2014 23:16	GC
1,2-Dibromoethane	BRL	5.0		ug/L	197550	1	10/10/2014 23:16	GC
1,2-Dichlorobenzene	BRL	5.0		ug/L	197550	1	10/10/2014 23:16	GC
1,2-Dichloroethane	BRL	5.0		ug/L	197550	1	10/10/2014 23:16	GC
1,2-Dichloropropane	BRL	5.0		ug/L	197550	1	10/10/2014 23:16	GC
1,3-Dichlorobenzene	BRL	5.0		ug/L	197550	1	10/10/2014 23:16	GC
1,4-Dichlorobenzene	BRL	5.0		ug/L	197550	1	10/10/2014 23:16	GC
2-Butanone	BRL	50		ug/L	197550	1	10/10/2014 23:16	GC
2-Hexanone	BRL	10		ug/L	197550	1	10/10/2014 23:16	GC
4-Methyl-2-pentanone	BRL	10		ug/L	197550	1	10/10/2014 23:16	GC
Acetone	BRL	50		ug/L	197550	1	10/10/2014 23:16	GC
Benzene	BRL	5.0		ug/L	197550	1	10/10/2014 23:16	GC
Bromodichloromethane	BRL	5.0		ug/L	197550	1	10/10/2014 23:16	GC
Bromoform	BRL	5.0		ug/L	197550	1	10/10/2014 23:16	GC
Bromomethane	BRL	5.0		ug/L	197550	1	10/10/2014 23:16	GC
Carbon disulfide	BRL	5.0		ug/L	197550	1	10/10/2014 23:16	GC
Carbon tetrachloride	BRL	5.0		ug/L	197550	1	10/10/2014 23:16	GC
Chlorobenzene	BRL	5.0		ug/L	197550	1	10/10/2014 23:16	GC
Chloroethane	BRL	10		ug/L	197550	1	10/10/2014 23:16	GC
Chloroform	BRL	5.0		ug/L	197550	1	10/10/2014 23:16	GC
Chloromethane	BRL	10		ug/L	197550	1	10/10/2014 23:16	GC
cis-1,2-Dichloroethene	BRL	1.0		ug/L	197550	1	10/10/2014 23:16	GC
cis-1,3-Dichloropropene	BRL	5.0		ug/L	197550	1	10/10/2014 23:16	GC
Cyclohexane	BRL	5.0		ug/L	197550	1	10/10/2014 23:16	GC
Dibromochloromethane	BRL	5.0		ug/L	197550	1	10/10/2014 23:16	GC
Dichlorodifluoromethane	BRL	10		ug/L	197550	1	10/10/2014 23:16	GC
Ethylbenzene	BRL	5.0		ug/L	197550	1	10/10/2014 23:16	GC
Freon-113	BRL	10		ug/L	197550	1	10/10/2014 23:16	GC
Isopropylbenzene	BRL	5.0		ug/L	197550	1	10/10/2014 23:16	GC
m,p-Xylene	BRL	5.0		ug/L	197550	1	10/10/2014 23:16	GC
Methyl acetate	BRL	5.0		ug/L	197550	1	10/10/2014 23:16	GC
Methyl tert-butyl ether	BRL	5.0		ug/L	197550	1	10/10/2014 23:16	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:** 16-Oct-14

Client:	Sailors Engineering Associates	**Client Sample ID:**	MW-14S
Project Name:	Spalding Crnrs S/C	**Collection Date:**	10/7/2014 8:55:00 AM
Lab ID:	1410658-002	**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	10/10/2014 23:16	GC
Methylene chloride	BRL	5.0		ug/L	197550	1	10/10/2014 23:16	GC
o-Xylene	BRL	5.0		ug/L	197550	1	10/10/2014 23:16	GC
Styrene	BRL	5.0		ug/L	197550	1	10/10/2014 23:16	GC
Tetrachloroethene	6.8	1.0		ug/L	197550	1	10/10/2014 23:16	GC
Toluene	BRL	5.0		ug/L	197550	1	10/10/2014 23:16	GC
trans-1,2-Dichloroethene	BRL	1.0		ug/L	197550	1	10/10/2014 23:16	GC
trans-1,3-Dichloropropene	BRL	5.0		ug/L	197550	1	10/10/2014 23:16	GC
Trichloroethene	BRL	1.0		ug/L	197550	1	10/10/2014 23:16	GC
Trichlorofluoromethane	BRL	5.0		ug/L	197550	1	10/10/2014 23:16	GC
Vinyl chloride	BRL	1.0		ug/L	197550	1	10/10/2014 23:16	GC
Surr: 4-Bromofluorobenzene	90.7	66.2-120		%REC	197550	1	10/10/2014 23:16	GC
Surr: Dibromofluoromethane	104	79.5-121		%REC	197550	1	10/10/2014 23:16	GC
Surr: Toluene-d8	97.6	77-117		%REC	197550	1	10/10/2014 23:16	GC
Sulfide by SW9030B/9034				**(SW9030B)**				
Sulfide	BRL	2.00		mg/L	197576	1	10/13/2014 12:30	AB
ION SCAN SW9056A								
Chloride	4.4	1.0		mg/L	R277601	1	10/08/2014 11:33	YS
Nitrate	2.6	0.25		mg/L	R277601	1	10/08/2014 11:33	YS
Nitrite	BRL	0.25		mg/L	R277601	1	10/08/2014 11:33	YS
Sulfate	1.3	1.0		mg/L	R277601	1	10/08/2014 11:33	YS
GC Analysis of Gaseous Samples SOP-RSK 175				**(RSK175)**				
Ethane	BRL	9		ug/L	197401	1	10/09/2014 16:27	SH
Ethylene	BRL	7		ug/L	197401	1	10/09/2014 16:27	SH
Methane	BRL	4		ug/L	197401	1	10/09/2014 16:27	SH
Ferrous Iron SM3500-Fe-B								
Iron, as Ferric (Fe+3)	0.454	0.100		mg/L	R277615	1	10/08/2014 08:50	AB
Iron, as Ferrous (Fe+2)	BRL	0.100		mg/L	R277615	1	10/08/2014 08:50	AB
METALS, TOTAL SW6010C				**(SW3010A)**				
Iron	0.454	0.100		mg/L	197391	1	10/13/2014 00:40	TA

Qualifiers:

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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:** 16-Oct-14

Client:	Sailors Engineering Associates	**Client Sample ID:**	MW-13S
Project Name:	Spalding Crnrs S/C	**Collection Date:**	10/7/2014 10:44:00 AM
Lab ID:	1410658-003	**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	197550	1	10/10/2014 23:44	GC
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	197550	1	10/10/2014 23:44	GC
1,1,2-Trichloroethane	BRL	5.0		ug/L	197550	1	10/10/2014 23:44	GC
1,1-Dichloroethane	BRL	5.0		ug/L	197550	1	10/10/2014 23:44	GC
1,1-Dichloroethene	BRL	5.0		ug/L	197550	1	10/10/2014 23:44	GC
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	197550	1	10/10/2014 23:44	GC
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	197550	1	10/10/2014 23:44	GC
1,2-Dibromoethane	BRL	5.0		ug/L	197550	1	10/10/2014 23:44	GC
1,2-Dichlorobenzene	BRL	5.0		ug/L	197550	1	10/10/2014 23:44	GC
1,2-Dichloroethane	BRL	5.0		ug/L	197550	1	10/10/2014 23:44	GC
1,2-Dichloropropane	BRL	5.0		ug/L	197550	1	10/10/2014 23:44	GC
1,3-Dichlorobenzene	BRL	5.0		ug/L	197550	1	10/10/2014 23:44	GC
1,4-Dichlorobenzene	BRL	5.0		ug/L	197550	1	10/10/2014 23:44	GC
2-Butanone	BRL	50		ug/L	197550	1	10/10/2014 23:44	GC
2-Hexanone	BRL	10		ug/L	197550	1	10/10/2014 23:44	GC
4-Methyl-2-pentanone	BRL	10		ug/L	197550	1	10/10/2014 23:44	GC
Acetone	BRL	50		ug/L	197550	1	10/10/2014 23:44	GC
Benzene	BRL	5.0		ug/L	197550	1	10/10/2014 23:44	GC
Bromodichloromethane	BRL	5.0		ug/L	197550	1	10/10/2014 23:44	GC
Bromoform	BRL	5.0		ug/L	197550	1	10/10/2014 23:44	GC
Bromomethane	BRL	5.0		ug/L	197550	1	10/10/2014 23:44	GC
Carbon disulfide	BRL	5.0		ug/L	197550	1	10/10/2014 23:44	GC
Carbon tetrachloride	BRL	5.0		ug/L	197550	1	10/10/2014 23:44	GC
Chlorobenzene	BRL	5.0		ug/L	197550	1	10/10/2014 23:44	GC
Chloroethane	BRL	10		ug/L	197550	1	10/10/2014 23:44	GC
Chloroform	BRL	5.0		ug/L	197550	1	10/10/2014 23:44	GC
Chloromethane	BRL	10		ug/L	197550	1	10/10/2014 23:44	GC
cis-1,2-Dichloroethene	BRL	1.0		ug/L	197550	1	10/10/2014 23:44	GC
cis-1,3-Dichloropropene	BRL	5.0		ug/L	197550	1	10/10/2014 23:44	GC
Cyclohexane	BRL	5.0		ug/L	197550	1	10/10/2014 23:44	GC
Dibromochloromethane	BRL	5.0		ug/L	197550	1	10/10/2014 23:44	GC
Dichlorodifluoromethane	BRL	10		ug/L	197550	1	10/10/2014 23:44	GC
Ethylbenzene	BRL	5.0		ug/L	197550	1	10/10/2014 23:44	GC
Freon-113	BRL	10		ug/L	197550	1	10/10/2014 23:44	GC
Isopropylbenzene	BRL	5.0		ug/L	197550	1	10/10/2014 23:44	GC
m,p-Xylene	BRL	5.0		ug/L	197550	1	10/10/2014 23:44	GC
Methyl acetate	BRL	5.0		ug/L	197550	1	10/10/2014 23:44	GC
Methyl tert-butyl ether	BRL	5.0		ug/L	197550	1	10/10/2014 23:44	GC
Methylcyclohexane	BRL	5.0		ug/L	197550	1	10/10/2014 23:44	GC
Methylene chloride	BRL	5.0		ug/L	197550	1	10/10/2014 23:44	GC
o-Xylene	BRL	5.0		ug/L	197550	1	10/10/2014 23:44	GC

Qualifiers:

- * Value exceeds maximum contaminant level
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- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 16-Oct-14

Client:	Sailors Engineering Associates	**Client Sample ID:**	MW-13S
Project Name:	Spalding Crnrs S/C	**Collection Date:**	10/7/2014 10:44:00 AM
Lab ID:	1410658-003	**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	197550	1	10/10/2014 23:44	GC
Tetrachloroethene	1.9	1.0		ug/L	197550	1	10/10/2014 23:44	GC
Toluene	BRL	5.0		ug/L	197550	1	10/10/2014 23:44	GC
trans-1,2-Dichloroethene	BRL	1.0		ug/L	197550	1	10/10/2014 23:44	GC
trans-1,3-Dichloropropene	BRL	5.0		ug/L	197550	1	10/10/2014 23:44	GC
Trichloroethene	BRL	1.0		ug/L	197550	1	10/10/2014 23:44	GC
Trichlorofluoromethane	BRL	5.0		ug/L	197550	1	10/10/2014 23:44	GC
Vinyl chloride	BRL	1.0		ug/L	197550	1	10/10/2014 23:44	GC
Surr: 4-Bromofluorobenzene	91.9	66.2-120		%REC	197550	1	10/10/2014 23:44	GC
Surr: Dibromofluoromethane	108	79.5-121		%REC	197550	1	10/10/2014 23:44	GC
Surr: Toluene-d8	103	77-117		%REC	197550	1	10/10/2014 23:44	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:** 16-Oct-14

Client:	Sailors Engineering Associates	**Client Sample ID:**	MW-15S
Project Name:	Spalding Crnrs S/C	**Collection Date:**	10/7/2014 2:04:00 PM
Lab ID:	1410658-004	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) SW9060A								
Organic Carbon, Total	1.00	1.00		mg/L	R277523	1	10/09/2014 17:09	JM
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	197550	1	10/11/2014 00:12	GC
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	197550	1	10/11/2014 00:12	GC
1,1,2-Trichloroethane	BRL	5.0		ug/L	197550	1	10/11/2014 00:12	GC
1,1-Dichloroethane	BRL	5.0		ug/L	197550	1	10/11/2014 00:12	GC
1,1-Dichloroethene	BRL	5.0		ug/L	197550	1	10/11/2014 00:12	GC
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	197550	1	10/11/2014 00:12	GC
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	197550	1	10/11/2014 00:12	GC
1,2-Dibromoethane	BRL	5.0		ug/L	197550	1	10/11/2014 00:12	GC
1,2-Dichlorobenzene	BRL	5.0		ug/L	197550	1	10/11/2014 00:12	GC
1,2-Dichloroethane	BRL	5.0		ug/L	197550	1	10/11/2014 00:12	GC
1,2-Dichloropropane	BRL	5.0		ug/L	197550	1	10/11/2014 00:12	GC
1,3-Dichlorobenzene	BRL	5.0		ug/L	197550	1	10/11/2014 00:12	GC
1,4-Dichlorobenzene	BRL	5.0		ug/L	197550	1	10/11/2014 00:12	GC
2-Butanone	BRL	50		ug/L	197550	1	10/11/2014 00:12	GC
2-Hexanone	BRL	10		ug/L	197550	1	10/11/2014 00:12	GC
4-Methyl-2-pentanone	BRL	10		ug/L	197550	1	10/11/2014 00:12	GC
Acetone	BRL	50		ug/L	197550	1	10/11/2014 00:12	GC
Benzene	BRL	5.0		ug/L	197550	1	10/11/2014 00:12	GC
Bromodichloromethane	BRL	5.0		ug/L	197550	1	10/11/2014 00:12	GC
Bromoform	BRL	5.0		ug/L	197550	1	10/11/2014 00:12	GC
Bromomethane	BRL	5.0		ug/L	197550	1	10/11/2014 00:12	GC
Carbon disulfide	BRL	5.0		ug/L	197550	1	10/11/2014 00:12	GC
Carbon tetrachloride	BRL	5.0		ug/L	197550	1	10/11/2014 00:12	GC
Chlorobenzene	BRL	5.0		ug/L	197550	1	10/11/2014 00:12	GC
Chloroethane	BRL	10		ug/L	197550	1	10/11/2014 00:12	GC
Chloroform	5.4	5.0		ug/L	197550	1	10/11/2014 00:12	GC
Chloromethane	BRL	10		ug/L	197550	1	10/11/2014 00:12	GC
cis-1,2-Dichloroethene	BRL	1.0		ug/L	197550	1	10/11/2014 00:12	GC
cis-1,3-Dichloropropene	BRL	5.0		ug/L	197550	1	10/11/2014 00:12	GC
Cyclohexane	BRL	5.0		ug/L	197550	1	10/11/2014 00:12	GC
Dibromochloromethane	BRL	5.0		ug/L	197550	1	10/11/2014 00:12	GC
Dichlorodifluoromethane	BRL	10		ug/L	197550	1	10/11/2014 00:12	GC
Ethylbenzene	BRL	5.0		ug/L	197550	1	10/11/2014 00:12	GC
Freon-113	BRL	10		ug/L	197550	1	10/11/2014 00:12	GC
Isopropylbenzene	BRL	5.0		ug/L	197550	1	10/11/2014 00:12	GC
m,p-Xylene	BRL	5.0		ug/L	197550	1	10/11/2014 00:12	GC
Methyl acetate	BRL	5.0		ug/L	197550	1	10/11/2014 00:12	GC
Methyl tert-butyl ether	BRL	5.0		ug/L	197550	1	10/11/2014 00:12	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:** 16-Oct-14

Client:	Sailors Engineering Associates	**Client Sample ID:**	MW-15S
Project Name:	Spalding Crnrs S/C	**Collection Date:**	10/7/2014 2:04:00 PM
Lab ID:	1410658-004	**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 00:12	GC
Methylene chloride	BRL	5.0		ug/L	197550	1	10/11/2014 00:12	GC
o-Xylene	BRL	5.0		ug/L	197550	1	10/11/2014 00:12	GC
Styrene	BRL	5.0		ug/L	197550	1	10/11/2014 00:12	GC
Tetrachloroethene	200	10		ug/L	197550	10	10/13/2014 18:19	GC
Toluene	BRL	5.0		ug/L	197550	1	10/11/2014 00:12	GC
trans-1,2-Dichloroethene	BRL	1.0		ug/L	197550	1	10/11/2014 00:12	GC
trans-1,3-Dichloropropene	BRL	5.0		ug/L	197550	1	10/11/2014 00:12	GC
Trichloroethene	1.9	1.0		ug/L	197550	1	10/11/2014 00:12	GC
Trichlorofluoromethane	BRL	5.0		ug/L	197550	1	10/11/2014 00:12	GC
Vinyl chloride	BRL	1.0		ug/L	197550	1	10/11/2014 00:12	GC
Surr: 4-Bromofluorobenzene	80.4	66.2-120		%REC	197550	10	10/13/2014 18:19	GC
Surr: 4-Bromofluorobenzene	91.7	66.2-120		%REC	197550	1	10/11/2014 00:12	GC
Surr: Dibromofluoromethane	109	79.5-121		%REC	197550	10	10/13/2014 18:19	GC
Surr: Dibromofluoromethane	111	79.5-121		%REC	197550	1	10/11/2014 00:12	GC
Surr: Toluene-d8	97.1	77-117		%REC	197550	10	10/13/2014 18:19	GC
Surr: Toluene-d8	98.4	77-117		%REC	197550	1	10/11/2014 00:12	GC
Sulfide by SW9030B/9034				**(SW9030B)**				
Sulfide	BRL	2.00		mg/L	197576	1	10/13/2014 12:30	AB
ION SCAN SW9056A								
Chloride	5.7	1.0		mg/L	R277601	1	10/08/2014 11:48	YS
Nitrate	3.3	0.25		mg/L	R277601	1	10/08/2014 11:48	YS
Nitrite	BRL	0.25		mg/L	R277601	1	10/08/2014 11:48	YS
Sulfate	BRL	1.0		mg/L	R277601	1	10/08/2014 11:48	YS
GC Analysis of Gaseous Samples SOP-RSK 175				**(RSK175)**				
Ethane	BRL	9		ug/L	197401	1	10/09/2014 16:37	SH
Ethylene	BRL	7		ug/L	197401	1	10/09/2014 16:37	SH
Methane	BRL	4		ug/L	197401	1	10/09/2014 16:37	SH
Ferrous Iron SM3500-Fe-B								
Iron, as Ferric (Fe+3)	0.150	0.100		mg/L	R277615	1	10/08/2014 08:50	AB
Iron, as Ferrous (Fe+2)	BRL	0.100		mg/L	R277615	1	10/08/2014 08:50	AB
METALS, TOTAL SW6010C				**(SW3010A)**				
Iron	0.150	0.100		mg/L	197391	1	10/14/2014 16:00	TA

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:** 16-Oct-14

Client:	Sailors Engineering Associates	**Client Sample ID:**	MW-16S
Project Name:	Spalding Crnrs S/C	**Collection Date:**	10/7/2014 5:08:00 PM
Lab ID:	1410658-005	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) SW9060A								
Organic Carbon, Total	1.05	1.00		mg/L	R277523	1	10/09/2014 17:29	JM
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	197550	1	10/11/2014 00:39	GC
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	197550	1	10/11/2014 00:39	GC
1,1,2-Trichloroethane	BRL	5.0		ug/L	197550	1	10/11/2014 00:39	GC
1,1-Dichloroethane	BRL	5.0		ug/L	197550	1	10/11/2014 00:39	GC
1,1-Dichloroethene	BRL	5.0		ug/L	197550	1	10/11/2014 00:39	GC
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	197550	1	10/11/2014 00:39	GC
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	197550	1	10/11/2014 00:39	GC
1,2-Dibromoethane	BRL	5.0		ug/L	197550	1	10/11/2014 00:39	GC
1,2-Dichlorobenzene	BRL	5.0		ug/L	197550	1	10/11/2014 00:39	GC
1,2-Dichloroethane	BRL	5.0		ug/L	197550	1	10/11/2014 00:39	GC
1,2-Dichloropropane	BRL	5.0		ug/L	197550	1	10/11/2014 00:39	GC
1,3-Dichlorobenzene	BRL	5.0		ug/L	197550	1	10/11/2014 00:39	GC
1,4-Dichlorobenzene	BRL	5.0		ug/L	197550	1	10/11/2014 00:39	GC
2-Butanone	BRL	50		ug/L	197550	1	10/11/2014 00:39	GC
2-Hexanone	BRL	10		ug/L	197550	1	10/11/2014 00:39	GC
4-Methyl-2-pentanone	BRL	10		ug/L	197550	1	10/11/2014 00:39	GC
Acetone	BRL	50		ug/L	197550	1	10/11/2014 00:39	GC
Benzene	BRL	5.0		ug/L	197550	1	10/11/2014 00:39	GC
Bromodichloromethane	BRL	5.0		ug/L	197550	1	10/11/2014 00:39	GC
Bromoform	BRL	5.0		ug/L	197550	1	10/11/2014 00:39	GC
Bromomethane	BRL	5.0		ug/L	197550	1	10/11/2014 00:39	GC
Carbon disulfide	BRL	5.0		ug/L	197550	1	10/11/2014 00:39	GC
Carbon tetrachloride	BRL	5.0		ug/L	197550	1	10/11/2014 00:39	GC
Chlorobenzene	BRL	5.0		ug/L	197550	1	10/11/2014 00:39	GC
Chloroethane	BRL	10		ug/L	197550	1	10/11/2014 00:39	GC
Chloroform	5.4	5.0		ug/L	197550	1	10/11/2014 00:39	GC
Chloromethane	BRL	10		ug/L	197550	1	10/11/2014 00:39	GC
cis-1,2-Dichloroethene	BRL	1.0		ug/L	197550	1	10/11/2014 00:39	GC
cis-1,3-Dichloropropene	BRL	5.0		ug/L	197550	1	10/11/2014 00:39	GC
Cyclohexane	BRL	5.0		ug/L	197550	1	10/11/2014 00:39	GC
Dibromochloromethane	BRL	5.0		ug/L	197550	1	10/11/2014 00:39	GC
Dichlorodifluoromethane	BRL	10		ug/L	197550	1	10/11/2014 00:39	GC
Ethylbenzene	BRL	5.0		ug/L	197550	1	10/11/2014 00:39	GC
Freon-113	BRL	10		ug/L	197550	1	10/11/2014 00:39	GC
Isopropylbenzene	BRL	5.0		ug/L	197550	1	10/11/2014 00:39	GC
m,p-Xylene	BRL	5.0		ug/L	197550	1	10/11/2014 00:39	GC
Methyl acetate	BRL	5.0		ug/L	197550	1	10/11/2014 00:39	GC
Methyl tert-butyl ether	BRL	5.0		ug/L	197550	1	10/11/2014 00:39	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:** 16-Oct-14

Client:	Sailors Engineering Associates	**Client Sample ID:**	MW-16S
Project Name:	Spalding Crnrs S/C	**Collection Date:**	10/7/2014 5:08:00 PM
Lab ID:	1410658-005	**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	197550	1	10/11/2014 00:39	GC
Methylene chloride	BRL	5.0		ug/L	197550	1	10/11/2014 00:39	GC
o-Xylene	BRL	5.0		ug/L	197550	1	10/11/2014 00:39	GC
Styrene	BRL	5.0		ug/L	197550	1	10/11/2014 00:39	GC
Tetrachloroethene	280	10		ug/L	197550	10	10/13/2014 18:47	GC
Toluene	BRL	5.0		ug/L	197550	1	10/11/2014 00:39	GC
trans-1,2-Dichloroethene	BRL	1.0		ug/L	197550	1	10/11/2014 00:39	GC
trans-1,3-Dichloropropene	BRL	5.0		ug/L	197550	1	10/11/2014 00:39	GC
Trichloroethene	2.4	1.0		ug/L	197550	1	10/11/2014 00:39	GC
Trichlorofluoromethane	BRL	5.0		ug/L	197550	1	10/11/2014 00:39	GC
Vinyl chloride	BRL	1.0		ug/L	197550	1	10/11/2014 00:39	GC
Surr: 4-Bromofluorobenzene	83.7	66.2-120		%REC	197550	10	10/13/2014 18:47	GC
Surr: 4-Bromofluorobenzene	90.4	66.2-120		%REC	197550	1	10/11/2014 00:39	GC
Surr: Dibromofluoromethane	108	79.5-121		%REC	197550	10	10/13/2014 18:47	GC
Surr: Dibromofluoromethane	111	79.5-121		%REC	197550	1	10/11/2014 00:39	GC
Surr: Toluene-d8	94.4	77-117		%REC	197550	10	10/13/2014 18:47	GC
Surr: Toluene-d8	99.2	77-117		%REC	197550	1	10/11/2014 00:39	GC
Sulfide by SW9030B/9034				**(SW9030B)**				
Sulfide	BRL	2.00		mg/L	197576	1	10/13/2014 12:30	AB
ION SCAN SW9056A								
Chloride	6.5	1.0		mg/L	R277601	1	10/08/2014 12:03	YS
Nitrate	2.6	0.25		mg/L	R277601	1	10/08/2014 12:03	YS
Nitrite	BRL	0.25		mg/L	R277601	1	10/08/2014 12:03	YS
Sulfate	9.0	1.0		mg/L	R277601	1	10/08/2014 12:03	YS
GC Analysis of Gaseous Samples SOP-RSK 175				**(RSK175)**				
Ethane	BRL	9		ug/L	197401	1	10/09/2014 16:41	SH
Ethylene	BRL	7		ug/L	197401	1	10/09/2014 16:41	SH
Methane	BRL	4		ug/L	197401	1	10/09/2014 16:41	SH
Ferrous Iron SM3500-Fe-B								
Iron, as Ferric (Fe+3)	0.382	0.100		mg/L	R277615	1	10/08/2014 08:50	AB
Iron, as Ferrous (Fe+2)	BRL	0.100		mg/L	R277615	1	10/08/2014 08:50	AB
METALS, TOTAL SW6010C				**(SW3010A)**				
Iron	0.382	0.100		mg/L	197391	1	10/13/2014 00:20	TA

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.

Sample/Cooler Receipt Checklist

Client SEA Work Order Number 1410658

Checklist completed by [signature] 10/7/14
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 3.1° 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 MJ

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.

\\Aes_server\I\Sample Receipt\My Documents\COCs and pH Adjustment Sheet\Sample_Cooler_Recipt_Checklist_Rev1.rtf

Client: Sailors Engineering Associates
Project Name: Spalding Crnrs S/C
Workorder: 1410658

ANALYTICAL QC SUMMARY REPORT

BatchID: 197391

Sample ID: **MB-197391**	Client ID:			Units: **mg/L**	Prep Date: **10/09/2014**	Run No: **277692**
SampleType: **MBLK**	TestCode: **METALS, TOTAL** **SW6010C**			BatchID: **197391**	Analysis Date: **10/12/2014**	Seq No: **5867936**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron	BRL	0.100									

Sample ID: **LCS-197391**	Client ID:			Units: **mg/L**	Prep Date: **10/09/2014**	Run No: **277692**
SampleType: **LCS**	TestCode: **METALS, TOTAL** **SW6010C**			BatchID: **197391**	Analysis Date: **10/13/2014**	Seq No: **5867939**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron	10.11	0.100	10.00		101	80	120				

Sample ID: **1410658-005BMS**	Client ID: **MW-16S**			Units: **mg/L**	Prep Date: **10/09/2014**	Run No: **277692**
SampleType: **MS**	TestCode: **METALS, TOTAL** **SW6010C**			BatchID: **197391**	Analysis Date: **10/13/2014**	Seq No: **5867941**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron	10.42	0.100	10.00	0.3818	100	75	125				

Sample ID: **1410658-005BMSD**	Client ID: **MW-16S**			Units: **mg/L**	Prep Date: **10/09/2014**	Run No: **277692**
SampleType: **MSD**	TestCode: **METALS, TOTAL** **SW6010C**			BatchID: **197391**	Analysis Date: **10/13/2014**	Seq No: **5867942**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron	10.28	0.100	10.00	0.3818	98.9	75	125	10.42	1.44	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: Sailors Engineering Associates
Project Name: Spalding Crnrs S/C
Workorder: 1410658

ANALYTICAL QC SUMMARY REPORT

BatchID: 197401

Sample ID: **MB-197401** Client ID: Units: **ug/L** Prep Date: **10/09/2014** Run No: **277503**
SampleType: **MBLK** TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175** BatchID: **197401** Analysis Date: **10/09/2014** Seq No: **5863108**

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-197401** Client ID: Units: **ug/L** Prep Date: **10/09/2014** Run No: **277503**
SampleType: **LCS** TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175** BatchID: **197401** Analysis Date: **10/09/2014** Seq No: **5863111**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Ethane	103.2	9	200.0		51.6	41.6	115				
Ethylene	72.01	7	200.0		36.0	26.9	115				
Methane	114.0	4	200.0		57.0	45.2	115				

Sample ID: **LCSD-197401** Client ID: Units: **ug/L** Prep Date: **10/09/2014** Run No: **277503**
SampleType: **LCSD** TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175** BatchID: **197401** Analysis Date: **10/09/2014** Seq No: **5863114**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Ethane	100.0	9	200.0		50.0	41.6	115	103.2	3.07	20	
Ethylene	69.89	7	200.0		34.9	26.9	115	72.01	2.99	20	
Methane	110.7	4	200.0		55.3	45.2	115	114.0	2.94	20	

Sample ID: **1410571-004BMS** Client ID: Units: **ug/L** Prep Date: **10/09/2014** Run No: **277503**
SampleType: **MS** TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175** BatchID: **197401** Analysis Date: **10/09/2014** Seq No: **5863142**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Ethane	115.0	9	200.0		57.5	40.1	115				
Ethylene	78.10	7	200.0		39.0	24.5	115				
Methane	126.6	4	200.0		63.3	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: Sailors Engineering Associates
Project Name: Spalding Crnrs S/C
Workorder: 1410658

ANALYTICAL QC SUMMARY REPORT

BatchID: 197401

Sample ID: **1410571-004BMSD** Client ID:
SampleType: **MSD** TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175**
Units: **ug/L** BatchID: **197401**
Prep Date: **10/09/2014** Analysis Date: **10/09/2014**
Run No: **277503** Seq No: **5863842**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Ethane	114.0	9	200.0		57.0	40.1	115	115.0	0.909	20	
Ethylene	77.49	7	200.0		38.7	24.5	115	78.10	0.784	20	
Methane	124.9	4	200.0		62.4	41.1	115	126.6	1.37	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: Sailors Engineering Associates
Project Name: Spalding Crnrs S/C
Workorder: 1410658

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: Sailors Engineering Associates
Project Name: Spalding Crnrs S/C
Workorder: 1410658

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: Sailors Engineering Associates
Project Name: Spalding Crnrs S/C
Workorder: 1410658

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: **MW-13S** 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: **MW-13S** 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: Sailors Engineering Associates
Project Name: Spalding Crnrs S/C
Workorder: 1410658

ANALYTICAL QC SUMMARY REPORT

BatchID: 197550

Sample ID: **1410658-003AMSD** Client ID: **MW-13S** 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: Sailors Engineering Associates
Project Name: Spalding Crnrs S/C
Workorder: 1410658

ANALYTICAL QC SUMMARY REPORT

BatchID: 197576

Sample ID: **MB-197576** Client ID: Units: **mg/L** Prep Date: **10/13/2014** Run No: **277719**
SampleType: **MBLK** TestCode: **Sulfide by SW9030B/9034** BatchID: **197576** Analysis Date: **10/13/2014** Seq No: **5868473**

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-197576** Client ID: Units: **mg/L** Prep Date: **10/13/2014** Run No: **277719**
SampleType: **LCS** TestCode: **Sulfide by SW9030B/9034** BatchID: **197576** Analysis Date: **10/13/2014** Seq No: **5868474**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfide	352.0	2.00	352.0		100	40	120				

Sample ID: **1410571-004EMS** Client ID: Units: **mg/L** Prep Date: **10/13/2014** Run No: **277719**
SampleType: **MS** TestCode: **Sulfide by SW9030B/9034** BatchID: **197576** Analysis Date: **10/13/2014** Seq No: **5868484**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfide	17.40	2.00	17.60		98.9	76.7	120				

Sample ID: **1410571-004EMSD** Client ID: Units: **mg/L** Prep Date: **10/13/2014** Run No: **277719**
SampleType: **MSD** TestCode: **Sulfide by SW9030B/9034** BatchID: **197576** Analysis Date: **10/13/2014** Seq No: **5868487**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfide	16.80	2.00	17.60		95.5	76.7	120	17.40	3.51	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: Sailors Engineering Associates
Project Name: Spalding Crnrs S/C
Workorder: 1410658

ANALYTICAL QC SUMMARY REPORT

BatchID: R277523

Sample ID: **MB-R277523** Client ID: Units: **mg/L** Prep Date: Run No: **277523**
SampleType: **MBLK** TestCode: **Total Organic Carbon (TOC) SW9060A** BatchID: **R277523** Analysis Date: **10/09/2014** Seq No: **5863723**

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-R277523** Client ID: Units: **mg/L** Prep Date: Run No: **277523**
SampleType: **LCS** TestCode: **Total Organic Carbon (TOC) SW9060A** BatchID: **R277523** Analysis Date: **10/09/2014** Seq No: **5863720**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Organic Carbon, Total	26.63	1.00	25.00		107	90	110				

Sample ID: **1410538-002CMS** Client ID: Units: **mg/L** Prep Date: Run No: **277523**
SampleType: **MS** TestCode: **Total Organic Carbon (TOC) SW9060A** BatchID: **R277523** Analysis Date: **10/09/2014** Seq No: **5863756**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Organic Carbon, Total	28.82	1.00	25.00	3.719	100	80	120				

Sample ID: **1410538-002CMSD** Client ID: Units: **mg/L** Prep Date: Run No: **277523**
SampleType: **MSD** TestCode: **Total Organic Carbon (TOC) SW9060A** BatchID: **R277523** Analysis Date: **10/09/2014** Seq No: **5863757**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Organic Carbon, Total	29.89	1.00	25.00	3.719	105	80	120	28.82	3.65	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: Sailors Engineering Associates
Project Name: Spalding Crnrs S/C
Workorder: 1410658

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									
Nitrite	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				
Nitrite	4.930	0.25	5.000		98.6	90	110				
Sulfate	27.33	1.0	25.00		109	90	110				

Sample ID: **1410658-002EMS** Client ID: **MW-14S** 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				
Nitrite	5.376	0.25	5.000		108	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				

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: Sailors Engineering Associates
Project Name: Spalding Crnrs S/C
Workorder: 1410658

ANALYTICAL QC SUMMARY REPORT

BatchID: R277601

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
Nitrate	4.761	0.25	5.000		95.2	90	110				
Nitrite	5.115	0.25	5.000	0.2323	97.7	90	110				
Sulfate	36.80	1.0	25.00	12.91	95.6	90	110				

Sample ID: **1410658-002EMSD** Client ID: **MW-14S** 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	
Nitrite	5.497	0.25	5.000		110	90	110	5.376	2.24	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: Sailors Engineering Associates
Project Name: Spalding Crnrs S/C
Workorder: 1410658

ANALYTICAL QC SUMMARY REPORT

BatchID: R277615

Sample ID: **MB-R277615** Client ID: Units: **mg/L** Prep Date: Run No: **277615**
SampleType: **MBLK** TestCode: **Ferrous Iron** **SM3500-Fe-B** BatchID: **R277615** Analysis Date: **10/07/2014** Seq No: **5865690**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron, as Ferrous (Fe+2)	BRL	0.100									

Sample ID: **LCS-R277615** Client ID: Units: **mg/L** Prep Date: Run No: **277615**
SampleType: **LCS** TestCode: **Ferrous Iron** **SM3500-Fe-B** BatchID: **R277615** Analysis Date: **10/07/2014** Seq No: **5865691**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron, as Ferrous (Fe+2)	0.5038	0.100	0.5000		101	85	115				

Sample ID: **1410571-004DMS** Client ID: Units: **mg/L** Prep Date: Run No: **277615**
SampleType: **MS** TestCode: **Ferrous Iron** **SM3500-Fe-B** BatchID: **R277615** Analysis Date: **10/07/2014** Seq No: **5865704**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron, as Ferrous (Fe+2)	0.5118	0.100	0.5000		102	80	120				

Sample ID: **1410571-004DMSD** Client ID: Units: **mg/L** Prep Date: Run No: **277615**
SampleType: **MSD** TestCode: **Ferrous Iron** **SM3500-Fe-B** BatchID: **R277615** Analysis Date: **10/07/2014** Seq No: **5865705**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron, as Ferrous (Fe+2)	0.4958	0.100	0.5000		99.2	80	120	0.5118	3.18	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		

AES

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

October 20, 2014

Rick Rudolph
Sailors Engineering Associates
1675 Spectrum Drive
Lawrenceville GA 30043

TEL: (770) 962-5922
FAX: (770) 962-7964

RE: Spalding Crnrs S/C

Dear Rick Rudolph: Order No: 1410929

Analytical Environmental Services, Inc. received 8 samples on 10/9/2014 5:32:00 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.

Dorothy deBruyn
Project Manager

3080 Presidential Drive • Atlanta, Georgia 30340 • Tel: 770.457.8177 • Fax: 770.457.8188 • Toll Free: 800.972.4889
www.aesatlanta.com

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: 1410929

Date: 10/9/14 Page 1 of 1

COMPANY: Sailors Eng Assoc.
ADDRESS: 1675 Spectrum Dr Lawrenceville, GA 30043
PHONE: 770-962-5922
FAX:
SAMPLED BY: Michael Short
SIGNATURE:

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	VOC	MEE	Total Iron	Chloride, Sulfate	Nitrate, Nitrite	Ferrous, Ferric	Sul Sulfide	TOC	REMARKS	No # of Containers
	PRESERVATION (See codes)															
1	Trip Blank	10/8				W	✓									2
2	MW-1D	10/8	12:04	✓		GW	✓									2
3	MW-10S	10/8	14:13	✓		GW	✓									2
4	MW-17S	10/8	16:19	✓		GW	✓									2
5	MW-18S	10/9	9:37	✓		GW	✓	✓	✓	✓	✓	✓	✓	✓		8
6	MW-19S	10/9	11:57	✓		GW	✓	✓	✓	✓	✓	✓	✓	✓		8
7	MW-20S	10/9	14:52	✓		GW	✓	✓	✓	✓	✓	✓	✓	✓		8
8	MW-6S	10/9	16:38	✓		GW	✓	✓	✓	✓	✓	✓	✓	✓		8
9																
10																
11																
12																
13																
14																

Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
1: Michael Short	10/9/14 17:32	1: NS	10/9/14 17:32
2:		2:	
3:		3:	

PROJECT INFORMATION
PROJECT NAME: Spalding Corners S/C
PROJECT #: 102-563
SITE ADDRESS: 7720 Spalding Dr Doraville GA
SEND REPORT TO: Rick Rebligh
INVOICE TO: (IF DIFFERENT FROM ABOVE)
QUOTE #: PO#:

RECEIPT
Total # of Containers: 40

Turnaround Time Request
- ✓ Standard 5 Business Days
- 2 Business Day Rush
- Next Business Day Rush
- Same Day Rush (auth req.)
- Other

STATE PROGRAM (if any):
E-mail? Y / N Fax? Y / N
DATA PACKAGE: I II III IV

SPECIAL INSTRUCTIONS/COMMENTS:
Short holding times

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

White Copy - Original; Yellow Copy - Client

Analytical Environmental Services, Inc **Date:** 20-Oct-14

Client:	Sailors Engineering Associates	**Client Sample ID:**	TRIP BLANK
Project Name:	Spalding Crnrs S/C	**Collection Date:**	10/8/2014
Lab ID:	1410929-001	**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	197537	1	10/12/2014 11:28	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	197537	1	10/12/2014 11:28	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	197537	1	10/12/2014 11:28	NP
1,1-Dichloroethane	BRL	5.0		ug/L	197537	1	10/12/2014 11:28	NP
1,1-Dichloroethene	BRL	5.0		ug/L	197537	1	10/12/2014 11:28	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	197537	1	10/12/2014 11:28	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	197537	1	10/12/2014 11:28	NP
1,2-Dibromoethane	BRL	5.0		ug/L	197537	1	10/12/2014 11:28	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	197537	1	10/12/2014 11:28	NP
1,2-Dichloroethane	BRL	5.0		ug/L	197537	1	10/12/2014 11:28	NP
1,2-Dichloropropane	BRL	5.0		ug/L	197537	1	10/12/2014 11:28	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	197537	1	10/12/2014 11:28	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	197537	1	10/12/2014 11:28	NP
2-Butanone	BRL	50		ug/L	197537	1	10/12/2014 11:28	NP
2-Hexanone	BRL	10		ug/L	197537	1	10/12/2014 11:28	NP
4-Methyl-2-pentanone	BRL	10		ug/L	197537	1	10/12/2014 11:28	NP
Acetone	BRL	50		ug/L	197537	1	10/12/2014 11:28	NP
Benzene	BRL	5.0		ug/L	197537	1	10/12/2014 11:28	NP
Bromodichloromethane	BRL	5.0		ug/L	197537	1	10/12/2014 11:28	NP
Bromoform	BRL	5.0		ug/L	197537	1	10/12/2014 11:28	NP
Bromomethane	BRL	5.0		ug/L	197537	1	10/12/2014 11:28	NP
Carbon disulfide	BRL	5.0		ug/L	197537	1	10/12/2014 11:28	NP
Carbon tetrachloride	BRL	5.0		ug/L	197537	1	10/12/2014 11:28	NP
Chlorobenzene	BRL	5.0		ug/L	197537	1	10/12/2014 11:28	NP
Chloroethane	BRL	10		ug/L	197537	1	10/12/2014 11:28	NP
Chloroform	BRL	5.0		ug/L	197537	1	10/12/2014 11:28	NP
Chloromethane	BRL	10		ug/L	197537	1	10/12/2014 11:28	NP
cis-1,2-Dichloroethene	BRL	1.0		ug/L	197537	1	10/12/2014 11:28	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	197537	1	10/12/2014 11:28	NP
Cyclohexane	BRL	5.0		ug/L	197537	1	10/12/2014 11:28	NP
Dibromochloromethane	BRL	5.0		ug/L	197537	1	10/12/2014 11:28	NP
Dichlorodifluoromethane	BRL	10		ug/L	197537	1	10/12/2014 11:28	NP
Ethylbenzene	BRL	5.0		ug/L	197537	1	10/12/2014 11:28	NP
Freon-113	BRL	10		ug/L	197537	1	10/12/2014 11:28	NP
Isopropylbenzene	BRL	5.0		ug/L	197537	1	10/12/2014 11:28	NP
m,p-Xylene	BRL	5.0		ug/L	197537	1	10/12/2014 11:28	NP
Methyl acetate	BRL	5.0		ug/L	197537	1	10/12/2014 11:28	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	197537	1	10/12/2014 11:28	NP
Methylcyclohexane	BRL	5.0		ug/L	197537	1	10/12/2014 11:28	NP
Methylene chloride	BRL	5.0		ug/L	197537	1	10/12/2014 11:28	NP
o-Xylene	BRL	5.0		ug/L	197537	1	10/12/2014 11:28	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:	Sailors Engineering Associates	**Client Sample ID:**	TRIP BLANK
Project Name:	Spalding Crnrs S/C	**Collection Date:**	10/8/2014
Lab ID:	1410929-001	**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	197537	1	10/12/2014 11:28	NP
Tetrachloroethene	BRL	1.0		ug/L	197537	1	10/12/2014 11:28	NP
Toluene	BRL	5.0		ug/L	197537	1	10/12/2014 11:28	NP
trans-1,2-Dichloroethene	BRL	1.0		ug/L	197537	1	10/12/2014 11:28	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	197537	1	10/12/2014 11:28	NP
Trichloroethene	BRL	1.0		ug/L	197537	1	10/12/2014 11:28	NP
Trichlorofluoromethane	BRL	5.0		ug/L	197537	1	10/12/2014 11:28	NP
Vinyl chloride	BRL	1.0		ug/L	197537	1	10/12/2014 11:28	NP
Surr: 4-Bromofluorobenzene	85	66.2-120		%REC	197537	1	10/12/2014 11:28	NP
Surr: Dibromofluoromethane	110	79.5-121		%REC	197537	1	10/12/2014 11:28	NP
Surr: Toluene-d8	95.4	77-117		%REC	197537	1	10/12/2014 11:28	NP

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:	Sailors Engineering Associates	**Client Sample ID:**	MW-1D
Project Name:	Spalding Crnrs S/C	**Collection Date:**	10/8/2014 12:04:00 PM
Lab ID:	1410929-002	**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	197537	1	10/12/2014 13:07	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	197537	1	10/12/2014 13:07	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	197537	1	10/12/2014 13:07	NP
1,1-Dichloroethane	BRL	5.0		ug/L	197537	1	10/12/2014 13:07	NP
1,1-Dichloroethene	BRL	5.0		ug/L	197537	1	10/12/2014 13:07	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	197537	1	10/12/2014 13:07	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	197537	1	10/12/2014 13:07	NP
1,2-Dibromoethane	BRL	5.0		ug/L	197537	1	10/12/2014 13:07	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	197537	1	10/12/2014 13:07	NP
1,2-Dichloroethane	BRL	5.0		ug/L	197537	1	10/12/2014 13:07	NP
1,2-Dichloropropane	BRL	5.0		ug/L	197537	1	10/12/2014 13:07	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	197537	1	10/12/2014 13:07	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	197537	1	10/12/2014 13:07	NP
2-Butanone	BRL	50		ug/L	197537	1	10/12/2014 13:07	NP
2-Hexanone	BRL	10		ug/L	197537	1	10/12/2014 13:07	NP
4-Methyl-2-pentanone	BRL	10		ug/L	197537	1	10/12/2014 13:07	NP
Acetone	BRL	50		ug/L	197537	1	10/12/2014 13:07	NP
Benzene	BRL	5.0		ug/L	197537	1	10/12/2014 13:07	NP
Bromodichloromethane	BRL	5.0		ug/L	197537	1	10/12/2014 13:07	NP
Bromoform	BRL	5.0		ug/L	197537	1	10/12/2014 13:07	NP
Bromomethane	BRL	5.0		ug/L	197537	1	10/12/2014 13:07	NP
Carbon disulfide	BRL	5.0		ug/L	197537	1	10/12/2014 13:07	NP
Carbon tetrachloride	BRL	5.0		ug/L	197537	1	10/12/2014 13:07	NP
Chlorobenzene	BRL	5.0		ug/L	197537	1	10/12/2014 13:07	NP
Chloroethane	BRL	10		ug/L	197537	1	10/12/2014 13:07	NP
Chloroform	BRL	5.0		ug/L	197537	1	10/12/2014 13:07	NP
Chloromethane	BRL	10		ug/L	197537	1	10/12/2014 13:07	NP
cis-1,2-Dichloroethene	BRL	1.0		ug/L	197537	1	10/12/2014 13:07	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	197537	1	10/12/2014 13:07	NP
Cyclohexane	BRL	5.0		ug/L	197537	1	10/12/2014 13:07	NP
Dibromochloromethane	BRL	5.0		ug/L	197537	1	10/12/2014 13:07	NP
Dichlorodifluoromethane	BRL	10		ug/L	197537	1	10/12/2014 13:07	NP
Ethylbenzene	BRL	5.0		ug/L	197537	1	10/12/2014 13:07	NP
Freon-113	BRL	10		ug/L	197537	1	10/12/2014 13:07	NP
Isopropylbenzene	BRL	5.0		ug/L	197537	1	10/12/2014 13:07	NP
m,p-Xylene	BRL	5.0		ug/L	197537	1	10/12/2014 13:07	NP
Methyl acetate	BRL	5.0		ug/L	197537	1	10/12/2014 13:07	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	197537	1	10/12/2014 13:07	NP
Methylcyclohexane	BRL	5.0		ug/L	197537	1	10/12/2014 13:07	NP
Methylene chloride	BRL	5.0		ug/L	197537	1	10/12/2014 13:07	NP
o-Xylene	BRL	5.0		ug/L	197537	1	10/12/2014 13:07	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:	Sailors Engineering Associates	**Client Sample ID:**	MW-1D
Project Name:	Spalding Crnrs S/C	**Collection Date:**	10/8/2014 12:04:00 PM
Lab ID:	1410929-002	**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	197537	1	10/12/2014 13:07	NP
Tetrachloroethene	BRL	1.0		ug/L	197537	1	10/12/2014 13:07	NP
Toluene	BRL	5.0		ug/L	197537	1	10/12/2014 13:07	NP
trans-1,2-Dichloroethene	BRL	1.0		ug/L	197537	1	10/12/2014 13:07	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	197537	1	10/12/2014 13:07	NP
Trichloroethene	BRL	1.0		ug/L	197537	1	10/12/2014 13:07	NP
Trichlorofluoromethane	BRL	5.0		ug/L	197537	1	10/12/2014 13:07	NP
Vinyl chloride	BRL	1.0		ug/L	197537	1	10/12/2014 13:07	NP
Surr: 4-Bromofluorobenzene	87.8	66.2-120		%REC	197537	1	10/12/2014 13:07	NP
Surr: Dibromofluoromethane	111	79.5-121		%REC	197537	1	10/12/2014 13:07	NP
Surr: Toluene-d8	95.6	77-117		%REC	197537	1	10/12/2014 13:07	NP

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:	Sailors Engineering Associates	**Client Sample ID:**	MW-10S
Project Name:	Spalding Crnrs S/C	**Collection Date:**	10/8/2014 2:13:00 PM
Lab ID:	1410929-003	**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	197537	1	10/12/2014 14:22	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	197537	1	10/12/2014 14:22	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	197537	1	10/12/2014 14:22	NP
1,1-Dichloroethane	BRL	5.0		ug/L	197537	1	10/12/2014 14:22	NP
1,1-Dichloroethene	BRL	5.0		ug/L	197537	1	10/12/2014 14:22	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	197537	1	10/12/2014 14:22	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	197537	1	10/12/2014 14:22	NP
1,2-Dibromoethane	BRL	5.0		ug/L	197537	1	10/12/2014 14:22	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	197537	1	10/12/2014 14:22	NP
1,2-Dichloroethane	BRL	5.0		ug/L	197537	1	10/12/2014 14:22	NP
1,2-Dichloropropane	BRL	5.0		ug/L	197537	1	10/12/2014 14:22	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	197537	1	10/12/2014 14:22	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	197537	1	10/12/2014 14:22	NP
2-Butanone	BRL	50		ug/L	197537	1	10/12/2014 14:22	NP
2-Hexanone	BRL	10		ug/L	197537	1	10/12/2014 14:22	NP
4-Methyl-2-pentanone	BRL	10		ug/L	197537	1	10/12/2014 14:22	NP
Acetone	BRL	50		ug/L	197537	1	10/12/2014 14:22	NP
Benzene	BRL	5.0		ug/L	197537	1	10/12/2014 14:22	NP
Bromodichloromethane	BRL	5.0		ug/L	197537	1	10/12/2014 14:22	NP
Bromoform	BRL	5.0		ug/L	197537	1	10/12/2014 14:22	NP
Bromomethane	BRL	5.0		ug/L	197537	1	10/12/2014 14:22	NP
Carbon disulfide	BRL	5.0		ug/L	197537	1	10/12/2014 14:22	NP
Carbon tetrachloride	BRL	5.0		ug/L	197537	1	10/12/2014 14:22	NP
Chlorobenzene	BRL	5.0		ug/L	197537	1	10/12/2014 14:22	NP
Chloroethane	BRL	10		ug/L	197537	1	10/12/2014 14:22	NP
Chloroform	BRL	5.0		ug/L	197537	1	10/12/2014 14:22	NP
Chloromethane	BRL	10		ug/L	197537	1	10/12/2014 14:22	NP
cis-1,2-Dichloroethene	BRL	1.0		ug/L	197537	1	10/12/2014 14:22	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	197537	1	10/12/2014 14:22	NP
Cyclohexane	BRL	5.0		ug/L	197537	1	10/12/2014 14:22	NP
Dibromochloromethane	BRL	5.0		ug/L	197537	1	10/12/2014 14:22	NP
Dichlorodifluoromethane	BRL	10		ug/L	197537	1	10/12/2014 14:22	NP
Ethylbenzene	BRL	5.0		ug/L	197537	1	10/12/2014 14:22	NP
Freon-113	BRL	10		ug/L	197537	1	10/12/2014 14:22	NP
Isopropylbenzene	BRL	5.0		ug/L	197537	1	10/12/2014 14:22	NP
m,p-Xylene	BRL	5.0		ug/L	197537	1	10/12/2014 14:22	NP
Methyl acetate	BRL	5.0		ug/L	197537	1	10/12/2014 14:22	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	197537	1	10/12/2014 14:22	NP
Methylcyclohexane	BRL	5.0		ug/L	197537	1	10/12/2014 14:22	NP
Methylene chloride	BRL	5.0		ug/L	197537	1	10/12/2014 14:22	NP
o-Xylene	BRL	5.0		ug/L	197537	1	10/12/2014 14:22	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:	Sailors Engineering Associates	**Client Sample ID:**	MW-10S
Project Name:	Spalding Crnrs S/C	**Collection Date:**	10/8/2014 2:13:00 PM
Lab ID:	1410929-003	**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	197537	1	10/12/2014 14:22	NP
Tetrachloroethene	61	1.0		ug/L	197537	1	10/12/2014 14:22	NP
Toluene	BRL	5.0		ug/L	197537	1	10/12/2014 14:22	NP
trans-1,2-Dichloroethene	BRL	1.0		ug/L	197537	1	10/12/2014 14:22	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	197537	1	10/12/2014 14:22	NP
Trichloroethene	BRL	1.0		ug/L	197537	1	10/12/2014 14:22	NP
Trichlorofluoromethane	BRL	5.0		ug/L	197537	1	10/12/2014 14:22	NP
Vinyl chloride	BRL	1.0		ug/L	197537	1	10/12/2014 14:22	NP
Surr: 4-Bromofluorobenzene	84.4	66.2-120		%REC	197537	1	10/12/2014 14:22	NP
Surr: Dibromofluoromethane	110	79.5-121		%REC	197537	1	10/12/2014 14:22	NP
Surr: Toluene-d8	95.5	77-117		%REC	197537	1	10/12/2014 14:22	NP

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:	Sailors Engineering Associates	**Client Sample ID:**	MW-17S
Project Name:	Spalding Crnrs S/C	**Collection Date:**	10/8/2014 4:19:00 PM
Lab ID:	1410929-004	**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	197537	1	10/12/2014 14:46	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	197537	1	10/12/2014 14:46	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	197537	1	10/12/2014 14:46	NP
1,1-Dichloroethane	BRL	5.0		ug/L	197537	1	10/12/2014 14:46	NP
1,1-Dichloroethene	BRL	5.0		ug/L	197537	1	10/12/2014 14:46	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	197537	1	10/12/2014 14:46	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	197537	1	10/12/2014 14:46	NP
1,2-Dibromoethane	BRL	5.0		ug/L	197537	1	10/12/2014 14:46	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	197537	1	10/12/2014 14:46	NP
1,2-Dichloroethane	BRL	5.0		ug/L	197537	1	10/12/2014 14:46	NP
1,2-Dichloropropane	BRL	5.0		ug/L	197537	1	10/12/2014 14:46	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	197537	1	10/12/2014 14:46	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	197537	1	10/12/2014 14:46	NP
2-Butanone	BRL	50		ug/L	197537	1	10/12/2014 14:46	NP
2-Hexanone	BRL	10		ug/L	197537	1	10/12/2014 14:46	NP
4-Methyl-2-pentanone	BRL	10		ug/L	197537	1	10/12/2014 14:46	NP
Acetone	BRL	50		ug/L	197537	1	10/12/2014 14:46	NP
Benzene	BRL	5.0		ug/L	197537	1	10/12/2014 14:46	NP
Bromodichloromethane	BRL	5.0		ug/L	197537	1	10/12/2014 14:46	NP
Bromoform	BRL	5.0		ug/L	197537	1	10/12/2014 14:46	NP
Bromomethane	BRL	5.0		ug/L	197537	1	10/12/2014 14:46	NP
Carbon disulfide	BRL	5.0		ug/L	197537	1	10/12/2014 14:46	NP
Carbon tetrachloride	BRL	5.0		ug/L	197537	1	10/12/2014 14:46	NP
Chlorobenzene	BRL	5.0		ug/L	197537	1	10/12/2014 14:46	NP
Chloroethane	BRL	10		ug/L	197537	1	10/12/2014 14:46	NP
Chloroform	13	5.0		ug/L	197537	1	10/12/2014 14:46	NP
Chloromethane	BRL	10		ug/L	197537	1	10/12/2014 14:46	NP
cis-1,2-Dichloroethene	BRL	1.0		ug/L	197537	1	10/12/2014 14:46	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	197537	1	10/12/2014 14:46	NP
Cyclohexane	BRL	5.0		ug/L	197537	1	10/12/2014 14:46	NP
Dibromochloromethane	BRL	5.0		ug/L	197537	1	10/12/2014 14:46	NP
Dichlorodifluoromethane	BRL	10		ug/L	197537	1	10/12/2014 14:46	NP
Ethylbenzene	BRL	5.0		ug/L	197537	1	10/12/2014 14:46	NP
Freon-113	BRL	10		ug/L	197537	1	10/12/2014 14:46	NP
Isopropylbenzene	BRL	5.0		ug/L	197537	1	10/12/2014 14:46	NP
m,p-Xylene	BRL	5.0		ug/L	197537	1	10/12/2014 14:46	NP
Methyl acetate	BRL	5.0		ug/L	197537	1	10/12/2014 14:46	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	197537	1	10/12/2014 14:46	NP
Methylcyclohexane	BRL	5.0		ug/L	197537	1	10/12/2014 14:46	NP
Methylene chloride	BRL	5.0		ug/L	197537	1	10/12/2014 14:46	NP
o-Xylene	BRL	5.0		ug/L	197537	1	10/12/2014 14:46	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:	Sailors Engineering Associates	**Client Sample ID:**	MW-17S
Project Name:	Spalding Crnrs S/C	**Collection Date:**	10/8/2014 4:19:00 PM
Lab ID:	1410929-004	**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	197537	1	10/12/2014 14:46	NP
Tetrachloroethene	130	1.0		ug/L	197537	1	10/12/2014 14:46	NP
Toluene	BRL	5.0		ug/L	197537	1	10/12/2014 14:46	NP
trans-1,2-Dichloroethene	BRL	1.0		ug/L	197537	1	10/12/2014 14:46	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	197537	1	10/12/2014 14:46	NP
Trichloroethene	BRL	1.0		ug/L	197537	1	10/12/2014 14:46	NP
Trichlorofluoromethane	BRL	5.0		ug/L	197537	1	10/12/2014 14:46	NP
Vinyl chloride	BRL	1.0		ug/L	197537	1	10/12/2014 14:46	NP
Surr: 4-Bromofluorobenzene	84.8	66.2-120		%REC	197537	1	10/12/2014 14:46	NP
Surr: Dibromofluoromethane	113	79.5-121		%REC	197537	1	10/12/2014 14:46	NP
Surr: Toluene-d8	96.3	77-117		%REC	197537	1	10/12/2014 14:46	NP

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:	Sailors Engineering Associates	**Client Sample ID:**	MW-18S
Project Name:	Spalding Crnrs S/C	**Collection Date:**	10/9/2014 9:27:00 AM
Lab ID:	1410929-005	**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	R277878	1	10/14/2014 19:27	JM
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	197537	1	10/12/2014 15:11	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	197537	1	10/12/2014 15:11	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	197537	1	10/12/2014 15:11	NP
1,1-Dichloroethane	BRL	5.0		ug/L	197537	1	10/12/2014 15:11	NP
1,1-Dichloroethene	BRL	5.0		ug/L	197537	1	10/12/2014 15:11	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	197537	1	10/12/2014 15:11	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	197537	1	10/12/2014 15:11	NP
1,2-Dibromoethane	BRL	5.0		ug/L	197537	1	10/12/2014 15:11	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	197537	1	10/12/2014 15:11	NP
1,2-Dichloroethane	BRL	5.0		ug/L	197537	1	10/12/2014 15:11	NP
1,2-Dichloropropane	BRL	5.0		ug/L	197537	1	10/12/2014 15:11	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	197537	1	10/12/2014 15:11	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	197537	1	10/12/2014 15:11	NP
2-Butanone	BRL	50		ug/L	197537	1	10/12/2014 15:11	NP
2-Hexanone	BRL	10		ug/L	197537	1	10/12/2014 15:11	NP
4-Methyl-2-pentanone	BRL	10		ug/L	197537	1	10/12/2014 15:11	NP
Acetone	BRL	50		ug/L	197537	1	10/12/2014 15:11	NP
Benzene	BRL	5.0		ug/L	197537	1	10/12/2014 15:11	NP
Bromodichloromethane	BRL	5.0		ug/L	197537	1	10/12/2014 15:11	NP
Bromoform	BRL	5.0		ug/L	197537	1	10/12/2014 15:11	NP
Bromomethane	BRL	5.0		ug/L	197537	1	10/12/2014 15:11	NP
Carbon disulfide	BRL	5.0		ug/L	197537	1	10/12/2014 15:11	NP
Carbon tetrachloride	BRL	5.0		ug/L	197537	1	10/12/2014 15:11	NP
Chlorobenzene	BRL	5.0		ug/L	197537	1	10/12/2014 15:11	NP
Chloroethane	BRL	10		ug/L	197537	1	10/12/2014 15:11	NP
Chloroform	BRL	5.0		ug/L	197537	1	10/12/2014 15:11	NP
Chloromethane	BRL	10		ug/L	197537	1	10/12/2014 15:11	NP
cis-1,2-Dichloroethene	BRL	1.0		ug/L	197537	1	10/12/2014 15:11	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	197537	1	10/12/2014 15:11	NP
Cyclohexane	BRL	5.0		ug/L	197537	1	10/12/2014 15:11	NP
Dibromochloromethane	BRL	5.0		ug/L	197537	1	10/12/2014 15:11	NP
Dichlorodifluoromethane	BRL	10		ug/L	197537	1	10/12/2014 15:11	NP
Ethylbenzene	BRL	5.0		ug/L	197537	1	10/12/2014 15:11	NP
Freon-113	BRL	10		ug/L	197537	1	10/12/2014 15:11	NP
Isopropylbenzene	BRL	5.0		ug/L	197537	1	10/12/2014 15:11	NP
m,p-Xylene	BRL	5.0		ug/L	197537	1	10/12/2014 15:11	NP
Methyl acetate	BRL	5.0		ug/L	197537	1	10/12/2014 15:11	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	197537	1	10/12/2014 15:11	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:	Sailors Engineering Associates	**Client Sample ID:**	MW-18S
Project Name:	Spalding Crnrs S/C	**Collection Date:**	10/9/2014 9:27:00 AM
Lab ID:	1410929-005	**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	197537	1	10/12/2014 15:11	NP
Methylene chloride	BRL	5.0		ug/L	197537	1	10/12/2014 15:11	NP
o-Xylene	BRL	5.0		ug/L	197537	1	10/12/2014 15:11	NP
Styrene	BRL	5.0		ug/L	197537	1	10/12/2014 15:11	NP
Tetrachloroethene	240	10		ug/L	197537	10	10/13/2014 12:25	NP
Toluene	BRL	5.0		ug/L	197537	1	10/12/2014 15:11	NP
trans-1,2-Dichloroethene	BRL	1.0		ug/L	197537	1	10/12/2014 15:11	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	197537	1	10/12/2014 15:11	NP
Trichloroethene	2.8	1.0		ug/L	197537	1	10/12/2014 15:11	NP
Trichlorofluoromethane	BRL	5.0		ug/L	197537	1	10/12/2014 15:11	NP
Vinyl chloride	BRL	1.0		ug/L	197537	1	10/12/2014 15:11	NP
Surr: 4-Bromofluorobenzene	84.5	66.2-120		%REC	197537	1	10/12/2014 15:11	NP
Surr: 4-Bromofluorobenzene	85.2	66.2-120		%REC	197537	10	10/13/2014 12:25	NP
Surr: Dibromofluoromethane	107	79.5-121		%REC	197537	10	10/13/2014 12:25	NP
Surr: Dibromofluoromethane	112	79.5-121		%REC	197537	1	10/12/2014 15:11	NP
Surr: Toluene-d8	92.5	77-117		%REC	197537	10	10/13/2014 12:25	NP
Surr: Toluene-d8	95.2	77-117		%REC	197537	1	10/12/2014 15:11	NP
Sulfide by SW9030B/9034				**(SW9030B)**				
Sulfide	BRL	2.00		mg/L	197736	1	10/14/2014 14:50	AB
ION SCAN SW9056A								
Chloride	4.3	1.0		mg/L	R278037	1	10/10/2014 10:29	YS
Nitrate	1.6	0.25		mg/L	R278037	1	10/10/2014 10:29	YS
Nitrite	BRL	0.25		mg/L	R278037	1	10/10/2014 10:29	YS
Sulfate	BRL	1.0		mg/L	R278037	1	10/10/2014 10:29	YS
GC Analysis of Gaseous Samples SOP-RSK 175				**(RSK175)**				
Ethane	BRL	9		ug/L	197461	1	10/15/2014 17:27	JM
Ethylene	BRL	7		ug/L	197461	1	10/15/2014 17:27	JM
Methane	13	4		ug/L	197461	1	10/15/2014 17:27	JM
Ferrous Iron SM3500-Fe-B								
Iron, as Ferric (Fe+3)	0.888	0.100		mg/L	R277874	1	10/10/2014 08:45	AB
Iron, as Ferrous (Fe+2)	BRL	0.100		mg/L	R277874	1	10/10/2014 08:45	AB
METALS, TOTAL SW6010C				**(SW3010A)**				
Iron	0.888	0.100		mg/L	197606	1	10/14/2014 20:10	JL

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:	Sailors Engineering Associates	**Client Sample ID:**	MW-19S
Project Name:	Spalding Crnrs S/C	**Collection Date:**	10/9/2014 11:57:00 AM
Lab ID:	1410929-006	**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	R277878	1	10/14/2014 20:55	JM
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	197537	1	10/12/2014 15:35	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	197537	1	10/12/2014 15:35	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	197537	1	10/12/2014 15:35	NP
1,1-Dichloroethane	BRL	5.0		ug/L	197537	1	10/12/2014 15:35	NP
1,1-Dichloroethene	BRL	5.0		ug/L	197537	1	10/12/2014 15:35	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	197537	1	10/12/2014 15:35	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	197537	1	10/12/2014 15:35	NP
1,2-Dibromoethane	BRL	5.0		ug/L	197537	1	10/12/2014 15:35	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	197537	1	10/12/2014 15:35	NP
1,2-Dichloroethane	BRL	5.0		ug/L	197537	1	10/12/2014 15:35	NP
1,2-Dichloropropane	BRL	5.0		ug/L	197537	1	10/12/2014 15:35	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	197537	1	10/12/2014 15:35	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	197537	1	10/12/2014 15:35	NP
2-Butanone	BRL	50		ug/L	197537	1	10/12/2014 15:35	NP
2-Hexanone	BRL	10		ug/L	197537	1	10/12/2014 15:35	NP
4-Methyl-2-pentanone	BRL	10		ug/L	197537	1	10/12/2014 15:35	NP
Acetone	BRL	50		ug/L	197537	1	10/12/2014 15:35	NP
Benzene	BRL	5.0		ug/L	197537	1	10/12/2014 15:35	NP
Bromodichloromethane	BRL	5.0		ug/L	197537	1	10/12/2014 15:35	NP
Bromoform	BRL	5.0		ug/L	197537	1	10/12/2014 15:35	NP
Bromomethane	BRL	5.0		ug/L	197537	1	10/12/2014 15:35	NP
Carbon disulfide	BRL	5.0		ug/L	197537	1	10/12/2014 15:35	NP
Carbon tetrachloride	BRL	5.0		ug/L	197537	1	10/12/2014 15:35	NP
Chlorobenzene	BRL	5.0		ug/L	197537	1	10/12/2014 15:35	NP
Chloroethane	BRL	10		ug/L	197537	1	10/12/2014 15:35	NP
Chloroform	BRL	5.0		ug/L	197537	1	10/12/2014 15:35	NP
Chloromethane	BRL	10		ug/L	197537	1	10/12/2014 15:35	NP
cis-1,2-Dichloroethene	1.1	1.0		ug/L	197537	1	10/12/2014 15:35	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	197537	1	10/12/2014 15:35	NP
Cyclohexane	BRL	5.0		ug/L	197537	1	10/12/2014 15:35	NP
Dibromochloromethane	BRL	5.0		ug/L	197537	1	10/12/2014 15:35	NP
Dichlorodifluoromethane	BRL	10		ug/L	197537	1	10/12/2014 15:35	NP
Ethylbenzene	BRL	5.0		ug/L	197537	1	10/12/2014 15:35	NP
Freon-113	BRL	10		ug/L	197537	1	10/12/2014 15:35	NP
Isopropylbenzene	BRL	5.0		ug/L	197537	1	10/12/2014 15:35	NP
m,p-Xylene	BRL	5.0		ug/L	197537	1	10/12/2014 15:35	NP
Methyl acetate	BRL	5.0		ug/L	197537	1	10/12/2014 15:35	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	197537	1	10/12/2014 15:35	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:	Sailors Engineering Associates	**Client Sample ID:**	MW-19S
Project Name:	Spalding Crnrs S/C	**Collection Date:**	10/9/2014 11:57:00 AM
Lab ID:	1410929-006	**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	197537	1	10/12/2014 15:35	NP
Methylene chloride	BRL	5.0		ug/L	197537	1	10/12/2014 15:35	NP
o-Xylene	BRL	5.0		ug/L	197537	1	10/12/2014 15:35	NP
Styrene	BRL	5.0		ug/L	197537	1	10/12/2014 15:35	NP
Tetrachloroethene	17	1.0		ug/L	197537	1	10/12/2014 15:35	NP
Toluene	BRL	5.0		ug/L	197537	1	10/12/2014 15:35	NP
trans-1,2-Dichloroethene	BRL	1.0		ug/L	197537	1	10/12/2014 15:35	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	197537	1	10/12/2014 15:35	NP
Trichloroethene	2.3	1.0		ug/L	197537	1	10/12/2014 15:35	NP
Trichlorofluoromethane	BRL	5.0		ug/L	197537	1	10/12/2014 15:35	NP
Vinyl chloride	BRL	1.0		ug/L	197537	1	10/12/2014 15:35	NP
Surr: 4-Bromofluorobenzene	85.6	66.2-120		%REC	197537	1	10/12/2014 15:35	NP
Surr: Dibromofluoromethane	113	79.5-121		%REC	197537	1	10/12/2014 15:35	NP
Surr: Toluene-d8	97.4	77-117		%REC	197537	1	10/12/2014 15:35	NP
Sulfide by SW9030B/9034				**(SW9030B)**				
Sulfide	BRL	2.00		mg/L	197736	1	10/14/2014 14:50	AB
ION SCAN SW9056A								
Chloride	2.7	1.0		mg/L	R278037	1	10/10/2014 10:44	YS
Nitrate	0.50	0.25		mg/L	R278037	1	10/10/2014 10:44	YS
Nitrite	BRL	0.25		mg/L	R278037	1	10/10/2014 10:44	YS
Sulfate	6.2	1.0		mg/L	R278037	1	10/10/2014 10:44	YS
GC Analysis of Gaseous Samples SOP-RSK 175				**(RSK175)**				
Ethane	BRL	9		ug/L	197461	1	10/15/2014 17:32	JM
Ethylene	BRL	7		ug/L	197461	1	10/15/2014 17:32	JM
Methane	BRL	4		ug/L	197461	1	10/15/2014 17:32	JM
Ferrous Iron SM3500-Fe-B								
Iron, as Ferric (Fe+3)	0.117	0.100		mg/L	R277874	1	10/10/2014 08:45	AB
Iron, as Ferrous (Fe+2)	BRL	0.100		mg/L	R277874	1	10/10/2014 08:45	AB
METALS, TOTAL SW6010C				**(SW3010A)**				
Iron	0.117	0.100		mg/L	197606	1	10/14/2014 20:13	JL

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:	Sailors Engineering Associates	**Client Sample ID:**	MW-20S
Project Name:	Spalding Crnrs S/C	**Collection Date:**	10/9/2014 2:52:00 PM
Lab ID:	1410929-007	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) SW9060A								
Organic Carbon, Total	1.43	1.00		mg/L	R277878	1	10/14/2014 21:15	JM
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	197537	1	10/12/2014 16:00	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	197537	1	10/12/2014 16:00	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	197537	1	10/12/2014 16:00	NP
1,1-Dichloroethane	BRL	5.0		ug/L	197537	1	10/12/2014 16:00	NP
1,1-Dichloroethene	BRL	5.0		ug/L	197537	1	10/12/2014 16:00	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	197537	1	10/12/2014 16:00	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	197537	1	10/12/2014 16:00	NP
1,2-Dibromoethane	BRL	5.0		ug/L	197537	1	10/12/2014 16:00	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	197537	1	10/12/2014 16:00	NP
1,2-Dichloroethane	BRL	5.0		ug/L	197537	1	10/12/2014 16:00	NP
1,2-Dichloropropane	BRL	5.0		ug/L	197537	1	10/12/2014 16:00	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	197537	1	10/12/2014 16:00	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	197537	1	10/12/2014 16:00	NP
2-Butanone	BRL	50		ug/L	197537	1	10/12/2014 16:00	NP
2-Hexanone	BRL	10		ug/L	197537	1	10/12/2014 16:00	NP
4-Methyl-2-pentanone	BRL	10		ug/L	197537	1	10/12/2014 16:00	NP
Acetone	BRL	50		ug/L	197537	1	10/12/2014 16:00	NP
Benzene	BRL	5.0		ug/L	197537	1	10/12/2014 16:00	NP
Bromodichloromethane	BRL	5.0		ug/L	197537	1	10/12/2014 16:00	NP
Bromoform	BRL	5.0		ug/L	197537	1	10/12/2014 16:00	NP
Bromomethane	BRL	5.0		ug/L	197537	1	10/12/2014 16:00	NP
Carbon disulfide	BRL	5.0		ug/L	197537	1	10/12/2014 16:00	NP
Carbon tetrachloride	BRL	5.0		ug/L	197537	1	10/12/2014 16:00	NP
Chlorobenzene	BRL	5.0		ug/L	197537	1	10/12/2014 16:00	NP
Chloroethane	BRL	10		ug/L	197537	1	10/12/2014 16:00	NP
Chloroform	BRL	5.0		ug/L	197537	1	10/12/2014 16:00	NP
Chloromethane	BRL	10		ug/L	197537	1	10/12/2014 16:00	NP
cis-1,2-Dichloroethene	4.1	1.0		ug/L	197537	1	10/12/2014 16:00	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	197537	1	10/12/2014 16:00	NP
Cyclohexane	BRL	5.0		ug/L	197537	1	10/12/2014 16:00	NP
Dibromochloromethane	BRL	5.0		ug/L	197537	1	10/12/2014 16:00	NP
Dichlorodifluoromethane	BRL	10		ug/L	197537	1	10/12/2014 16:00	NP
Ethylbenzene	BRL	5.0		ug/L	197537	1	10/12/2014 16:00	NP
Freon-113	BRL	10		ug/L	197537	1	10/12/2014 16:00	NP
Isopropylbenzene	BRL	5.0		ug/L	197537	1	10/12/2014 16:00	NP
m,p-Xylene	BRL	5.0		ug/L	197537	1	10/12/2014 16:00	NP
Methyl acetate	BRL	5.0		ug/L	197537	1	10/12/2014 16:00	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	197537	1	10/12/2014 16:00	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:	Sailors Engineering Associates	**Client Sample ID:**	MW-20S
Project Name:	Spalding Crnrs S/C	**Collection Date:**	10/9/2014 2:52:00 PM
Lab ID:	1410929-007	**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	197537	1	10/12/2014 16:00	NP
Methylene chloride	BRL	5.0		ug/L	197537	1	10/12/2014 16:00	NP
o-Xylene	BRL	5.0		ug/L	197537	1	10/12/2014 16:00	NP
Styrene	BRL	5.0		ug/L	197537	1	10/12/2014 16:00	NP
Tetrachloroethene	18	1.0		ug/L	197537	1	10/12/2014 16:00	NP
Toluene	BRL	5.0		ug/L	197537	1	10/12/2014 16:00	NP
trans-1,2-Dichloroethene	BRL	1.0		ug/L	197537	1	10/12/2014 16:00	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	197537	1	10/12/2014 16:00	NP
Trichloroethene	3.8	1.0		ug/L	197537	1	10/12/2014 16:00	NP
Trichlorofluoromethane	BRL	5.0		ug/L	197537	1	10/12/2014 16:00	NP
Vinyl chloride	BRL	1.0		ug/L	197537	1	10/12/2014 16:00	NP
Surr: 4-Bromofluorobenzene	84.4	66.2-120		%REC	197537	1	10/12/2014 16:00	NP
Surr: Dibromofluoromethane	112	79.5-121		%REC	197537	1	10/12/2014 16:00	NP
Surr: Toluene-d8	97.8	77-117		%REC	197537	1	10/12/2014 16:00	NP
Sulfide by SW9030B/9034				**(SW9030B)**				
Sulfide	BRL	2.00		mg/L	197736	1	10/14/2014 14:50	AB
ION SCAN SW9056A								
Chloride	3.4	1.0		mg/L	R278037	1	10/10/2014 10:59	YS
Nitrate	BRL	0.25		mg/L	R278037	1	10/10/2014 10:59	YS
Nitrite	BRL	0.25		mg/L	R278037	1	10/10/2014 10:59	YS
Sulfate	9.6	1.0		mg/L	R278037	1	10/10/2014 10:59	YS
GC Analysis of Gaseous Samples SOP-RSK 175				**(RSK175)**				
Ethane	BRL	9		ug/L	197461	1	10/15/2014 17:36	JM
Ethylene	BRL	7		ug/L	197461	1	10/15/2014 17:36	JM
Methane	47	4		ug/L	197461	1	10/15/2014 17:36	JM
Ferrous Iron SM3500-Fe-B								
Iron, as Ferric (Fe+3)	BRL	0.100		mg/L	R277874	1	10/10/2014 08:45	AB
Iron, as Ferrous (Fe+2)	BRL	0.100		mg/L	R277874	1	10/10/2014 08:45	AB
METALS, TOTAL SW6010C				**(SW3010A)**				
Iron	BRL	0.100		mg/L	197606	1	10/14/2014 20:17	JL

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:	Sailors Engineering Associates	**Client Sample ID:**	MW-6S
Project Name:	Spalding Crnrs S/C	**Collection Date:**	10/9/2014 4:38:00 PM
Lab ID:	1410929-008	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) SW9060A								
Organic Carbon, Total	1.62	1.00		mg/L	R277878	1	10/14/2014 21:40	JM
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	197537	1	10/12/2014 16:25	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	197537	1	10/12/2014 16:25	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	197537	1	10/12/2014 16:25	NP
1,1-Dichloroethane	BRL	5.0		ug/L	197537	1	10/12/2014 16:25	NP
1,1-Dichloroethene	BRL	5.0		ug/L	197537	1	10/12/2014 16:25	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	197537	1	10/12/2014 16:25	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	197537	1	10/12/2014 16:25	NP
1,2-Dibromoethane	BRL	5.0		ug/L	197537	1	10/12/2014 16:25	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	197537	1	10/12/2014 16:25	NP
1,2-Dichloroethane	BRL	5.0		ug/L	197537	1	10/12/2014 16:25	NP
1,2-Dichloropropane	BRL	5.0		ug/L	197537	1	10/12/2014 16:25	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	197537	1	10/12/2014 16:25	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	197537	1	10/12/2014 16:25	NP
2-Butanone	BRL	50		ug/L	197537	1	10/12/2014 16:25	NP
2-Hexanone	BRL	10		ug/L	197537	1	10/12/2014 16:25	NP
4-Methyl-2-pentanone	BRL	10		ug/L	197537	1	10/12/2014 16:25	NP
Acetone	BRL	50		ug/L	197537	1	10/12/2014 16:25	NP
Benzene	BRL	5.0		ug/L	197537	1	10/12/2014 16:25	NP
Bromodichloromethane	BRL	5.0		ug/L	197537	1	10/12/2014 16:25	NP
Bromoform	BRL	5.0		ug/L	197537	1	10/12/2014 16:25	NP
Bromomethane	BRL	5.0		ug/L	197537	1	10/12/2014 16:25	NP
Carbon disulfide	BRL	5.0		ug/L	197537	1	10/12/2014 16:25	NP
Carbon tetrachloride	BRL	5.0		ug/L	197537	1	10/12/2014 16:25	NP
Chlorobenzene	BRL	5.0		ug/L	197537	1	10/12/2014 16:25	NP
Chloroethane	BRL	10		ug/L	197537	1	10/12/2014 16:25	NP
Chloroform	BRL	5.0		ug/L	197537	1	10/12/2014 16:25	NP
Chloromethane	BRL	10		ug/L	197537	1	10/12/2014 16:25	NP
cis-1,2-Dichloroethene	BRL	1.0		ug/L	197537	1	10/12/2014 16:25	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	197537	1	10/12/2014 16:25	NP
Cyclohexane	BRL	5.0		ug/L	197537	1	10/12/2014 16:25	NP
Dibromochloromethane	BRL	5.0		ug/L	197537	1	10/12/2014 16:25	NP
Dichlorodifluoromethane	BRL	10		ug/L	197537	1	10/12/2014 16:25	NP
Ethylbenzene	BRL	5.0		ug/L	197537	1	10/12/2014 16:25	NP
Freon-113	BRL	10		ug/L	197537	1	10/12/2014 16:25	NP
Isopropylbenzene	BRL	5.0		ug/L	197537	1	10/12/2014 16:25	NP
m,p-Xylene	BRL	5.0		ug/L	197537	1	10/12/2014 16:25	NP
Methyl acetate	BRL	5.0		ug/L	197537	1	10/12/2014 16:25	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	197537	1	10/12/2014 16:25	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:	Sailors Engineering Associates	**Client Sample ID:**	MW-6S
Project Name:	Spalding Crnrs S/C	**Collection Date:**	10/9/2014 4:38:00 PM
Lab ID:	1410929-008	**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	197537	1	10/12/2014 16:25	NP
Methylene chloride	BRL	5.0		ug/L	197537	1	10/12/2014 16:25	NP
o-Xylene	BRL	5.0		ug/L	197537	1	10/12/2014 16:25	NP
Styrene	BRL	5.0		ug/L	197537	1	10/12/2014 16:25	NP
Tetrachloroethene	3.2	1.0		ug/L	197537	1	10/12/2014 16:25	NP
Toluene	BRL	5.0		ug/L	197537	1	10/12/2014 16:25	NP
trans-1,2-Dichloroethene	BRL	1.0		ug/L	197537	1	10/12/2014 16:25	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	197537	1	10/12/2014 16:25	NP
Trichloroethene	BRL	1.0		ug/L	197537	1	10/12/2014 16:25	NP
Trichlorofluoromethane	BRL	5.0		ug/L	197537	1	10/12/2014 16:25	NP
Vinyl chloride	BRL	1.0		ug/L	197537	1	10/12/2014 16:25	NP
Surr: 4-Bromofluorobenzene	84.5	66.2-120		%REC	197537	1	10/12/2014 16:25	NP
Surr: Dibromofluoromethane	110	79.5-121		%REC	197537	1	10/12/2014 16:25	NP
Surr: Toluene-d8	97.2	77-117		%REC	197537	1	10/12/2014 16:25	NP
Sulfide by SW9030B/9034				**(SW9030B)**				
Sulfide	BRL	2.00		mg/L	197736	1	10/14/2014 14:50	AB
ION SCAN SW9056A								
Chloride	4.4	1.0		mg/L	R278037	1	10/10/2014 11:14	YS
Nitrate	BRL	0.25		mg/L	R278037	1	10/10/2014 11:14	YS
Nitrite	BRL	0.25		mg/L	R278037	1	10/10/2014 11:14	YS
Sulfate	48	1.0		mg/L	R278037	1	10/10/2014 11:14	YS
GC Analysis of Gaseous Samples SOP-RSK 175				**(RSK175)**				
Ethane	BRL	9		ug/L	197461	1	10/15/2014 17:41	JM
Ethylene	BRL	7		ug/L	197461	1	10/15/2014 17:41	JM
Methane	260	4		ug/L	197461	1	10/15/2014 17:41	JM
Ferrous Iron SM3500-Fe-B								
Iron, as Ferric (Fe+3)	3.09	0.100		mg/L	R277874	1	10/10/2014 08:45	AB
Iron, as Ferrous (Fe+2)	BRL	0.100		mg/L	R277874	1	10/10/2014 08:45	AB
METALS, TOTAL SW6010C				**(SW3010A)**				
Iron	3.09	0.100		mg/L	197606	1	10/14/2014 19:20	JL

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.

Sample/Cooler Receipt Checklist

Client Sailors Work Order Number 1410929

Checklist completed by _____ 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 3.6°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 _____

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.

\\Aes_server\I\Sample Receipt\My Documents\COCs and pH Adjustment Sheet\Sample_Cooler_Recipt_Checklist_Rev1.rtf

Client: Sailors Engineering Associates
Project: Spalding Crnrs S/C
Lab Order: 1410929

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1410929-001A	TRIP BLANK	10/8/2014 12:00:00AM	Aqueous	TCL VOLATILE ORGANICS		10/12/2014	10/12/2014
1410929-002A	MW-1D	10/8/2014 12:04:00PM	Groundwater	TCL VOLATILE ORGANICS		10/12/2014	10/12/2014
1410929-003A	MW-10S	10/8/2014 2:13:00PM	Groundwater	TCL VOLATILE ORGANICS		10/12/2014	10/12/2014
1410929-004A	MW-17S	10/8/2014 4:19:00PM	Groundwater	TCL VOLATILE ORGANICS		10/12/2014	10/12/2014
1410929-005A	MW-18S	10/9/2014 9:27:00AM	Groundwater	TCL VOLATILE ORGANICS		10/12/2014	10/12/2014
1410929-005A	MW-18S	10/9/2014 9:27:00AM	Groundwater	TCL VOLATILE ORGANICS		10/12/2014	10/13/2014
1410929-005B	MW-18S	10/9/2014 9:27:00AM	Groundwater	GC Analysis of Gaseous Samples		10/14/2014	10/15/2014
1410929-005C	MW-18S	10/9/2014 9:27:00AM	Groundwater	TOTAL METALS BY ICP		10/14/2014	10/14/2014
1410929-005D	MW-18S	10/9/2014 9:27:00AM	Groundwater	Total Organic Carbon (TOC)			10/14/2014
1410929-005E	MW-18S	10/9/2014 9:27:00AM	Groundwater	Sulfide by SW9030/9034		10/14/2014	10/14/2014
1410929-005F	MW-18S	10/9/2014 9:27:00AM	Groundwater	ION SCAN			10/10/2014
1410929-005F	MW-18S	10/9/2014 9:27:00AM	Groundwater	Ferrous Iron			10/10/2014
1410929-006A	MW-19S	10/9/2014 11:57:00AM	Groundwater	TCL VOLATILE ORGANICS		10/12/2014	10/12/2014
1410929-006B	MW-19S	10/9/2014 11:57:00AM	Groundwater	GC Analysis of Gaseous Samples		10/14/2014	10/15/2014
1410929-006C	MW-19S	10/9/2014 11:57:00AM	Groundwater	TOTAL METALS BY ICP		10/14/2014	10/14/2014
1410929-006D	MW-19S	10/9/2014 11:57:00AM	Groundwater	Total Organic Carbon (TOC)			10/14/2014
1410929-006E	MW-19S	10/9/2014 11:57:00AM	Groundwater	Sulfide by SW9030/9034		10/14/2014	10/14/2014
1410929-006F	MW-19S	10/9/2014 11:57:00AM	Groundwater	ION SCAN			10/10/2014
1410929-006F	MW-19S	10/9/2014 11:57:00AM	Groundwater	Ferrous Iron			10/10/2014
1410929-007A	MW-20S	10/9/2014 2:52:00PM	Groundwater	TCL VOLATILE ORGANICS		10/12/2014	10/12/2014
1410929-007B	MW-20S	10/9/2014 2:52:00PM	Groundwater	GC Analysis of Gaseous Samples		10/14/2014	10/15/2014
1410929-007C	MW-20S	10/9/2014 2:52:00PM	Groundwater	TOTAL METALS BY ICP		10/14/2014	10/14/2014
1410929-007D	MW-20S	10/9/2014 2:52:00PM	Groundwater	Total Organic Carbon (TOC)			10/14/2014
1410929-007E	MW-20S	10/9/2014 2:52:00PM	Groundwater	Sulfide by SW9030/9034		10/14/2014	10/14/2014
1410929-007F	MW-20S	10/9/2014 2:52:00PM	Groundwater	ION SCAN			10/10/2014
1410929-007F	MW-20S	10/9/2014 2:52:00PM	Groundwater	Ferrous Iron			10/10/2014
1410929-008A	MW-6S	10/9/2014 4:38:00PM	Groundwater	TCL VOLATILE ORGANICS		10/12/2014	10/12/2014
1410929-008B	MW-6S	10/9/2014 4:38:00PM	Groundwater	GC Analysis of Gaseous Samples		10/14/2014	10/15/2014
1410929-008C	MW-6S	10/9/2014 4:38:00PM	Groundwater	TOTAL METALS BY ICP		10/14/2014	10/14/2014

Client: Sailors Engineering Associates
Project: Spalding Crnrs S/C
Lab Order: 1410929

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1410929-008D	MW-6S	10/9/2014 4:38:00PM	Groundwater	Total Organic Carbon (TOC)			10/14/2014
1410929-008E	MW-6S	10/9/2014 4:38:00PM	Groundwater	Sulfide by SW9030/9034		10/14/2014	10/14/2014
1410929-008F	MW-6S	10/9/2014 4:38:00PM	Groundwater	ION SCAN			10/10/2014
1410929-008F	MW-6S	10/9/2014 4:38:00PM	Groundwater	Ferrous Iron			10/10/2014

Client: Sailors Engineering Associates
Project Name: Spalding Crnrs S/C
Workorder: 1410929

ANALYTICAL QC SUMMARY REPORT

BatchID: 197461

Sample ID: **MB-197461** Client ID: Units: **ug/L** Prep Date: **10/14/2014** Run No: **277898**
SampleType: **MBLK** TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175** BatchID: **197461** Analysis Date: **10/15/2014** Seq No: **5872526**

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-197461** Client ID: Units: **ug/L** Prep Date: **10/14/2014** Run No: **277898**
SampleType: **LCS** TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175** BatchID: **197461** Analysis Date: **10/15/2014** Seq No: **5872529**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Ethane	107.4	9	200.0		53.7	41.6	115				
Ethylene	71.67	7	200.0		35.8	26.9	115				
Methane	117.7	4	200.0		58.9	45.2	115				

Sample ID: **LCSD-197461** Client ID: Units: **ug/L** Prep Date: **10/14/2014** Run No: **277898**
SampleType: **LCSD** TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175** BatchID: **197461** Analysis Date: **10/15/2014** Seq No: **5872532**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Ethane	104.5	9	200.0		52.2	41.6	115	107.4	2.78	20	
Ethylene	69.87	7	200.0		34.9	26.9	115	71.67	2.55	20	
Methane	114.5	4	200.0		57.3	45.2	115	117.7	2.75	20	

Sample ID: **1410921-043BMS** Client ID: Units: **ug/L** Prep Date: **10/14/2014** Run No: **277898**
SampleType: **MS** TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175** BatchID: **197461** Analysis Date: **10/15/2014** Seq No: **5873548**

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	40.1	115				
Ethylene	69.56	7	200.0		34.8	24.5	115				
Methane	110.8	4	200.0	5.989	52.4	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: Sailors Engineering Associates
Project Name: Spalding Crnrs S/C
Workorder: 1410929

ANALYTICAL QC SUMMARY REPORT

BatchID: 197461

Sample ID: **1410921-043BMSD** Client ID:
SampleType: **MSD** TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175**
Units: **ug/L** BatchID: **197461**
Prep Date: **10/14/2014** Analysis Date: **10/15/2014**
Run No: **277898** Seq No: **5873549**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Ethane	99.48	9	200.0		49.7	40.1	115	100.4	0.882	20	
Ethylene	69.03	7	200.0		34.5	24.5	115	69.56	0.763	20	
Methane	108.7	4	200.0	5.989	51.3	41.1	115	110.8	1.97	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: Sailors Engineering Associates
Project Name: Spalding Crnrs S/C
Workorder: 1410929

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
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: Sailors Engineering Associates
Project Name: Spalding Crnrs S/C
Workorder: 1410929

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
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: Sailors Engineering Associates
Project Name: Spalding Crnrs S/C
Workorder: 1410929

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: **MW-1D** 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: **MW-1D** 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: Sailors Engineering Associates
Project Name: Spalding Crnrs S/C
Workorder: 1410929

ANALYTICAL QC SUMMARY REPORT

BatchID: 197537

Sample ID: **1410929-002AMSD** Client ID: **MW-1D** 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: Sailors Engineering Associates
Project Name: Spalding Crnrs S/C
Workorder: 1410929

ANALYTICAL QC SUMMARY REPORT

BatchID: 197606

Sample ID: **MB-197606** Client ID: Units: **mg/L** Prep Date: **10/14/2014** Run No: **277888**
SampleType: **MBLK** TestCode: **METALS, TOTAL** **SW6010C** BatchID: **197606** Analysis Date: **10/14/2014** Seq No: **5872409**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron	BRL	0.100									

Sample ID: **LCS-197606** Client ID: Units: **mg/L** Prep Date: **10/14/2014** Run No: **277888**
SampleType: **LCS** TestCode: **METALS, TOTAL** **SW6010C** BatchID: **197606** Analysis Date: **10/14/2014** Seq No: **5872410**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron	10.28	0.100	10.00		103	80	120				

Sample ID: **1410929-008CMS** Client ID: **MW-6S** Units: **mg/L** Prep Date: **10/14/2014** Run No: **277888**
SampleType: **MS** TestCode: **METALS, TOTAL** **SW6010C** BatchID: **197606** Analysis Date: **10/14/2014** Seq No: **5872412**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron	13.02	0.100	10.00	3.088	99.3	75	125				

Sample ID: **1410929-008CMSD** Client ID: **MW-6S** Units: **mg/L** Prep Date: **10/14/2014** Run No: **277888**
SampleType: **MSD** TestCode: **METALS, TOTAL** **SW6010C** BatchID: **197606** Analysis Date: **10/14/2014** Seq No: **5872413**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron	13.19	0.100	10.00	3.088	101	75	125	13.02	1.33	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: Sailors Engineering Associates
Project Name: Spalding Crnrs S/C
Workorder: 1410929

ANALYTICAL QC SUMMARY REPORT

BatchID: 197736

Sample ID: **MB-197736**	Client ID:			Units: **mg/L**		Prep Date: **10/14/2014**		Run No: **277930**	
SampleType: **MBLK**	TestCode: **Sulfide by SW9030B/9034**			BatchID: **197736**		Analysis Date: **10/14/2014**		Seq No: **5873403**	
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-197736**	Client ID:			Units: **mg/L**		Prep Date: **10/14/2014**		Run No: **277930**	
SampleType: **LCS**	TestCode: **Sulfide by SW9030B/9034**			BatchID: **197736**		Analysis Date: **10/14/2014**		Seq No: **5873404**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfide	384.0	2.00	384.0		100	40	120				

Sample ID: **1410929-005EMS**	Client ID: **MW-18S**			Units: **mg/L**		Prep Date: **10/14/2014**		Run No: **277930**	
SampleType: **MS**	TestCode: **Sulfide by SW9030B/9034**			BatchID: **197736**		Analysis Date: **10/14/2014**		Seq No: **5873414**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfide	18.60	2.00	19.20		96.9	76.7	120				

Sample ID: **1410929-005EMSD**	Client ID: **MW-18S**			Units: **mg/L**		Prep Date: **10/14/2014**		Run No: **277930**	
SampleType: **MSD**	TestCode: **Sulfide by SW9030B/9034**			BatchID: **197736**		Analysis Date: **10/14/2014**		Seq No: **5873415**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfide	18.80	2.00	19.20		97.9	76.7	120	18.60	1.07	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: Sailors Engineering Associates
Project Name: Spalding Crnrs S/C
Workorder: 1410929

ANALYTICAL QC SUMMARY REPORT

BatchID: R277874

Sample ID: **MB-R277874**	Client ID:			Units: **mg/L**	Prep Date:		Run No: **277874**
SampleType: **MBLK**	TestCode: **Ferrous Iron** **SM3500-Fe-B**			BatchID: **R277874**	Analysis Date: **10/09/2014**		Seq No: **5871984**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron, as Ferrous (Fe+2)	BRL	0.100									

Sample ID: **LCS-R277874**	Client ID:			Units: **mg/L**	Prep Date:		Run No: **277874**
SampleType: **LCS**	TestCode: **Ferrous Iron** **SM3500-Fe-B**			BatchID: **R277874**	Analysis Date: **10/09/2014**		Seq No: **5871985**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron, as Ferrous (Fe+2)	0.5011	0.100	0.5000		100	85	115				

Sample ID: **1410771-004EMS**	Client ID:			Units: **mg/L**	Prep Date:		Run No: **277874**
SampleType: **MS**	TestCode: **Ferrous Iron** **SM3500-Fe-B**			BatchID: **R277874**	Analysis Date: **10/09/2014**		Seq No: **5872000**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron, as Ferrous (Fe+2)	0.4931	0.100	0.5000		98.6	80	120				

Sample ID: **1410771-004EMSD**	Client ID:			Units: **mg/L**	Prep Date:		Run No: **277874**
SampleType: **MSD**	TestCode: **Ferrous Iron** **SM3500-Fe-B**			BatchID: **R277874**	Analysis Date: **10/09/2014**		Seq No: **5872001**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron, as Ferrous (Fe+2)	0.5091	0.100	0.5000		102	80	120	0.4931	3.19	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: Sailors Engineering Associates
Project Name: Spalding Crnrs S/C
Workorder: 1410929

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: Sailors Engineering Associates
Project Name: Spalding Crnrs S/C
Workorder: 1410929

ANALYTICAL QC SUMMARY REPORT

BatchID: R278037

Sample ID: **MB-R278037** Client ID: Units: **mg/L** Prep Date: Run No: **278037**
SampleType: **MBLK** TestCode: **ION SCAN SW9056A** BatchID: **R278037** Analysis Date: **10/10/2014** Seq No: **5875456**

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									
Nitrite	BRL	0.25									
Sulfate	BRL	1.0									

Sample ID: **LCS-R278037** Client ID: Units: **mg/L** Prep Date: Run No: **278037**
SampleType: **LCS** TestCode: **ION SCAN SW9056A** BatchID: **R278037** Analysis Date: **10/10/2014** Seq No: **5875457**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	9.931	1.0	10.00		99.3	90	110				
Nitrate	5.015	0.25	5.000		100	90	110				
Nitrite	5.254	0.25	5.000		105	90	110				
Sulfate	22.96	1.0	25.00		91.9	90	110				

Sample ID: **1410929-005FMS** Client ID: **MW-18S** Units: **mg/L** Prep Date: Run No: **278037**
SampleType: **MS** TestCode: **ION SCAN SW9056A** BatchID: **R278037** Analysis Date: **10/10/2014** Seq No: **5875463**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	14.53	1.0	10.00	4.304	102	90	110				
Nitrate	6.598	0.25	5.000	1.589	100	90	110				
Nitrite	5.293	0.25	5.000		106	90	110				
Sulfate	24.15	1.0	25.00	0.9523	92.8	90	110				

Sample ID: **1410929-005FMSD** Client ID: **MW-18S** Units: **mg/L** Prep Date: Run No: **278037**
SampleType: **MSD** TestCode: **ION SCAN SW9056A** BatchID: **R278037** Analysis Date: **10/10/2014** Seq No: **5875464**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	14.37	1.0	10.00	4.304	101	90	110	14.53	1.07	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: Sailors Engineering Associates
Project Name: Spalding Crnrs S/C
Workorder: 1410929

ANALYTICAL QC SUMMARY REPORT

BatchID: R278037

Sample ID: **1410929-005FMSD** Client ID: **MW-18S** Units: **mg/L** Prep Date: Run No: **278037**
SampleType: **MSD** TestCode: **ION SCAN SW9056A** BatchID: **R278037** Analysis Date: **10/10/2014** Seq No: **5875464**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	6.596	0.25	5.000	1.589	100	90	110	6.598	0.026	20	
Nitrite	5.392	0.25	5.000		108	90	110	5.293	1.85	20	
Sulfate	24.02	1.0	25.00	0.9523	92.3	90	110	24.15	0.568	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		

AES

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

October 16, 2014

Rick Rudolph
Sailors Engineering Associates
1675 Spectrum Drive
Lawrenceville GA 30043

TEL: (770) 962-5922
FAX: (770) 962-7964

RE: Spalding Crnrs S/C

Dear Rick Rudolph: Order No: 1410C02

Analytical Environmental Services, Inc. received 5 samples on 10/13/2014 3:07:00 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.

Dorothy deBruyn
Project Manager

3080 Presidential Drive • Atlanta, Georgia 30340 • Tel: 770.457.8177 • Fax: 770.457.8188 • Toll Free: 800.972.4889
www.aesatlanta.com

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: 1410C02

Date: 10/13/14 Page 1 of 1

COMPANY:	ADDRESS:
Sailors Eng. Assoc	1675 Spectrum Dr Lawrenceville, GA 30043
PHONE: 770-962-5922	FAX:
SAMPLED BY: Michael Short	SIGNATURE:

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	ANALYSIS REQUESTED: VOC	PRESERVATION (See codes)	REMARKS	No # of Containers
1	MW-2S	10/13	10:14	✓		GW	✓			2
2	MW-21S	10/13	11:17	✓		GW	✓			2
3	SW-5	10/13	12:37	✓		GW	✓			2
4	MW-22S	10/13	14:34	✓		GW	✓			2
5	Trip Blank	10/13				W	✓			2
6										
7										
8										
9										
10										
11										
12										
13										
14										

Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.

RELINQUISHED BY:	DATE/TIME	RECEIVED BY	DATE/TIME
1:	10/13/14 15:07	1: Cataya Reeves	10/13/14 3:07p
2:		2:	
3:		3:	

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD
OUT / / VIA:
IN / / VIA:
CLIENT FedEx UPS MAIL COURIER GREYHOUND OTHER_____

PROJECT INFORMATION
PROJECT NAME: Spalding Corners S/C
PROJECT #: 102-063
SITE ADDRESS: 720 Spalding Dr
SEND REPORT TO: Rick Rudolph
INVOICE TO: (IF DIFFERENT FROM ABOVE)
QUOTE #:_____ PO#:_____

RECEIPT
Total # of Containers: 10

Turnaround Time Request
- (●) Standard 5 Business Days
- ( ) 2 Business Day Rush
- ( ) Next Business Day Rush
- ( ) Same Day Rush (auth req.)
- ( ) Other _____

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

White Copy - Original; Yellow Copy - Client

Analytical Environmental Services, Inc **Date:** 16-Oct-14

Client:	Sailors Engineering Associates	**Client Sample ID:**	MW-5S
Project Name:	Spalding Crnrs S/C	**Collection Date:**	10/13/2014 10:14:00 AM
Lab ID:	1410C02-001	**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	197667	1	10/15/2014 09:36	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	197667	1	10/15/2014 09:36	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	197667	1	10/15/2014 09:36	GK
1,1-Dichloroethane	BRL	5.0		ug/L	197667	1	10/15/2014 09:36	GK
1,1-Dichloroethene	BRL	5.0		ug/L	197667	1	10/15/2014 09:36	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	197667	1	10/15/2014 09:36	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	197667	1	10/15/2014 09:36	GK
1,2-Dibromoethane	BRL	5.0		ug/L	197667	1	10/15/2014 09:36	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	197667	1	10/15/2014 09:36	GK
1,2-Dichloroethane	BRL	5.0		ug/L	197667	1	10/15/2014 09:36	GK
1,2-Dichloropropane	BRL	5.0		ug/L	197667	1	10/15/2014 09:36	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	197667	1	10/15/2014 09:36	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	197667	1	10/15/2014 09:36	GK
2-Butanone	BRL	50		ug/L	197667	1	10/15/2014 09:36	GK
2-Hexanone	BRL	10		ug/L	197667	1	10/15/2014 09:36	GK
4-Methyl-2-pentanone	BRL	10		ug/L	197667	1	10/15/2014 09:36	GK
Acetone	BRL	50		ug/L	197667	1	10/15/2014 09:36	GK
Benzene	BRL	5.0		ug/L	197667	1	10/15/2014 09:36	GK
Bromodichloromethane	BRL	5.0		ug/L	197667	1	10/15/2014 09:36	GK
Bromoform	BRL	5.0		ug/L	197667	1	10/15/2014 09:36	GK
Bromomethane	BRL	5.0		ug/L	197667	1	10/15/2014 09:36	GK
Carbon disulfide	BRL	5.0		ug/L	197667	1	10/15/2014 09:36	GK
Carbon tetrachloride	BRL	5.0		ug/L	197667	1	10/15/2014 09:36	GK
Chlorobenzene	BRL	5.0		ug/L	197667	1	10/15/2014 09:36	GK
Chloroethane	BRL	10		ug/L	197667	1	10/15/2014 09:36	GK
Chloroform	BRL	5.0		ug/L	197667	1	10/15/2014 09:36	GK
Chloromethane	BRL	10		ug/L	197667	1	10/15/2014 09:36	GK
cis-1,2-Dichloroethene	BRL	1.0		ug/L	197667	1	10/15/2014 09:36	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	197667	1	10/15/2014 09:36	GK
Cyclohexane	BRL	5.0		ug/L	197667	1	10/15/2014 09:36	GK
Dibromochloromethane	BRL	5.0		ug/L	197667	1	10/15/2014 09:36	GK
Dichlorodifluoromethane	BRL	10		ug/L	197667	1	10/15/2014 09:36	GK
Ethylbenzene	BRL	5.0		ug/L	197667	1	10/15/2014 09:36	GK
Freon-113	BRL	10		ug/L	197667	1	10/15/2014 09:36	GK
Isopropylbenzene	BRL	5.0		ug/L	197667	1	10/15/2014 09:36	GK
m,p-Xylene	BRL	5.0		ug/L	197667	1	10/15/2014 09:36	GK
Methyl acetate	BRL	5.0		ug/L	197667	1	10/15/2014 09:36	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	197667	1	10/15/2014 09:36	GK
Methylcyclohexane	BRL	5.0		ug/L	197667	1	10/15/2014 09:36	GK
Methylene chloride	BRL	5.0		ug/L	197667	1	10/15/2014 09:36	GK
o-Xylene	BRL	5.0		ug/L	197667	1	10/15/2014 09:36	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 **Date:** 16-Oct-14

Client:	Sailors Engineering Associates	**Client Sample ID:**	MW-5S
Project Name:	Spalding Crnrs S/C	**Collection Date:**	10/13/2014 10:14:00 AM
Lab ID:	1410C02-001	**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	197667	1	10/15/2014 09:36	GK
Tetrachloroethene	67	1.0		ug/L	197667	1	10/15/2014 09:36	GK
Toluene	BRL	5.0		ug/L	197667	1	10/15/2014 09:36	GK
trans-1,2-Dichloroethene	BRL	1.0		ug/L	197667	1	10/15/2014 09:36	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	197667	1	10/15/2014 09:36	GK
Trichloroethene	BRL	1.0		ug/L	197667	1	10/15/2014 09:36	GK
Trichlorofluoromethane	BRL	5.0		ug/L	197667	1	10/15/2014 09:36	GK
Vinyl chloride	BRL	1.0		ug/L	197667	1	10/15/2014 09:36	GK
Surr: 4-Bromofluorobenzene	90.1	66.2-120		%REC	197667	1	10/15/2014 09:36	GK
Surr: Dibromofluoromethane	99.7	79.5-121		%REC	197667	1	10/15/2014 09:36	GK
Surr: Toluene-d8	97.4	77-117		%REC	197667	1	10/15/2014 09:36	GK

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:** 16-Oct-14

Client:	Sailors Engineering Associates	**Client Sample ID:**	MW-21S
Project Name:	Spalding Crnrs S/C	**Collection Date:**	10/13/2014 11:17:00 AM
Lab ID:	1410C02-002	**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	197667	1	10/16/2014 07:38	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	197667	1	10/16/2014 07:38	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	197667	1	10/16/2014 07:38	GK
1,1-Dichloroethane	BRL	5.0		ug/L	197667	1	10/16/2014 07:38	GK
1,1-Dichloroethene	BRL	5.0		ug/L	197667	1	10/16/2014 07:38	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	197667	1	10/16/2014 07:38	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	197667	1	10/16/2014 07:38	GK
1,2-Dibromoethane	BRL	5.0		ug/L	197667	1	10/16/2014 07:38	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	197667	1	10/16/2014 07:38	GK
1,2-Dichloroethane	BRL	5.0		ug/L	197667	1	10/16/2014 07:38	GK
1,2-Dichloropropane	BRL	5.0		ug/L	197667	1	10/16/2014 07:38	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	197667	1	10/16/2014 07:38	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	197667	1	10/16/2014 07:38	GK
2-Butanone	BRL	50		ug/L	197667	1	10/16/2014 07:38	GK
2-Hexanone	BRL	10		ug/L	197667	1	10/16/2014 07:38	GK
4-Methyl-2-pentanone	BRL	10		ug/L	197667	1	10/16/2014 07:38	GK
Acetone	BRL	50		ug/L	197667	1	10/16/2014 07:38	GK
Benzene	BRL	5.0		ug/L	197667	1	10/16/2014 07:38	GK
Bromodichloromethane	BRL	5.0		ug/L	197667	1	10/16/2014 07:38	GK
Bromoform	BRL	5.0		ug/L	197667	1	10/16/2014 07:38	GK
Bromomethane	BRL	5.0		ug/L	197667	1	10/16/2014 07:38	GK
Carbon disulfide	BRL	5.0		ug/L	197667	1	10/16/2014 07:38	GK
Carbon tetrachloride	BRL	5.0		ug/L	197667	1	10/16/2014 07:38	GK
Chlorobenzene	BRL	5.0		ug/L	197667	1	10/16/2014 07:38	GK
Chloroethane	BRL	10		ug/L	197667	1	10/16/2014 07:38	GK
Chloroform	BRL	5.0		ug/L	197667	1	10/16/2014 07:38	GK
Chloromethane	BRL	10		ug/L	197667	1	10/16/2014 07:38	GK
cis-1,2-Dichloroethene	BRL	1.0		ug/L	197667	1	10/16/2014 07:38	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	197667	1	10/16/2014 07:38	GK
Cyclohexane	BRL	5.0		ug/L	197667	1	10/16/2014 07:38	GK
Dibromochloromethane	BRL	5.0		ug/L	197667	1	10/16/2014 07:38	GK
Dichlorodifluoromethane	BRL	10		ug/L	197667	1	10/16/2014 07:38	GK
Ethylbenzene	BRL	5.0		ug/L	197667	1	10/16/2014 07:38	GK
Freon-113	BRL	10		ug/L	197667	1	10/16/2014 07:38	GK
Isopropylbenzene	BRL	5.0		ug/L	197667	1	10/16/2014 07:38	GK
m,p-Xylene	BRL	5.0		ug/L	197667	1	10/16/2014 07:38	GK
Methyl acetate	BRL	5.0		ug/L	197667	1	10/16/2014 07:38	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	197667	1	10/16/2014 07:38	GK
Methylcyclohexane	BRL	5.0		ug/L	197667	1	10/16/2014 07:38	GK
Methylene chloride	BRL	5.0		ug/L	197667	1	10/16/2014 07:38	GK
o-Xylene	BRL	5.0		ug/L	197667	1	10/16/2014 07:38	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 **Date:** 16-Oct-14

Client:	Sailors Engineering Associates	**Client Sample ID:**	MW-21S
Project Name:	Spalding Crnrs S/C	**Collection Date:**	10/13/2014 11:17:00 AM
Lab ID:	1410C02-002	**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	197667	1	10/16/2014 07:38	GK
Tetrachloroethene	20	1.0		ug/L	197667	1	10/16/2014 07:38	GK
Toluene	BRL	5.0		ug/L	197667	1	10/16/2014 07:38	GK
trans-1,2-Dichloroethene	BRL	1.0		ug/L	197667	1	10/16/2014 07:38	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	197667	1	10/16/2014 07:38	GK
Trichloroethene	BRL	1.0		ug/L	197667	1	10/16/2014 07:38	GK
Trichlorofluoromethane	BRL	5.0		ug/L	197667	1	10/16/2014 07:38	GK
Vinyl chloride	BRL	1.0		ug/L	197667	1	10/16/2014 07:38	GK
Surr: 4-Bromofluorobenzene	88.4	66.2-120		%REC	197667	1	10/16/2014 07:38	GK
Surr: Dibromofluoromethane	98.1	79.5-121		%REC	197667	1	10/16/2014 07:38	GK
Surr: Toluene-d8	97.9	77-117		%REC	197667	1	10/16/2014 07:38	GK

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:** 16-Oct-14

Client:	Sailors Engineering Associates	**Client Sample ID:**	SW-5
Project Name:	Spalding Crnrs S/C	**Collection Date:**	10/13/2014 12:37:00 PM
Lab ID:	1410C02-003	**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	197667	1	10/16/2014 08:05	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	197667	1	10/16/2014 08:05	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	197667	1	10/16/2014 08:05	GK
1,1-Dichloroethane	BRL	5.0		ug/L	197667	1	10/16/2014 08:05	GK
1,1-Dichloroethene	BRL	5.0		ug/L	197667	1	10/16/2014 08:05	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	197667	1	10/16/2014 08:05	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	197667	1	10/16/2014 08:05	GK
1,2-Dibromoethane	BRL	5.0		ug/L	197667	1	10/16/2014 08:05	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	197667	1	10/16/2014 08:05	GK
1,2-Dichloroethane	BRL	5.0		ug/L	197667	1	10/16/2014 08:05	GK
1,2-Dichloropropane	BRL	5.0		ug/L	197667	1	10/16/2014 08:05	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	197667	1	10/16/2014 08:05	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	197667	1	10/16/2014 08:05	GK
2-Butanone	BRL	50		ug/L	197667	1	10/16/2014 08:05	GK
2-Hexanone	BRL	10		ug/L	197667	1	10/16/2014 08:05	GK
4-Methyl-2-pentanone	BRL	10		ug/L	197667	1	10/16/2014 08:05	GK
Acetone	BRL	50		ug/L	197667	1	10/16/2014 08:05	GK
Benzene	BRL	5.0		ug/L	197667	1	10/16/2014 08:05	GK
Bromodichloromethane	BRL	5.0		ug/L	197667	1	10/16/2014 08:05	GK
Bromoform	BRL	5.0		ug/L	197667	1	10/16/2014 08:05	GK
Bromomethane	BRL	5.0		ug/L	197667	1	10/16/2014 08:05	GK
Carbon disulfide	BRL	5.0		ug/L	197667	1	10/16/2014 08:05	GK
Carbon tetrachloride	BRL	5.0		ug/L	197667	1	10/16/2014 08:05	GK
Chlorobenzene	BRL	5.0		ug/L	197667	1	10/16/2014 08:05	GK
Chloroethane	BRL	10		ug/L	197667	1	10/16/2014 08:05	GK
Chloroform	BRL	5.0		ug/L	197667	1	10/16/2014 08:05	GK
Chloromethane	BRL	10		ug/L	197667	1	10/16/2014 08:05	GK
cis-1,2-Dichloroethene	BRL	1.0		ug/L	197667	1	10/16/2014 08:05	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	197667	1	10/16/2014 08:05	GK
Cyclohexane	BRL	5.0		ug/L	197667	1	10/16/2014 08:05	GK
Dibromochloromethane	BRL	5.0		ug/L	197667	1	10/16/2014 08:05	GK
Dichlorodifluoromethane	BRL	10		ug/L	197667	1	10/16/2014 08:05	GK
Ethylbenzene	BRL	5.0		ug/L	197667	1	10/16/2014 08:05	GK
Freon-113	BRL	10		ug/L	197667	1	10/16/2014 08:05	GK
Isopropylbenzene	BRL	5.0		ug/L	197667	1	10/16/2014 08:05	GK
m,p-Xylene	BRL	5.0		ug/L	197667	1	10/16/2014 08:05	GK
Methyl acetate	BRL	5.0		ug/L	197667	1	10/16/2014 08:05	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	197667	1	10/16/2014 08:05	GK
Methylcyclohexane	BRL	5.0		ug/L	197667	1	10/16/2014 08:05	GK
Methylene chloride	BRL	5.0		ug/L	197667	1	10/16/2014 08:05	GK
o-Xylene	BRL	5.0		ug/L	197667	1	10/16/2014 08:05	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 **Date:** 16-Oct-14

Client:	Sailors Engineering Associates	**Client Sample ID:**	SW-5
Project Name:	Spalding Crnrs S/C	**Collection Date:**	10/13/2014 12:37:00 PM
Lab ID:	1410C02-003	**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	197667	1	10/16/2014 08:05	GK
Tetrachloroethene	BRL	1.0		ug/L	197667	1	10/16/2014 08:05	GK
Toluene	BRL	5.0		ug/L	197667	1	10/16/2014 08:05	GK
trans-1,2-Dichloroethene	BRL	1.0		ug/L	197667	1	10/16/2014 08:05	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	197667	1	10/16/2014 08:05	GK
Trichloroethene	BRL	1.0		ug/L	197667	1	10/16/2014 08:05	GK
Trichlorofluoromethane	BRL	5.0		ug/L	197667	1	10/16/2014 08:05	GK
Vinyl chloride	BRL	1.0		ug/L	197667	1	10/16/2014 08:05	GK
Surr: 4-Bromofluorobenzene	87.6	66.2-120		%REC	197667	1	10/16/2014 08:05	GK
Surr: Dibromofluoromethane	95.6	79.5-121		%REC	197667	1	10/16/2014 08:05	GK
Surr: Toluene-d8	98.1	77-117		%REC	197667	1	10/16/2014 08:05	GK

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:** 16-Oct-14

Client:	Sailors Engineering Associates	**Client Sample ID:**	MW-22S
Project Name:	Spalding Crnrs S/C	**Collection Date:**	10/13/2014 2:34:00 PM
Lab ID:	1410C02-004	**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	197667	1	10/16/2014 11:00	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	197667	1	10/16/2014 11:00	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	197667	1	10/16/2014 11:00	GK
1,1-Dichloroethane	BRL	5.0		ug/L	197667	1	10/16/2014 11:00	GK
1,1-Dichloroethene	BRL	5.0		ug/L	197667	1	10/16/2014 11:00	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	197667	1	10/16/2014 11:00	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	197667	1	10/16/2014 11:00	GK
1,2-Dibromoethane	BRL	5.0		ug/L	197667	1	10/16/2014 11:00	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	197667	1	10/16/2014 11:00	GK
1,2-Dichloroethane	BRL	5.0		ug/L	197667	1	10/16/2014 11:00	GK
1,2-Dichloropropane	BRL	5.0		ug/L	197667	1	10/16/2014 11:00	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	197667	1	10/16/2014 11:00	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	197667	1	10/16/2014 11:00	GK
2-Butanone	BRL	50		ug/L	197667	1	10/16/2014 11:00	GK
2-Hexanone	BRL	10		ug/L	197667	1	10/16/2014 11:00	GK
4-Methyl-2-pentanone	BRL	10		ug/L	197667	1	10/16/2014 11:00	GK
Acetone	BRL	50		ug/L	197667	1	10/16/2014 11:00	GK
Benzene	BRL	5.0		ug/L	197667	1	10/16/2014 11:00	GK
Bromodichloromethane	BRL	5.0		ug/L	197667	1	10/16/2014 11:00	GK
Bromoform	BRL	5.0		ug/L	197667	1	10/16/2014 11:00	GK
Bromomethane	BRL	5.0		ug/L	197667	1	10/16/2014 11:00	GK
Carbon disulfide	BRL	5.0		ug/L	197667	1	10/16/2014 11:00	GK
Carbon tetrachloride	BRL	5.0		ug/L	197667	1	10/16/2014 11:00	GK
Chlorobenzene	BRL	5.0		ug/L	197667	1	10/16/2014 11:00	GK
Chloroethane	BRL	10		ug/L	197667	1	10/16/2014 11:00	GK
Chloroform	BRL	5.0		ug/L	197667	1	10/16/2014 11:00	GK
Chloromethane	BRL	10		ug/L	197667	1	10/16/2014 11:00	GK
cis-1,2-Dichloroethene	BRL	1.0		ug/L	197667	1	10/16/2014 11:00	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	197667	1	10/16/2014 11:00	GK
Cyclohexane	BRL	5.0		ug/L	197667	1	10/16/2014 11:00	GK
Dibromochloromethane	BRL	5.0		ug/L	197667	1	10/16/2014 11:00	GK
Dichlorodifluoromethane	BRL	10		ug/L	197667	1	10/16/2014 11:00	GK
Ethylbenzene	BRL	5.0		ug/L	197667	1	10/16/2014 11:00	GK
Freon-113	BRL	10		ug/L	197667	1	10/16/2014 11:00	GK
Isopropylbenzene	BRL	5.0		ug/L	197667	1	10/16/2014 11:00	GK
m,p-Xylene	BRL	5.0		ug/L	197667	1	10/16/2014 11:00	GK
Methyl acetate	BRL	5.0		ug/L	197667	1	10/16/2014 11:00	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	197667	1	10/16/2014 11:00	GK
Methylcyclohexane	BRL	5.0		ug/L	197667	1	10/16/2014 11:00	GK
Methylene chloride	BRL	5.0		ug/L	197667	1	10/16/2014 11:00	GK
o-Xylene	BRL	5.0		ug/L	197667	1	10/16/2014 11:00	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 **Date:** 16-Oct-14

Client:	Sailors Engineering Associates	**Client Sample ID:**	MW-22S
Project Name:	Spalding Crnrs S/C	**Collection Date:**	10/13/2014 2:34:00 PM
Lab ID:	1410C02-004	**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	197667	1	10/16/2014 11:00	GK
Tetrachloroethene	BRL	1.0		ug/L	197667	1	10/16/2014 11:00	GK
Toluene	BRL	5.0		ug/L	197667	1	10/16/2014 11:00	GK
trans-1,2-Dichloroethene	BRL	1.0		ug/L	197667	1	10/16/2014 11:00	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	197667	1	10/16/2014 11:00	GK
Trichloroethene	BRL	1.0		ug/L	197667	1	10/16/2014 11:00	GK
Trichlorofluoromethane	BRL	5.0		ug/L	197667	1	10/16/2014 11:00	GK
Vinyl chloride	BRL	1.0		ug/L	197667	1	10/16/2014 11:00	GK
Surr: 4-Bromofluorobenzene	90.7	66.2-120		%REC	197667	1	10/16/2014 11:00	GK
Surr: Dibromofluoromethane	96.5	79.5-121		%REC	197667	1	10/16/2014 11:00	GK
Surr: Toluene-d8	128	77-117	S	%REC	197667	1	10/16/2014 11:00	GK

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:** 16-Oct-14

Client:	Sailors Engineering Associates	**Client Sample ID:**	TRIP BLANK
Project Name:	Spalding Crnrs S/C	**Collection Date:**	10/13/2014
Lab ID:	1410C02-005	**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	197667	1	10/16/2014 01:49	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	197667	1	10/16/2014 01:49	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	197667	1	10/16/2014 01:49	GK
1,1-Dichloroethane	BRL	5.0		ug/L	197667	1	10/16/2014 01:49	GK
1,1-Dichloroethene	BRL	5.0		ug/L	197667	1	10/16/2014 01:49	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	197667	1	10/16/2014 01:49	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	197667	1	10/16/2014 01:49	GK
1,2-Dibromoethane	BRL	5.0		ug/L	197667	1	10/16/2014 01:49	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	197667	1	10/16/2014 01:49	GK
1,2-Dichloroethane	BRL	5.0		ug/L	197667	1	10/16/2014 01:49	GK
1,2-Dichloropropane	BRL	5.0		ug/L	197667	1	10/16/2014 01:49	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	197667	1	10/16/2014 01:49	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	197667	1	10/16/2014 01:49	GK
2-Butanone	BRL	50		ug/L	197667	1	10/16/2014 01:49	GK
2-Hexanone	BRL	10		ug/L	197667	1	10/16/2014 01:49	GK
4-Methyl-2-pentanone	BRL	10		ug/L	197667	1	10/16/2014 01:49	GK
Acetone	BRL	50		ug/L	197667	1	10/16/2014 01:49	GK
Benzene	BRL	5.0		ug/L	197667	1	10/16/2014 01:49	GK
Bromodichloromethane	BRL	5.0		ug/L	197667	1	10/16/2014 01:49	GK
Bromoform	BRL	5.0		ug/L	197667	1	10/16/2014 01:49	GK
Bromomethane	BRL	5.0		ug/L	197667	1	10/16/2014 01:49	GK
Carbon disulfide	BRL	5.0		ug/L	197667	1	10/16/2014 01:49	GK
Carbon tetrachloride	BRL	5.0		ug/L	197667	1	10/16/2014 01:49	GK
Chlorobenzene	BRL	5.0		ug/L	197667	1	10/16/2014 01:49	GK
Chloroethane	BRL	10		ug/L	197667	1	10/16/2014 01:49	GK
Chloroform	BRL	5.0		ug/L	197667	1	10/16/2014 01:49	GK
Chloromethane	BRL	10		ug/L	197667	1	10/16/2014 01:49	GK
cis-1,2-Dichloroethene	BRL	1.0		ug/L	197667	1	10/16/2014 01:49	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	197667	1	10/16/2014 01:49	GK
Cyclohexane	BRL	5.0		ug/L	197667	1	10/16/2014 01:49	GK
Dibromochloromethane	BRL	5.0		ug/L	197667	1	10/16/2014 01:49	GK
Dichlorodifluoromethane	BRL	10		ug/L	197667	1	10/16/2014 01:49	GK
Ethylbenzene	BRL	5.0		ug/L	197667	1	10/16/2014 01:49	GK
Freon-113	BRL	10		ug/L	197667	1	10/16/2014 01:49	GK
Isopropylbenzene	BRL	5.0		ug/L	197667	1	10/16/2014 01:49	GK
m,p-Xylene	BRL	5.0		ug/L	197667	1	10/16/2014 01:49	GK
Methyl acetate	BRL	5.0		ug/L	197667	1	10/16/2014 01:49	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	197667	1	10/16/2014 01:49	GK
Methylcyclohexane	BRL	5.0		ug/L	197667	1	10/16/2014 01:49	GK
Methylene chloride	BRL	5.0		ug/L	197667	1	10/16/2014 01:49	GK
o-Xylene	BRL	5.0		ug/L	197667	1	10/16/2014 01:49	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 **Date:** 16-Oct-14

Client:	Sailors Engineering Associates	**Client Sample ID:**	TRIP BLANK
Project Name:	Spalding Crnrs S/C	**Collection Date:**	10/13/2014
Lab ID:	1410C02-005	**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	197667	1	10/16/2014 01:49	GK
Tetrachloroethene	BRL	1.0		ug/L	197667	1	10/16/2014 01:49	GK
Toluene	BRL	5.0		ug/L	197667	1	10/16/2014 01:49	GK
trans-1,2-Dichloroethene	BRL	1.0		ug/L	197667	1	10/16/2014 01:49	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	197667	1	10/16/2014 01:49	GK
Trichloroethene	BRL	1.0		ug/L	197667	1	10/16/2014 01:49	GK
Trichlorofluoromethane	BRL	5.0		ug/L	197667	1	10/16/2014 01:49	GK
Vinyl chloride	BRL	1.0		ug/L	197667	1	10/16/2014 01:49	GK
Surr: 4-Bromofluorobenzene	90.2	66.2-120		%REC	197667	1	10/16/2014 01:49	GK
Surr: Dibromofluoromethane	95.7	79.5-121		%REC	197667	1	10/16/2014 01:49	GK
Surr: Toluene-d8	99	77-117		%REC	197667	1	10/16/2014 01:49	GK

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.

Sample/Cooler Receipt Checklist

Client Sailors Engineering Work Order Number 1410C02

Checklist completed by Tomas Pacurar 10/13/14
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 3.1°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 _____

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.

\\Aes_server\l\Sample Receipt\My Documents\COCs and pH Adjustment Sheet\Sample_Cooler_Recipt_Checklist_Rev1.rtf

Client: Sailors Engineering Associates
Project Name: Spalding Crnrs S/C
Workorder: 1410C02

ANALYTICAL QC SUMMARY REPORT

BatchID: 197667

Sample ID: **MB-197667** Client ID: Units: **ug/L** Prep Date: **10/14/2014** Run No: **277845**
SampleType: **MBLK** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **197667** Analysis Date: **10/15/2014** Seq No: **5871734**

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: Sailors Engineering Associates
Project Name: Spalding Crnrs S/C
Workorder: 1410C02

ANALYTICAL QC SUMMARY REPORT

BatchID: 197667

Sample ID: **MB-197667** Client ID: Units: **ug/L** Prep Date: **10/14/2014** Run No: **277845**
SampleType: **MBLK** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **197667** Analysis Date: **10/15/2014** Seq No: **5871734**

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	45.11	0	50.00		90.2	66.2	120				
Surr: Dibromofluoromethane	49.95	0	50.00		99.9	79.5	121				
Surr: Toluene-d8	49.78	0	50.00		99.6	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: Sailors Engineering Associates
Project Name: Spalding Crnrs S/C
Workorder: 1410C02

ANALYTICAL QC SUMMARY REPORT

BatchID: 197667

Sample ID: **LCS-197667** Client ID: Units: **ug/L** Prep Date: **10/14/2014** Run No: **277845**
SampleType: **LCS** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **197667** Analysis Date: **10/14/2014** Seq No: **5871733**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	51.89	5.0	50.00		104	63.1	140				
Benzene	48.27	5.0	50.00		96.5	74.2	129				
Chlorobenzene	46.75	5.0	50.00		93.5	70	129				
Toluene	46.99	5.0	50.00		94.0	74.2	129				
Trichloroethene	46.43	5.0	50.00		92.9	71.2	135				
Surr: 4-Bromofluorobenzene	45.04	0	50.00		90.1	66.2	120				
Surr: Dibromofluoromethane	49.41	0	50.00		98.8	79.5	121				
Surr: Toluene-d8	48.62	0	50.00		97.2	77	117				

Sample ID: **1410C02-001AMS** Client ID: **MW-5S** Units: **ug/L** Prep Date: **10/14/2014** Run No: **277845**
SampleType: **MS** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **197667** Analysis Date: **10/15/2014** Seq No: **5872038**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	40.42	5.0	50.00		80.8	60.2	159				
Benzene	46.90	5.0	50.00		93.8	70.2	138				
Chlorobenzene	46.16	5.0	50.00		92.3	70.1	133				
Toluene	46.81	5.0	50.00		93.6	70	139				
Trichloroethene	46.46	5.0	50.00		92.9	70.1	144				
Surr: 4-Bromofluorobenzene	44.79	0	50.00		89.6	66.2	120				
Surr: Dibromofluoromethane	49.48	0	50.00		99.0	79.5	121				
Surr: Toluene-d8	49.64	0	50.00		99.3	77	117				

Sample ID: **1410C02-001AMSD** Client ID: **MW-5S** Units: **ug/L** Prep Date: **10/14/2014** Run No: **277845**
SampleType: **MSD** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **197667** Analysis Date: **10/15/2014** Seq No: **5872040**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	39.73	5.0	50.00		79.5	60.2	159	40.42	1.72	19.2	
Benzene	46.20	5.0	50.00		92.4	70.2	138	46.90	1.50	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: Sailors Engineering Associates
Project Name: Spalding Crnrs S/C
Workorder: 1410C02

ANALYTICAL QC SUMMARY REPORT

BatchID: 197667

Sample ID: **1410C02-001AMSD** Client ID: **MW-5S** Units: **ug/L** Prep Date: **10/14/2014** Run No: **277845**
SampleType: **MSD** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **197667** Analysis Date: **10/15/2014** Seq No: **5872040**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorobenzene	45.07	5.0	50.00		90.1	70.1	133	46.16	2.39	20	
Toluene	45.12	5.0	50.00		90.2	70	139	46.81	3.68	20	
Trichloroethene	45.36	5.0	50.00		90.7	70.1	144	46.46	2.40	20	
Surr: 4-Bromofluorobenzene	44.98	0	50.00		90.0	66.2	120	44.79	0	0	
Surr: Dibromofluoromethane	48.46	0	50.00		96.9	79.5	121	49.48	0	0	
Surr: Toluene-d8	49.08	0	50.00		98.2	77	117	49.64	0	0	

Qualifiers:

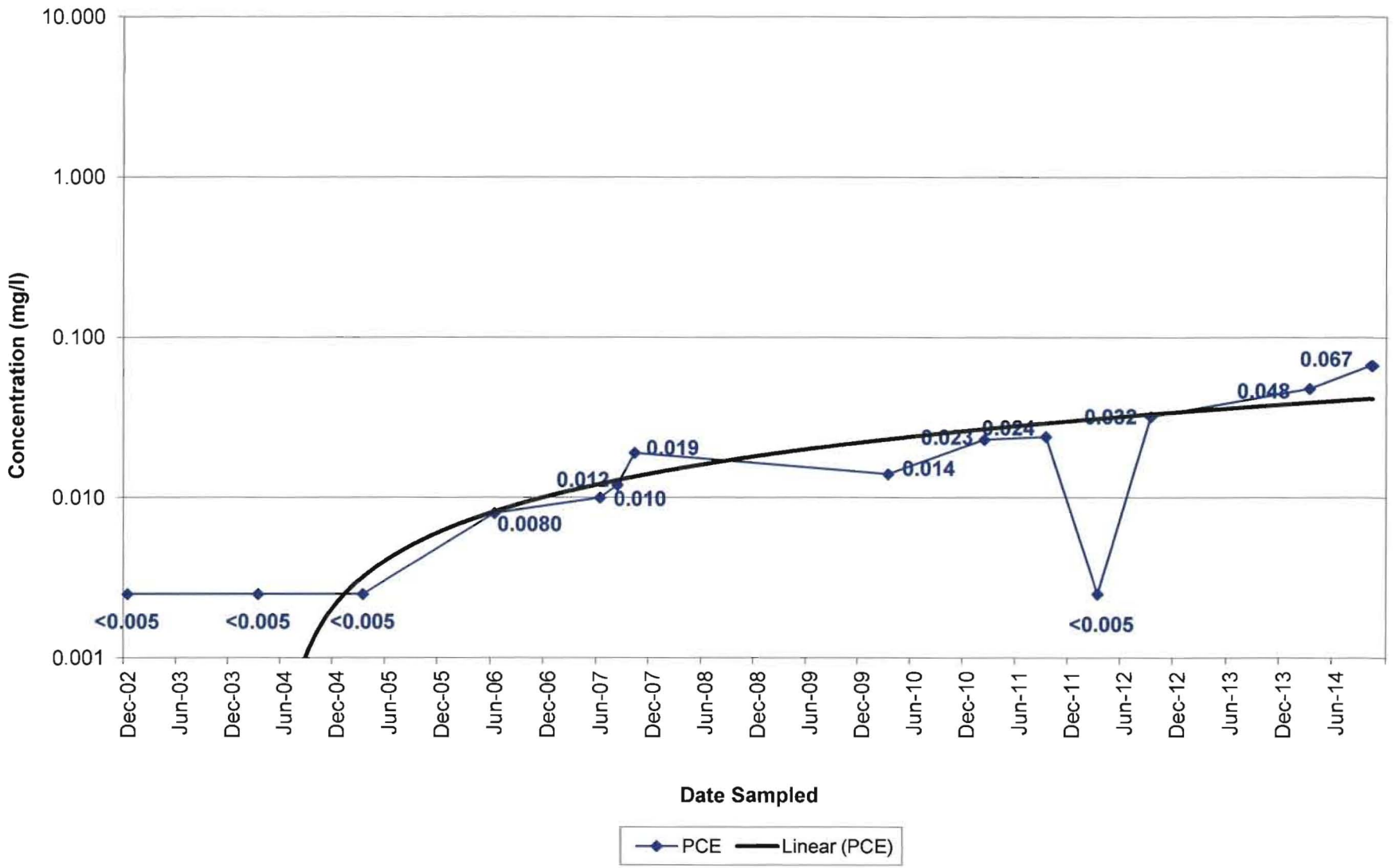
>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified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

APPENDIX 6

HISTORIC GROUNDWATER AND SEEP WATER PCE TREND GRAPHS

MW-5S

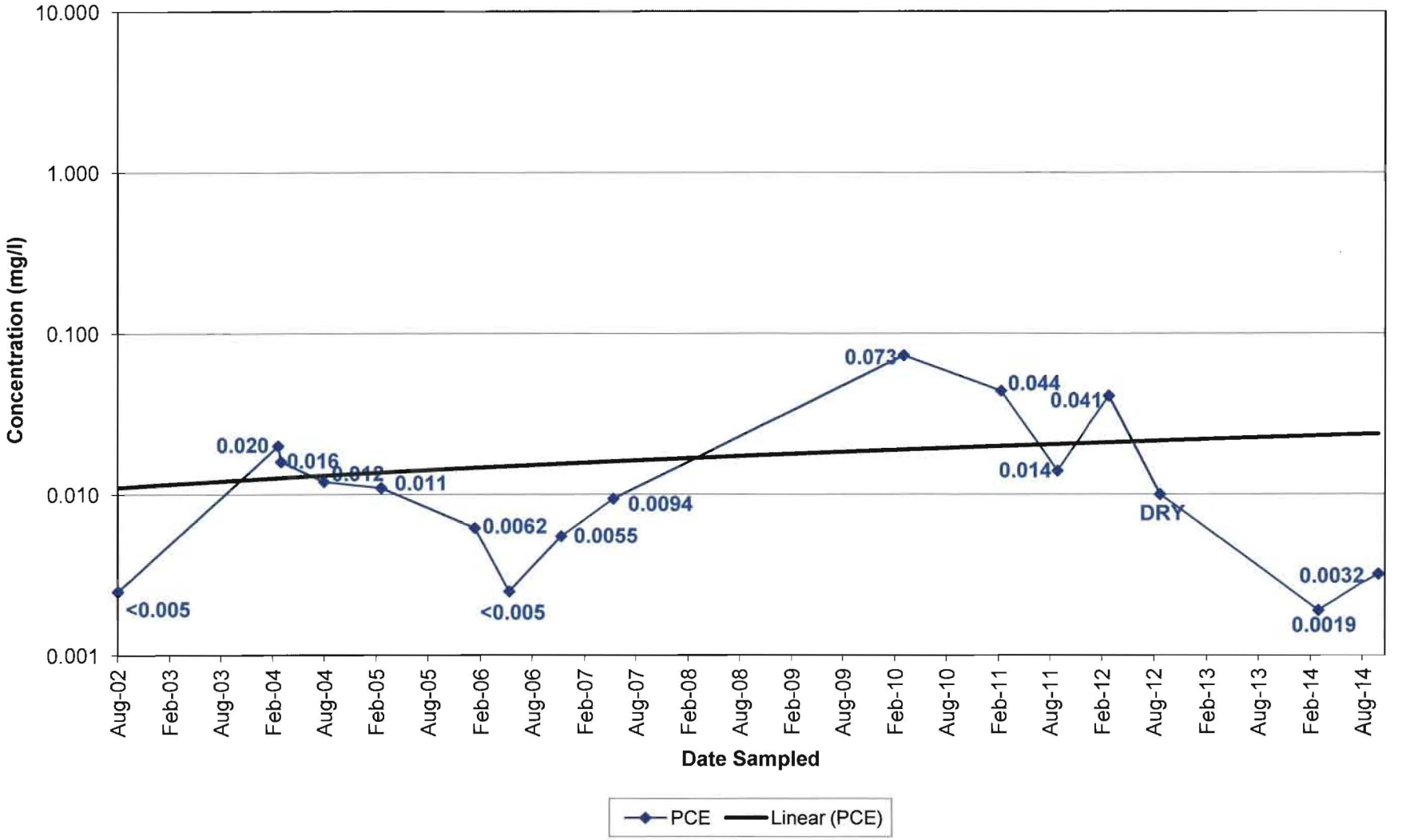
Tetrachlorethene (PCE) Concentrations



Spalding Corners Shopping Center
Norcross, Fulton Co., GA
HSI #10639

Sailors Engineering Associates, Inc.
Lawrenceville, GA
SEA Job #102-063

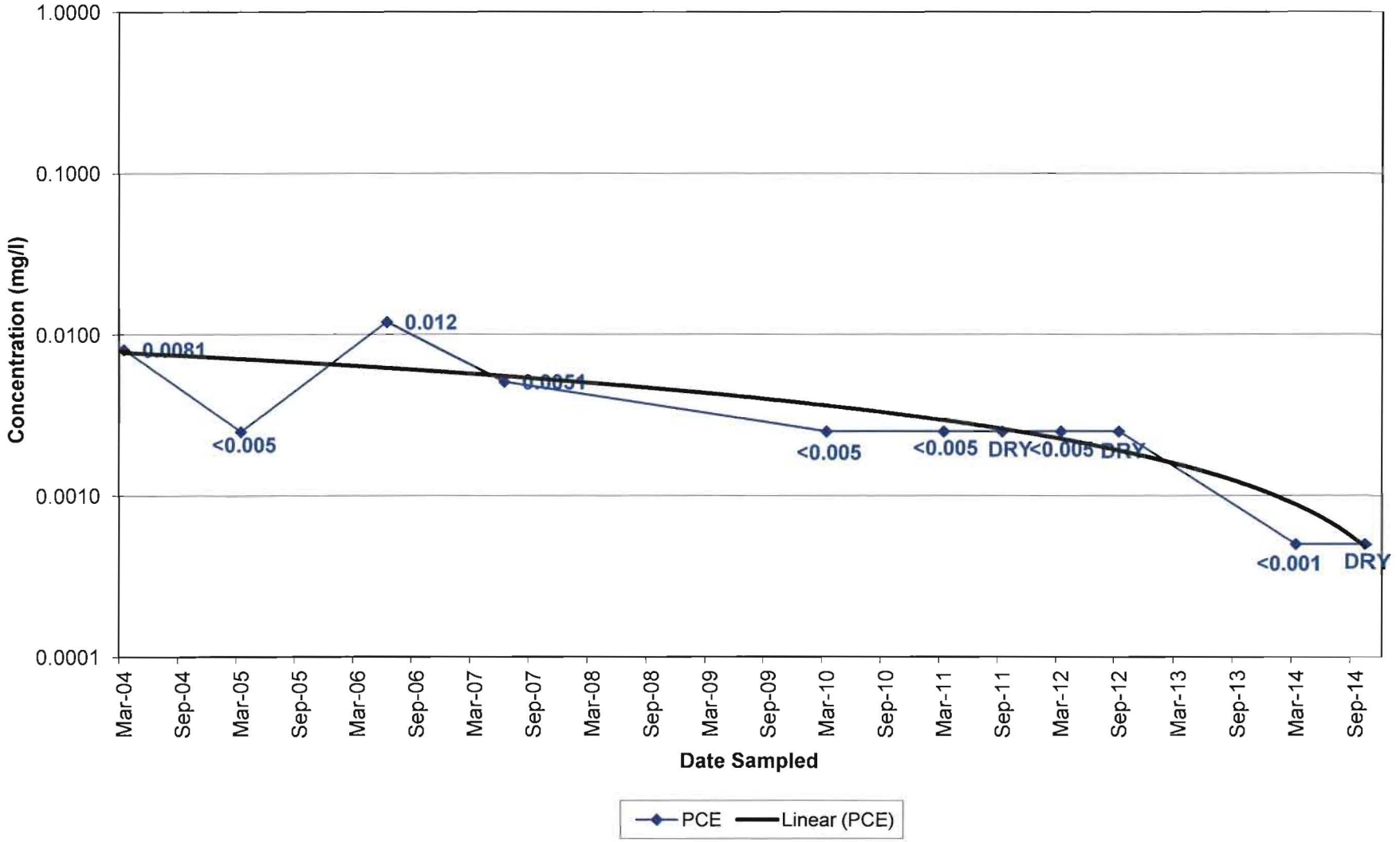
MW-6S
Tetrachloroethene (PCE) Concentrations



Spalding Corners Shopping Center
Norcross, Fulton Co., GA
HSI #10639

Sailors Engineering Associates, Inc.
Lawrenceville, GA
SEA Job #102-063

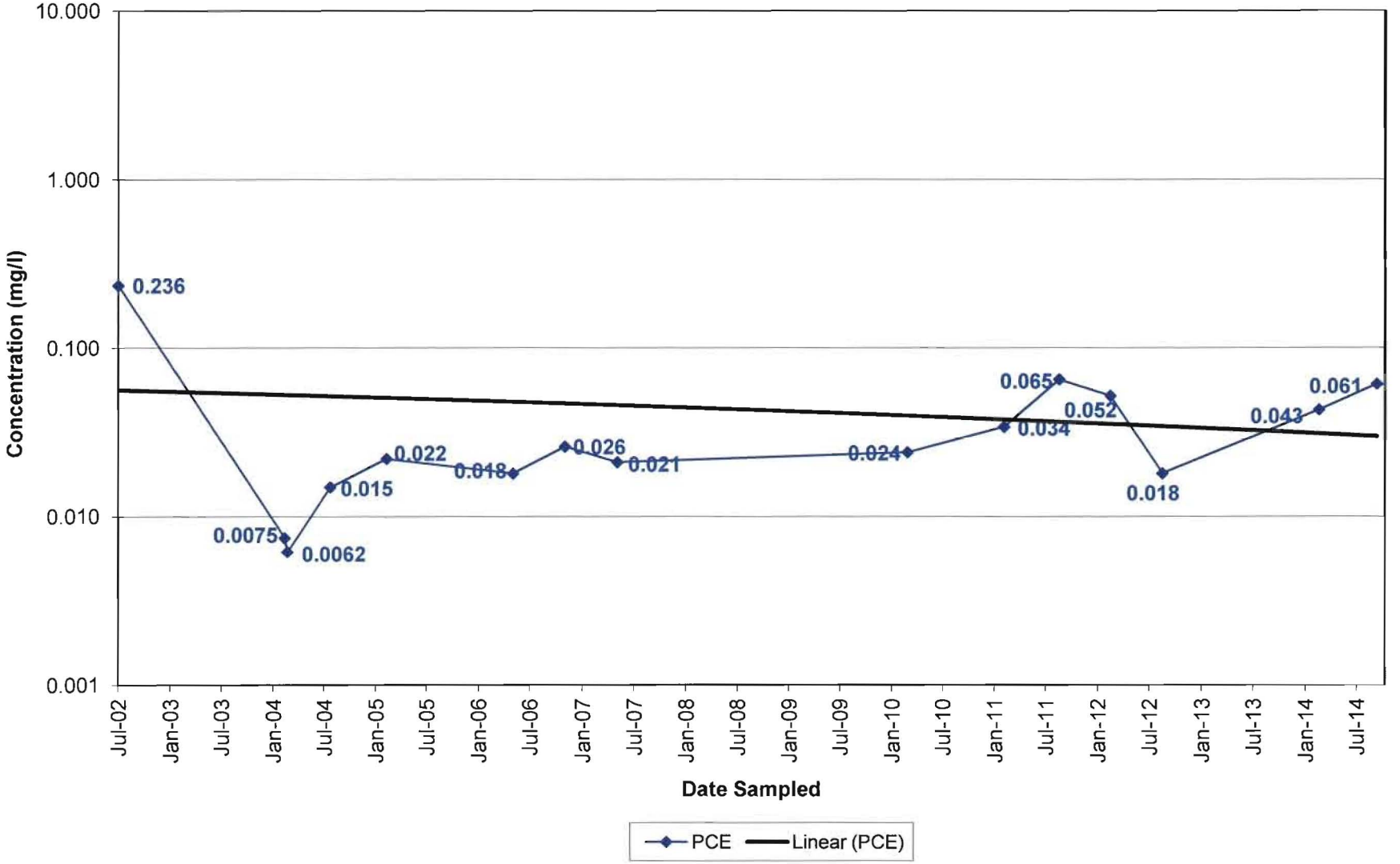
MW-7S
Tetrachloroethene (PCE) Concentrations



Spalding Corners Shopping Center
Norcross, Fulton Co., GA
HSI #10639

Sailors Engineering Associates, Inc.
Lawrenceville, GA
SEA Job 3102-063

MW-10S
Tetrachloroethene (PCE) Concentrations

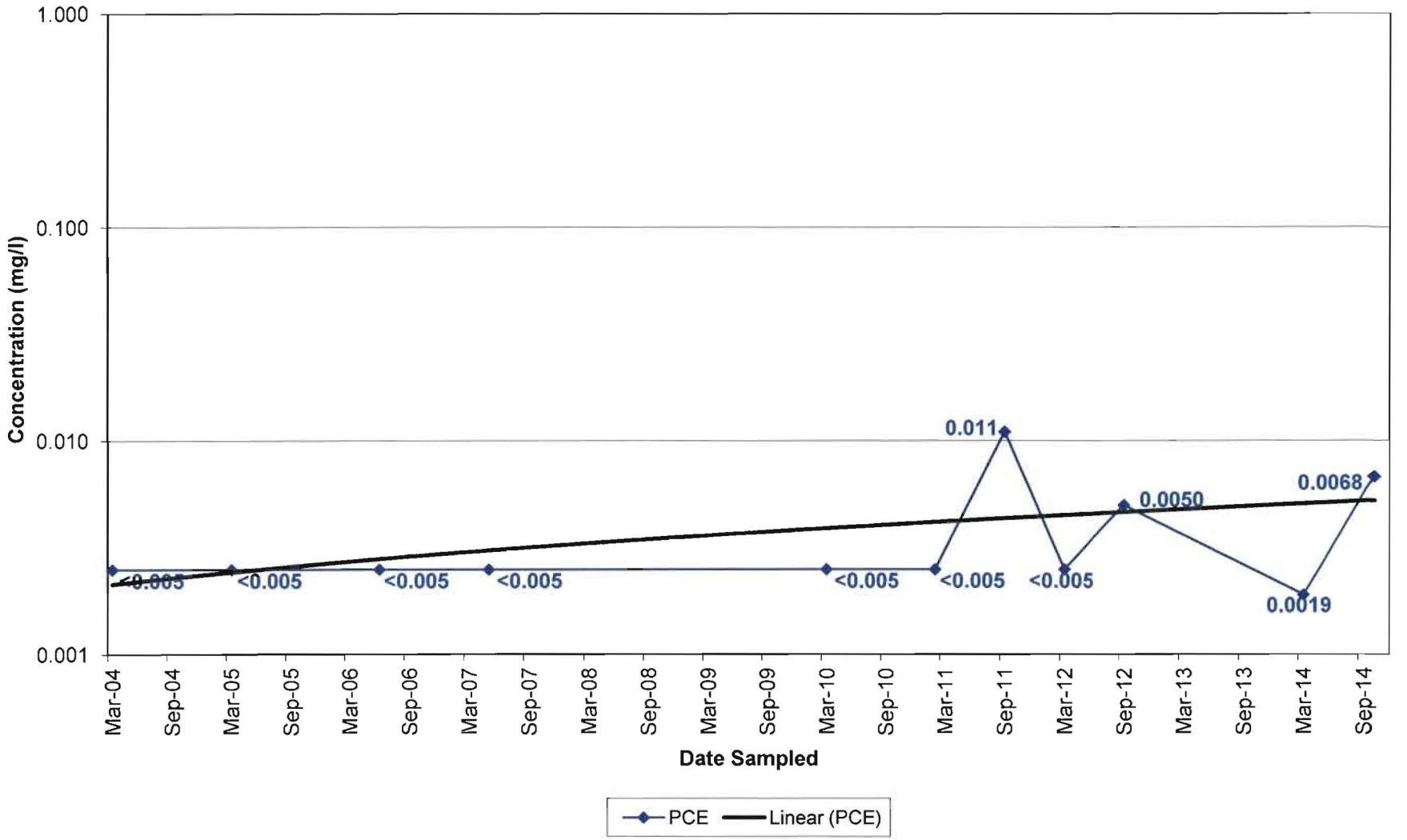


Spalding Corners Shopping Center
Norcross, Fulton Co., GA
HSI #10639

Sailors Engineering Associates, Inc.
Lawrenceville, GA
SEA Job #102-063

MW-14S

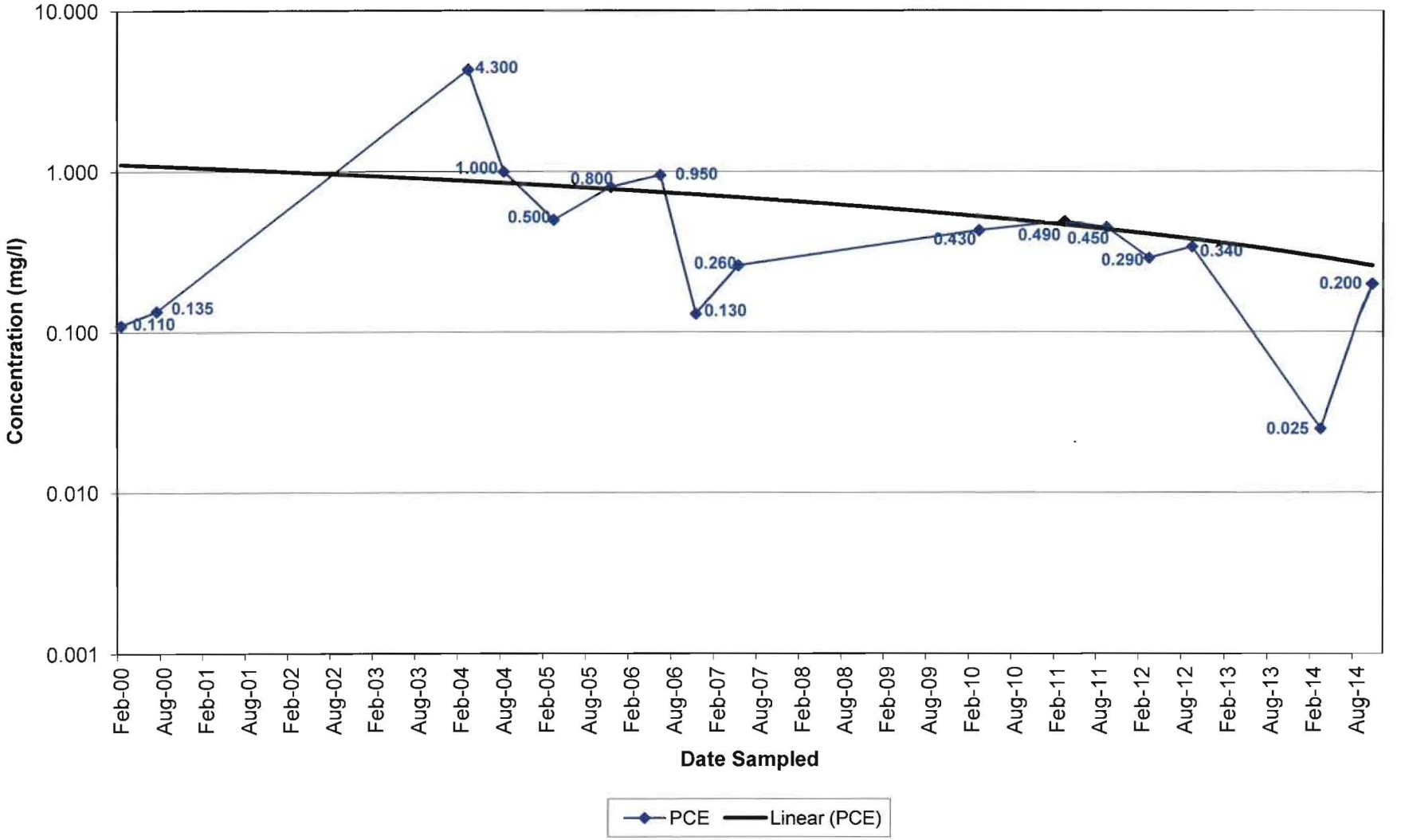
Tetrachloroethene (PCE) Concentrations



Spalding Corners Shopping Center
Norcross, Fulton Co., GA
HSI #10639

Sailors Engineering Associates, Inc.
Lawrenceville, GA
SEA Job #102-063

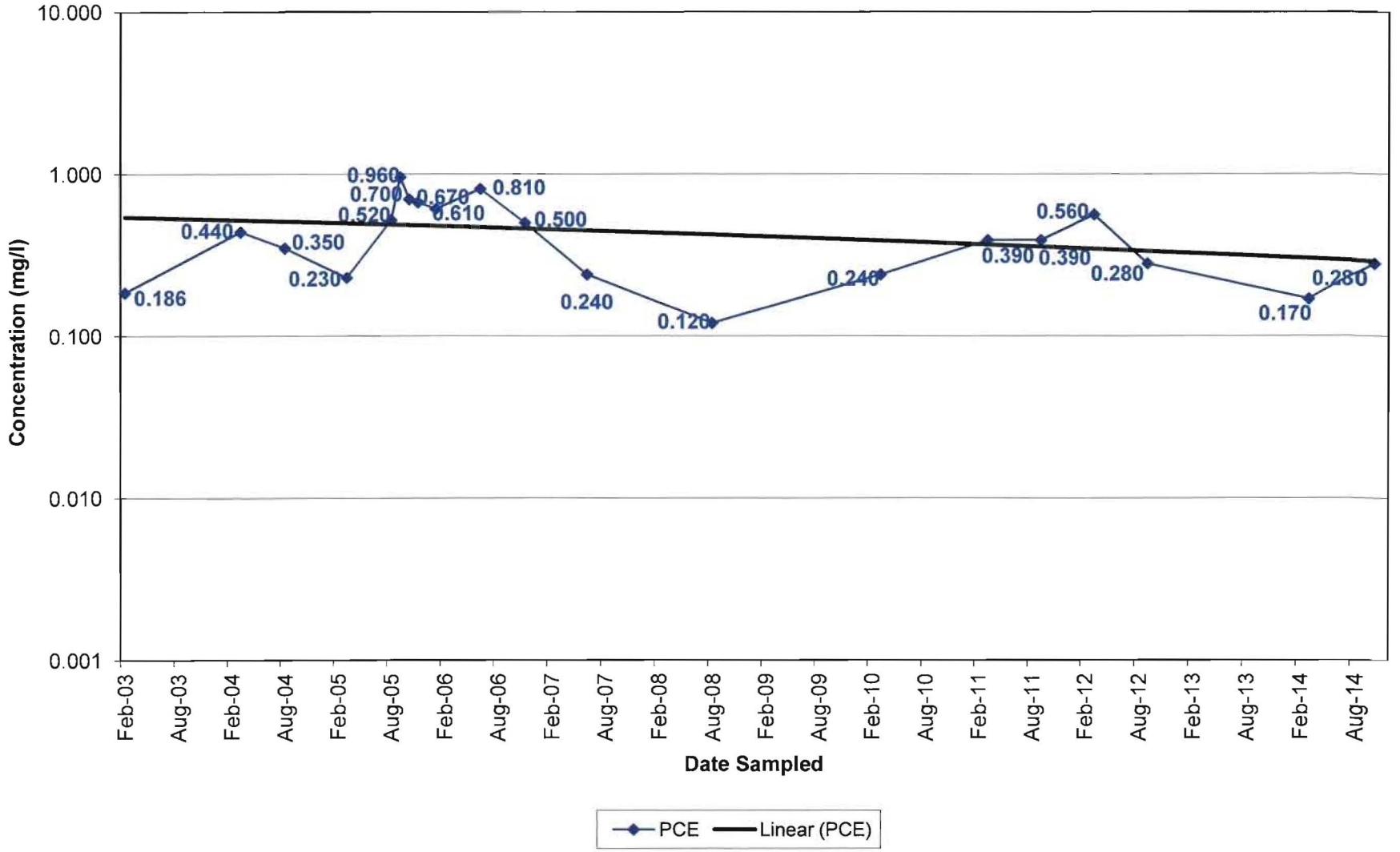
MW-15S
Tetrachloroethene (PCE) Concentrations



Spalding Corners Shopping Center
Norcross, Fulton Co., GA
HSI #10639

Sailors Engineering Associates, Inc.
Lawrenceville, GA
SEA Job #102-063

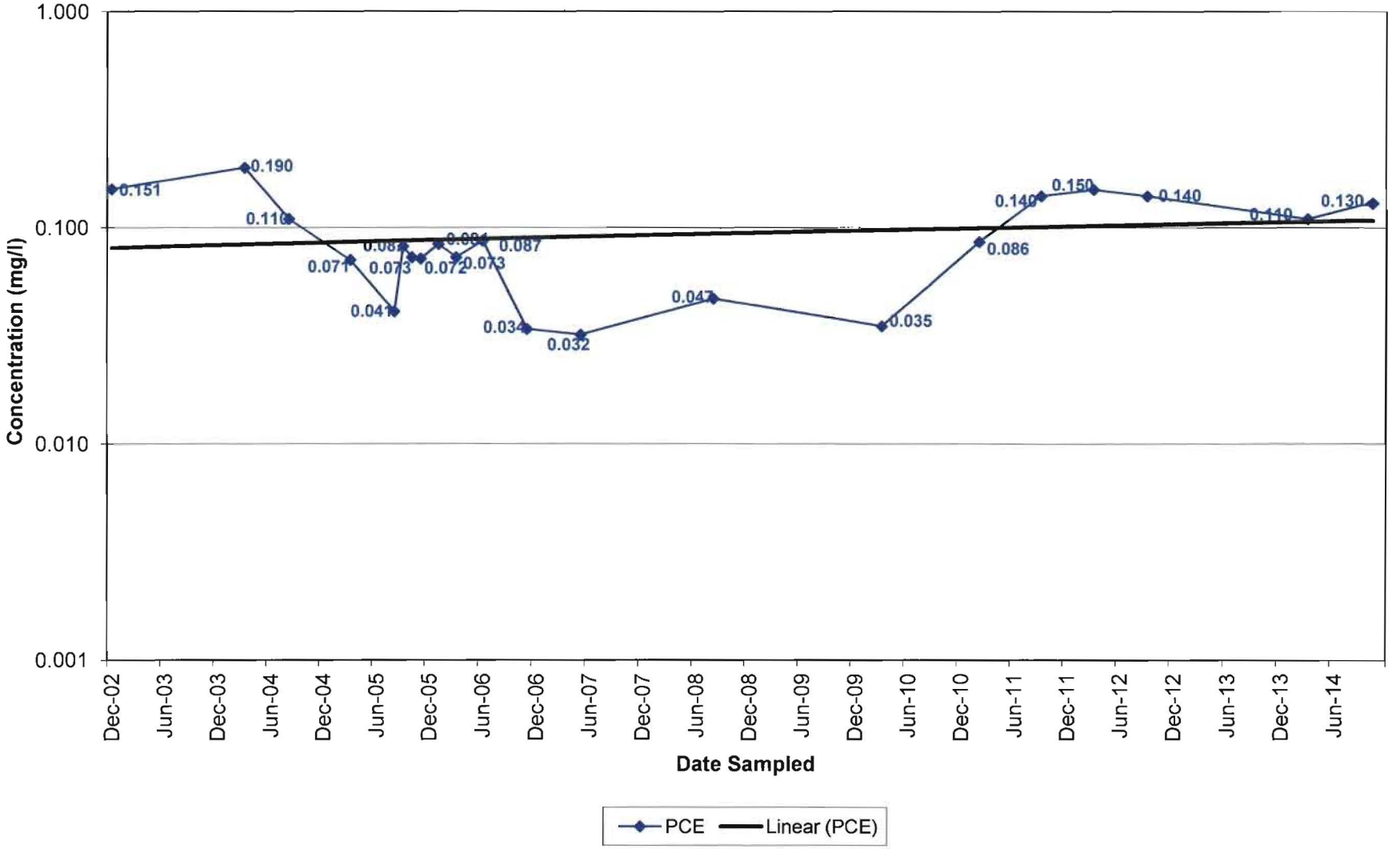
MW-16S
Tetrachloroethene (PCE) Concentrations



Spalding Corners Shopping Center
Norcross, Fulton Co., GA
HSI #10639

Sailors Engineering Associates, Inc.
Lawrenceville, GA
SEA Job #102-063

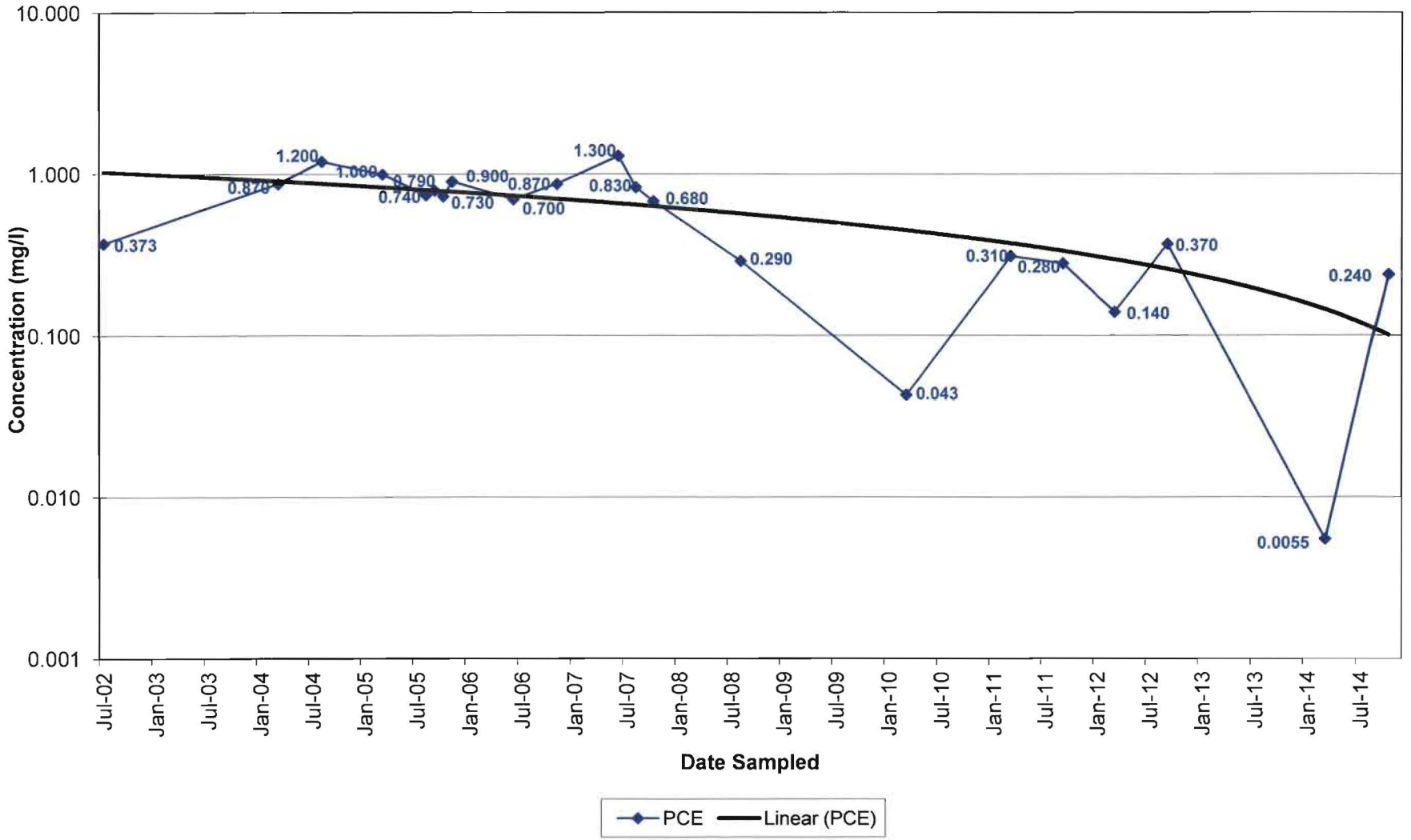
MW-17S
Tetrachlororethene (PCE) Concentrations



Spalding Corners Shopping Center
Norcross, Fulton Co., GA
HSI #10639

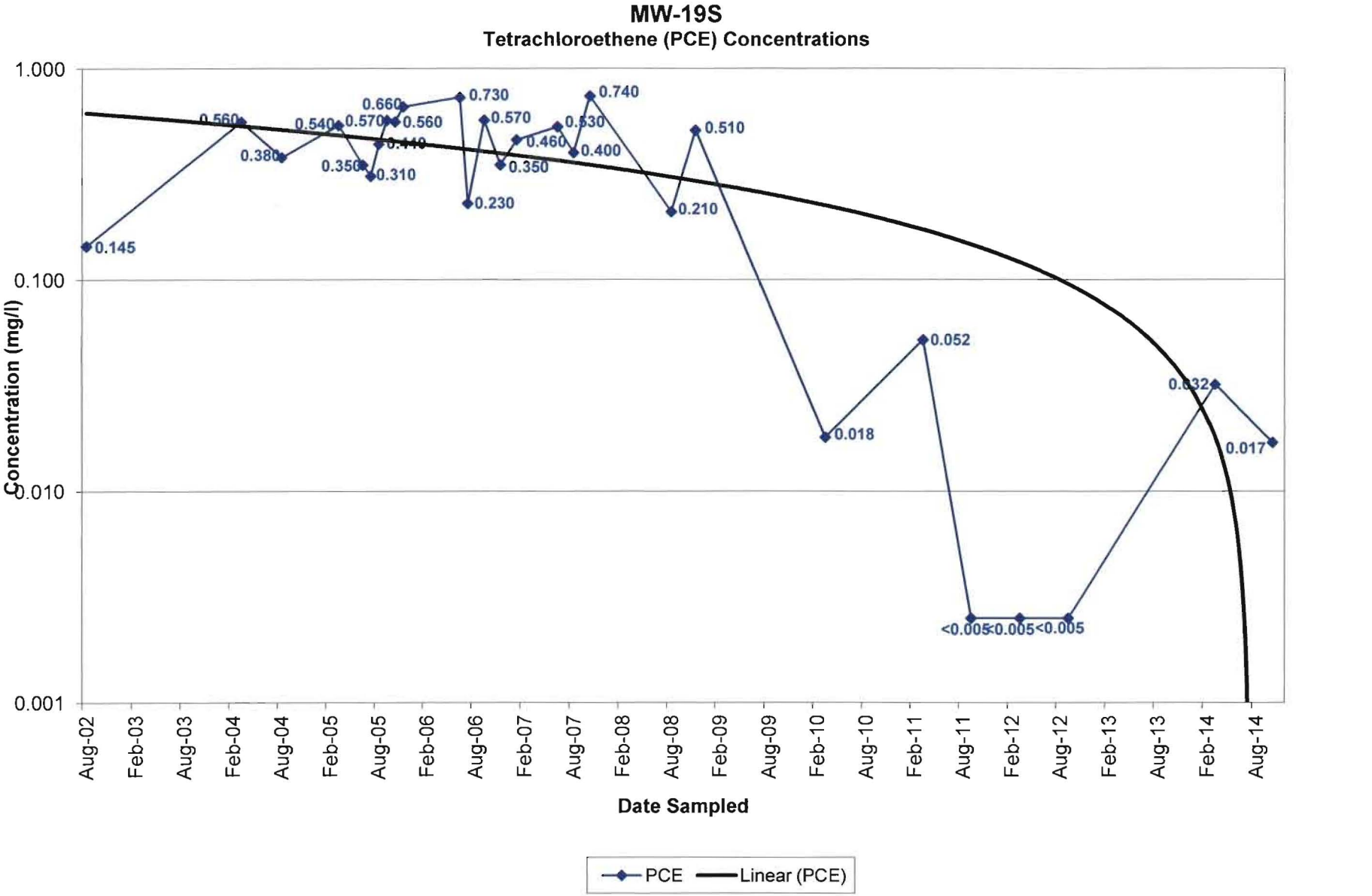
Sailors Engineering Associates, Inc.
Lawrenceville, GA
SEA Job #102-063

MW-18S
Tetrachloroethene (PCE) Concentrations



Spalding Corners Shopping Center
Norcross, Fulton Co., GA
HSI #10639

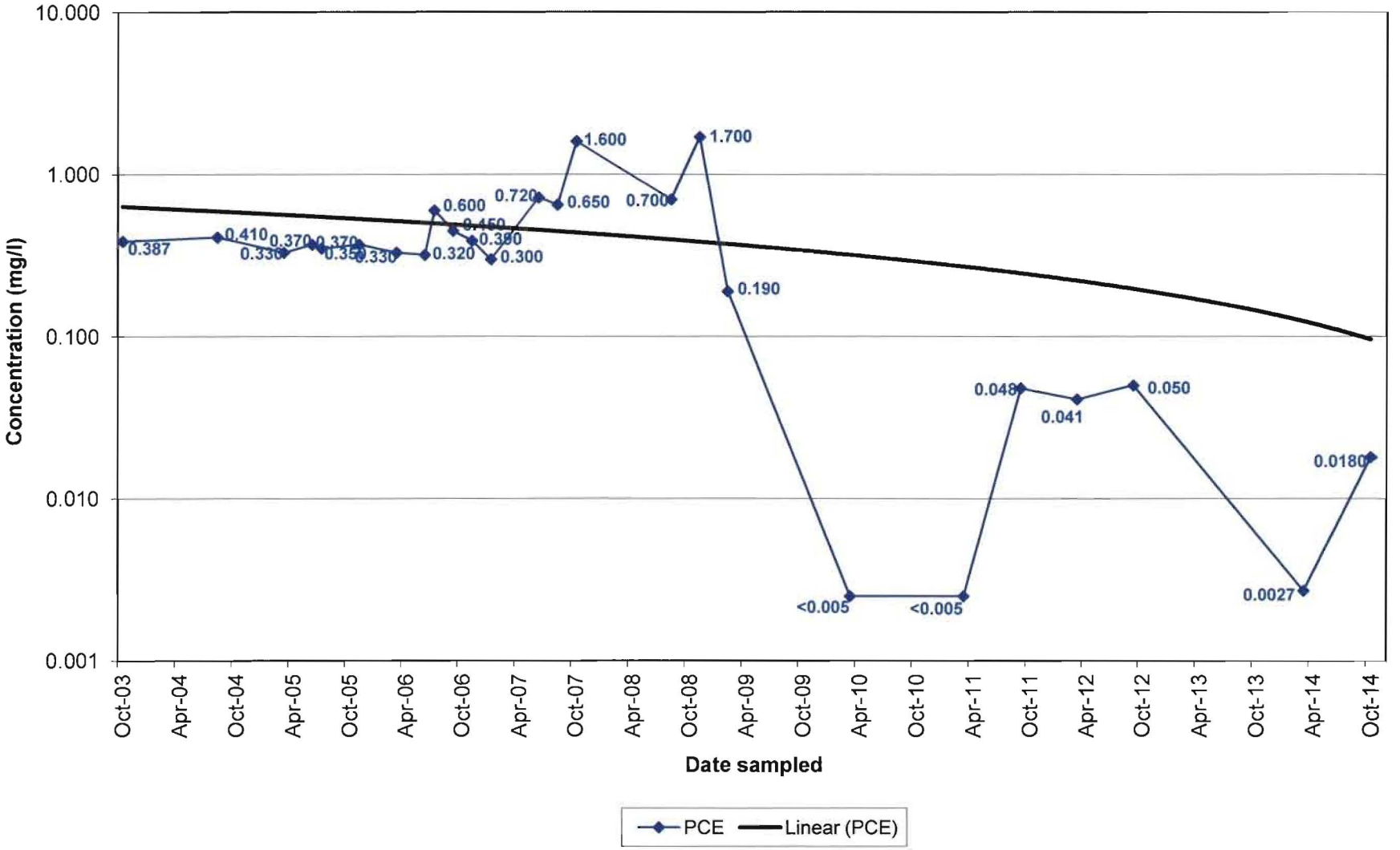
Sailors Engineering Associates, Inc.
Lawrenceville, GA
SEA Job #102-063



Spalding Corners Shopping Center
Norcross, Fulton Co., GA
HSI #10639

Sailors Engineering Associates, Inc.
Lawrenceville, GA
SEA Job #102-063

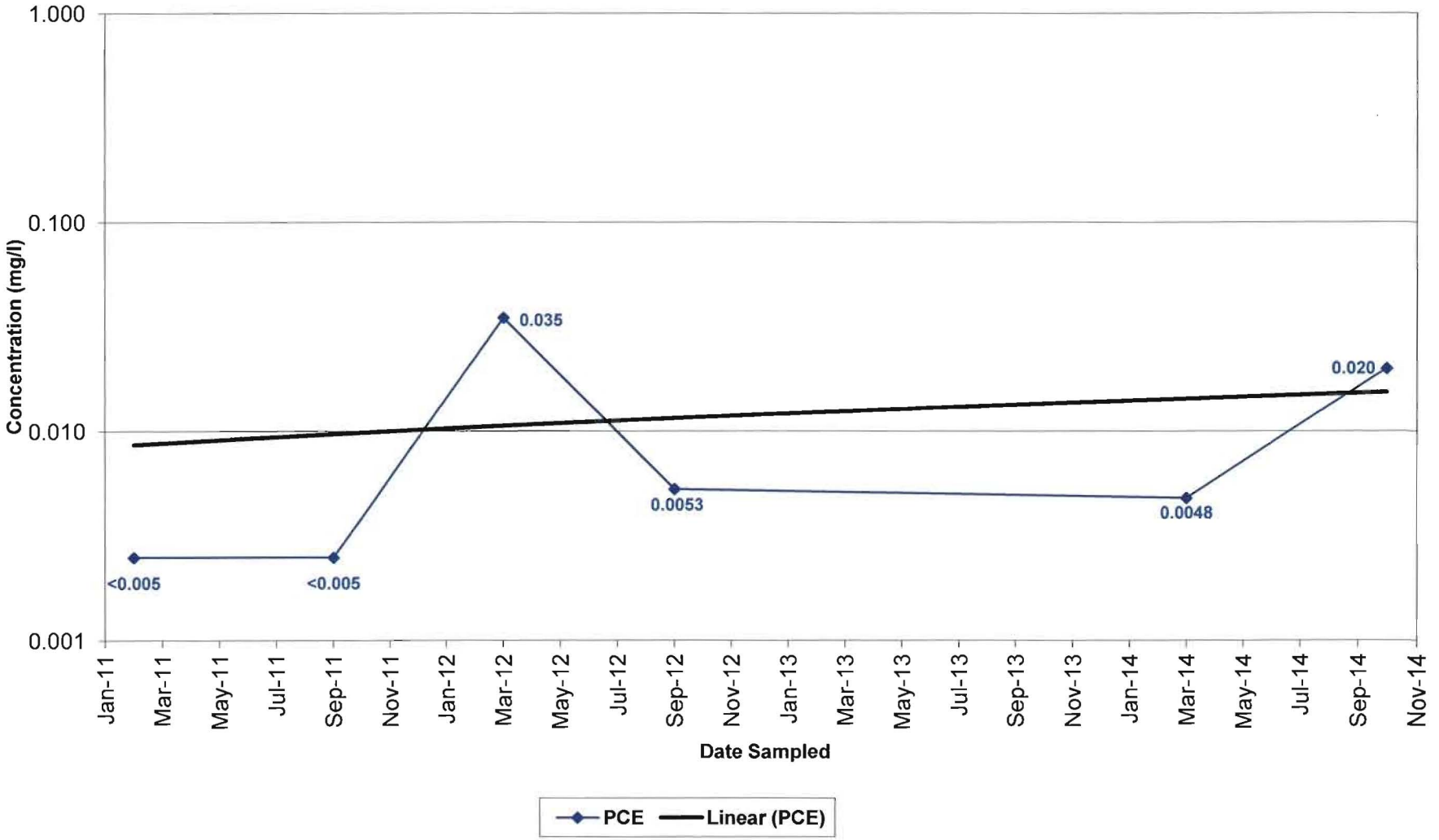
MW-20S
Tetrachloroethene (PCE) Concentrations



Spalding Corners Shopping Center
Norcross, Fulton Co., GA
HSI #10639

Sailors Engineering Associates, Inc.
Lawrenceville, GA
SEA Job #102-063

MW-21S
Tetrachloroethene (PCE) Concentrations

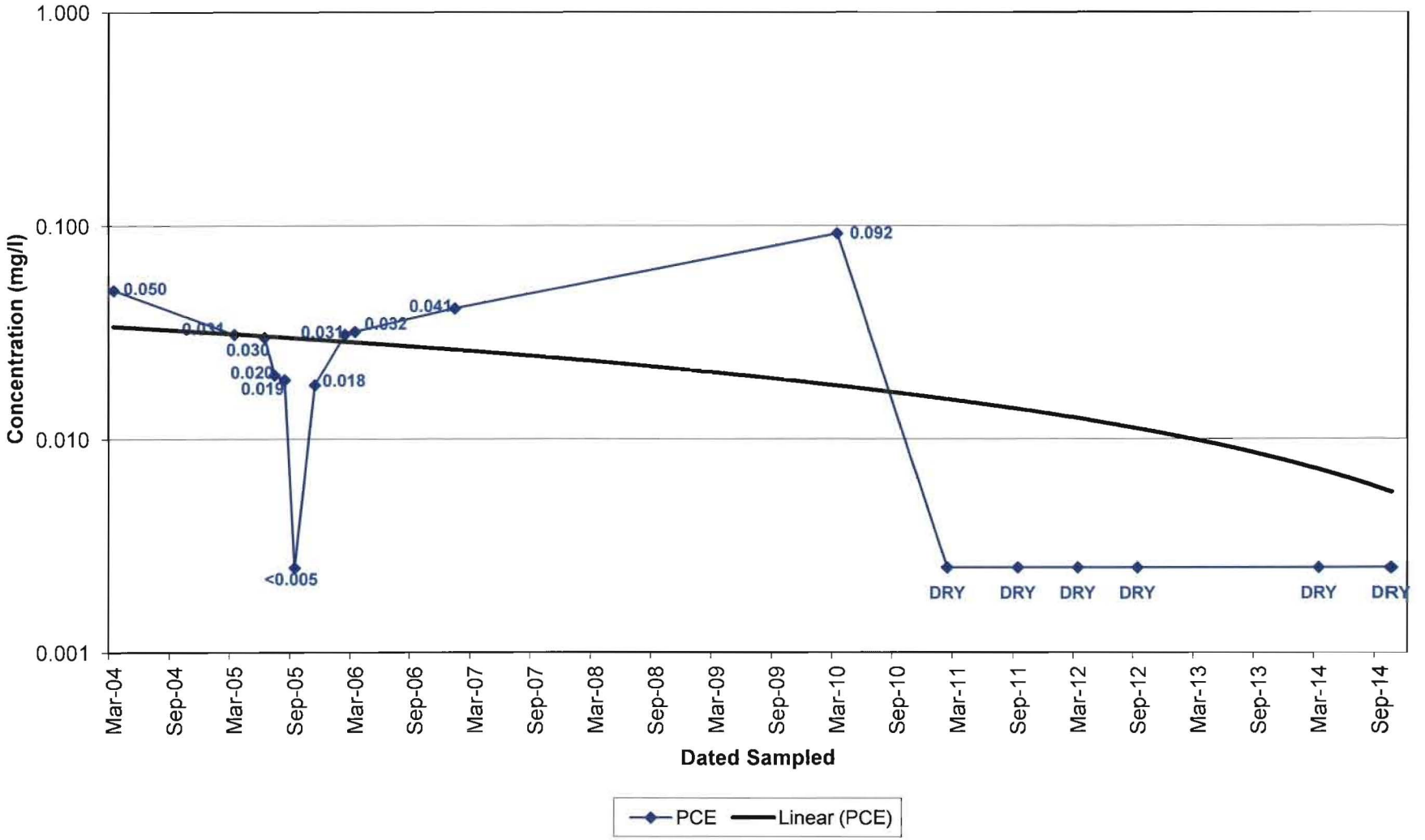


Spalding Corners Shopping Center
Norcross, Fulton Co., GA
HSI #10639

Sailors Engineering Associates, Inc.
Lawrenceville, GA
SEA Job #102-063

SW-1

Tetrachloroethene (PCE) Concentrations

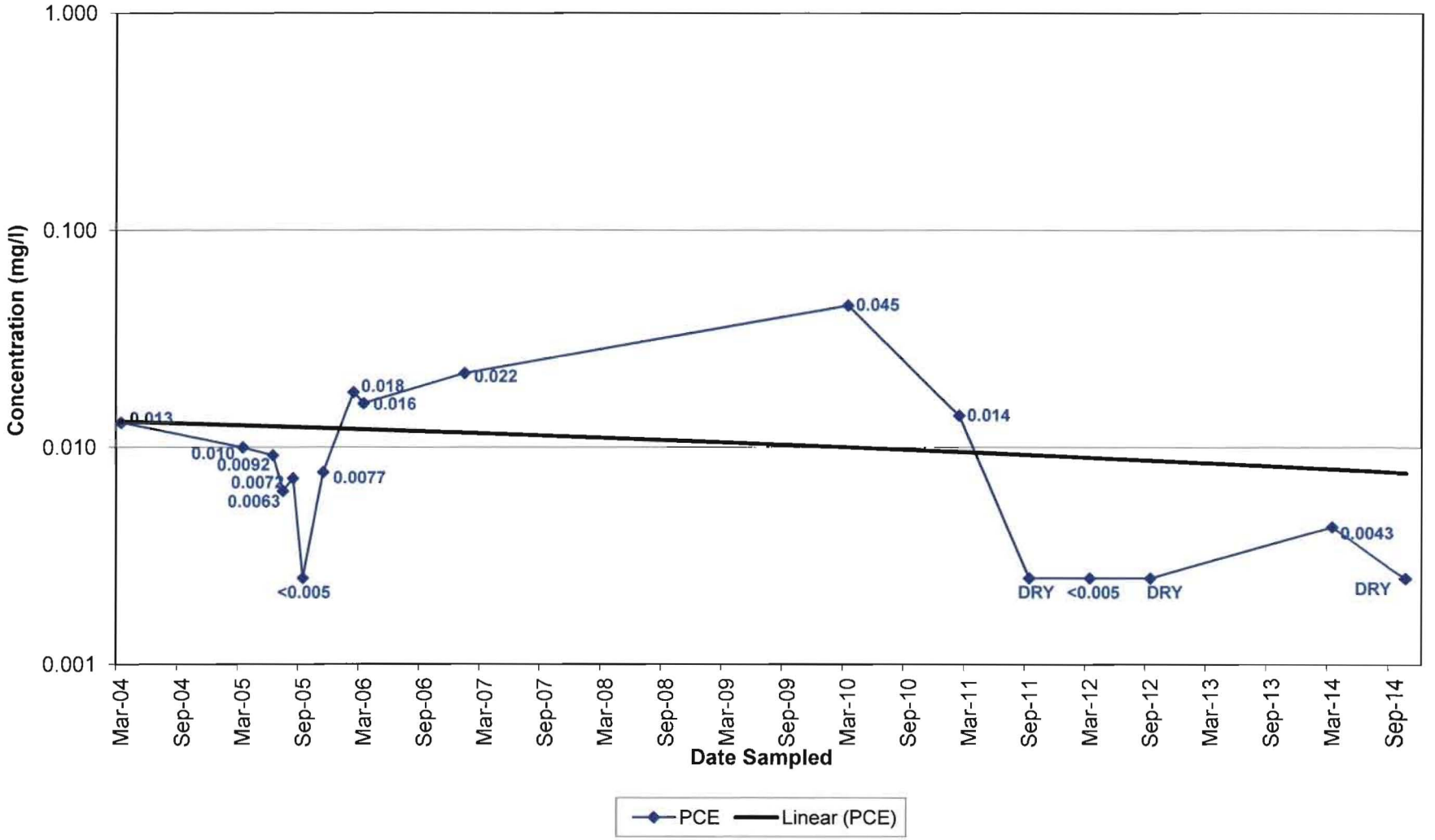


Spalding Corners Shopping Center
Norcross, Fulton Co., GA
HSI #10639

Sailors Engineering Associates, Inc.
Lawrenceville, GA
SEA Job #102-063

SW-2

Tetrachloroethene (PCE) Concentrations

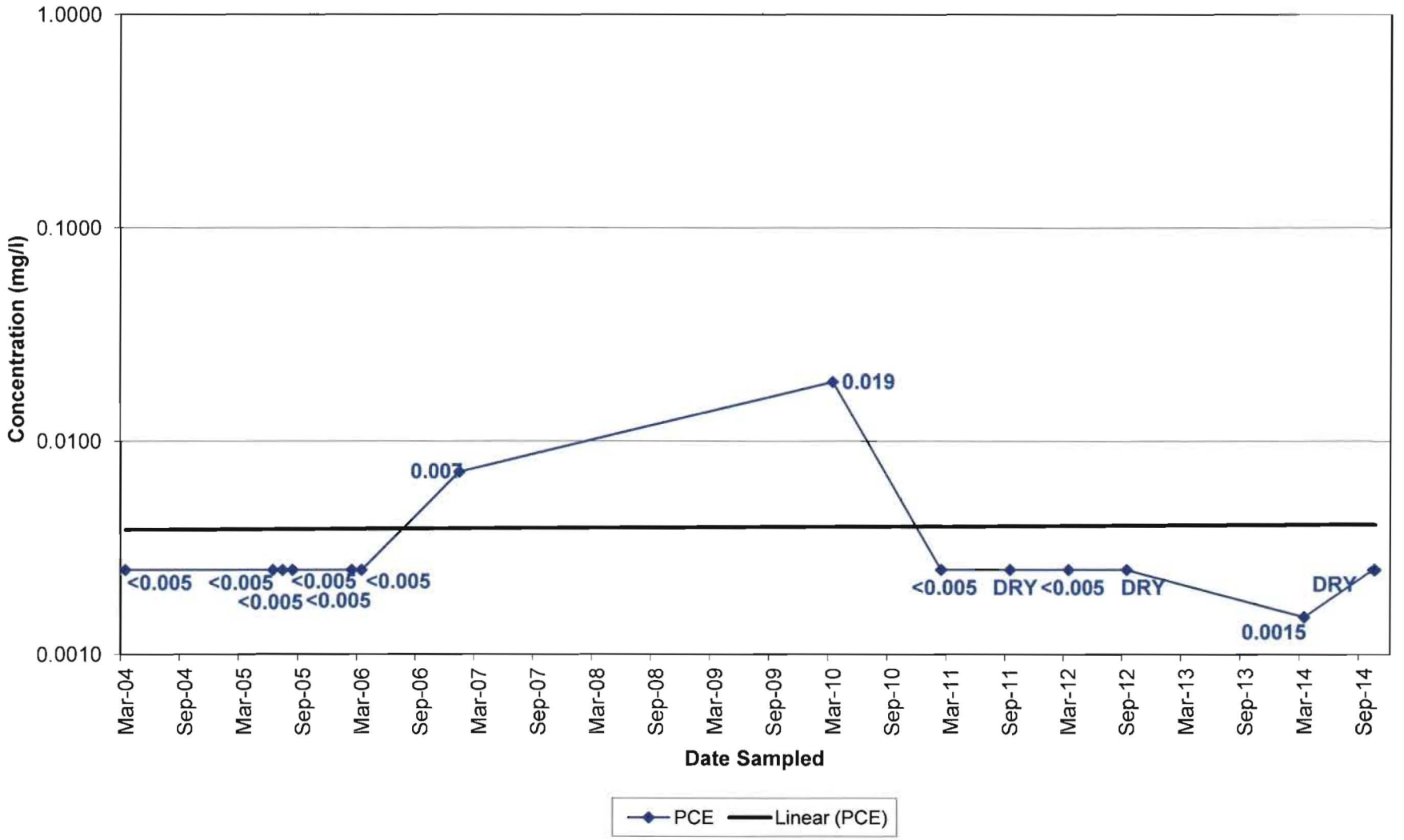


Spalding Corners Shopping Center
Norcross, Fulton Co., GA
HSI #10639

Sailors Engineering Associates, Inc.
Lawrenceville, GA
SEA Job #102-063

SW-3

Tetrachloroethene (PCE) Concentrations



Spalding Corners Shopping Center
Norcross, Fulton Co., GA
HSI #10639

Sailors Engineering Associates, Inc.
Lawrenceville, GA
SEA Job #102-063

APPENDIX 7

BORING LOG AND WELL CONSTRUCTION DIAGRAM FOR MW-22S

L O G O F B O R I N G

BORING NO. MW-22S

CONTRACTED WITH: SELIG ENTERPRISES, INC.

JOB NO. 102-063 DATE: 09/08/14

PROJECT NAME: Spalding Corners Shopping Center

LOCATION: 7700 Spalding Drive, Sandy Springs, Fulton County, Georgia

ELEV. (ft)	DESCRIPTION	DEPTH IN FEET	SAMPLES No.	SAMPLES TYPE	SAMPLES BLOWS/6"	NOTES
957.52	Topsoil = 6" Darkish brown sand with a little silt and organics (leaf mat)					
	Light brownish sand with a little silt	1				Soil samples were not collected
	Reddish brown sand with a little silt	2				Drilling Firm
		3				
	Light reddish brown sand with a little silt and a trace of clay	4				
		5				
		6				
	Light yellowish brown sand with a trace oflittle silt	7				
		8				
		9				
		10				
		11				
		12				
	Greyish brown sand with a trace of silt	13				
		14				
		15				
		16				
		17				Drilling Medium
		18				
		19				
		20				Drilling Hard - Moist
		21				
		22				Drilling Medium
		23				Drilling Firm
		24				
932.5	Auger refusal at 25.0 feet	25				Drilling Through Weathered Rock
		26				
		27				
		28				
		29				Water table encountered 23.76 feet (24.36 feet TOC) on 9-8-2014 23.14 feet (23.74 feet TOC) on 9-10-14
		30				
		31				
		32				
		33				
		34				
		35				
		36				MW-22S is located on the Sandy Springs Property across River Exchange Drive approximately 243' SW of MW-6S
		37				
		38				
		39				
		40				

SEA

Sailors Engineering Associates, Inc.

Well Construction Diagram

Well # MW-22S

Client: Selig Enterprises, Inc.

Project Name/Number: Spalding Corners Shopping Center / 102-063

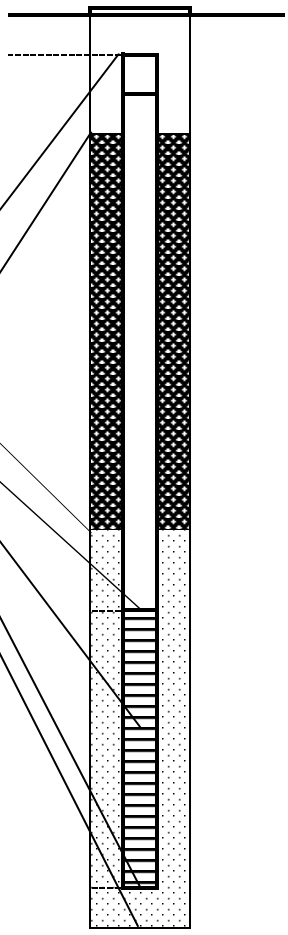
HSI #: 10639

Street: 7700 Spalding Drive

City/Co./State: Sandy Springs/Fulton County/Georgia

MW-22S is located off-site on the Sandy Springs Property across River Exchange Drive

Elevation Data	TOC	Elev.
TOC	0	#####
Top of Grout	--	--
Top of Seal	1.18	#####
Top of Sand	5.15	#####
Top of Screen	9.28	#####
Groundwater	23.63	#####
Bottom of Screen	24.32	#####
Total Depth	24.72	#####



Additional Constuction Information

2' X 2' concrete pad with 8" flushmount boltdown manhole

Locking Cap: **Hole Products**

Well Material : **Silver Line Enviro Pure Sch 40 PVC**

Well Diameter : **2-inches**

Grout Type : **--**

Bags Used: **0**

Riser Length : **9.24 ft**

Seal Type : **Bentonite Chips**

Seal Length : **3.97 ft**

Bags used: **2**

Screen Length : **13.70 ft (15.36 ft)**

Slot Size : **0.010-inch**

Filter Pack Material : **sorted filter silica sand**

Filter Pack Length : **19.57 ft**

Bags Used **10**

Survey: R & N Rudolph Elevation: 957.19 Date: **11/5/2014**

Well Development : yes 0.5 gallons with 12 V Proactive SS Hurricane submersible pump (well repeatedly pumped dry) & 0.5 gallons (well pumped dry; partial recovery after 1 hour) with Geopump peristaltic pump, YSI-556 MPS multi-parameter meter w/flow cell & turbidity meter **9/29/2014 & 10/13/2014**

Groundwater Level : 23.63' TOC (23.96' bgs Date : **10/6/2014**

Groundwater Sampling : VOCs (8260B) only Date : **10/13/2014**

Remarks : Installed 9-8-2014

APPENDIX 8

DRAFT UNIFORM ENVIRONMENTAL COVENANTS

After Recording Return to:

W. Scott Laseter, Esq.
Kazmarek Mowery Cloud Laseter LLC
1230 Peachtree Street NE, Suite 3600
Atlanta, GA 30309

NOTE TO CLERK:
Please cross-reference to
Deed Book 52429, Page 207 and
Deed Book 8117 Page 355
Fulton County, Georgia Records

Environmental Covenant

This instrument is an Environmental Covenant executed pursuant to the Georgia Uniform Environmental Covenants Act, OCGA § 44-16-1, *et seq.* This Environmental Covenant subjects the Property identified below to the activity and/or use limitations specified in this document. The effective date of this Environmental Covenant shall be the date upon which the fully executed Environmental Covenant has been recorded in accordance with OCGA § 44-16-8(a).

Fee Owner of Property/ Grantor:
Selig Enterprises, Inc.
1100 Spring String NW, Suite 550
Atlanta, GA 30309

Grantee/ Holder:
Selig Enterprises, Inc.
1100 Spring String NW, Suite 550
Atlanta, GA 30309

Grantee/ Entity with express power to enforce:
State of Georgia
Department of Natural Resources
Environmental Protection Division
2 Martin Luther King Jr. Drive, SE
Suite 1054 East Tower
Atlanta, GA 30334

Parties with interest in the Property:

Property:

The property subject to the Environmental Covenant is located at 7700 Spalding Drive, Sandy Springs, Fulton County, Georgia and more particularly described on **Exhibit "A"** attached hereto and incorporated by reference (hereinafter "Property"). The Property was conveyed on April 27, 1982 from The Gates, Ltd. to Selig Enterprises, Inc. and recorded in Deed Book 8117 Page 355 and revised in Deed Book 52429 Page 220, Fulton County Records. The Property is located in Land Lot 313 of the 6th District of Fulton County, Georgia and contains 9.02 acres. A map of the area is attached as **Exhibit "B".**

Tax Parcel Number:

06-0313 LL-009-1 of Fulton County, Georgia

Name and Location of Administrative Records:

The environmental conditions that are the subject of this Environmental Covenant are described in the Compliance Status Report ("CSR") and any subsequent revisions, addendums, modifications or amendments thereto ("CSR Documents"), including:

- Release Notification, March 31, 2000
- Groundwater Investigation, 8-11-2000
- Compliance Status Report, 2-28-2003
- Compliance Status Report Addendum & Corrective Action Plan, March 2004
- Approval of Corrective Action Plan, 2-8-2005
- 1st Semi-Annual Report, March 2006
- 2nd Semi-Annual Report, October 2006
- 3rd Semi-Annual Report, February 2007
- 4th Semi-Annual Report, June 2007
- Corrective Action Plan Addendum, August 2008
- Voluntary Remediation Program Application, March 2010
- Revised Voluntary Remediation Program Application, May 2010
- Acceptance into Voluntary Remediation Program, 10-12-2010
- 1st Voluntary Remediation Program Semi-Annual Report, April 2011
- 2nd Voluntary Remediation Program Semi-Annual Report, October 2011
- 3rd Voluntary Remediation Program Semi-Annual Report, April 2012
- 4th Voluntary Remediation Program Semi-Annual Report, October 2012
- EPD review letter, 1-10-2014
- 1st 2014 Voluntary Remediation Program Semi-Annual Report, April 2014
- 2nd 2014 Voluntary Remediation Program Semi-Annual Report, November 2014

These documents are available at the following location:

Georgia Environmental Protection Division
Hazardous Sites Response Program
2 MLK Jr. Drive, SE, Suite 1054 East Tower
Atlanta, GA 30334
M-F 8:00 AM to 4:30 PM excluding state holidays

Description of Contamination and Corrective Action:

This Property has been listed on the state's hazardous site inventory (HSI No. 10639) and has been designated as needing corrective action due to the presence of regulated substances regulated under state law. Contact the property owner or the Georgia Environmental Protection Division for further information concerning environmental conditions on this Property. This notice is provided in compliance with the Georgia Voluntary Remediation Program.

This Declaration of Covenant is made pursuant to the Georgia Uniform Environmental Covenants Act, O.C.G.A. § 44-16-1 *et seq.* by Selig Enterprises, Inc., its successors and assigns in favor of the State of Georgia, Department of Natural Resources, Environmental Protection Division (hereinafter "EPD"), its successors and assigns. This Environmental Covenant is being made due to a release of acetone, chloroform, cis-1,2-dichloroethene, tetrachloroethene and trichloroethene all of which are "regulated substances" as defined under the Georgia Hazardous Site Response Act, O.C.G.A. § 12-8-90 *et seq.*, and the rules promulgated thereunder (hereinafter "HSRA" and "Rules", respectively). Corrective action included the installation and maintenance of institutional controls to protect human health and the environment, all as described in the CSR.

Grantor, Selig Enterprises, Inc. (hereinafter "Selig"), hereby binds Grantor, its successors and assigns to the activity and use restrictions for the Property identified herein and grants such other rights under this Environmental Covenant in favor of Holder and EPD. EPD shall have full right of enforcement of the rights conveyed under this Environmental Covenant pursuant to HSRA and the Rules. Failure to timely enforce compliance with this Environmental Covenant or the use or activity limitations contained herein by any person shall not bar subsequent enforcement by such person and shall not be deemed a waiver of the person's right to take action to enforce any non-compliance. Nothing in this Environmental Covenant shall restrict EPD from exercising any authority under applicable law.

Selig makes the following declaration as to limitations, restrictions, and uses to which the Property may be put and specifies that such declarations shall constitute covenants to run with the land, pursuant to O.C.G.A. § 44-16-5(a); is perpetual, unless modified or terminated pursuant to the terms of this Covenant pursuant to O.C.G.A. § 44-16-9; and shall be binding on all parties and all persons claiming under them, including all current and future owners of any portion of or interest in the Property (hereinafter "Owner"). Should a transfer or sale of the Property occur before such time as this Environmental Covenant has been amended or revoked, then said Environmental Covenant shall be binding on the transferee(s) or purchaser(s).

The Environmental Covenant shall inure to the benefit of Holder, EPD, Selig and their respective successors and assigns and shall be enforceable by the Director or his agents or assigns, Holder or its successors or assigns, Selig or its successors and assigns, and other party(-ies) as provided for in O.C.G.A. § 44-16-11 in a court of competent jurisdiction.

Activity and/ or Use Limitation(s):

1. Registry. Pursuant to O.C.G.A. § 44-16-12, this Environmental Covenant and any amendment or termination thereof, may be contained in EPD's registry for environmental covenants.

2. Notice. The Owner of the Property must give thirty (30) days advance written notice to EPD of the Owner's intent to convey any interest in the Property.

3. Groundwater Limitation. The use or extraction of groundwater beneath the Property for drinking water or for any other non-remedial purposes shall be prohibited.

4. Right of Access. In addition to any rights already possessed by EPD and/ or Holder, the Owner shall allow authorized representatives of EPD the right to enter the Property at reasonable times for the purpose of evaluating the Corrective Action; to take samples, to inspect the Corrective Action conducted at the Property, to determine compliance with this Environmental Covenant, and to inspect records that are related to the Corrective Action.

5. Recording of Environmental Covenant and Proof of Notification. Within thirty (30) days after the date of the Director's signature, the Owner shall file this Environmental Covenant with the Recorder of Deeds for each County in which the Property is located, and send a file stamped copy of this Environmental Covenant to EPD within thirty (30) days of recording. Within that time period, the Owner shall also send a file-stamped copy to each of the following: (1) Holder, (2) each person holding a recorded interest in the Property subject to the covenant, (3) each person in possession of the real property subject to the covenant, (4) each municipality, county, consolidated government, or other unit of local government in which real property subject to the covenant is located, and (5) each owner in fee simple whose property abuts the property subject to the Environmental Covenant.

6. Termination or Modification. The Environmental Covenant shall remain in full force and effect in accordance with O.C.G.A. § 44-5-60, unless and until the Director determines that the Environmental Covenant is no longer necessary for the Property to comply with applicable Risk Reduction Standards, as defined in Georgia Rules of Hazardous Site Response (Rules) Section 391-3-19-.07, whereupon the Environmental Covenant may be amended or revoked in accordance with Section 391-3-19-08(7) of the Rules and O.C.G.A. § 44-16-1 *et seq.*

7. Severability. If any provision of this Environmental Covenant is found to be unenforceable in any respect, the validity, legality, and enforceability of the remaining provisions shall not in any way be affected or impaired.

8. No Property Interest Created in EPD. This Environmental Covenant does not in any way create any interest by EPD in the Property that is subject to the Environmental Covenant. Furthermore, the act of approving this Environmental Covenant does not in any way create any interest by EPD in the Property in accordance with O.C.G.A. § 44-16-3(b).

Representations and Warranties:

Grantor hereby respects and warrants to the other signatories hereto:

a) That the Grantor has the power and authority to enter into this Environmental Covenant, to grant the rights and interests herein provided and to carry out all obligations hereunder;

b) That the Grantor has identified all other parties that hold any interest (e.g., encumbrance) in the Property and notified such parties of the Grantor's intention to enter into this Environmental Covenant;

c) That this Environmental Covenant will not materially violate, contravene, or constitute a material default under any other agreement, document or instrument to which Grantor is a party, by which Grantor may be bound or affected;

d) That this Environmental Covenant will not materially violate or contravene any zoning law or other law regulating use of the Property; and

e) That this Environmental Covenant does not authorize a use of the Property that is otherwise prohibited by a recorded instrument that has priority over the Environmental Covenant.

Notices:

Any document or communication required to be sent pursuant to the terms of this Environmental Covenant shall be sent to the following persons:

Georgia Environmental Protection Division
Branch Chief
Hazardous Waste Management Branch
2 Martin Luther King Jr. Drive SE
Suite 1054 East Tower
Atlanta, GA 30334

[*Signatures on following pages.*]

Grantor has cause this Environmental Covenant to be executed pursuant to The Georgia Uniform Environmental Covenants Act, on the ____ day of _____, 2013.

GRANTOR:

_____

_____

Dated: _____

STATE OF GEORGIA
COUNTY OF FULTON

On this _____ of _____, 2014, I certify that _____ personally appeared before me, acknowledged that he/ she is the Present of the corporation that executed the within and foregoing instrument, and signed said instrument by free and voluntary act and deed of said corporation, for the uses and purposes therein mentioned, and on oath stated that he was authorized to execute said instrument for said corporation.

_____
Notary Public and for the State of Georgia,
residing at _____
My appointment expires: _____

[*Signatures continue on following pages.*]

GRANTEE/ HOLDER:

_____

_____

Dated: _____

STATE OF GEORGIA
COUNTY OF FULTON

On this _____ of _____, 2014, I certify that _____ personally appeared before me, acknowledged that he/ she signed this instrument, on oath stated that he was authorized to execute this instrument, and acknowledged it as the _____ of _____ to be the free and voluntary act and deed of such party for the uses and purposes mentioned in the instrument.

_____
Notary Public and for the State of Georgia,
residing at _____
My appointment expires: _____

[*Signatures continue on following pages.*]

STATE OF GEORGIA
ENVIRONMENTAL PROTECTION DIVISION

_____
Signature

_____
Printed Name

_____
Title

Dated: _____

STATE OF GEORGIA
COUNTY OF FULTON

On this _____ of _____, 2014, I certify that _____ personally appeared before me, acknowledged that he/she signed this instrument, on oath stated that he/she was authorized to execute this instrument, and acknowledged it as the _____ [type of authority] of _____ [name of party being represented] to be the free and voluntary act and deed of such party for the uses and purposes mentioned in the instrument.

_____
Notary Public and for the State of Georgia,
residing at _____
My appointment expires: _____

EXHIBIT "A"

ALL THAT TRACT or parcel of land lying and being in Land Lot 313 of the 6th District, Fulton County, Georgia, and being more particularly described as follows:

TO FIND THE TRUE POINT OF BEGINNING, begin at a point located at the intersection of the southwesterly right-of-way line of Holcomb Bridge Road (allowing for a 104 feet right-of-way at said point) and the northerly right-of-way line of Spalding Drive (a 60 foot right-of-way); thence running in a southwesterly direction along the northerly right-of-way line of said Spalding Drive South 68 degrees 36 minutes 29 seconds West a distance of 200.00 feet to a point; thence continuing along said right-of-way line and running South 68 degrees 36 minutes 29 seconds West a distance of 188.11 feet to a point; thence continuing along said right-of-way line and running South 66 degrees 17 minutes 36 seconds West a distance of 33.80 feet to a point, which point marks the TRUE POINT OF BEGINNING; thence continuing in a southwesterly direcion along said northerly right-of way line of said Spalding Drive and running South 66 degrees 17 minutes 36 seconds West a distance of 67.18 feet to a point; thence running South 61 degrees 29 minutes 39 seconds West a distance of 101.44 feet to a point; thence running South 57 degrees 10 minutes 08 seconds West a distance of 86.14 feet to a point; thence running South 54 degrees 56 minutes 00 seconds West a distance of 145.68 feet to a point; thence leaving said northerly right-of-way line and running North 21 degrees 30 minutes 15 seconds West a distance of 150.02 feet to a point; thence running South 68 degrees 29 minutes 48 seconds West a distance of 145.01 feet to a point; thence running South 21 degrees 30 minutes 15 seconds East a distance of 185.00 feet to a point, located on the northerly right-of-way line of said Spalding Drive; thence continuing in a southwesterly direction along said right-of-way line and running South 54 degrees 56 minutes 00 seconds West a distance of 66.86 feet to an iron pin found; thence leaving said northerly right-of-way line and running North 21 degrees 30 minutes 15 seconds West a distance of 640.00 feet to a point; thence running North 66 degrees 58 minutes 12 seconds East a distance of 788.59 feet to a point located on the southwesterly right-of-way line of said Holcomb Bridge Road; thence continuing in a southeasterly direction along said right-of-way line and running South 42 degrees 12 minutes 00 seconds East a distance of 9.20 feet to a point; thence running South 43 degrees 19 minutes 00 seconds East a distance of 42.40 feet to a point; thence leaving said right-of-way line and running South 66 degrees 58 minutes 11 seconds West a distance of 165.26 feet to a point; thence running South 43 degrees 19 minutes 00 seconds East a distance of 138.73 feet to a point; thence running North 66 degrees 58 minutes 11 seconds East a distance of 180.00 feet to a point located on the southwesterly right-of-way line of said Holcomb Bridge Road; thence continuing in a southeasterly direction along said right-of-way line and running South 44 degrees 00 minutes 00 seconds East a distance of 53.55 feet to a point; thence leaving said right-of-way line and running South 66 degrees 58 minutes 11 seconds West a distance of 197.73 feet to a point; thence running South 44 degrees 00

minutes 00 seconds East a distance of 138.00 feet to a point; thence running South 68 degrees 36 minutes 29 seconds West a distance of 145.00 feet to a point; thence running South 21 degrees 23 minutes 31 seconds East a distance of 186.00 feet to a point located on the northerly right-of-way line of said Spalding Drive, which point marks the TRUE POINT OF BEGINNING; said tract containing 8.550 acres, as per Survey entitled "As Built Survey of Spalding Corners, Ltd." by Michael E. Scupin & Assoc., Registered Professional Land Surveyor dated March 26, 1981, revised March 30, 1981, and last revised April 22, 1982.

Together with all easements, created in favor of the above described tract by that certain Declaration of Easement dated February 15, 1980, recorded in Deed Book 7506, page 191, Fulton County records and by that certain Grant of Easement dated April 24, 1981, and recorded in Deed Book 7829, page 436, aforesaid records.

EXHIBIT "A"

Legal Description of the Shopping Center Tract

ALL THAT TRACT or parcel of land lying and being in Land Lot 313 of the 6th District of Fulton County, Georgia, and being more particularly described as follows:

BEGINNING at the intersection of the western right-of-way of Holcomb Bridge Road (Variable Right-of-Way) with the northern right-of-way of Spalding Drive (Variable Right-of-Way) and thence running along the northern right-of-way of Spalding Drive South 68° 36' 29" West a distance of 388.11 feet to a point; thence continuing along said right-of-way running South 68° 27' 19" West a distance of 33.79 feet to a point and iron pin found, said point being the **TRUE POINT OF BEGINNING**; thence from said **TRUE POINT OF BEGINNING** running along the northern right-of-way of Spalding Drive South 66° 17' 36" West a distance of 67.18 feet to a point; thence continuing along said right-of-way running South 61° 29' 39" West a distance of 101.44 feet to a point; thence continuing along said right-of-way running South 57° 10' 08" West a distance of 86.14 feet to a point; thence continuing along said right-of-way running South 54° 36' 00" West a distance of 145.73 feet to a point and iron pin found; thence continuing along said right-of-way running South 55° 17' 38" West a distance of 149.11 feet to a point and iron pin found; thence continuing along said right-of-way running South 54° 50' 54" West a distance of 65.87 feet to a point; thence departing said right-of-way running North 21° 34' 08" West a distance of 640.00 feet to a point and iron pin found; thence running North 66° 54' 19" East a distance of 788.77 feet to a point and iron pin found on the western right-of-way of Holcomb Bridge Road; thence running along the western right-of-way of Holcomb Bridge Road South 43° 22' 53" East a distance of 42.40 feet to a point; thence departing said right-of-way running South 66° 54' 18" West a distance of 164.81 feet to a point; thence running South 43° 08' 53" East a distance of 139.11 feet to a point and iron pin found; thence running North 67° 10' 04" East a distance of 179.77 feet to a point and iron pin found on the western right-of-way of Holcomb Bridge Road; thence running along the western right-of-way of Holcomb Bridge Road South 43° 49' 53" East a distance of 53.55 feet to a point; thence departing said right-of-way running South 67° 08' 18" West a distance of 197.73 feet to a point and iron pin found; thence running South 43° 49' 53" East a distance of 138.06 feet to a point and iron pin found; thence running South 68° 33' 22" West a distance of 144.83 feet to a point and iron pin found; thence running South 21° 21' 33" East a distance of 186.00 feet to a point and iron pin found on the northern right-of-way of Spalding Drive, said point being the **TRUE POINT OF BEGINNING**.

Said tract contain **9.02** acres as shown on plat of survey prepared for Selig Enterprises, Inc. by Dixon-Ross Surveying, J.B. Dixon, Georgia Registered Land Surveyor No. 1878, dated May 12, 1999.

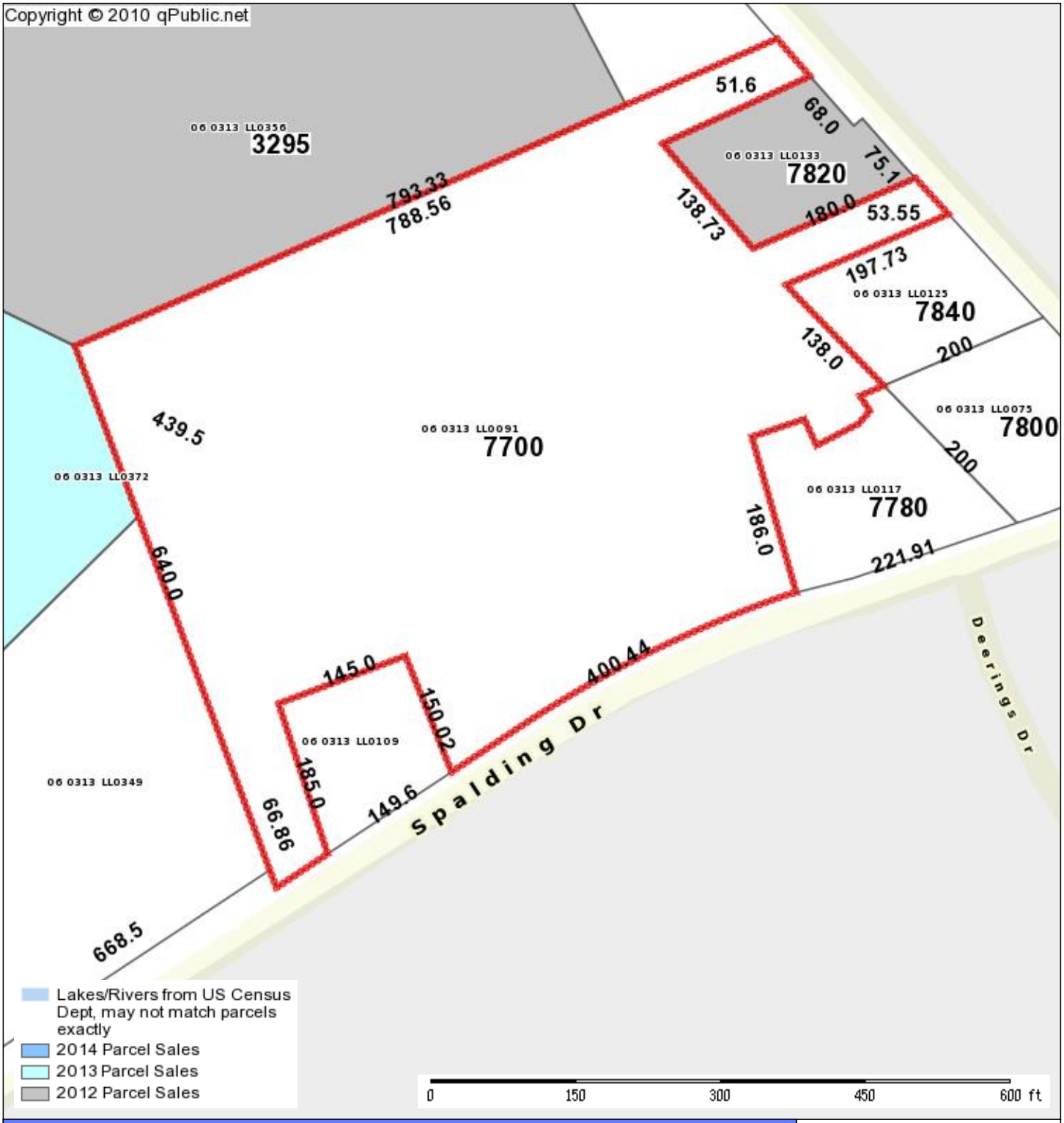
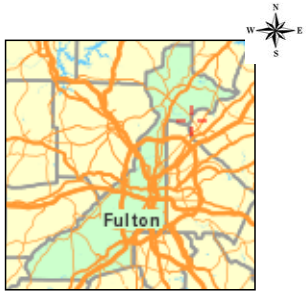


Exhibit "B"			
Parcel: 06 0313 LL0091 Acres: 8.63			
Name:	SELIG ENTERPRISES INC	Land Value:	5079100
Site:	7700 SPALDING DR	Building Value:	2100400
Sale:	$2884430 on 1982-04-27 Reason=9 Qual=U	Misc Value:	
Mail:	1100 SPRING ST NW #550 ATLANTA, GA 30309-2848	Total Value:	7179500



Date printed: 11/07/14 : 10:46:46

After Recording Return to:

W. Scott Laseter, Esq.
Kazmarek Mowery Cloud Laseter LLC
1230 Peachtree Street NE, Suite 3600
Atlanta, GA 30309

NOTE TO CLERK:
Please cross-reference to
Deed Book 52429, Page 207 and
Deed Book 39806 Page 513
Fulton County, Georgia Records

Environmental Covenant

This instrument is an Environmental Covenant executed pursuant to the Georgia Uniform Environmental Covenants Act, OCGA § 44-16-1, *et seq.* This Environmental Covenant subjects the Property identified below to the activity and/or use limitations specified in this document. The effective date of this Environmental Covenant shall be the date upon which the fully executed Environmental Covenant has been recorded in accordance with OCGA § 44-16-8(a).

Fee Owner of Property/ Grantor: Dunwoody Place Ventures LLC.
1100 Spring String NW, Suite 550
Atlanta, GA 30309

Grantee/ Holder: Dunwoody Place Ventures LLC
1100 Spring String NW, Suite 550
Atlanta, GA 30309

Grantee/ Entity with express power to enforce: State of Georgia
Department of Natural Resources
Environmental Protection Division
2 Martin Luther King Jr. Drive, SE
Suite 1054 East Tower
Atlanta, GA 30334

Parties with interest in the Property:

Property:

The property subject to the Environmental Covenant is located at "0" River Exchange Drive, Sandy Springs, Fulton County, Georgia and more particularly described on **Exhibit "A"** attached hereto and incorporated by reference (hereinafter "Property"). The Property was conveyed on April 15, 2005 from Jim Cowart Inc. to Dunwoody Place Ventures LLC and recorded in Deed Book 39806 Page 513 and revised in Deed Book 52429 Page 222, Fulton County Records. The Property is located in Land Lot 313 of the 6th District of Fulton, Georgia and contains 6.69 acres. A map of the area is attached as **Exhibit "B".**

Tax Parcel Number:

06-0313 LL-034-9 of Fulton County, Georgia

Name and Location of Administrative Records:

The environmental conditions that are the subject of this Environmental Covenant are described in the Compliance Status Report ("CSR") and any subsequent revisions, addendums, modifications or amendments thereto ("CSR Documents"), including:

- Release Notification, March 31, 2000
- Groundwater Investigation, 8-11-2000
- Compliance Status Report, 2-28-2003
- Compliance Status Report Addendum & Corrective Action Plan, March 2004
- Approval of Corrective Action Plan, 2-8-2005
- 1st Semi-Annual Report, March 2006
- 2nd Semi-Annual Report, October 2006
- 3rd Semi-Annual Report, February 2007
- 4th Semi-Annual Report, June 2007
- Corrective Action Plan Addendum, August 2008
- Voluntary Remediation Program Application, March 2010
- Revised Voluntary Remediation Program Application, May 2010
- Acceptance into Voluntary Remediation Program, 10-12-2010
- 1st Voluntary Remediation Program Semi-Annual Report, April 2011
- 2nd Voluntary Remediation Program Semi-Annual Report, October 2011
- 3rd Voluntary Remediation Program Semi-Annual Report, April 2012
- 4th Voluntary Remediation Program Semi-Annual Report, October 2012
- EPD review letter, 1-10-2014
- 1st 2014 Voluntary Remediation Program Semi-Annual Report, April 2014
- 2nd 2014 Voluntary Remediation Program Semi-Annual Report, November 2014

These documents are available at the following location:

Georgia Environmental Protection Division
Hazardous Sites Response Program
2 MLK Jr. Drive, SE, Suite 1054 East Tower
Atlanta, GA 30334
M-F 8:00 AM to 4:30 PM excluding state holidays

Description of Contamination and Corrective Action:

This Property has been listed on the state's hazardous site inventory (HSI No. 10639) and has been designated as needing corrective action due to the presence of regulated substances regulated under state law. Contact the property owner or the Georgia Environmental Protection Division for further information concerning environmental conditions on this Property. This notice is provided in compliance with the Georgia Voluntary Remediation Program.

This Declaration of Covenant is made pursuant to the Georgia Uniform Environmental Covenants Act, O.C.G.A. § 44-16-1 *et seq.* by Dunwoody Place Ventures LLC, its successors and assigns in favor of the State of Georgia, Department of Natural Resources, Environmental Protection Division (hereinafter "EPD"), its successors and assigns. This Environmental Covenant is being made due to a release of 1,1,2-trichloroethane, 2-butanone, acetone, benzene, chloroform, cis-1,2-dichloroethene, tetrachloroethene, toluene and trichloroethene all of which are "regulated substances" as defined under the Georgia Hazardous Site Response Act, O.C.G.A. § 12-8-90 *et seq.*, and the rules promulgated thereunder (hereinafter "HSRA" and "Rules", respectively). Corrective action included the installation and maintenance of institutional controls to protect human health and the environment, all as described in the CSR.

Grantor, Dunwoody Place Ventures LLC (hereinafter "Dunwoody"), hereby binds Grantor, its successors and assigns to the activity and use restrictions for the Property identified herein and grants such other rights under this Environmental Covenant in favor of Holder and EPD. EPD shall have full right of enforcement of the rights conveyed under this Environmental Covenant pursuant to HSRA and the Rules. Failure to timely enforce compliance with this Environmental Covenant or the use or activity limitations contained herein by any person shall not bar subsequent enforcement by such person and shall not be deemed a waiver of the person's right to take action to enforce any non-compliance. Nothing in this Environmental Covenant shall restrict EPD from exercising any authority under applicable law.

Dunwoody makes the following declaration as to limitations, restrictions, and uses to which the Property may be put and specifies that such declarations shall constitute covenants to run with the land, pursuant to O.C.G.A. § 44-16-5(a); is perpetual, unless modified or terminated pursuant to the terms of this Covenant pursuant to O.C.G.A. § 44-16-9; and shall be binding on all parties and all persons claiming under them, including all current and future owners of any portion of or interest in the Property (hereinafter "Owner"). Should a transfer or sale of the Property occur before such time as this Environmental Covenant has been amended or revoked, then said Environmental Covenant shall be binding on the transferee(s) or purchaser(s).

The Environmental Covenant shall inure to the benefit of Holder, EPD, Dunwoody, and their respective successors and assigns and shall be enforceable by the Director or his agents or assigns, Holder or its successors or assigns, Dunwoody or its successors and assigns, and other party(-ies) as provided for in O.C.G.A. § 44-16-11 in a court of competent jurisdiction.

Activity and/ or Use Limitation(s):

1. Registry. Pursuant to O.C.G.A. § 44-16-12, this Environmental Covenant and any amendment or termination thereof, may be contained in EPD's registry for environmental covenants.

2. Notice. The Owner of the Property must give thirty (30) days advance written notice to EPD of the Owner's intent to convey any interest in the Property.

3. Groundwater Limitation. The use or extraction of groundwater beneath the Property for drinking water or for any other non-remedial purposes shall be prohibited.

4. Right of Access. In addition to any rights already possessed by EPD and/ or Holder, the Owner shall allow authorized representatives of EPD the right to enter the Property at reasonable times for the purpose of evaluating the Corrective Action; to take samples, to inspect the Corrective Action conducted at the Property, to determine compliance with this Environmental Covenant, and to inspect records that are related to the Corrective Action.

5. Recording of Environmental Covenant and Proof of Notification. Within thirty (30) days after the date of the Director's signature, the Owner shall file this Environmental Covenant with the Recorder of Deeds for each County in which the Property is located, and send a file stamped copy of this Environmental Covenant to EPD within thirty (30) days of recording. Within that time period, the Owner shall also send a file-stamped copy to each of the following: (1) Holder, (2) each person holding a recorded interest in the Property subject to the covenant, (3) each person in possession of the real property subject to the covenant, (4) each municipality, county, consolidated government, or other unit of local government in which real property subject to the covenant is located, and (5) each owner in fee simple whose property abuts the property subject to the Environmental Covenant.

6. Termination or Modification. The Environmental Covenant shall remain in full force and effect in accordance with O.C.G.A. § 44-5-60, unless and until the Director determines that the Environmental Covenant is no longer necessary for the Property to comply with applicable Risk Reduction Standards, as defined in Georgia Rules of Hazardous Site Response (Rules) Section 391-3-19-.07, whereupon the Environmental Covenant may be amended or revoked in accordance with Section 391-3-19-08(7) of the Rules and O.C.G.A. § 44-16-1 *et seq.*

7. Severability. If any provision of this Environmental Covenant is found to be unenforceable in any respect, the validity, legality, and enforceability of the remaining provisions shall not in any way be affected or impaired.

8. No Property Interest Created in EPD. This Environmental Covenant does not in any way create any interest by EPD in the Property that is subject to the Environmental Covenant. Furthermore, the act of approving this Environmental Covenant does not in any way create any interest by EPD in the Property in accordance with O.C.G.A. § 44-16-3(b).

Representations and Warranties:

Grantor hereby respects and warrants to the other signatories hereto:

a) That the Grantor has the power and authority to enter into this Environmental Covenant, to grant the rights and interests herein provided and to carry out all obligations hereunder;

b) That the Grantor has identified all other parties that hold any interest (e.g., encumbrance) in the Property and notified such parties of the Grantor's intention to enter into this Environmental Covenant;

c) That this Environmental Covenant will not materially violate, contravene, or constitute a material default under any other agreement, document or instrument to which Grantor is a party, by which Grantor may be bound or affected;

d) That this Environmental Covenant will not materially violate or contravene any zoning law or other law regulating use of the Property; and

e) That this Environmental Covenant does not authorize a use of the Property that is otherwise prohibited by a recorded instrument that has priority over the Environmental Covenant.

Notices:

Any document or communication required to be sent pursuant to the terms of this Environmental Covenant shall be sent to the following persons:

Georgia Environmental Protection Division
Branch Chief
Hazardous Waste Management Branch
2 Martin Luther King Jr. Drive SE
Suite 1054 East Tower
Atlanta, GA 30334

[*Signatures on following pages.*]

Grantor has cause this Environmental Covenant to be executed pursuant to The Georgia Uniform Environmental Covenants Act, on the ____ day of _____, 2014.

GRANTOR:

_____

_____

Dated: _____

STATE OF GEORGIA
COUNTY OF FULTON

On this _____ of _____, 2014, I certify that _____ personally appeared before me, acknowledged that he/ she is the Present of the corporation that executed the within and foregoing instrument, and signed said instrument by free and voluntary act and deed of said corporation, for the uses and purposes therein mentioned, and on oath stated that he was authorized to execute said instrument for said corporation.

_____
Notary Public and for the State of Georgia,
residing at _____
My appointment expires: _____

[*Signatures continue on following pages.*]

GRANTEE/ HOLDER:

_____

_____

Dated: _____

STATE OF GEORGIA
COUNTY OF FULTON

On this _____ of _____, 2014, I certify that _____ personally appeared before me, acknowledged that he/ she signed this instrument, on oath stated that he was authorized to execute this instrument, and acknowledged it as the _____ of _____ to be the free and voluntary act and deed of such party for the uses and purposes mentioned in the instrument.

_____
Notary Public and for the State of Georgia,
residing at _____
My appointment expires: _____

[*Signatures continue on following pages.*]

STATE OF GEORGIA
ENVIRONMENTAL PROTECTION DIVISION

_____
Signature

_____
Printed Name

_____
Title

Dated: _____

STATE OF GEORGIA
COUNTY OF FULTON

On this _____ of _____, 2014, I certify that _____ personally appeared before me, acknowledged that he/she signed this instrument, on oath stated that he/she was authorized to execute this instrument, and acknowledged it as the _____ [type of authority] of _____ [name of party being represented] to be the free and voluntary act and deed of such party for the uses and purposes mentioned in the instrument.

_____
Notary Public and for the State of Georgia,
residing at _____
My appointment expires: _____

EXHIBIT "A"

ALL THAT TRACT OR PARCEL OF LAND lying and being in Land Lot 313 of the 6th District, Fulton County, Georgia and being more particularly described as follows:

BEGINNING at the intersection of the east right-of-way of River Exchange Drive (an unspecified right-of-way at said point) and the north right-of-way of Spalding Drive (an unspecified right-of-way at said point); run thence along the east right-of-way of River Exchange Drive north 33°57'05" west a distance of 129.96 feet to a point; continuing thence along said right-of-way south 56°02'55" west a distance of 10 feet to a point; continuing thence along said right-of-way north 33°57'04" west a distance of 86.41 feet to a point; continuing thence along said right-of-way and along the arc of a curve to the right having a radius of 300 feet, a distance of 249.32 feet (said arc being subtended by a chord bearing north 10°08'35" west and having a length of 242.21 feet) to a point; continuing thence along said right-of-way north 13°39'55" east a distance of 323.91 feet to a point; continuing thence along said right-of-way and along the arc of a curve to the left having a radius of 1,011.00 feet, a distance of 326.41 feet (said arc being subtended by a chord bearing north 04°24'57" east and a length of 325.00 feet) to a point; continuing thence along said right-of-way north 04°50'00" west a distance of 50.00 feet to a point; continuing thence along said right-of-way and along the arc of a curve to the right having a radius of 311.18 feet, a distance of 7.25 feet (said arc being subtended by a chord bearing north 04°09'56" west and a length of 7.25 feet) to a point; thence leaving said right-of-way of River Exchange Drive, run south 65°57'06" east a distance of 406.37 feet to a point; run thence south 21°30'15" east a distance of 629.70 feet to a point located on the north right-of-way line of Spalding Drive (an unspecified right-of-way at said point); run thence along said right-of-way of Spalding Drive south 54°40'01" west a distance of 101.63 feet to a point; continuing thence along said right-of-way south 55°14'54" west a distance of 79.68 feet to a point; continuing thence along said right-of-way south 55°31'21" west a distance of 228.66 feet to a point; continuing thence along said right-of-way south 56°11'50" west a distance of 105.18 feet to a point; continuing thence along said right-of-way south 56°02'55" west a distance of 127.18 feet to the POINT OF BEGINNING, said tract containing 10.9943 acres and being more particularly described on a plat of survey for The Bulfinch Companies, Inc., Chicago Title Insurance Company, and New York Life Insurance and Annuity Corporation, prepared by Travis N. Pruitt, Sr., R.L.S. No. 1729, dated May 1, 1995, last revised July 6, 1995.

EXHIBIT "~~B-1~~ XX" "A"

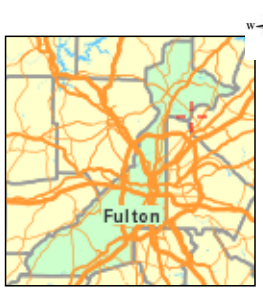
Legal Description of the Excess Dunwoody Place Venture Tract

All that tract or parcel of land lying and being in Land Lot 313 of the 6th District, City of Sandy Springs, Fulton County, Georgia, being more particularly described as follows:

Beginning at a the intersection of the northwestern right of way of Spalding Drive (right of way varies) and the northeastern right of way of River Exchange Drive (right of way varies); thence proceeding along said right of way of River Exchange Drive the following courses and distances: North 33 degrees 58 minutes 03 seconds West a distance of 129.96 feet to a point, South 56 degrees 01 minutes 57 seconds West a distance of 10.00 feet to a point, North 33 degrees 58 minutes 02 seconds West a distance of 86.41 feet to a point, along a curve to the right with a radius of 300.00 feet and an arc length of 249.32 feet (said curve having a chord bearing of North 10 degrees 09 minutes 33 seconds West and a chord distance of 242.21 feet) to a point and North 13 degrees 38 minutes 57 seconds East a distance of 91.16 feet to a point; thence leaving said right of way of River Exchange Drive and proceeding South 76 degrees 21 minutes 03 seconds East a distance of 50.00 feet to a 1/2" rebar set; thence proceeding North 67 degrees 58 minutes 03 seconds East a distance of 348.53 feet to a 1/2" rebar set; thence proceeding North 45 degrees 23 minutes 16 seconds East a distance of 209.62 feet to a 1/2" rebar set; thence proceeding South 21 degrees 31 minutes 12 seconds East a distance of 433.93 feet to a point on the northwestern right of way of Spalding; thence proceeding along said right of way of Spalding the following courses and distances: South 54 degrees 39 minutes 04 seconds West a distance of 101.63 feet to a point, South 55 degrees 13 minutes 57 seconds West a distance of 79.68 feet to a point, South 55 degrees 30 minutes 24 seconds West a distance of 228.66 feet to a point, South 56 degrees 10 minutes 53 seconds West a distance of 105.18 feet to a point and South 56 degrees 01 minutes 58 seconds West a distance of 127.18 feet to the Point of Beginning.

Said tract contains 291,348 square feet or **6.69** acres.

Exhibit "B"			
Parcel: 06 0313 LL0349 Acres: 6.68			
Name:	DUNWOODY PLACE VENTURE LLC	Land Value:	2404800
Site:	RIVER EXCHANGE DR	Building Value:	0
Sale:	$0 on 2005-04-15 Reason=T Qual=U	Misc Value:	
Mail:	1100 SPRING ST NW STE 500 ATLANTA, GA 30309-2827	Total Value:	2404800



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APPENDIX 9

SUMMARY OF SERVICES AND PROFESSIONAL HOURS

Spalding Corners Shopping Center
Sandy Springs, Fulton County, Georgia
HSI #10639
SEA Job #102-063

Summary of Activities and Professional Hours

VRP 2nd 2014 Semi-Annual Progress Report
September, October and November 2014

Activity	Professional Hours Spent
Monitoring Well Installation (MW-22S)	12
Semi-Annual Groundwater Sampling Event	46
MNA Evaluation	5
Groundwater Modeling	3
Uniform Environmental Covenants	14
Semi-Annual Report Preparation	25