SEPTEMBER 2012 SEMI-ANNUAL VOLUNTARY REMEDIATION PLAN PROGRESS REPORT

PROFESSIONAL CLEANERS & LINEN SERVICE
2040 BEAVER RUIN ROAD
NORCROSS, GEORGIA

HSI No. NA

SEPTEMBER 4, 2012

Prepared for

Indian Trail Assoc., LTD
P.O. Box 767127
Roswell, Georgia

EMA
Environmental Management Associates, LLC

September 5, 2012 Reference No. 559

Ms. Kristen Ritter Rivera
Georgia Environmental Protection Division
Hazardous Sites Response Program
Floyd Towers East, Suite #1462
2 Martin Luther king Jr. Drive, SE
Atlanta, Georgia 30334-9000

Dear Ms. Ritter Rivera:

Re: September 2012 Semi-Annual Progress Report
Voluntary Remediation Plan
Professional Cleaners & Linen Service
2040 Beaver Ruin Road, Norcross, GA

On behalf of Indian Trail Assoc, LTD, Environmental Management Associates, LLC (EMA) has attached the September 2012 Semi-Annual Progress Report for the above-referenced site (Site). As discussed as a possibility during our meeting on April 16, 2012, Indian Trail Assoc. is requesting a waiver for the financial assurance mechanism since only a small portion of the cost estimate remains as detailed in the attached report.

Should you have any questions related to this correspondence, please contact the undersigned at (770) 271-4628.

Yours truly,

Environmental Management Associates, LLC

Brent Cortelloni, CHMM

Encl.

cc: Craig Harper – Indian Trail Assoc., LTD

5262 Belle Wood Court, Suite A ♦ Buford, Georgia 30518
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John O. Schwaller, P.G.
(GA. Registration No. 1617)

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1.0 PROJECT SUMMARY

The Professional Cleaners & Linen Service site (Site) is located at 2040 Beaver Ruin Road in Norcross, Gwinnett County, Georgia and is part of a 1.79-acre multi-tenant shopping center (Crossings Shopping Center) developed in 1984. The surrounding properties are predominantly commercial with some residential to the north. A dry cleaner has operated within one of the tenant spaces (Suite 15) since 1984 and is believed to be the source of the Site contamination. A topographic map (Property Location Map) of the surrounding area is included as Figure 1.

A Phase I and II Environmental Site Assessment (ESA) was completed in February 2011 for the subject property. During the Phase II ESA activities, a release of tetrachloroethene (PCE) was detected in the subsurface soils and groundwater above the applicable Notification Concentrations (NC) referenced in Georgia Environmental Protection Division's (EPD) Hazardous Site Response Act (HSRA) Regulations Chapter 391-3-19, Appendix I. Within 30 day's of detection, the detected soils above the NC were removed from the Site based on the confirmatory soil sample results. A release notification to groundwater was subsequently submitted to EPD on April 7, 2011. It should be noted that PCE is the only contaminant of concern at this Site.

A Voluntary Investigation and Remediation Plan (VIRP) prepared by EMA was submitted to EPD on September 2, 2011. EPD approved the VIRP with conditions and comments in two letters dated March 6, 2012.

This Semi-annual VIRP Progress Report No. 1 was prepared in accordance with the VIRP and covers the activities conducted since the September 2, 2011 VIRP Application submittal.

2.0 ACTIONS TAKEN SINCE LAST SUBMITTAL

2.1 REMEDIAL ALTERNATIVE

There were three potential remedial alternatives presented in the VIRP: use of a restricted covenant to eliminate future exposure of on-site contaminants), in-situ chemical oxidation (ISCO) to decrease the levels of the on-site contamination, or a combination of both. The selection of the remedial approach was to be based on the additional characterization of the levels of the contamination at the believed source, the horizontal delineation in groundwater, and any fate and transport modeling to determine off-site receptor impact. As discussed during the meeting with EPD on April 16, 2012, Indian Trail Associates, LTD elected to move forward with the ISCO remediation alternative to meet a Type 2 Risk Reduction Standard (RRS) of 19 micrograms per liter (µg/L) for PCE based on the timeframe to reach closure.

2.2 HORIZONTAL DELINEATION

EPD requested horizontal delineation of the groundwater contamination at the source area and southwest of monitoring well MW-2 as detailed in the March 6, 2012 correspondence. EPD also requested that a third well would be needed upgradient of monitoring well MW-1 to determine if contamination was from an off-Site source. Three groundwater monitoring wells (MW-5, MW-6, and MW-7) were installed on March 15, 2012 at locations agreed upon by EPD in e-mail correspondence. The wells were installed by Geo Lab Probing Services, Inc. under the supervision of EMA's Professional Geologist. The wells were developed by manual bailing on March 15, 2012. A copy of the stratigraphic and instrumentation logs for MW-5, MW-6 and MW-7 are included in Attachment A. A Site Plan which illustrates the well locations has been attached as Figure 1.

Static groundwater level measurements were recorded at each monitoring well on March 19, 2012. The measurements were made with a pre-cleaned "Slope" electronic water level detector and were reported to the nearest 0.01-foot based on a fixed point on the top of the well casing. The top of casing and ground surface elevations were measured on March 19, 2012 with a CST/Berger Model SAL 28 surveying level based on an assumed datum. A summary of the ground surface, top of casing, and groundwater elevation data is provided in Table 1.

Groundwater samples were collected from these wells and existing well MW-2 on March 19, 2012 using low-flow purging and sampling technique referenced in

USEPA Region IV's SESD Operating Procedures - Groundwater Sampling dated November 1, 2007. Peristaltic pumps using disposable Teflon lined tubing was used for the purging and sampling. The groundwater samples were delivered to Analytical Environmental Services, Inc. (AES) located in Atlanta, Georgia. AES is an accredited laboratory under the National Environmental Laboratory Accreditation Program (NELAC) (Accreditation ID: E87582). The groundwater samples were submitted for target compound list - volatile organic compounds (TCL VOCs) by SW-846 Method 8260B. A summary of the detected analytes within these four wells are included in Table 2.

The groundwater samples collected on March 19, 2012 from newly installed monitoring wells, MW-5, MW-6, and MW-7, and from the previously installed MW-4 which was collected on July 22, 2011 resulted in complete horizontal delineation of the groundwater contamination to the Type 1 RRS for PCE. The analytical report is included in Appendix B.

2.3 BASELINE MONITORING

EPD required a baseline groundwater monitoring event prior to the proposed remediation activities discussed in the following section. The baseline groundwater samples were collected on April 23, 2012 using low-flow purging and sampling technique discussed in Section 2.2. Static groundwater level measurements were recorded at each monitoring well on April 23, 2012. The measurements were made with a pre-cleaned "Slope" electronic water level detector and were reported to the nearest 0.01-foot based on a fixed point on the top of the well casing. A potentiometric contour map for the shallow water table was prepared based on the groundwater elevations presented in Table 1 and is provided as Figure 2A.

During the low-flow purging procedure, field measurements of reduction oxidation potential (redox), dissolved oxygen (D.O.), turbidity, pH, conductivity, and temperature were recorded. Once the field measurements stabilized for three consecutive readings, samples were collected directly into the pre-preserved laboratory supplied containers. A duplicate sample from well MW-1 was collected for the TCL VOCs to assess precision and a trip blank sample was included with the sample set to assess cross-contamination during shipping. A field "rinsate" sample was not required since disposable equipment for the sample collection was utilized.

The groundwater samples were delivered under standard chain-of-custody (COC) protocols to Analytical Environmental Services, Inc. (AES) located in

Atlanta, Georgia. AES is an accredited laboratory under the National Environmental Laboratory Accreditation Program (NELAC) (Accreditation ID: E87582). The groundwater samples were submitted for TCL VOCs by SW-846 Method 8260B; chloride by SW-846 Method 9056A; hexavalent chromium by SW-846 7196; and select metals (arsenic, cadmium, chromium, barium, copper, iron, lead, manganese, and selenium) by SW-846 Method 6010C. It should be noted that a baseline sample was not required for TCL VOCs for monitoring wells MW-5, MW-6 and MW-7 since these wells were sampled on March 19, 2012.

The detected TCL VOCs for the baseline event and previous sampling events are summarized in Table 2. The geochemical parameters and metals are summarized in Table 3. The analytical report is included in Appendix B.

2.4 REMEDIATION

The use of an in-situ chemical oxidation (ISCO) reagent like sodium persulfate to reduce the existing groundwater contamination to levels at or below the Type 1 or 2 RRS was proposed as an option in the VIRP. The objective of the ISCO was to reduce the level of PCE by immediate dechlorination upon contact (residuals are carbon dioxide and water). The chemical oxidant used for this ISCO application was FMC Corporation's Klozur® sodium persulfate mixed with an alkaline activator (sodium hydroxide) to form sulfate and hydroxyl radicals that were injected into the aquifer within the source zone areas at the Site.

Prior to the ISCO injection, a Pilot Study Notification was submitted to EPD's Underground Injection Control Program in correspondence dated April 16, 2012. In addition, saturated soil and groundwater samples were collected from the Site and delivered to FMC Corporations laboratory to determine the soil oxygen demand (SOD) and sodium hydroxide demand of the background soils. FMC used this data along with the estimated horizontal and vertical extent of the groundwater contaminant plume and average PCE concentration to calculate the quantity of sodium persulfate and alkaline activator needed to mineralize the existing groundwater PCE contamination. FMC determined that 2,750 pounds of sodium persulfate would be required to overcome the background SOD and effectively mineralize the PCE.

EMA's subcontractors, REM-CON and Geo Lab Probing Services, injected approximately 5,500 gallons of an alkaline activated 10 percent sodium persulfate solution in 15 direct push borings installed throughout the contaminant plume during the week of April 24, 2012 and on June 7, 2012. The sodium persulfate reagent was injected from the bottom up at five foot intervals

in the top 20 feet of the aquifer. The injection area was from monitoring well MW-1 to well MW-2 and included several injection borings within the building. The locations of these 15 injection points are illustrated on Figure 3.

Following the injection, temporary ¾-inch PVC injection wells were installed within several of the direct push borings to be used for future injections if required.

Based on the analytical results discussed in Section 2.4, a second formal injection was completed by REM-CON and Geo Lab Probing Services on August 23 and 24, 2012. An additional 1,100 gallons of alkaline activated 17 percent sodium persulfate solution was injected into seven (7) geoprobe borings and within the previously installed injection points located within the contaminant plume. The locations of these additional 7 injection points are illustrated on Figure 3.

2.5 POST ISCO MONITORING EVENT

The first quarterly post-injection groundwater samples were collected on July 24, 2012 using the low-flow purging and sampling technique referenced in Section 2.2. Static groundwater level measurements were recorded at each monitoring well on July 24, 2012. The measurements were made with a pre-cleaned "Slope" electronic water level detector and were reported to the nearest 0.01-foot based on a fixed point on the top of the well casing. A potentiometric groundwater contour map for the shallow water table was prepared based on the groundwater elevations presented in Table 1 and is provided as Figure 2B.

All of the existing monitoring wells were sampled for the same parameters listed in Section 2.3 and were delivered under standard COC protocols to AES. A duplicate sample of well MW-3 was collected for TCL VOCs to assess precision and a trip blank sample was included with the sample set to assess cross-contamination during shipping. A field “rinsate” sample was not required since only disposable equipment for the sample collection was utilized. The analytical results are summarized in Table 2. The geochemical parameters and metals are summarized in Table 3.

Based on the detected PCE in groundwater samples collected from downgradient monitoring wells MW-4 and MW-6, confirmatory samples were collected on August 23, 2012 from these same wells using the same sampling method described above. These groundwater samples were submitted to AES for PCE analysis since they were for confirmatory purposes only.

The analytical reports are included in Appendix B.

2.6 DISCUSSION AND CONCLUSIONS

A data quality assessment for the sampling events was conducted by EMA's chemist in accordance with USEPA's "Contract Laboratory Program National Functional Guidelines for Organic and Inorganic Data Review" dated February 1994, with revisions and updates. The data quality assessment involved the evaluation of the accuracy and precision of the data based on surrogate spike recoveries, matrix spike/matrix spike duplicate recoveries and relative percent differences, laboratory control samples, field duplicate samples for the baseline and post-injection events, and method blank results. Cross-contamination of VOCs was also monitored with trip blank samples. The trip blank samples were free from detectable levels of VOCs and therefore it does not appear that cross-contamination occurred. The field duplicate results indicated an adequate level of precision was achieved. The remainder of quality control sample data was within the control limits indicating that the data can be used without qualification.

The analytical results for the baseline and post-injection monitoring for the geochemical parameters and select metals listed in Table 3 do not indicate that there is a significant increase in metal migration following the addition of the oxidant. While chromium and lead are slightly above the associated US EPA Drinking Water Maximum Contaminant Levels (MCLs) or in the case of lead (Action Level), the exceedances are only at wells MW-1 and MW-7, respectively, and are not in the further downgradient wells MW-2, MW-4, and MW-6. None of the other metals were reported above the MCLs in the source area wells.

The initial injection event resulted in a 62 percent decrease in PCE concentration from the baseline event in the heart of the plume (MW-7) from 82 micrograms per liter (µg/L) to 31 µg/L. A significant decrease was also noted in monitoring well MW-1 which resulted in a 52 percent decrease in PCE concentration from the average of 95.5 µg/L (sample result and duplicate result) to 46 µg/L. However, only a 13 percent decrease was noted in downgradient well MW-2 from 47 µg/L to 41 µg/L.

The PCE analytical results following the first ISCO injection were still above the applicable Type 2 RRS for PCE (19 µg/L); therefore, a second ISCO injection was completed as detailed previously in Section 2.4. The next quarterly monitoring event is scheduled for late October 2012.

The downgradient point of demonstration wells MW-4 and MW-6 were previously reported as non-detect in the baseline sampling event indicating complete horizontal delineation; however, a minute level of PCE was reported in the post-injection monitoring event in both wells. It should be noted that both PCE results were below the Type 2 RRS. The confirmatory groundwater sample collected on August 23, 2012 for MW-6 was reported as non-detect; however, the previously reported PCE groundwater sample result collected from well MW-4 was confirmed. The confirmed level reported in well MW-4 (8.3 µg/L) is only slightly above the MCL and is most likely a temporary exceedance due to the initial injection which may have caused some minor migration in this downgradient well.

The next sampling event scheduled for October 2012 will help determine if this is a temporary exceedance that will naturally attenuate based on the elimination of the upgradient source or if the PCE plume has migrated to this well.

3.0 REVISED COST ESTIMATE

The initial cost estimate for the continued groundwater monitoring, additional delineation, and remediation of the groundwater PCE contamination detected to date was provided to EPD in the VIRP and included a range from $66,600 to $78,600. Since the VIRP submittal, three of the four groundwater monitoring wells have been installed and ISCO injections have been conducted twice to reduce the PCE in the Site groundwater to the associated Type 2 RRS. Assuming that this second injection was successful and taking into account the work that has been completed, the remaining estimated amount to complete the VIRP activities is $25,440. This is an estimate only and is based on the assumption that remediation is complete. A summary of the initial estimate included in the VIRP and the assumed updated estimate is included in Appendix C. We have also included a tabulated summary of the expenses since the last reporting period and a summary of hours charged by our Professional Geologist.

4.0 SCHEDULE AND FUTURE SUBMITTALS

A reduced sampling event is scheduled for late September to confirm that the existing PCE levels are below the Type 2 RRS. If not, either additional ISCO injections will be conducted to meet the Type 2 RRS or compliance with the Type 4 RRS may be considered as an option. Independent of the direction that will be pursued, over the next six months two additional quarterly monitoring events will be conducted along with the installation of the bedrock monitoring well and the completion of the second Semi-annual Progress Report. Information will be provided in this report that will detail the proposed alternative that will be selected by Indian Trail Association, LTD. A Projected Milestone Schedule, showing timelines for the following items, is included in Appendix D.

- Vertical Groundwater Delineation Investigation
- Two quarterly monitoring events
- Second Semi-Annual Progress Report Submittal
- File Groundwater Restriction Covenant <u>if required</u>
- ISCO Injection(s) <u>if required</u>
- VRP Compliance Status Report

5.0 PROFESSIONAL GEOLOGIST CERTIFICATION STATEMENT

"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 for Professional Geologists and I have the necessary experience and am in charge of the investigation and remediation of this release of regulated substances.

Furthermore, to document my direct oversight of the Voluntary Remediation Plan development, implementation of corrective action, and log 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. "

Mr. John O. Schwaller, P.G. _____
Georgia Registration No. 1617

_____
Signature/Stamp

5.0 PROFESSIONAL GEOLOGIST CERTIFICATION STATEMENT

"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 for Professional Geologists and I have the necessary experience and am in charge of the investigation and remediation of this release of regulated substances.

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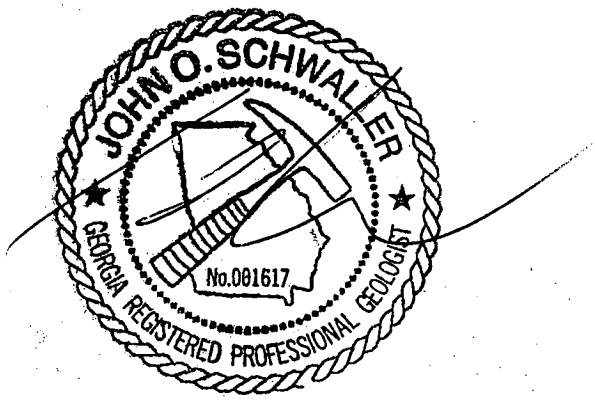
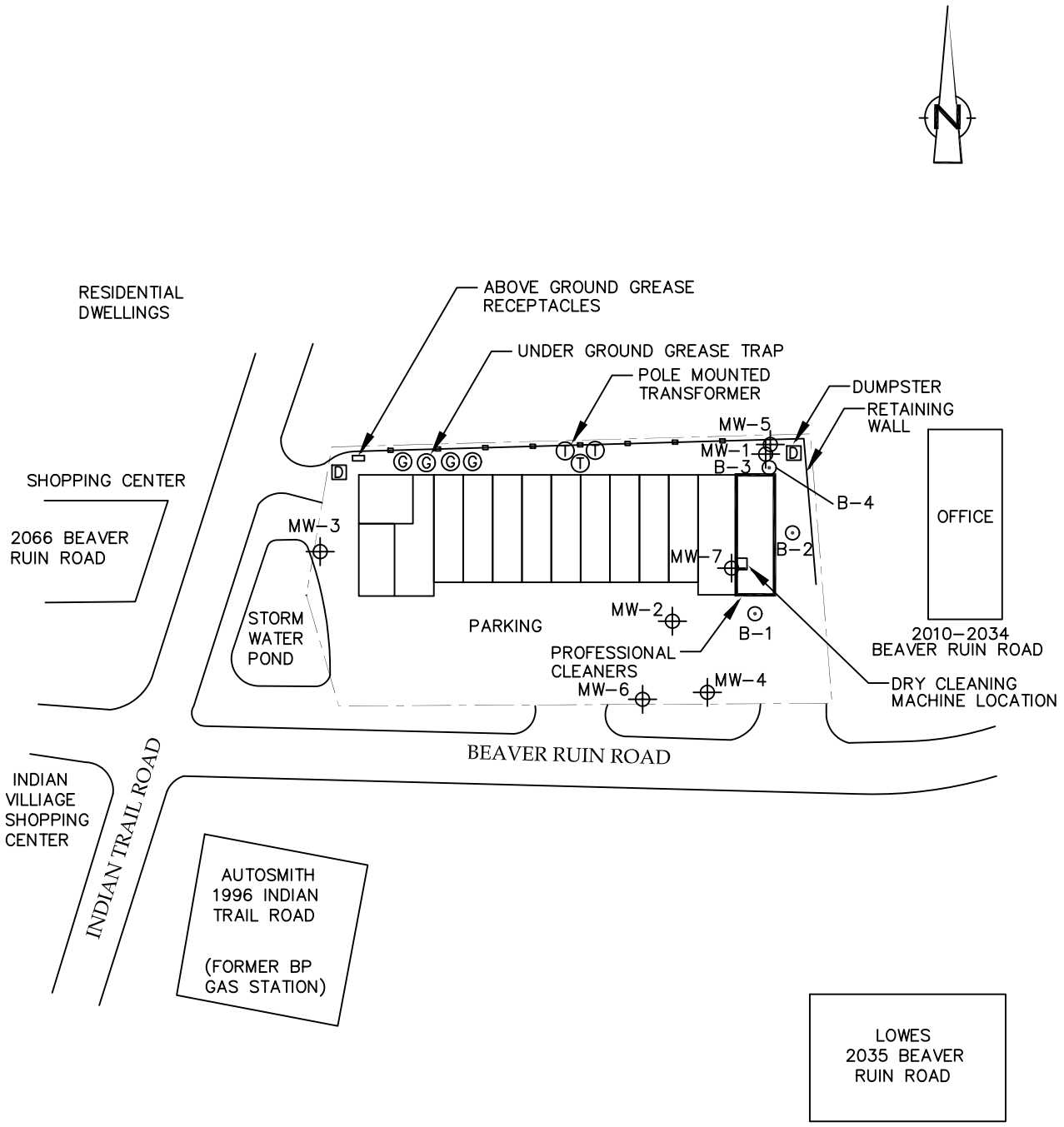
Mr. John O. Schwaller, P.G.
Georgia Registration No. 1617

Signature/Stamp



FIGURES



LEGEND:

B-1 ⊙ BOREHOLE LOCATION

MW-1 ⊕ MONITORING WELL LOCATION

NOTE:

BASE MAP CREATED FROM GLE ASSOCIATES, INC DRAWING 11000-11045 SHEET A-3.

0 50 100FT

SCALE

Title

SITE PLAN

Site

PROFESSIONAL CLEANERS & LINEN SERVICE

2040 Beaver Ruin Road, Norcross, Georgia

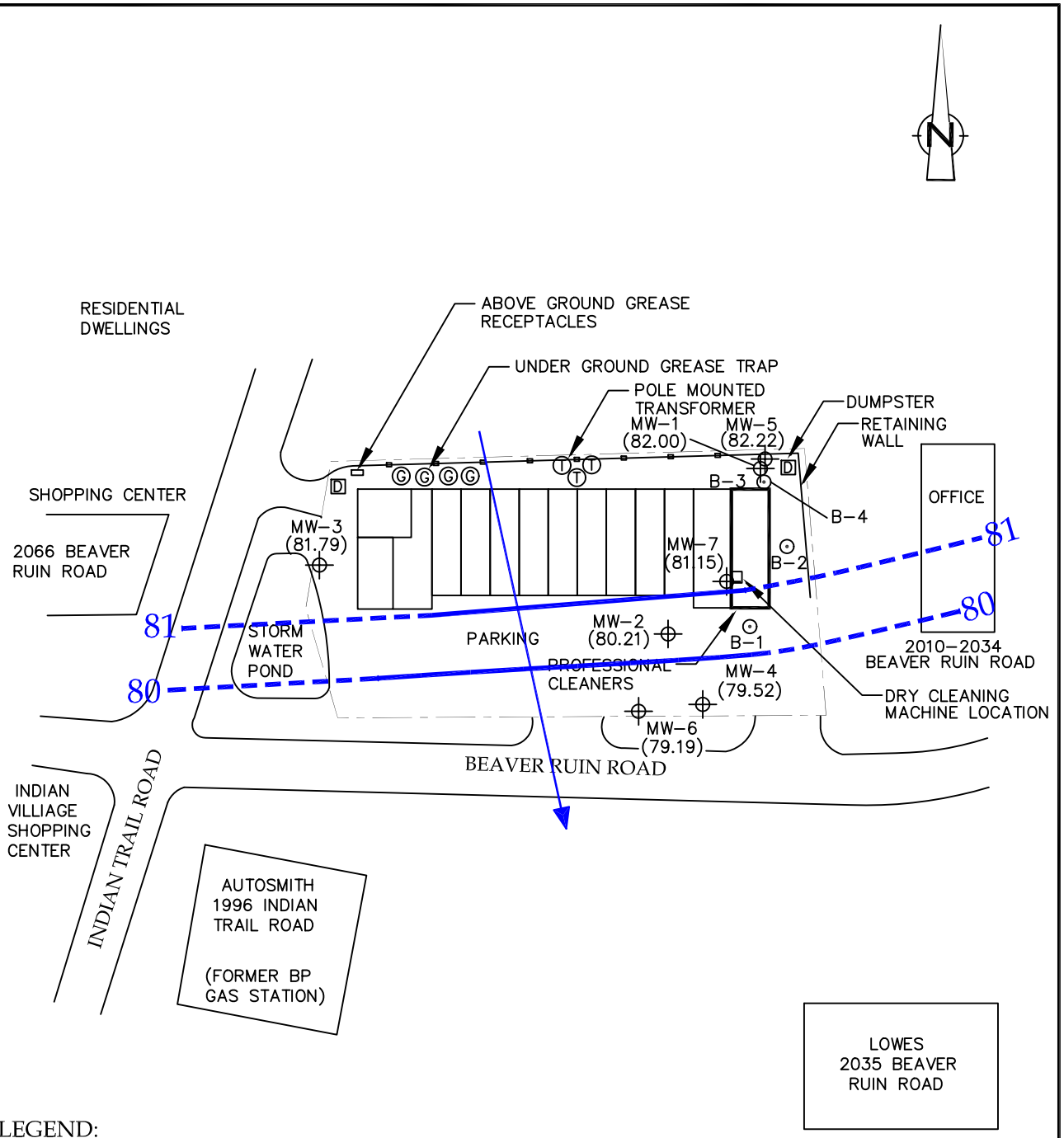
EMA

Environmental Management Associates, LLC

Facility ID.

Figure

1



LEGEND:

B-1 ⊙ BOREHOLE LOCATION

MW-1 ⊕ MONITORING WELL LOCATION

(79.19) GROUNDWATER CONCENTRATION, FT AMSL

80 GROUNDWATER CONCENTRATION CONTOUR, FT AMSL

GROUNDWATER FLOW DIRECTION

NOTE:

BASE MAP CREATED FROM GLE ASSOCIATES, INC DRAWING 11000-11045 SHEET A-3.

0 50 100FT

SCALE

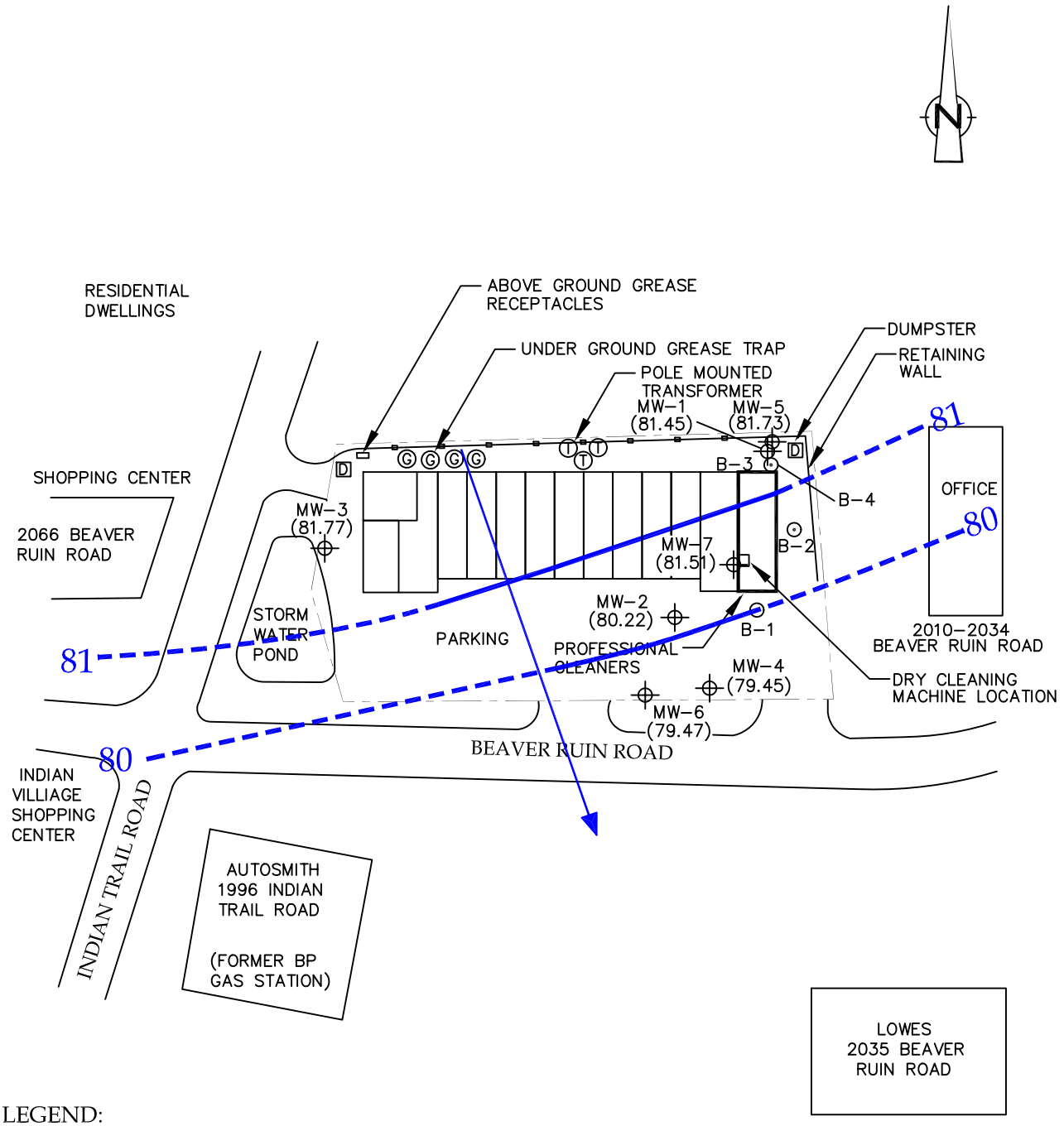
Title: GROUNDWATER CONTOURS AND FLOW DIRECTION - APRIL 23, 2012

Site: PROFESSIONAL CLEANERS & LINEN SERVICE
2040 Beaver Ruin Road, Norcross, Georgia

EMA Environmental Management Associates, LLC

Facility ID.

Figure 2A



LEGEND:

B-1 ⊙ BOREHOLE LOCATION

MW-1 ⊕ MONITORING WELL LOCATION

(79.19) GROUNDWATER CONCENTRATION, FT AMSL

80 GROUNDWATER CONCENTRATION CONTOUR, FT AMSL

GROUNDWATER FLOW DIRECTION

NOTE:

BASE MAP CREATED FROM GLE ASSOCIATES, INC DRAWING 11000-11045 SHEET A-3.

0 50 100FT

SCALE

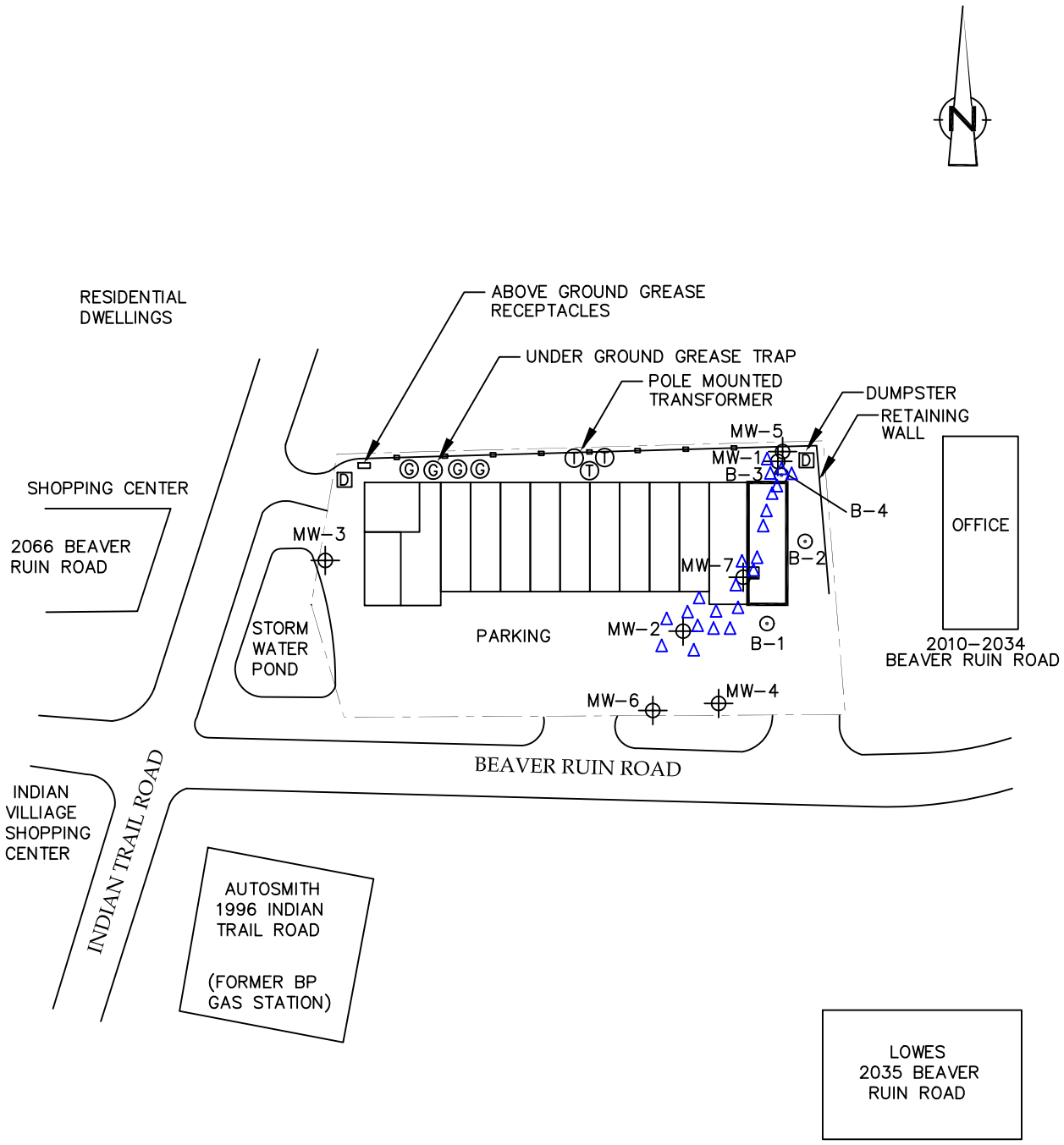
Title: GROUNDWATER CONTOURS AND FLOW DIRECTION - JULY 24, 2012

Site: PROFESSIONAL CLEANERS & LINEN SERVICE
2040 Beaver Ruin Road, Norcross, Georgia

EMA
Environmental Management Associates, LLC

Facility ID.

Figure 2B



LEGEND:

B-1 ⊙ BOREHOLE LOCATION

MW-1 ⊕ MONITORING WELL LOCATION

△ INJECTION LOCATION

NOTE:

BASE MAP CREATED FROM GLE ASSOCIATES, INC DRAWING 11000-11045 SHEET A-3.

0 50 100FT

SCALE

Title

INJECTION LOCATIONS

Site

PROFESSIONAL CLEANERS & LINEN SERVICE
2040 Beaver Ruin Road, Norcross, Georgia

EMA
Environmental Management Associates, LLC

Facility ID.

Figure 3

TABLES

TABLE 1

GROUNDWATER LEVEL MEASUREMENTS
PROFESSIONAL CLEANERS AND LINEN SERVICE
NORCROSS, GEORGIA

Well Number	*Date Measured*	*Ground Surface Elevation* (1)	*TOC Elevation* (1)	*Depth to Groundwater (feet BTOC)* (2)	*Groundwater Elevation* (1)
MW-1	7/1/2011	99.59	99.18	15.10	84.08
	7/12/2011	99.59	99.18	15.25	83.93
	8/17/2011	100.41	100.00	15.76	84.24
	3/19/2012	100.41	100.00	17.78	82.22
	4/23/2012	100.41	100.00	18.00	82.00
	7/24/2012	100.41	100.10	18.65	81.45
MW-2	7/1/2011	98.53	97.96	16.50	81.46
	7/12/2011	98.53	97.96	16.63	81.33
	8/17/2011	99.37	98.80	17.30	81.50
	3/19/2012	99.37	98.80	18.43	80.37
	4/23/2012	99.37	98.80	18.59	80.21
	7/24/2012	99.37	98.92	18.70	80.22
MW-3	7/1/2011	98.43	98.00	14.39	83.61
	7/12/2011	98.43	98.00	14.75	83.25
	8/17/2011	99.26	98.83	15.47	83.36
	3/19/2012	99.26	98.83	17.09	81.74
	4/23/2012	99.26	98.83	17.04	81.79
	7/24/2012	99.26	98.83	17.06	81.77
MW-4	8/17/2011	97.81	97.39	16.70	80.69
	3/19/2012	97.81	97.39	17.71	79.68
	4/23/2012	97.81	97.39	17.87	79.52
	7/24/2012	97.81	97.39	17.94	79.45
MW-5	3/19/2012	100.74	100.34	17.85	82.49
	4/23/2012	100.74	100.34	18.12	82.22
	7/24/2012	100.74	100.34	18.61	81.73
MW-6	3/19/2012	97.21	96.81	17.18	79.63
	4/23/2012	97.21	96.81	17.62	79.19
	7/24/2012	97.21	96.81	17.34	79.47
MW-7	3/19/2012	100.89	100.69	19.39	81.30
	4/23/2012	100.89	100.69	19.54	81.15
	7/24/2012	100.89	100.78	19.27	81.51

Notes:

(1) Top of casing (TOC), ground surface, and groundwater elevations based on an assumed datum. Re-surveyed on August 17, 2011. Modifications made to TOC elevations for MW-1, 2, and 7 on May 24, 2012.

(2) BTOC - below top of casing

TABLE 2

GROUNDWATER PCE ANALYTICAL RESULTS
PROFESSIONAL CLEANERS AND LINEN SERVICE
NORCROSS, GEORGIA

Sample Location	*Sampling Period*	*Sample Date*	*Analyte*	*Concentration (µg/L)* [1]	*Standard* [2] (µg/L)
MW-1		7/1/2011	PCE	50	5/19/98
	Baseline	4/23/2012	PCE	91/100[3]	
	1st Quarterly	7/24/2012	PCE	46	
MW-2		7/1/2011	PCE	62	5/19/98
	Baseline	3/19/2012	PCE	47	5/19/98
	1st Quarterly	7/24/2012	PCE	41	
MW-3		7/1/2011	PCE	BRL (5)[4]	5/19/98
	Baseline	4/23/2012	PCE	BRL (5)	
	1st Quarterly	7/24/2012	PCE	BRL (5)/BRL[3]	
MW-4		7/22/2011	PCE	BRL (5)	5/19/98
	Baseline	4/23/2012	PCE	BRL (5)	
	1st Quarterly	7/24/2012	PCE	8.9	
	Confirmatory	8/23/2012	PCE	8.3	
MW-5	Baseline	3/19/2012	PCE	BRL (5)	5/19/98
	1st Quarterly	7/24/2012	PCE	BRL (5)	
MW-6	Baseline	3/19/2012	PCE	BRL (5)	5/19/98
	1st Quarterly	7/24/2012	PCE	5.2	
	Confirmatory	8/23/2012	PCE	BRL (5)	
MW-7	Baseline	3/19/2012	PCE	82	5/19/98
	1st Quarterly	7/24/2012	PCE	31	

Notes:
1) µg/L - micrograms per liter
2) Type 1 Risk Reduction Standard (RRS)/Type 2 RRS/Type 4 RRS for groundwater.
3) Sample result and field duplicate result
4) BRL - Below reporting limit listed in paranthese

TABLE 3
GROUNDWATER GEOCHEMICAL ANALYTICAL RESULTS
PROFESSIONAL CLEANERS AND LINEN SERVICE
NORCROSS, GEORGIA

Well Number	*Sampling Period*	*Sampling Date*	*pH*	*ORP mV*[1]	*D.O. (mg/L)* [2]	*Chloride (mg/L)*	*Arsenic (mg/L)*	*Barium (mg/L)*	*Cadmium (mg/L)*	*Chromium (mg/L)*	*Copper (mg/L)*	*Iron (mg/L)*	*Lead (mg/L)*	*Manganese (mg/L)*	*Selenium (mg/L)*	*Hex. Chrom. (mg/L)*
Background																
MW-5	Baseline	4/23/2012	4.41	324	9.32	3.10	BRL (0.05)[3]	0.104	BRL (0.005)	BRL (0.01)	BRL (0.01)	0.142	BRL (0.01)	0.211	BRL (0.02)	BRL (0.01)
	1st Quarterly	7/24/2012	4.70	276	3.49	3.20	BRL (0.05)	0.132	BRL (0.005)	BRL (0.01)	BRL (0.01)	0.101	BRL (0.01)	0.187	BRL (0.02)	BRL (0.01)
MW-3	Baseline	4/23/2012	4.69	411	1.20	5.20	BRL (0.05)	0.185	BRL (0.005)	BRL (0.01)	BRL (0.01)	0.998	BRL (0.01)	4.07	BRL (0.02)	BRL (0.01)
	1st Quarterly	7/24/2012	4.96	244	2.45	6.00	BR: (0.05)	0.34	BRL (0.005)	0.0151	BRL (0.01)	13.80	0.0273	4.25	BRL (0.02)	BRL (0.01)
Source Area																
MW-1	Baseline	4/23/2012	4.59	318	6.75	1.90	BRL (0.05)	0.106	BRL (0.005)	BRL (0.01)	BRL (0.01)	2.88	BRL (0.01)	1.79	BRL (0.02)	BRL (0.01)
	1st Quarterly	7/24/2012	12.57	264	13.26	BRL (500)	BRL (0.05)	BRL (0.02)	BRL (0.005)	**0.18**	BRL (0.01)	1.06	BRL (0.01)	0.56	BRL (0.02)	0.0619
MW-2	Baseline	4/23/2012	5.71	236	2.99	2.80	BRL (0.05)	0.151	BRL (0.005)	BRL (0.01)	BRL (0.01)	BRL (0.1)	BRL (0.01)	0.273	BRL (0.02)	BRL (0.01)
	1st Quarterly	7/24/2012	12.28	-58	29.74	BRL (50)	BRL (0.05)	BRL (0.02)	BRL (0.005)	0.0257	BRL (0.01)	0.476	BRL (0.01)	BRL (0.015)	BRL (0.02)	0.034700
MW-7	Baseline	4/23/2012	4.80	249	2.81	2.00	BRL (0.05)	0.113	BRL (0.005)	BRL (0.01)	BRL (0.01)	0.440	BRL (0.01)	0.678	BRL (0.02)	BRL (0.01)
	1st Quarterly	7/24/2012	12.40	244	17.56	BRL (100)	BRL (0.05)	BRL (0.02)	BRL (0.005)	0.0172	BRL (0.01)	0.663	**0.0185**	0.25	BRL (0.02)	0.0225
Downgradient of Source																
MW-4	Baseline	4/23/2012	4.85	277	2.63	8.40	BRL (0.05)	0.279	BRL (0.005)	BRL (0.01)	BRL (0.01)	0.545	BRL (0.01)	0.260	BRL (0.02)	BRL (0.01)
	1st Quarterly	7/24/2012	4.72	215	5.88	7.80	BRL (0.05)	0.234	BRL (0.005)	BRL (0.01)	BRL (0.01)	BRL (0.1)	BRL (0.01)	0.217	BRL (0.02)	BRL (0.01)
MW-6	Baseline	4/23/2012	5.19	245	2.71	2.10	BRL (0.05)	0.225	BRL (0.005)	BRL (0.01)	BRL (0.01)	0.853	BRL (0.01)	0.0677	BRL (0.02)	BRL (0.01)
	1st Quarterly	7/24/2012	5.02	218	3.48	2.50	BRL (0.05)	0.241	BRL (0.005)	BRL (0.01)	BRL (0.01)	BRL (0.1)	BRL (0.01)	0.0453	BRL (0.02)	BRL (0.01)
MCLs for Metals							0.01	2	0.005	0.10	1.30	--	0.015	--	0.05	--

Notes:
(1) mV- millivolts
(2) mg/L - milligrams per liter
(3) BRL - Below reporting limit listed in parantheses
(1) mg/L - milligrams per liter

APPENDIX A

STRATIGRAPHIC AND INSTRUMENTATION LOGS

EMA, LLC
5262 Belle Wood Court, Ste A
Buford, GA

Stratigraphic & Instrumentation Log MW-5

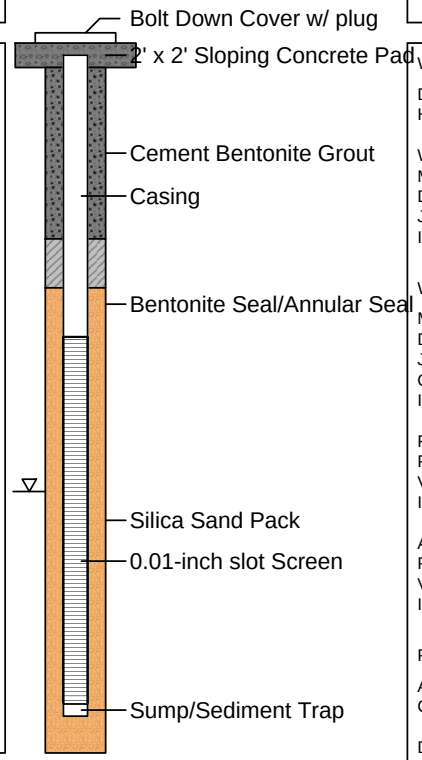
2040 Beaver Ruin Rd
Norcross, GA

Project # 559

Date Completed	: 3/15/12 @1000	Driller/Equipment	: GeoLab/GeoProbe 6600 DT
Northing Coordinate	:	Surface Elev.	: 100.67 ft. AMSL
Easting Coordinate	:	Top of Casing elev.	: 100.34 ft. AMSL
Survey By	: EMA, LLC	Logged By	: B. Cortelloni

Water Levels
▼ During Drilling
▽ After Completion

Depth in Feet	Surf. Elev.	USCS	DESCRIPTION	Sample ID	Blow Count	PID Reading (ppm)	Lab No.
0	96.97	FB	Asphalt				
2	94.97	ML	ML- SILT, some clay, trace fine sand, medium density,fine to medium grain, orange, yellow, dry				
4	92.97						
6	90.97						
8	88.97	ML	increasing clay				
10	86.97						
12	84.97						
14	82.97						
16	80.97	ML	moist				
18	78.97	ML/SC	ML/SC - SILT, CLAYEY SAND, moist to wet				
20	76.97						
22	74.97	ML	fine to medium sand				
24	72.97						
26	70.97	ML/SP	ML/SP - SILT grades to SAND, Poorly Graded, trace clay, medium dense, some coarse sand, saprolitic, wet				
28	68.97						
30	66.97		End of boring				
32	64.97						
34							



Well Construction Information

WELL CONSTRUCTION

Drilling Method	: 4-1/4 inch ID HSA
Hole Diameter	: Nominal 8-inch
WELL CASING	:
Material	: SCH 40 ASTM D1784/5 F480 NSF Rated
Diameter	: 2-inch
Joints	: Flush Treaded
Interval (ft. bgs)	: 0.3-12
WELL SCREEN	
Material	: SCH 40 ASTM D1784/5 F480 NSF Rated
Diameter	: 2-inch
Joints	: Flush Treaded
Opening	: 0.01-inch
Interval (ft. bgs)	: 12-27
FILTER PACK	: 20/40 NSF Silica Sand
Placement Method	: Gravity feed
Volume	: 1.0 cubic ft.
Interval (ft. bgs)	: 10-29
ANNULUS SEAL	: Bentonite Pellets/Bentonite grout
Placement Method	: Gravity Fed/Hydrate
Volume	: 0.25 / 0.5 cubic ft.
Interval (ft. bgs)	: 8-10, 0.5-8
PROTECTIVE CASING	
Above/Flush	: Flush mount bolt down/sloping pad
Cap	: Locking Expansion Plug
DEVELOPMENT	: Bailer -sediment free

NOTES:
All equipment steam cleaned prior to use or new.
This monitoring well installation complies with EPD Manual for Groundwater Monitoring Manual, September 1991

EMA, LLC
5262 Belle Wood Court, Ste A
Buford, GA

Stratigraphic & Instrumentation Log MW-6

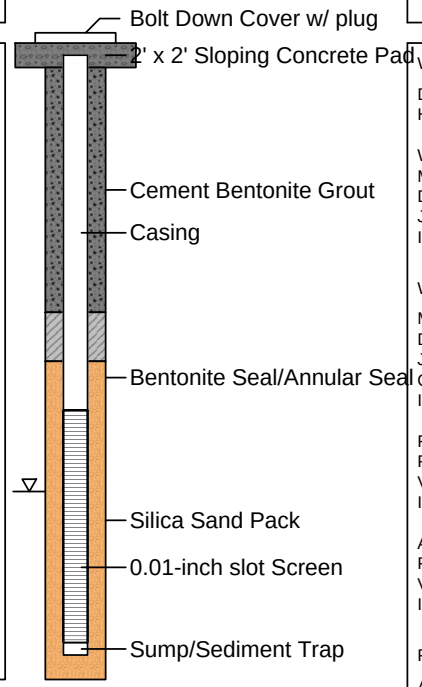
2040 Beaver Ruin Rd
Norcross, GA

Project # 559

Date Completed	: 3/15/12 @1000	Driller/Equipment	: GeoLab/GeoProbe 6600 DT
Northing Coordinate	:	Surface Elev.	: 97.21 ft AMSL
Easting Coordinate	:	Top of Casing elev.	: 96.81 ft. AMSL
Survey By	: EMA, LLC	Logged By	: B. Cortelloni

Water Levels
▼ During Drilling
▽ After Completion

Depth in Feet	Surf. Elev.	USCS	DESCRIPTION	Sample ID	Blow Count	PID Reading (ppm)	Lab No.
0	96.97	FB	Asphalt				
2	94.97	ML	ML- SILT, some clay, trace fine sand, medium density,fine to medium grain, orange, yellow, dry				
4	92.97						
6	90.97						
8	88.97	ML	increasing clay				
10	86.97						
12	84.97						
14	82.97						
16	80.97	ML	moist				
18	78.97	ML/SC	ML/SC - SILT, CLAYEY SAND, moist to wet				
20	76.97						
22	74.97	ML	fine to medium sand				
24	72.97						
26	70.97	ML/SP	ML/SP - SILT grades to SAND, Poorly Graded, trace clay, medium dense, some coarse sand, saprolitic, wet				
28	68.97						
30	66.97		End of boring				
32	64.97						
34							



Well Construction Information

WELL CONSTRUCTION

Drilling Method	: 4-1/4 inch ID HSA
Hole Diameter	: Nominal 8-inch

WELL CASING :

Material	: SCH 40 ASTM D1784/5 F480 NSF Rated
Diameter	: 2-inch
Joints	: Flush Treaded
Interval (ft. bgs)	: 0.3-15

WELL SCREEN

Material	: SCH 40 ASTM D1784/5 F480 NSF Rated
Diameter	: 2-inch
Joints	: Flush Treaded
Opening	: 0.01-inch
Interval (ft. bgs)	: 15-25

FILTER PACK	: 20/40 NSF Silica Sand
Placement Method	: Gravity feed
Volume	: 1.0 cubic ft.
Interval (ft. bgs)	: 13-26

ANNULUS SEAL	: Bentonite Pellets/Bentonite grout
Placement Method	: Gravity Fed/Hydrate
Volume	: 0.25 / 0.5 cubic ft.
Interval (ft. bgs)	: 11-13, 0.5-11

PROTECTIVE CASING

Above/Flush	: Flush mount bolt down/sloping pad
Cap	: Locking Expansion Plug

DEVELOPMENT : Bailer -sediment free

NOTES:
All equipment steam cleaned prior to use or new.
This monitoring well installation complies with EPD Manual for Groundwater Monitoring Manual, September 1991

EMA, LLC
5262 Belle Wood Court, Ste A
Buford, GA

Stratigraphic & Instrumentation Log MW-7

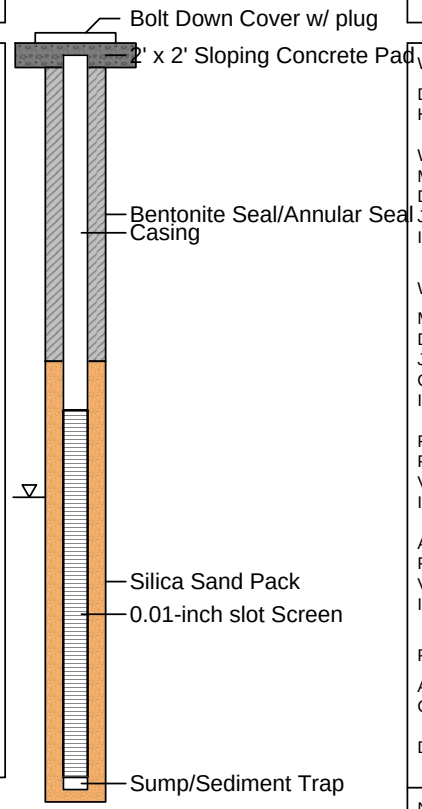
2040 Beaver Ruin Rd
Norcross, GA

Project # 559

Date Completed	: 3/16/12 @1100	Driller/Equipment	: GeoLab/GeoProbe 6600 DT
Northing Coordinate	:	Surface Elev.	: 100.89 ft. AMSL
Easting Coordinate	:	Top of Casing elev.	: 100.69 ft. AMSL
Survey By	: EMA, LLC	Logged By	: B. Cortelloni

Water Levels
▼ During Drilling
▽ After Completion

Depth in Feet	Surf. Elev.	USCS	DESCRIPTION	Sample ID	Blow Count	PID Reading (ppm)	Lab No.
0	96.97	FB	Asphalt				
2	94.97	ML	ML- SILT, some clay, trace fine sand, medium density,fine to medium grain, orange, yellow, dry				
4	92.97						
6	90.97						
8	88.97	ML	some clay				
10	86.97						
12	84.97						
14	82.97						
16	80.97	ML	moist				
18	78.97	ML/SC	ML/SC - SILT, CLAYEY SAND, moist to wet				
20	76.97	ML	fine to medium sand				
22	74.97						
24	72.97						
26	70.97						
28	68.97	ML/SP	ML/SP - SILT grades to SAND, Poorly Graded, trace clay, medium dense, some coarse sand, saprolitic, wet				
30	66.97						
32	64.97		End of boring				
34							



Well Construction Information

WELL CONSTRUCTION

Drilling Method	: 2-1/4 inch ID HSA
Hole Diameter	: Nominal 8-inch

WELL CASING :

Material	: SCH 40 ASTM D1784/5 F480 NSF Rated
Diameter	: 1-inch
Joints	: Flush Treaded
Interval (ft. bgs)	: 0.3-15

WELL SCREEN

Material	: SCH 40 ASTM D1784/5 F480 NSF Rated
Diameter	: 1-inch
Joints	: Flush Treaded
Opening	: 0.01-inch
Interval (ft. bgs)	: 15-30

FILTER PACK	: 20/40 NSF Silica Sand
Placement Method	: Gravity feed
Volume	: 0.75 cubic ft.
Interval (ft. bgs)	: 13-30

ANNULUS SEAL	: Bentonite Pellets
Placement Method	: Gravity Fed/Hydrate
Volume	: 0.5 cubic feet
Interval (ft. bgs)	: 0.3-13

PROTECTIVE CASING

Above/Flush	: Flush mount bolt down/sloping pad
Cap	: Locking Expansion Plug

DEVELOPMENT : Bailer -sediment free

NOTES:
All equipment steam cleaned prior to use or new.
This monitoring well installation complies with EPD Manual for Groundwater Monitoring Manual, September 1991

APPENDIX B
ANALYTICAL LABORATORY REPORTS

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

AES

March 26, 2012

Brent Cortelloni
Environmental Management Associates, LLC
5262 Belle Wood Court
Buford Georgi30518

TEL: (770) 271-4628
FAX: (770) 271-8944

RE: Professional Cleaners

Dear Brent Cortelloni: Order No: 1203F71

Analytical Environmental Services, Inc. received 5 samples on 3/19/2012 12:40:00 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 07/01/11-06/30/12.
-AIHA Certification ID #100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/13.

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.

Mirzeta Kararic

Mirzeta Kararic
Project Manager

ANALYTICAL ENVIRONMENTAL SERVICES, INC
3785 Presidential Parkway, Atlanta GA 30340-3704
AES TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1203F71

Date: _____ Page _____ of _____

COMPANY: EMA/BC

ADDRESS:

PHONE:

FAX:

SAMPLED BY: B. Cornell

SIGNATURE:

ANALYSIS REQUESTED

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

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	TCL VOC	Chloride	Alk.	Carbon dioxide	TOC	Sulfide	Nitrate	Diss. methane	Sulfate				REMARKS	No # of Containers
							PRESERVATION (See codes)													
1	MW-2	3-19-12	11:00	Y		GW	Y													
2	MW-5	↓	10:02	↓		↓	Y												3 day T/A	
3	MW-6	↓	9:30	↓		↓	Y													
4	MW-7	↓	8:30	↓		↓	Y		X	X	X	X	X	X	X	X			for	
5	Trip Blank						X												TCL VOCs	
6																				
7																				
8																				
9																			SID for	
10																				
11																			others	
12																				
13																				
14																				

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
1:	3-19-12	1:	3/19/12
2:		2:	12:40
3:		3:	

SPECIAL INSTRUCTIONS/COMMENTS:

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

PROJECT INFORMATION
PROJECT NAME: Professional Cleaners
PROJECT #: 559
SITE ADDRESS:
SEND REPORT TO:
INVOICE TO:
(IF DIFFERENT FROM ABOVE)
QUOTE #: PO#:

RECEIPT
Total # of Containers

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

Client: Environmental Management Associates, LLC
Project: Professional Cleaners
Lab ID: 1203F71

Case Narrative

Samples 1203F71-003A and 004A are due on 3/20/12, per Brent Cortelloni via email on 3/20/12.

Analytical Environmental Services, Inc

Date: 27-Mar-12

Client:	Environmental Management Associates, LLC	**Client Sample ID:**	MW-2
Project Name:	Professional Cleaners	**Collection Date:**	3/19/2012 11:00:00 AM
Lab ID:	1203F71-001	**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	159210	1	03/20/2012 17:38	SB
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	159210	1	03/20/2012 17:38	SB
1,1,2-Trichloroethane	BRL	5.0		ug/L	159210	1	03/20/2012 17:38	SB
1,1-Dichloroethane	BRL	5.0		ug/L	159210	1	03/20/2012 17:38	SB
1,1-Dichloroethene	BRL	5.0		ug/L	159210	1	03/20/2012 17:38	SB
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	159210	1	03/20/2012 17:38	SB
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	159210	1	03/20/2012 17:38	SB
1,2-Dibromoethane	BRL	5.0		ug/L	159210	1	03/20/2012 17:38	SB
1,2-Dichlorobenzene	BRL	5.0		ug/L	159210	1	03/20/2012 17:38	SB
1,2-Dichloroethane	BRL	5.0		ug/L	159210	1	03/20/2012 17:38	SB
1,2-Dichloropropane	BRL	5.0		ug/L	159210	1	03/20/2012 17:38	SB
1,3-Dichlorobenzene	BRL	5.0		ug/L	159210	1	03/20/2012 17:38	SB
1,4-Dichlorobenzene	BRL	5.0		ug/L	159210	1	03/20/2012 17:38	SB
2-Butanone	BRL	50		ug/L	159210	1	03/20/2012 17:38	SB
2-Hexanone	BRL	10		ug/L	159210	1	03/20/2012 17:38	SB
4-Methyl-2-pentanone	BRL	10		ug/L	159210	1	03/20/2012 17:38	SB
Acetone	BRL	50		ug/L	159210	1	03/20/2012 17:38	SB
Benzene	BRL	5.0		ug/L	159210	1	03/20/2012 17:38	SB
Bromodichloromethane	BRL	5.0		ug/L	159210	1	03/20/2012 17:38	SB
Bromoform	BRL	5.0		ug/L	159210	1	03/20/2012 17:38	SB
Bromomethane	BRL	5.0		ug/L	159210	1	03/20/2012 17:38	SB
Carbon disulfide	BRL	5.0		ug/L	159210	1	03/20/2012 17:38	SB
Carbon tetrachloride	BRL	5.0		ug/L	159210	1	03/20/2012 17:38	SB
Chlorobenzene	BRL	5.0		ug/L	159210	1	03/20/2012 17:38	SB
Chloroethane	BRL	10		ug/L	159210	1	03/20/2012 17:38	SB
Chloroform	BRL	10		ug/L	159210	1	03/20/2012 17:38	SB
Chloromethane	BRL	10		ug/L	159210	1	03/20/2012 17:38	SB
cis-1,2-Dichloroethene	BRL	5.0		ug/L	159210	1	03/20/2012 17:38	SB
cis-1,3-Dichloropropene	BRL	5.0		ug/L	159210	1	03/20/2012 17:38	SB
Cyclohexane	BRL	5.0		ug/L	159210	1	03/20/2012 17:38	SB
Dibromochloromethane	BRL	5.0		ug/L	159210	1	03/20/2012 17:38	SB
Dichlorodifluoromethane	BRL	10		ug/L	159210	1	03/20/2012 17:38	SB
Ethylbenzene	BRL	5.0		ug/L	159210	1	03/20/2012 17:38	SB
Freon-113	BRL	10		ug/L	159210	1	03/20/2012 17:38	SB
Isopropylbenzene	BRL	5.0		ug/L	159210	1	03/20/2012 17:38	SB
m,p-Xylene	BRL	5.0		ug/L	159210	1	03/20/2012 17:38	SB
Methyl acetate	BRL	5.0		ug/L	159210	1	03/20/2012 17:38	SB
Methyl tert-butyl ether	BRL	5.0		ug/L	159210	1	03/20/2012 17:38	SB
Methylcyclohexane	BRL	5.0		ug/L	159210	1	03/20/2012 17:38	SB
Methylene chloride	BRL	5.0		ug/L	159210	1	03/20/2012 17:38	SB
o-Xylene	BRL	5.0		ug/L	159210	1	03/20/2012 17:38	SB

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: 27-Mar-12

Client:	Environmental Management Associates, LLC	**Client Sample ID:**	MW-2
Project Name:	Professional Cleaners	**Collection Date:**	3/19/2012 11:00:00 AM
Lab ID:	1203F71-001	**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	159210	1	03/20/2012 17:38	SB
Tetrachloroethene	47	5.0		ug/L	159210	1	03/20/2012 17:38	SB
Toluene	BRL	5.0		ug/L	159210	1	03/20/2012 17:38	SB
trans-1,2-Dichloroethene	BRL	5.0		ug/L	159210	1	03/20/2012 17:38	SB
trans-1,3-Dichloropropene	BRL	5.0		ug/L	159210	1	03/20/2012 17:38	SB
Trichloroethene	BRL	5.0		ug/L	159210	1	03/20/2012 17:38	SB
Trichlorofluoromethane	BRL	5.0		ug/L	159210	1	03/20/2012 17:38	SB
Vinyl chloride	BRL	2.0		ug/L	159210	1	03/20/2012 17:38	SB
Surr: 4-Bromofluorobenzene	96.9	67.4-123		%REC	159210	1	03/20/2012 17:38	SB
Surr: Dibromofluoromethane	106	75.5-128		%REC	159210	1	03/20/2012 17:38	SB
Surr: Toluene-d8	90.6	70-120		%REC	159210	1	03/20/2012 17:38	SB

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:** 27-Mar-12

Client:	Environmental Management Associates, LLC	**Client Sample ID:**	MW-5
Project Name:	Professional Cleaners	**Collection Date:**	3/19/2012 10:02:00 AM
Lab ID:	1203F71-002	**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	159210	1	03/20/2012 18:06	SB
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	159210	1	03/20/2012 18:06	SB
1,1,2-Trichloroethane	BRL	5.0		ug/L	159210	1	03/20/2012 18:06	SB
1,1-Dichloroethane	BRL	5.0		ug/L	159210	1	03/20/2012 18:06	SB
1,1-Dichloroethene	BRL	5.0		ug/L	159210	1	03/20/2012 18:06	SB
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	159210	1	03/20/2012 18:06	SB
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	159210	1	03/20/2012 18:06	SB
1,2-Dibromoethane	BRL	5.0		ug/L	159210	1	03/20/2012 18:06	SB
1,2-Dichlorobenzene	BRL	5.0		ug/L	159210	1	03/20/2012 18:06	SB
1,2-Dichloroethane	BRL	5.0		ug/L	159210	1	03/20/2012 18:06	SB
1,2-Dichloropropane	BRL	5.0		ug/L	159210	1	03/20/2012 18:06	SB
1,3-Dichlorobenzene	BRL	5.0		ug/L	159210	1	03/20/2012 18:06	SB
1,4-Dichlorobenzene	BRL	5.0		ug/L	159210	1	03/20/2012 18:06	SB
2-Butanone	BRL	50		ug/L	159210	1	03/20/2012 18:06	SB
2-Hexanone	BRL	10		ug/L	159210	1	03/20/2012 18:06	SB
4-Methyl-2-pentanone	BRL	10		ug/L	159210	1	03/20/2012 18:06	SB
Acetone	BRL	50		ug/L	159210	1	03/20/2012 18:06	SB
Benzene	BRL	5.0		ug/L	159210	1	03/20/2012 18:06	SB
Bromodichloromethane	BRL	5.0		ug/L	159210	1	03/20/2012 18:06	SB
Bromoform	BRL	5.0		ug/L	159210	1	03/20/2012 18:06	SB
Bromomethane	BRL	5.0		ug/L	159210	1	03/20/2012 18:06	SB
Carbon disulfide	BRL	5.0		ug/L	159210	1	03/20/2012 18:06	SB
Carbon tetrachloride	BRL	5.0		ug/L	159210	1	03/20/2012 18:06	SB
Chlorobenzene	BRL	5.0		ug/L	159210	1	03/20/2012 18:06	SB
Chloroethane	BRL	10		ug/L	159210	1	03/20/2012 18:06	SB
Chloroform	BRL	10		ug/L	159210	1	03/20/2012 18:06	SB
Chloromethane	BRL	10		ug/L	159210	1	03/20/2012 18:06	SB
cis-1,2-Dichloroethene	BRL	5.0		ug/L	159210	1	03/20/2012 18:06	SB
cis-1,3-Dichloropropene	BRL	5.0		ug/L	159210	1	03/20/2012 18:06	SB
Cyclohexane	BRL	5.0		ug/L	159210	1	03/20/2012 18:06	SB
Dibromochloromethane	BRL	5.0		ug/L	159210	1	03/20/2012 18:06	SB
Dichlorodifluoromethane	BRL	10		ug/L	159210	1	03/20/2012 18:06	SB
Ethylbenzene	BRL	5.0		ug/L	159210	1	03/20/2012 18:06	SB
Freon-113	BRL	10		ug/L	159210	1	03/20/2012 18:06	SB
Isopropylbenzene	BRL	5.0		ug/L	159210	1	03/20/2012 18:06	SB
m,p-Xylene	BRL	5.0		ug/L	159210	1	03/20/2012 18:06	SB
Methyl acetate	BRL	5.0		ug/L	159210	1	03/20/2012 18:06	SB
Methyl tert-butyl ether	BRL	5.0		ug/L	159210	1	03/20/2012 18:06	SB
Methylcyclohexane	BRL	5.0		ug/L	159210	1	03/20/2012 18:06	SB
Methylene chloride	BRL	5.0		ug/L	159210	1	03/20/2012 18:06	SB
o-Xylene	BRL	5.0		ug/L	159210	1	03/20/2012 18:06	SB

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: 27-Mar-12

Client:	Environmental Management Associates, LLC	**Client Sample ID:**	MW-5
Project Name:	Professional Cleaners	**Collection Date:**	3/19/2012 10:02:00 AM
Lab ID:	1203F71-002	**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	159210	1	03/20/2012 18:06	SB
Tetrachloroethene	BRL	5.0		ug/L	159210	1	03/20/2012 18:06	SB
Toluene	BRL	5.0		ug/L	159210	1	03/20/2012 18:06	SB
trans-1,2-Dichloroethene	BRL	5.0		ug/L	159210	1	03/20/2012 18:06	SB
trans-1,3-Dichloropropene	BRL	5.0		ug/L	159210	1	03/20/2012 18:06	SB
Trichloroethene	BRL	5.0		ug/L	159210	1	03/20/2012 18:06	SB
Trichlorofluoromethane	BRL	5.0		ug/L	159210	1	03/20/2012 18:06	SB
Vinyl chloride	BRL	2.0		ug/L	159210	1	03/20/2012 18:06	SB
Surr: 4-Bromofluorobenzene	93.5	67.4-123		%REC	159210	1	03/20/2012 18:06	SB
Surr: Dibromofluoromethane	112	75.5-128		%REC	159210	1	03/20/2012 18:06	SB
Surr: Toluene-d8	95.8	70-120		%REC	159210	1	03/20/2012 18:06	SB

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:** 27-Mar-12

Client:	Environmental Management Associates, LLC	**Client Sample ID:**	MW-6
Project Name:	Professional Cleaners	**Collection Date:**	3/19/2012 9:30:00 AM
Lab ID:	1203F71-003	**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	159210	1	03/20/2012 16:41	SB
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	159210	1	03/20/2012 16:41	SB
1,1,2-Trichloroethane	BRL	5.0		ug/L	159210	1	03/20/2012 16:41	SB
1,1-Dichloroethane	BRL	5.0		ug/L	159210	1	03/20/2012 16:41	SB
1,1-Dichloroethene	BRL	5.0		ug/L	159210	1	03/20/2012 16:41	SB
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	159210	1	03/20/2012 16:41	SB
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	159210	1	03/20/2012 16:41	SB
1,2-Dibromoethane	BRL	5.0		ug/L	159210	1	03/20/2012 16:41	SB
1,2-Dichlorobenzene	BRL	5.0		ug/L	159210	1	03/20/2012 16:41	SB
1,2-Dichloroethane	BRL	5.0		ug/L	159210	1	03/20/2012 16:41	SB
1,2-Dichloropropane	BRL	5.0		ug/L	159210	1	03/20/2012 16:41	SB
1,3-Dichlorobenzene	BRL	5.0		ug/L	159210	1	03/20/2012 16:41	SB
1,4-Dichlorobenzene	BRL	5.0		ug/L	159210	1	03/20/2012 16:41	SB
2-Butanone	BRL	50		ug/L	159210	1	03/20/2012 16:41	SB
2-Hexanone	BRL	10		ug/L	159210	1	03/20/2012 16:41	SB
4-Methyl-2-pentanone	BRL	10		ug/L	159210	1	03/20/2012 16:41	SB
Acetone	BRL	50		ug/L	159210	1	03/20/2012 16:41	SB
Benzene	BRL	5.0		ug/L	159210	1	03/20/2012 16:41	SB
Bromodichloromethane	BRL	5.0		ug/L	159210	1	03/20/2012 16:41	SB
Bromoform	BRL	5.0		ug/L	159210	1	03/20/2012 16:41	SB
Bromomethane	BRL	5.0		ug/L	159210	1	03/20/2012 16:41	SB
Carbon disulfide	BRL	5.0		ug/L	159210	1	03/20/2012 16:41	SB
Carbon tetrachloride	BRL	5.0		ug/L	159210	1	03/20/2012 16:41	SB
Chlorobenzene	BRL	5.0		ug/L	159210	1	03/20/2012 16:41	SB
Chloroethane	BRL	10		ug/L	159210	1	03/20/2012 16:41	SB
Chloroform	BRL	10		ug/L	159210	1	03/20/2012 16:41	SB
Chloromethane	BRL	10		ug/L	159210	1	03/20/2012 16:41	SB
cis-1,2-Dichloroethene	BRL	5.0		ug/L	159210	1	03/20/2012 16:41	SB
cis-1,3-Dichloropropene	BRL	5.0		ug/L	159210	1	03/20/2012 16:41	SB
Cyclohexane	BRL	5.0		ug/L	159210	1	03/20/2012 16:41	SB
Dibromochloromethane	BRL	5.0		ug/L	159210	1	03/20/2012 16:41	SB
Dichlorodifluoromethane	BRL	10		ug/L	159210	1	03/20/2012 16:41	SB
Ethylbenzene	BRL	5.0		ug/L	159210	1	03/20/2012 16:41	SB
Freon-113	BRL	10		ug/L	159210	1	03/20/2012 16:41	SB
Isopropylbenzene	BRL	5.0		ug/L	159210	1	03/20/2012 16:41	SB
m,p-Xylene	BRL	5.0		ug/L	159210	1	03/20/2012 16:41	SB
Methyl acetate	BRL	5.0		ug/L	159210	1	03/20/2012 16:41	SB
Methyl tert-butyl ether	BRL	5.0		ug/L	159210	1	03/20/2012 16:41	SB
Methylcyclohexane	BRL	5.0		ug/L	159210	1	03/20/2012 16:41	SB
Methylene chloride	BRL	5.0		ug/L	159210	1	03/20/2012 16:41	SB
o-Xylene	BRL	5.0		ug/L	159210	1	03/20/2012 16:41	SB

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:** 27-Mar-12

Client:	Environmental Management Associates, LLC	**Client Sample ID:**	MW-6
Project Name:	Professional Cleaners	**Collection Date:**	3/19/2012 9:30:00 AM
Lab ID:	1203F71-003	**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	159210	1	03/20/2012 16:41	SB
Tetrachloroethene	BRL	5.0		ug/L	159210	1	03/20/2012 16:41	SB
Toluene	BRL	5.0		ug/L	159210	1	03/20/2012 16:41	SB
trans-1,2-Dichloroethene	BRL	5.0		ug/L	159210	1	03/20/2012 16:41	SB
trans-1,3-Dichloropropene	BRL	5.0		ug/L	159210	1	03/20/2012 16:41	SB
Trichloroethene	BRL	5.0		ug/L	159210	1	03/20/2012 16:41	SB
Trichlorofluoromethane	BRL	5.0		ug/L	159210	1	03/20/2012 16:41	SB
Vinyl chloride	BRL	2.0		ug/L	159210	1	03/20/2012 16:41	SB
Surr: 4-Bromofluorobenzene	95	67.4-123		%REC	159210	1	03/20/2012 16:41	SB
Surr: Dibromofluoromethane	108	75.5-128		%REC	159210	1	03/20/2012 16:41	SB
Surr: Toluene-d8	94	70-120		%REC	159210	1	03/20/2012 16:41	SB

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: 27-Mar-12

Client:	Environmental Management Associates, LLC	**Client Sample ID:**	MW-7
Project Name:	Professional Cleaners	**Collection Date:**	3/19/2012 8:30:00 AM
Lab ID:	1203F71-004	**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	R217604	1	03/21/2012 14:07	GR
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	159210	1	03/20/2012 16:13	SB
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	159210	1	03/20/2012 16:13	SB
1,1,2-Trichloroethane	BRL	5.0		ug/L	159210	1	03/20/2012 16:13	SB
1,1-Dichloroethane	BRL	5.0		ug/L	159210	1	03/20/2012 16:13	SB
1,1-Dichloroethene	BRL	5.0		ug/L	159210	1	03/20/2012 16:13	SB
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	159210	1	03/20/2012 16:13	SB
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	159210	1	03/20/2012 16:13	SB
1,2-Dibromoethane	BRL	5.0		ug/L	159210	1	03/20/2012 16:13	SB
1,2-Dichlorobenzene	BRL	5.0		ug/L	159210	1	03/20/2012 16:13	SB
1,2-Dichloroethane	BRL	5.0		ug/L	159210	1	03/20/2012 16:13	SB
1,2-Dichloropropane	BRL	5.0		ug/L	159210	1	03/20/2012 16:13	SB
1,3-Dichlorobenzene	BRL	5.0		ug/L	159210	1	03/20/2012 16:13	SB
1,4-Dichlorobenzene	BRL	5.0		ug/L	159210	1	03/20/2012 16:13	SB
2-Butanone	BRL	50		ug/L	159210	1	03/20/2012 16:13	SB
2-Hexanone	BRL	10		ug/L	159210	1	03/20/2012 16:13	SB
4-Methyl-2-pentanone	BRL	10		ug/L	159210	1	03/20/2012 16:13	SB
Acetone	BRL	50		ug/L	159210	1	03/20/2012 16:13	SB
Benzene	BRL	5.0		ug/L	159210	1	03/20/2012 16:13	SB
Bromodichloromethane	BRL	5.0		ug/L	159210	1	03/20/2012 16:13	SB
Bromoform	BRL	5.0		ug/L	159210	1	03/20/2012 16:13	SB
Bromomethane	BRL	5.0		ug/L	159210	1	03/20/2012 16:13	SB
Carbon disulfide	BRL	5.0		ug/L	159210	1	03/20/2012 16:13	SB
Carbon tetrachloride	BRL	5.0		ug/L	159210	1	03/20/2012 16:13	SB
Chlorobenzene	BRL	5.0		ug/L	159210	1	03/20/2012 16:13	SB
Chloroethane	BRL	10		ug/L	159210	1	03/20/2012 16:13	SB
Chloroform	BRL	10		ug/L	159210	1	03/20/2012 16:13	SB
Chloromethane	BRL	10		ug/L	159210	1	03/20/2012 16:13	SB
cis-1,2-Dichloroethene	BRL	5.0		ug/L	159210	1	03/20/2012 16:13	SB
cis-1,3-Dichloropropene	BRL	5.0		ug/L	159210	1	03/20/2012 16:13	SB
Cyclohexane	BRL	5.0		ug/L	159210	1	03/20/2012 16:13	SB
Dibromochloromethane	BRL	5.0		ug/L	159210	1	03/20/2012 16:13	SB
Dichlorodifluoromethane	BRL	10		ug/L	159210	1	03/20/2012 16:13	SB
Ethylbenzene	BRL	5.0		ug/L	159210	1	03/20/2012 16:13	SB
Freon-113	BRL	10		ug/L	159210	1	03/20/2012 16:13	SB
Isopropylbenzene	BRL	5.0		ug/L	159210	1	03/20/2012 16:13	SB
m,p-Xylene	BRL	5.0		ug/L	159210	1	03/20/2012 16:13	SB
Methyl acetate	BRL	5.0		ug/L	159210	1	03/20/2012 16:13	SB
Methyl tert-butyl ether	BRL	5.0		ug/L	159210	1	03/20/2012 16:13	SB

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:** 27-Mar-12

Client:	Environmental Management Associates, LLC	**Client Sample ID:**	MW-7
Project Name:	Professional Cleaners	**Collection Date:**	3/19/2012 8:30:00 AM
Lab ID:	1203F71-004	**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	159210	1	03/20/2012 16:13	SB
Methylene chloride	BRL	5.0		ug/L	159210	1	03/20/2012 16:13	SB
o-Xylene	BRL	5.0		ug/L	159210	1	03/20/2012 16:13	SB
Styrene	BRL	5.0		ug/L	159210	1	03/20/2012 16:13	SB
Tetrachloroethene	82	5.0		ug/L	159210	1	03/20/2012 16:13	SB
Toluene	BRL	5.0		ug/L	159210	1	03/20/2012 16:13	SB
trans-1,2-Dichloroethene	BRL	5.0		ug/L	159210	1	03/20/2012 16:13	SB
trans-1,3-Dichloropropene	BRL	5.0		ug/L	159210	1	03/20/2012 16:13	SB
Trichloroethene	BRL	5.0		ug/L	159210	1	03/20/2012 16:13	SB
Trichlorofluoromethane	BRL	5.0		ug/L	159210	1	03/20/2012 16:13	SB
Vinyl chloride	BRL	2.0		ug/L	159210	1	03/20/2012 16:13	SB
Surr: 4-Bromofluorobenzene	99.9	67.4-123		%REC	159210	1	03/20/2012 16:13	SB
Surr: Dibromofluoromethane	105	75.5-128		%REC	159210	1	03/20/2012 16:13	SB
Surr: Toluene-d8	92.4	70-120		%REC	159210	1	03/20/2012 16:13	SB
Sulfide by SW9030B/9034				**(SW9030B)**				
Sulfide	BRL	2.00		mg/L	159228	1	03/20/2012 15:45	AS
ION SCAN SW9056A								
Chloride	2.8	1.0		mg/L	R217433	1	03/19/2012 15:39	GR
Nitrate	0.94	0.25		mg/L	R217433	1	03/19/2012 15:39	GR
Sulfate	BRL	1.0		mg/L	R217433	1	03/19/2012 15:39	GR
GC Analysis of Gaseous Samples SOP-RSK 175				**(RSK175)**				
Methane	BRL	4		ug/L	159139	1	03/20/2012 15:36	SN
CARBON DIOXIDE SM4500-CO2								
Total Carbon Dioxide	218	10.0		mg/L	R217665	1	03/22/2012 14:10	CG
Alkalinity (E310.1/SM2320 B)								
Alkalinity, Total (As CaCO3)	18.0	3.0		mg/L	R217665	1	03/22/2012 14:10	CG

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: 27-Mar-12

Client:	Environmental Management Associates, LLC	**Client Sample ID:**	TRIP BLANK
Project Name:	Professional Cleaners	**Collection Date:**	3/19/2012
Lab ID:	1203F71-005	**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	159210	1	03/20/2012 17:09	SB
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	159210	1	03/20/2012 17:09	SB
1,1,2-Trichloroethane	BRL	5.0		ug/L	159210	1	03/20/2012 17:09	SB
1,1-Dichloroethane	BRL	5.0		ug/L	159210	1	03/20/2012 17:09	SB
1,1-Dichloroethene	BRL	5.0		ug/L	159210	1	03/20/2012 17:09	SB
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	159210	1	03/20/2012 17:09	SB
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	159210	1	03/20/2012 17:09	SB
1,2-Dibromoethane	BRL	5.0		ug/L	159210	1	03/20/2012 17:09	SB
1,2-Dichlorobenzene	BRL	5.0		ug/L	159210	1	03/20/2012 17:09	SB
1,2-Dichloroethane	BRL	5.0		ug/L	159210	1	03/20/2012 17:09	SB
1,2-Dichloropropane	BRL	5.0		ug/L	159210	1	03/20/2012 17:09	SB
1,3-Dichlorobenzene	BRL	5.0		ug/L	159210	1	03/20/2012 17:09	SB
1,4-Dichlorobenzene	BRL	5.0		ug/L	159210	1	03/20/2012 17:09	SB
2-Butanone	BRL	50		ug/L	159210	1	03/20/2012 17:09	SB
2-Hexanone	BRL	10		ug/L	159210	1	03/20/2012 17:09	SB
4-Methyl-2-pentanone	BRL	10		ug/L	159210	1	03/20/2012 17:09	SB
Acetone	BRL	50		ug/L	159210	1	03/20/2012 17:09	SB
Benzene	BRL	5.0		ug/L	159210	1	03/20/2012 17:09	SB
Bromodichloromethane	BRL	5.0		ug/L	159210	1	03/20/2012 17:09	SB
Bromoform	BRL	5.0		ug/L	159210	1	03/20/2012 17:09	SB
Bromomethane	BRL	5.0		ug/L	159210	1	03/20/2012 17:09	SB
Carbon disulfide	BRL	5.0		ug/L	159210	1	03/20/2012 17:09	SB
Carbon tetrachloride	BRL	5.0		ug/L	159210	1	03/20/2012 17:09	SB
Chlorobenzene	BRL	5.0		ug/L	159210	1	03/20/2012 17:09	SB
Chloroethane	BRL	10		ug/L	159210	1	03/20/2012 17:09	SB
Chloroform	BRL	10		ug/L	159210	1	03/20/2012 17:09	SB
Chloromethane	BRL	10		ug/L	159210	1	03/20/2012 17:09	SB
cis-1,2-Dichloroethene	BRL	5.0		ug/L	159210	1	03/20/2012 17:09	SB
cis-1,3-Dichloropropene	BRL	5.0		ug/L	159210	1	03/20/2012 17:09	SB
Cyclohexane	BRL	5.0		ug/L	159210	1	03/20/2012 17:09	SB
Dibromochloromethane	BRL	5.0		ug/L	159210	1	03/20/2012 17:09	SB
Dichlorodifluoromethane	BRL	10		ug/L	159210	1	03/20/2012 17:09	SB
Ethylbenzene	BRL	5.0		ug/L	159210	1	03/20/2012 17:09	SB
Freon-113	BRL	10		ug/L	159210	1	03/20/2012 17:09	SB
Isopropylbenzene	BRL	5.0		ug/L	159210	1	03/20/2012 17:09	SB
m,p-Xylene	BRL	5.0		ug/L	159210	1	03/20/2012 17:09	SB
Methyl acetate	BRL	5.0		ug/L	159210	1	03/20/2012 17:09	SB
Methyl tert-butyl ether	BRL	5.0		ug/L	159210	1	03/20/2012 17:09	SB
Methylcyclohexane	BRL	5.0		ug/L	159210	1	03/20/2012 17:09	SB
Methylene chloride	BRL	5.0		ug/L	159210	1	03/20/2012 17:09	SB
o-Xylene	BRL	5.0		ug/L	159210	1	03/20/2012 17:09	SB

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: 27-Mar-12

Client:	Environmental Management Associates, LLC	**Client Sample ID:**	TRIP BLANK
Project Name:	Professional Cleaners	**Collection Date:**	3/19/2012
Lab ID:	1203F71-005	**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	159210	1	03/20/2012 17:09	SB
Tetrachloroethene	BRL	5.0		ug/L	159210	1	03/20/2012 17:09	SB
Toluene	BRL	5.0		ug/L	159210	1	03/20/2012 17:09	SB
trans-1,2-Dichloroethene	BRL	5.0		ug/L	159210	1	03/20/2012 17:09	SB
trans-1,3-Dichloropropene	BRL	5.0		ug/L	159210	1	03/20/2012 17:09	SB
Trichloroethene	BRL	5.0		ug/L	159210	1	03/20/2012 17:09	SB
Trichlorofluoromethane	BRL	5.0		ug/L	159210	1	03/20/2012 17:09	SB
Vinyl chloride	BRL	2.0		ug/L	159210	1	03/20/2012 17:09	SB
Surr: 4-Bromofluorobenzene	95.8	67.4-123		%REC	159210	1	03/20/2012 17:09	SB
Surr: Dibromofluoromethane	109	75.5-128		%REC	159210	1	03/20/2012 17:09	SB
Surr: Toluene-d8	94.6	70-120		%REC	159210	1	03/20/2012 17:09	SB

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 EMA /BC Work Order Number 1203F71

Checklist completed by PT 3/19/12
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? (4°C±2)* Yes ✓ No __

Cooler #1 3.4°C Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Chain of custody present? Yes ✓ No __

Chain of custody signed when relinquished and received? Yes ✓ No __

Chain of custody agrees with sample labels? Yes ✓ No __

Samples in proper container/bottle? Yes ✓ No __

Sample containers intact? Yes ✓ No __

Sufficient sample volume for indicated test? Yes ✓ No __

All samples received within holding time? Yes ✓ No __

Was TAT marked on the COC? Yes ✓ No __

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

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

Water - pH acceptable upon receipt? Yes __ No __ Not Applicable ✓

Adjusted? PT Checked by PT

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.

\L\Quality Assurance\Checklists Procedures Sign-Off Templates\Checklists\Sample Receipt Checklists\Sample_Cooler_Receipt_Checklist

Analytical Environmental Services, Inc

Date: 26-Mar-12

Client: Environmental Management Associates, LLC
Project: Professional Cleaners
Lab Order: 1203F71

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1203F71-001A	MW-2	3/19/2012 11:00:00AM	Groundwater	TCL VOLATILE ORGANICS		03/20/2012	03/20/2012
1203F71-002A	MW-5	3/19/2012 10:02:00AM	Groundwater	TCL VOLATILE ORGANICS		03/20/2012	03/20/2012
1203F71-003A	MW-6	3/19/2012 9:30:00AM	Groundwater	TCL VOLATILE ORGANICS		03/20/2012	03/20/2012
1203F71-004A	MW-7	3/19/2012 8:30:00AM	Groundwater	TCL VOLATILE ORGANICS		03/20/2012	03/20/2012
1203F71-004B	MW-7	3/19/2012 8:30:00AM	Groundwater	GC Analysis of Gaseous Samples		03/19/2012	03/20/2012
1203F71-004C	MW-7	3/19/2012 8:30:00AM	Groundwater	Total Organic Carbon (TOC)			03/21/2012
1203F71-004D	MW-7	3/19/2012 8:30:00AM	Groundwater	Alkalinity			03/22/2012
1203F71-004D	MW-7	3/19/2012 8:30:00AM	Groundwater	Carbon Dioxide and Forms of Alkalinity			03/22/2012
1203F71-004E	MW-7	3/19/2012 8:30:00AM	Groundwater	ION SCAN			03/19/2012
1203F71-004F	MW-7	3/19/2012 8:30:00AM	Groundwater	Sulfide by SW9030/9034		03/19/2012	03/20/2012
1203F71-005A	TRIP BLANK	3/19/2012 12:00:00AM	Aqueous	TCL VOLATILE ORGANICS		03/20/2012	03/20/2012

AES, Inc.
3785 Presidential Pkwy
Atlanta GA 30340

pH Adjustment Sheet

AES Sample ID number	Test Requested	pH as **Received**	**Required** pH	Preservative Required	Lot # of Preservative	Amount Added mL or Pellets*	Final pH	Tech's Initials	Date	Time
1203F41-004C	TOC	6	<2	H_2SO_4	IN-1044-024	0.5 mL Pellets	1	PT	3/19/12	15:02
						mL Pellets				
						mL Pellets				
						mL Pellets				
						mL Pellets				
						mL Pellets				
						mL Pellets				
						mL Pellets				
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						mL Pellets				
						mL Pellets				
						mL Pellets				

*** Number of Pellets when adding NAOH**

Client: Environmental Management Associates, LLC
Project Name: Professional Cleaners
Workorder: 1203F71

ANALYTICAL QC SUMMARY REPORT

BatchID: **159139**

Sample ID: **MB-159139** Client ID: Units: **ug/L** Prep Date: **03/19/2012** Run No: **217469**
SampleType: **MBLK** TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175** BatchID: **159139** Analysis Date: **03/19/2012** Seq No: **4546261**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Methane	BRL	4	0	0	0	0	0	0	0	0	

Sample ID: **LCS-159139** Client ID: Units: **ug/L** Prep Date: **03/19/2012** Run No: **217469**
SampleType: **LCS** TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175** BatchID: **159139** Analysis Date: **03/19/2012** Seq No: **4546265**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Methane	145.2	4	200	0	72.6	38.4	115	0	0	0	

Sample ID: **LCSD-159139** Client ID: Units: **ug/L** Prep Date: **03/19/2012** Run No: **217469**
SampleType: **LCSD** TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175** BatchID: **159139** Analysis Date: **03/19/2012** Seq No: **4546267**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Methane	142.7	4	200	0	71.3	38.4	115	145.2	1.79	20	

Sample ID: **1203D40-004BMS** Client ID: Units: **ug/L** Prep Date: **03/19/2012** Run No: **217475**
SampleType: **MS** TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175** BatchID: **159139** Analysis Date: **03/20/2012** Seq No: **4546471**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Methane	104.3	4	200	0	52.1	38.4	115	0	0	0	

Sample ID: **1203D40-004BMSD** Client ID: Units: **ug/L** Prep Date: **03/19/2012** Run No: **217475**
SampleType: **MSD** TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175** BatchID: **159139** Analysis Date: **03/20/2012** Seq No: **4546475**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Methane	104.4	4	200	0	52.2	38.4	115	104.3	0.087	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: Environmental Management Associates, LLC
Project Name: Professional Cleaners
Workorder: 1203F71

ANALYTICAL QC SUMMARY REPORT

BatchID: **159210**

Sample ID: **MB-159210** Client ID: Units: **ug/L** Prep Date: **03/20/2012** Run No: **217415**
SampleType: **MBLK** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **159210** Analysis Date: **03/20/2012** Seq No: **4546030**

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	0	0	0	0	0	0	0	0	
1,1,2,2-Tetrachloroethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,1,2-Trichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,1-Dichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,1-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
1,2,4-Trichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	
1,2-Dibromo-3-chloropropane	BRL	5.0	0	0	0	0	0	0	0	0	
1,2-Dibromoethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,2-Dichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	
1,2-Dichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,2-Dichloropropane	BRL	5.0	0	0	0	0	0	0	0	0	
1,3-Dichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	
1,4-Dichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	
2-Butanone	BRL	50	0	0	0	0	0	0	0	0	
2-Hexanone	BRL	10	0	0	0	0	0	0	0	0	
4-Methyl-2-pentanone	BRL	10	0	0	0	0	0	0	0	0	
Acetone	BRL	50	0	0	0	0	0	0	0	0	
Benzene	BRL	5.0	0	0	0	0	0	0	0	0	
Bromodichloromethane	BRL	5.0	0	0	0	0	0	0	0	0	
Bromoform	BRL	5.0	0	0	0	0	0	0	0	0	
Bromomethane	BRL	5.0	0	0	0	0	0	0	0	0	
Carbon disulfide	BRL	5.0	0	0	0	0	0	0	0	0	
Carbon tetrachloride	BRL	5.0	0	0	0	0	0	0	0	0	
Chlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	
Chloroethane	BRL	10	0	0	0	0	0	0	0	0	
Chloroform	BRL	5.0	0	0	0	0	0	0	0	0	
Chloromethane	BRL	10	0	0	0	0	0	0	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: Environmental Management Associates, LLC
Project Name: Professional Cleaners
Workorder: 1203F71

ANALYTICAL QC SUMMARY REPORT

BatchID: 159210

Sample ID: **MB-159210** Client ID: Units: **ug/L** Prep Date: **03/20/2012** Run No: **217415**
SampleType: **MBLK** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **159210** Analysis Date: **03/20/2012** Seq No: **4546030**

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	0	0	0	0	0	0	0	0	
cis-1,3-Dichloropropene	BRL	5.0	0	0	0	0	0	0	0	0	
Cyclohexane	BRL	5.0	0	0	0	0	0	0	0	0	
Dibromochloromethane	BRL	5.0	0	0	0	0	0	0	0	0	
Dichlorodifluoromethane	BRL	10	0	0	0	0	0	0	0	0	
Ethylbenzene	BRL	5.0	0	0	0	0	0	0	0	0	
Freon-113	BRL	10	0	0	0	0	0	0	0	0	
Isopropylbenzene	BRL	5.0	0	0	0	0	0	0	0	0	
m,p-Xylene	BRL	5.0	0	0	0	0	0	0	0	0	
Methyl acetate	BRL	5.0	0	0	0	0	0	0	0	0	
Methyl tert-butyl ether	BRL	5.0	0	0	0	0	0	0	0	0	
Methylcyclohexane	BRL	5.0	0	0	0	0	0	0	0	0	
Methylene chloride	BRL	5.0	0	0	0	0	0	0	0	0	
o-Xylene	BRL	5.0	0	0	0	0	0	0	0	0	
Styrene	BRL	5.0	0	0	0	0	0	0	0	0	
Tetrachloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
Toluene	BRL	5.0	0	0	0	0	0	0	0	0	
trans-1,2-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
trans-1,3-Dichloropropene	BRL	5.0	0	0	0	0	0	0	0	0	
Trichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
Trichlorofluoromethane	BRL	5.0	0	0	0	0	0	0	0	0	
Vinyl chloride	BRL	2.0	0	0	0	0	0	0	0	0	
Surr: 4-Bromofluorobenzene	47.49	0	50	0	95	67.4	123	0	0	0	
Surr: Dibromofluoromethane	50.76	0	50	0	102	75.5	128	0	0	0	
Surr: Toluene-d8	47.05	0	50	0	94.1	70	120	0	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: Environmental Management Associates, LLC
Project Name: Professional Cleaners
Workorder: 1203F71

ANALYTICAL QC SUMMARY REPORT

BatchID: 159210

Sample ID: **LCS-159210** Client ID: Units: **ug/L** Prep Date: **03/20/2012** Run No: **217415**
SampleType: **LCS** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **159210** Analysis Date: **03/20/2012** Seq No: **4546027**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	50.32	5.0	50	0	101	60	140	0	0	0	
Benzene	52.95	5.0	50	0	106	70	130	0	0	0	
Chlorobenzene	52.70	5.0	50	0	105	70	130	0	0	0	
Toluene	51.90	5.0	50	0	104	70	130	0	0	0	
Trichloroethene	53.43	5.0	50	0	107	70	130	0	0	0	
Surr: 4-Bromofluorobenzene	51.78	0	50	0	104	67.4	123	0	0	0	
Surr: Dibromofluoromethane	54.35	0	50	0	109	75.5	128	0	0	0	
Surr: Toluene-d8	49.20	0	50	0	98.4	70	120	0	0	0	

Sample ID: **1203E85-001AMS** Client ID: Units: **ug/L** Prep Date: **03/20/2012** Run No: **217415**
SampleType: **MS** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **159210** Analysis Date: **03/20/2012** Seq No: **4546035**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	58.43	5.0	50	0	117	50.1	179	0	0	0	
Benzene	58.22	5.0	50	0	116	61.2	150	0	0	0	
Chlorobenzene	57.05	5.0	50	0	114	72.1	140	0	0	0	
Toluene	56.66	5.0	50	0	113	58.7	154	0	0	0	
Trichloroethene	60.61	5.0	50	0	121	68.3	149	0	0	0	
Surr: 4-Bromofluorobenzene	53.26	0	50	0	107	67.4	123	0	0	0	
Surr: Dibromofluoromethane	53.69	0	50	0	107	75.5	128	0	0	0	
Surr: Toluene-d8	50.53	0	50	0	101	70	120	0	0	0	

Sample ID: **1203E85-001AMSD** Client ID: Units: **ug/L** Prep Date: **03/20/2012** Run No: **217415**
SampleType: **MSD** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **159210** Analysis Date: **03/20/2012** Seq No: **4546085**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	54.86	5.0	50	0	110	50.1	179	58.43	6.3	23.3	
Benzene	54.94	5.0	50	0	110	61.2	150	58.22	5.8	19	

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: Environmental Management Associates, LLC
Project Name: Professional Cleaners
Workorder: 1203F71

ANALYTICAL QC SUMMARY REPORT

BatchID: **159210**

Sample ID: **1203E85-001AMSD** Client ID: Units: **ug/L** Prep Date: **03/20/2012** Run No: **217415**
SampleType: **MSD** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **159210** Analysis Date: **03/20/2012** Seq No: **4546085**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorobenzene	56.00	5.0	50	0	112	72.1	140	57.05	1.86	21.5	
Toluene	53.62	5.0	50	0	107	58.7	154	56.66	5.51	20	
Trichloroethene	58.10	5.0	50	0	116	68.3	149	60.61	4.23	17.7	
Surr: 4-Bromofluorobenzene	53.25	0	50	0	106	67.4	123	53.26	0	0	
Surr: Dibromofluoromethane	53.42	0	50	0	107	75.5	128	53.69	0	0	
Surr: Toluene-d8	49.67	0	50	0	99.3	70	120	50.53	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: Environmental Management Associates, LLC
Project Name: Professional Cleaners
Workorder: 1203F71

ANALYTICAL QC SUMMARY REPORT

BatchID: 159228

Sample ID: **MB-159228** Client ID: Units: **mg/L** Prep Date: **03/19/2012** Run No: **217490**
SampleType: **MBLK** TestCode: **Sulfide by SW9030B/9034** BatchID: **159228** Analysis Date: **03/20/2012** Seq No: **4546581**

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	0	0	0	0	0	0	0	0	

Sample ID: **LCS-159228** Client ID: Units: **mg/L** Prep Date: **03/19/2012** Run No: **217490**
SampleType: **LCS** TestCode: **Sulfide by SW9030B/9034** BatchID: **159228** Analysis Date: **03/20/2012** Seq No: **4546582**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfide	376.0	2.00	376	0	100	40	120	0	0	0	

Sample ID: **1203D40-002DMS** Client ID: Units: **mg/L** Prep Date: **03/19/2012** Run No: **217490**
SampleType: **MS** TestCode: **Sulfide by SW9030B/9034** BatchID: **159228** Analysis Date: **03/20/2012** Seq No: **4546587**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfide	36.80	2.00	37.6	0	97.9	66.8	121	0	0	0	

Sample ID: **1203D40-002DMSD** Client ID: Units: **mg/L** Prep Date: **03/19/2012** Run No: **217490**
SampleType: **MSD** TestCode: **Sulfide by SW9030B/9034** BatchID: **159228** Analysis Date: **03/20/2012** Seq No: **4546588**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfide	36.00	2.00	37.6	0	95.7	66.8	121	36.80	2.2	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: Environmental Management Associates, LLC
Project Name: Professional Cleaners
Workorder: 1203F71

ANALYTICAL QC SUMMARY REPORT

BatchID: **R217433**

Sample ID: **MB-R217433** Client ID: Units: **mg/L** Prep Date: Run No: **217433**
SampleType: **MBLK** TestCode: **ION SCAN SW9056A** BatchID: **R217433** Analysis Date: **03/19/2012** Seq No: **4545595**

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	0	0	0	0	0	0	0	0	
Nitrate	BRL	0.25	0	0	0	0	0	0	0	0	
Sulfate	BRL	1.0	0	0	0	0	0	0	0	0	

Sample ID: **LCS-R217433** Client ID: Units: **mg/L** Prep Date: Run No: **217433**
SampleType: **LCS** TestCode: **ION SCAN SW9056A** BatchID: **R217433** Analysis Date: **03/19/2012** Seq No: **4545593**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	4.941	1.0	5	0	98.8	90	110	0	0	0	
Nitrate	5.173	0.25	5	0	103	90	110	0	0	0	
Sulfate	26.56	1.0	25	0	106	90	110	0	0	0	

Sample ID: **1203F71-004EMS** Client ID: **MW-7** Units: **mg/L** Prep Date: Run No: **217433**
SampleType: **MS** TestCode: **ION SCAN SW9056A** BatchID: **R217433** Analysis Date: **03/19/2012** Seq No: **4545600**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	7.805	1.0	5	2.782	100	90	110	0	0	0	
Nitrate	6.258	0.25	5	0.9379	106	90	110	0	0	0	
Sulfate	25.67	1.0	25	0.3527	101	90	110	0	0	0	

Sample ID: **1203F71-004EMSD** Client ID: **MW-7** Units: **mg/L** Prep Date: Run No: **217433**
SampleType: **MSD** TestCode: **ION SCAN SW9056A** BatchID: **R217433** Analysis Date: **03/19/2012** Seq No: **4545602**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	7.851	1.0	5	2.782	101	90	110	7.805	0.594	20	
Nitrate	6.244	0.25	5	0.9379	106	90	110	6.258	0.218	20	
Sulfate	25.99	1.0	25	0.3527	103	90	110	25.67	1.25	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: Environmental Management Associates, LLC
Project Name: Professional Cleaners
Workorder: 1203F71

ANALYTICAL QC SUMMARY REPORT

BatchID: **R217604**

Sample ID: **MB-R217604** Client ID: Units: **mg/L** Prep Date: Run No: **217604**
SampleType: **MBLK** TestCode: **Total Organic Carbon (TOC) SW9060A** BatchID: **R217604** Analysis Date: **03/21/2012** Seq No: **4549362**

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	0	0	0	0	0	0	0	0	

Sample ID: **LCS-R217604** Client ID: Units: **mg/L** Prep Date: Run No: **217604**
SampleType: **LCS** TestCode: **Total Organic Carbon (TOC) SW9060A** BatchID: **R217604** Analysis Date: **03/21/2012** Seq No: **4549356**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Organic Carbon, Total	24.64	1.00	25	0	98.6	90	110	0	0	0	

Sample ID: **1203F71-004CMS** Client ID: **MW-7** Units: **mg/L** Prep Date: Run No: **217604**
SampleType: **MS** TestCode: **Total Organic Carbon (TOC) SW9060A** BatchID: **R217604** Analysis Date: **03/21/2012** Seq No: **4549373**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Organic Carbon, Total	25.96	1.00	25	0	104	80	120	0	0	0	

Sample ID: **1203F71-004CMSD** Client ID: **MW-7** Units: **mg/L** Prep Date: Run No: **217604**
SampleType: **MSD** TestCode: **Total Organic Carbon (TOC) SW9060A** BatchID: **R217604** Analysis Date: **03/21/2012** Seq No: **4549379**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Organic Carbon, Total	25.90	1.00	25	0	104	80	120	25.96	0.231	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: Environmental Management Associates, LLC
Project Name: Professional Cleaners
Workorder: 1203F71

ANALYTICAL QC SUMMARY REPORT

BatchID: R217665

Sample ID: **MB-R217665** Client ID: Units: **mg/L** Prep Date: Run No: **217665**
SampleType: **MBLK** TestCode: **Alkalinity (E310.1/SM2320 B)** BatchID: **R217665** Analysis Date: **03/22/2012** Seq No: **4550793**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Alkalinity, Total (As CaCO3)	BRL	3.0	0	0	0	0	0	0	0	0	

Sample ID: **LCS-R217665** Client ID: Units: **mg/L** Prep Date: Run No: **217665**
SampleType: **LCS** TestCode: **Alkalinity (E310.1/SM2320 B)** BatchID: **R217665** Analysis Date: **03/22/2012** Seq No: **4550794**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Alkalinity, Total (As CaCO3)	119.0	3.0	125	0	95.2	75	125	0	0	0	

Sample ID: **1203F71-004DDUP** Client ID: **MW-7** Units: **mg/L** Prep Date: Run No: **217665**
SampleType: **DUP** TestCode: **CARBON DIOXIDE** **SM4500-CO2** BatchID: **R217665** Analysis Date: **03/22/2012** Seq No: **4550806**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Total Carbon Dioxide	218.3	10.0	0	0	0	0	0	218.3	0	20	

Sample ID: **1203F71-004DUP** Client ID: **MW-7** Units: **mg/L** Prep Date: Run No: **217665**
SampleType: **DUP** TestCode: **Alkalinity (E310.1/SM2320 B)** BatchID: **R217665** Analysis Date: **03/22/2012** Seq No: **4550796**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Alkalinity, Total (As CaCO3)	18.00	3.0	0	0	0	0	0	18.00	0	30	

Qualifiers:

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

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

AES

April 27, 2012

Brent Cortelloni
Environmental Management Associates, LLC
5262 Belle Wood Court
Buford Georgi30518

TEL: (770) 271-4628
FAX: (770) 271-8944

RE: Professional Cleaners

Dear Brent Cortelloni: Order No: 1204G93

Analytical Environmental Services, Inc. received 9 samples on 4/23/2012 12:10:00 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 07/01/11-06/30/12.
-AIHA Certification ID #100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/13.

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.

Mirzeta Kararic

Mirzeta Kararic
Project Manager

ANALYTICAL ENVIRONMENTAL SERVICES, INC
3785 Presidential Parkway, Atlanta GA 30340-3704
AES TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1204G93

Date: _____ Page _____ of _____

COMPANY: EMA/BC

ADDRESS:

PHONE:

FAX:

SAMPLED BY: B. Morse

SIGNATURE:

ANALYSIS REQUESTED

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

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	TCL VOC		Select metals	Chloride	Hex Chrom								REMARKS	No # of Containers
							PRESERVATION (See codes)													
1	MW-1	4-23-12	1054	X		GW	X		X	X	X								* See	
2	2		8:35																	
3	3		1138				X												Mirzoto	
4	4		9:42				X													
5	5		1043																for	
6	6		9:17																	
7	7		8:42																list	
8	Dup						X													
9	Trip Blank																			
10																				
11																				
12																				
13																				
14																				

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
1: B. Morse	4-23-12 / 12:10	1: [illegible]	4/23/12 12:10
2:		2:	
3:		3:	

SPECIAL INSTRUCTIONS/COMMENTS:

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

PROJECT INFORMATION
PROJECT NAME: Professional Flowers
PROJECT #: 559
SITE ADDRESS:
SEND REPORT TO:
INVOICE TO:
(IF DIFFERENT FROM ABOVE)
QUOTE #:_____ PO#:_____

RECEIPT
Total # of Containers

Turnaround Time Request
- (X) 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

Client: Environmental Management Associates, LLC
Project: Professional Cleaners
Lab ID: 1204G93

Case Narrative

No collection date was labeled on the containers of sample "DUP". The collection date of other samples on COC was used as collection date for sample "DUP".

Analytical Environmental Services, Inc

Date: 27-Apr-12

Client:	Environmental Management Associates, LLC	**Client Sample ID:**	MW-1
Project Name:	Professional Cleaners	**Collection Date:**	4/23/2012 10:54:00 AM
Lab ID:	1204G93-001	**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	160615	1	04/26/2012 22:26	SB
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	160615	1	04/26/2012 22:26	SB
1,1,2-Trichloroethane	BRL	5.0		ug/L	160615	1	04/26/2012 22:26	SB
1,1-Dichloroethane	BRL	5.0		ug/L	160615	1	04/26/2012 22:26	SB
1,1-Dichloroethene	BRL	5.0		ug/L	160615	1	04/26/2012 22:26	SB
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	160615	1	04/26/2012 22:26	SB
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	160615	1	04/26/2012 22:26	SB
1,2-Dibromoethane	BRL	5.0		ug/L	160615	1	04/26/2012 22:26	SB
1,2-Dichlorobenzene	BRL	5.0		ug/L	160615	1	04/26/2012 22:26	SB
1,2-Dichloroethane	BRL	5.0		ug/L	160615	1	04/26/2012 22:26	SB
1,2-Dichloropropane	BRL	5.0		ug/L	160615	1	04/26/2012 22:26	SB
1,3-Dichlorobenzene	BRL	5.0		ug/L	160615	1	04/26/2012 22:26	SB
1,4-Dichlorobenzene	BRL	5.0		ug/L	160615	1	04/26/2012 22:26	SB
2-Butanone	BRL	50		ug/L	160615	1	04/26/2012 22:26	SB
2-Hexanone	BRL	10		ug/L	160615	1	04/26/2012 22:26	SB
4-Methyl-2-pentanone	BRL	10		ug/L	160615	1	04/26/2012 22:26	SB
Acetone	BRL	50		ug/L	160615	1	04/26/2012 22:26	SB
Benzene	BRL	5.0		ug/L	160615	1	04/26/2012 22:26	SB
Bromodichloromethane	BRL	5.0		ug/L	160615	1	04/26/2012 22:26	SB
Bromoform	BRL	5.0		ug/L	160615	1	04/26/2012 22:26	SB
Bromomethane	BRL	5.0		ug/L	160615	1	04/26/2012 22:26	SB
Carbon disulfide	BRL	5.0		ug/L	160615	1	04/26/2012 22:26	SB
Carbon tetrachloride	BRL	5.0		ug/L	160615	1	04/26/2012 22:26	SB
Chlorobenzene	BRL	5.0		ug/L	160615	1	04/26/2012 22:26	SB
Chloroethane	BRL	10		ug/L	160615	1	04/26/2012 22:26	SB
Chloroform	BRL	5.0		ug/L	160615	1	04/26/2012 22:26	SB
Chloromethane	BRL	10		ug/L	160615	1	04/26/2012 22:26	SB
cis-1,2-Dichloroethene	BRL	5.0		ug/L	160615	1	04/26/2012 22:26	SB
cis-1,3-Dichloropropene	BRL	5.0		ug/L	160615	1	04/26/2012 22:26	SB
Cyclohexane	BRL	5.0		ug/L	160615	1	04/26/2012 22:26	SB
Dibromochloromethane	BRL	5.0		ug/L	160615	1	04/26/2012 22:26	SB
Dichlorodifluoromethane	BRL	10		ug/L	160615	1	04/26/2012 22:26	SB
Ethylbenzene	BRL	5.0		ug/L	160615	1	04/26/2012 22:26	SB
Freon-113	BRL	10		ug/L	160615	1	04/26/2012 22:26	SB
Isopropylbenzene	BRL	5.0		ug/L	160615	1	04/26/2012 22:26	SB
m,p-Xylene	BRL	5.0		ug/L	160615	1	04/26/2012 22:26	SB
Methyl acetate	BRL	5.0		ug/L	160615	1	04/26/2012 22:26	SB
Methyl tert-butyl ether	BRL	5.0		ug/L	160615	1	04/26/2012 22:26	SB
Methylcyclohexane	BRL	5.0		ug/L	160615	1	04/26/2012 22:26	SB
Methylene chloride	BRL	5.0		ug/L	160615	1	04/26/2012 22:26	SB
o-Xylene	BRL	5.0		ug/L	160615	1	04/26/2012 22:26	SB

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:** 27-Apr-12

Client:	Environmental Management Associates, LLC	**Client Sample ID:**	MW-1
Project Name:	Professional Cleaners	**Collection Date:**	4/23/2012 10:54:00 AM
Lab ID:	1204G93-001	**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	160615	1	04/26/2012 22:26	SB
Tetrachloroethene	91	5.0		ug/L	160615	1	04/26/2012 22:26	SB
Toluene	BRL	5.0		ug/L	160615	1	04/26/2012 22:26	SB
trans-1,2-Dichloroethene	BRL	5.0		ug/L	160615	1	04/26/2012 22:26	SB
trans-1,3-Dichloropropene	BRL	5.0		ug/L	160615	1	04/26/2012 22:26	SB
Trichloroethene	BRL	5.0		ug/L	160615	1	04/26/2012 22:26	SB
Trichlorofluoromethane	BRL	5.0		ug/L	160615	1	04/26/2012 22:26	SB
Vinyl chloride	BRL	2.0		ug/L	160615	1	04/26/2012 22:26	SB
Surr: 4-Bromofluorobenzene	88.7	67.4-123		%REC	160615	1	04/26/2012 22:26	SB
Surr: Dibromofluoromethane	109	75.5-128		%REC	160615	1	04/26/2012 22:26	SB
Surr: Toluene-d8	86.2	70-120		%REC	160615	1	04/26/2012 22:26	SB
ION SCAN SW9056A								
Chloride	1.9	1.0		mg/L	R220003	1	04/25/2012 17:57	GR
Hexavalent Chromium in Water SW7196								
Chromium, Hexavalent	BRL	0.0100		mg/L	R220021	1	04/23/2012 18:15	CG
METALS, TOTAL SW6010C				**(SW3010A)**				
Arsenic	BRL	0.0500		mg/L	160569	1	04/24/2012 22:22	TA
Barium	0.106	0.0200		mg/L	160569	1	04/24/2012 22:22	TA
Cadmium	BRL	0.0050		mg/L	160569	1	04/24/2012 22:22	TA
Chromium	BRL	0.0100		mg/L	160569	1	04/24/2012 22:22	TA
Copper	BRL	0.0100		mg/L	160569	1	04/24/2012 22:22	TA
Iron	2.88	0.100		mg/L	160569	1	04/24/2012 22:22	TA
Lead	BRL	0.0100		mg/L	160569	1	04/24/2012 22:22	TA
Manganese	1.79	0.0150		mg/L	160569	1	04/24/2012 22:22	TA
Selenium	BRL	0.0200		mg/L	160569	1	04/24/2012 22:22	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: 27-Apr-12

Client:	Environmental Management Associates, LLC	**Client Sample ID:**	MW-2
Project Name:	Professional Cleaners	**Collection Date:**	4/23/2012 8:35:00 AM
Lab ID:	1204G93-002	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
ION SCAN SW9056A								
Chloride	2.8	1.0		mg/L	R220003	1	04/25/2012 18:12	GR
Hexavalent Chromium in Water SW7196								
Chromium, Hexavalent	BRL	0.0100		mg/L	R220021	1	04/23/2012 18:15	CG
METALS, TOTAL SW6010C				**(SW3010A)**				
Arsenic	BRL	0.0500		mg/L	160569	1	04/24/2012 22:41	TA
Barium	0.151	0.0200		mg/L	160569	1	04/24/2012 22:41	TA
Cadmium	BRL	0.0050		mg/L	160569	1	04/24/2012 22:41	TA
Chromium	BRL	0.0100		mg/L	160569	1	04/24/2012 22:41	TA
Copper	BRL	0.0100		mg/L	160569	1	04/24/2012 22:41	TA
Iron	BRL	0.100		mg/L	160569	1	04/24/2012 22:41	TA
Lead	BRL	0.0100		mg/L	160569	1	04/24/2012 22:41	TA
Manganese	0.273	0.0150		mg/L	160569	1	04/24/2012 22:41	TA
Selenium	BRL	0.0200		mg/L	160569	1	04/24/2012 22:41	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:** 27-Apr-12

Client:	Environmental Management Associates, LLC	**Client Sample ID:**	MW-3
Project Name:	Professional Cleaners	**Collection Date:**	4/23/2012 11:38:00 AM
Lab ID:	1204G93-003	**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	160615	1	04/26/2012 22:55	SB
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	160615	1	04/26/2012 22:55	SB
1,1,2-Trichloroethane	BRL	5.0		ug/L	160615	1	04/26/2012 22:55	SB
1,1-Dichloroethane	BRL	5.0		ug/L	160615	1	04/26/2012 22:55	SB
1,1-Dichloroethene	BRL	5.0		ug/L	160615	1	04/26/2012 22:55	SB
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	160615	1	04/26/2012 22:55	SB
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	160615	1	04/26/2012 22:55	SB
1,2-Dibromoethane	BRL	5.0		ug/L	160615	1	04/26/2012 22:55	SB
1,2-Dichlorobenzene	BRL	5.0		ug/L	160615	1	04/26/2012 22:55	SB
1,2-Dichloroethane	BRL	5.0		ug/L	160615	1	04/26/2012 22:55	SB
1,2-Dichloropropane	BRL	5.0		ug/L	160615	1	04/26/2012 22:55	SB
1,3-Dichlorobenzene	BRL	5.0		ug/L	160615	1	04/26/2012 22:55	SB
1,4-Dichlorobenzene	BRL	5.0		ug/L	160615	1	04/26/2012 22:55	SB
2-Butanone	BRL	50		ug/L	160615	1	04/26/2012 22:55	SB
2-Hexanone	BRL	10		ug/L	160615	1	04/26/2012 22:55	SB
4-Methyl-2-pentanone	BRL	10		ug/L	160615	1	04/26/2012 22:55	SB
Acetone	BRL	50		ug/L	160615	1	04/26/2012 22:55	SB
Benzene	BRL	5.0		ug/L	160615	1	04/26/2012 22:55	SB
Bromodichloromethane	BRL	5.0		ug/L	160615	1	04/26/2012 22:55	SB
Bromoform	BRL	5.0		ug/L	160615	1	04/26/2012 22:55	SB
Bromomethane	BRL	5.0		ug/L	160615	1	04/26/2012 22:55	SB
Carbon disulfide	BRL	5.0		ug/L	160615	1	04/26/2012 22:55	SB
Carbon tetrachloride	BRL	5.0		ug/L	160615	1	04/26/2012 22:55	SB
Chlorobenzene	BRL	5.0		ug/L	160615	1	04/26/2012 22:55	SB
Chloroethane	BRL	10		ug/L	160615	1	04/26/2012 22:55	SB
Chloroform	BRL	5.0		ug/L	160615	1	04/26/2012 22:55	SB
Chloromethane	BRL	10		ug/L	160615	1	04/26/2012 22:55	SB
cis-1,2-Dichloroethene	BRL	5.0		ug/L	160615	1	04/26/2012 22:55	SB
cis-1,3-Dichloropropene	BRL	5.0		ug/L	160615	1	04/26/2012 22:55	SB
Cyclohexane	BRL	5.0		ug/L	160615	1	04/26/2012 22:55	SB
Dibromochloromethane	BRL	5.0		ug/L	160615	1	04/26/2012 22:55	SB
Dichlorodifluoromethane	BRL	10		ug/L	160615	1	04/26/2012 22:55	SB
Ethylbenzene	BRL	5.0		ug/L	160615	1	04/26/2012 22:55	SB
Freon-113	BRL	10		ug/L	160615	1	04/26/2012 22:55	SB
Isopropylbenzene	BRL	5.0		ug/L	160615	1	04/26/2012 22:55	SB
m,p-Xylene	BRL	5.0		ug/L	160615	1	04/26/2012 22:55	SB
Methyl acetate	BRL	5.0		ug/L	160615	1	04/26/2012 22:55	SB
Methyl tert-butyl ether	BRL	5.0		ug/L	160615	1	04/26/2012 22:55	SB
Methylcyclohexane	BRL	5.0		ug/L	160615	1	04/26/2012 22:55	SB
Methylene chloride	BRL	5.0		ug/L	160615	1	04/26/2012 22:55	SB
o-Xylene	BRL	5.0		ug/L	160615	1	04/26/2012 22:55	SB

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:** 27-Apr-12

Client:	Environmental Management Associates, LLC	**Client Sample ID:**	MW-3
Project Name:	Professional Cleaners	**Collection Date:**	4/23/2012 11:38:00 AM
Lab ID:	1204G93-003	**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	160615	1	04/26/2012 22:55	SB
Tetrachloroethene	BRL	5.0		ug/L	160615	1	04/26/2012 22:55	SB
Toluene	BRL	5.0		ug/L	160615	1	04/26/2012 22:55	SB
trans-1,2-Dichloroethene	BRL	5.0		ug/L	160615	1	04/26/2012 22:55	SB
trans-1,3-Dichloropropene	BRL	5.0		ug/L	160615	1	04/26/2012 22:55	SB
Trichloroethene	BRL	5.0		ug/L	160615	1	04/26/2012 22:55	SB
Trichlorofluoromethane	BRL	5.0		ug/L	160615	1	04/26/2012 22:55	SB
Vinyl chloride	BRL	2.0		ug/L	160615	1	04/26/2012 22:55	SB
Surr: 4-Bromofluorobenzene	90	67.4-123		%REC	160615	1	04/26/2012 22:55	SB
Surr: Dibromofluoromethane	108	75.5-128		%REC	160615	1	04/26/2012 22:55	SB
Surr: Toluene-d8	86.3	70-120		%REC	160615	1	04/26/2012 22:55	SB
ION SCAN SW9056A								
Chloride	5.2	1.0		mg/L	R220003	1	04/25/2012 18:27	GR
Hexavalent Chromium in Water SW7196								
Chromium, Hexavalent	BRL	0.0100		mg/L	R220021	1	04/23/2012 18:15	CG
METALS, TOTAL SW6010C				**(SW3010A)**				
Arsenic	BRL	0.0500		mg/L	160569	1	04/25/2012 18:25	TA
Barium	0.185	0.0200		mg/L	160569	1	04/25/2012 18:25	TA
Cadmium	BRL	0.0050		mg/L	160569	1	04/25/2012 18:25	TA
Chromium	BRL	0.0100		mg/L	160569	1	04/25/2012 18:25	TA
Copper	BRL	0.0100		mg/L	160569	1	04/25/2012 18:25	TA
Iron	0.998	0.100		mg/L	160569	1	04/25/2012 18:25	TA
Lead	BRL	0.0100		mg/L	160569	1	04/25/2012 18:25	TA
Manganese	4.07	0.0150		mg/L	160569	1	04/25/2012 18:25	TA
Selenium	BRL	0.0200		mg/L	160569	1	04/25/2012 18:25	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: 27-Apr-12

Client:	Environmental Management Associates, LLC	**Client Sample ID:**	MW-4
Project Name:	Professional Cleaners	**Collection Date:**	4/23/2012 9:42:00 AM
Lab ID:	1204G93-004	**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	160615	1	04/27/2012 01:47	SB
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	160615	1	04/27/2012 01:47	SB
1,1,2-Trichloroethane	BRL	5.0		ug/L	160615	1	04/27/2012 01:47	SB
1,1-Dichloroethane	BRL	5.0		ug/L	160615	1	04/27/2012 01:47	SB
1,1-Dichloroethene	BRL	5.0		ug/L	160615	1	04/27/2012 01:47	SB
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	160615	1	04/27/2012 01:47	SB
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	160615	1	04/27/2012 01:47	SB
1,2-Dibromoethane	BRL	5.0		ug/L	160615	1	04/27/2012 01:47	SB
1,2-Dichlorobenzene	BRL	5.0		ug/L	160615	1	04/27/2012 01:47	SB
1,2-Dichloroethane	BRL	5.0		ug/L	160615	1	04/27/2012 01:47	SB
1,2-Dichloropropane	BRL	5.0		ug/L	160615	1	04/27/2012 01:47	SB
1,3-Dichlorobenzene	BRL	5.0		ug/L	160615	1	04/27/2012 01:47	SB
1,4-Dichlorobenzene	BRL	5.0		ug/L	160615	1	04/27/2012 01:47	SB
2-Butanone	BRL	50		ug/L	160615	1	04/27/2012 01:47	SB
2-Hexanone	BRL	10		ug/L	160615	1	04/27/2012 01:47	SB
4-Methyl-2-pentanone	BRL	10		ug/L	160615	1	04/27/2012 01:47	SB
Acetone	BRL	50		ug/L	160615	1	04/27/2012 01:47	SB
Benzene	BRL	5.0		ug/L	160615	1	04/27/2012 01:47	SB
Bromodichloromethane	BRL	5.0		ug/L	160615	1	04/27/2012 01:47	SB
Bromoform	BRL	5.0		ug/L	160615	1	04/27/2012 01:47	SB
Bromomethane	BRL	5.0		ug/L	160615	1	04/27/2012 01:47	SB
Carbon disulfide	BRL	5.0		ug/L	160615	1	04/27/2012 01:47	SB
Carbon tetrachloride	BRL	5.0		ug/L	160615	1	04/27/2012 01:47	SB
Chlorobenzene	BRL	5.0		ug/L	160615	1	04/27/2012 01:47	SB
Chloroethane	BRL	10		ug/L	160615	1	04/27/2012 01:47	SB
Chloroform	BRL	5.0		ug/L	160615	1	04/27/2012 01:47	SB
Chloromethane	BRL	10		ug/L	160615	1	04/27/2012 01:47	SB
cis-1,2-Dichloroethene	BRL	5.0		ug/L	160615	1	04/27/2012 01:47	SB
cis-1,3-Dichloropropene	BRL	5.0		ug/L	160615	1	04/27/2012 01:47	SB
Cyclohexane	BRL	5.0		ug/L	160615	1	04/27/2012 01:47	SB
Dibromochloromethane	BRL	5.0		ug/L	160615	1	04/27/2012 01:47	SB
Dichlorodifluoromethane	BRL	10		ug/L	160615	1	04/27/2012 01:47	SB
Ethylbenzene	BRL	5.0		ug/L	160615	1	04/27/2012 01:47	SB
Freon-113	BRL	10		ug/L	160615	1	04/27/2012 01:47	SB
Isopropylbenzene	BRL	5.0		ug/L	160615	1	04/27/2012 01:47	SB
m,p-Xylene	BRL	5.0		ug/L	160615	1	04/27/2012 01:47	SB
Methyl acetate	BRL	5.0		ug/L	160615	1	04/27/2012 01:47	SB
Methyl tert-butyl ether	BRL	5.0		ug/L	160615	1	04/27/2012 01:47	SB
Methylcyclohexane	BRL	5.0		ug/L	160615	1	04/27/2012 01:47	SB
Methylene chloride	BRL	5.0		ug/L	160615	1	04/27/2012 01:47	SB
o-Xylene	BRL	5.0		ug/L	160615	1	04/27/2012 01:47	SB

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: 27-Apr-12

Client:	Environmental Management Associates, LLC	**Client Sample ID:**	MW-4
Project Name:	Professional Cleaners	**Collection Date:**	4/23/2012 9:42:00 AM
Lab ID:	1204G93-004	**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	160615	1	04/27/2012 01:47	SB
Tetrachloroethene	BRL	5.0		ug/L	160615	1	04/27/2012 01:47	SB
Toluene	BRL	5.0		ug/L	160615	1	04/27/2012 01:47	SB
trans-1,2-Dichloroethene	BRL	5.0		ug/L	160615	1	04/27/2012 01:47	SB
trans-1,3-Dichloropropene	BRL	5.0		ug/L	160615	1	04/27/2012 01:47	SB
Trichloroethene	BRL	5.0		ug/L	160615	1	04/27/2012 01:47	SB
Trichlorofluoromethane	BRL	5.0		ug/L	160615	1	04/27/2012 01:47	SB
Vinyl chloride	BRL	2.0		ug/L	160615	1	04/27/2012 01:47	SB
Surr: 4-Bromofluorobenzene	89.4	67.4-123		%REC	160615	1	04/27/2012 01:47	SB
Surr: Dibromofluoromethane	116	75.5-128		%REC	160615	1	04/27/2012 01:47	SB
Surr: Toluene-d8	93.9	70-120		%REC	160615	1	04/27/2012 01:47	SB
ION SCAN SW9056A								
Chloride	8.4	1.0		mg/L	R220003	1	04/25/2012 18:41	GR
Hexavalent Chromium in Water SW7196								
Chromium, Hexavalent	BRL	0.0100		mg/L	R220021	1	04/23/2012 18:15	CG
METALS, TOTAL SW6010C					**(SW3010A)**			
Arsenic	BRL	0.0500		mg/L	160569	1	04/25/2012 18:29	TA
Barium	0.279	0.0200		mg/L	160569	1	04/25/2012 18:29	TA
Cadmium	BRL	0.0050		mg/L	160569	1	04/25/2012 18:29	TA
Chromium	BRL	0.0100		mg/L	160569	1	04/25/2012 18:29	TA
Copper	BRL	0.0100		mg/L	160569	1	04/25/2012 18:29	TA
Iron	0.545	0.100		mg/L	160569	1	04/25/2012 18:29	TA
Lead	BRL	0.0100		mg/L	160569	1	04/25/2012 18:29	TA
Manganese	0.260	0.0150		mg/L	160569	1	04/25/2012 18:29	TA
Selenium	BRL	0.0200		mg/L	160569	1	04/25/2012 18:29	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: 27-Apr-12

Client:	Environmental Management Associates, LLC	**Client Sample ID:**	MW-5
Project Name:	Professional Cleaners	**Collection Date:**	4/23/2012 10:43:00 AM
Lab ID:	1204G93-005	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
ION SCAN SW9056A								
Chloride	3.1	1.0		mg/L	R220003	1	04/25/2012 18:56	GR
Hexavalent Chromium in Water SW7196								
Chromium, Hexavalent	BRL	0.0100		mg/L	R220021	1	04/23/2012 18:15	CG
METALS, TOTAL SW6010C				**(SW3010A)**				
Arsenic	BRL	0.0500		mg/L	160569	1	04/25/2012 18:33	TA
Barium	0.104	0.0200		mg/L	160569	1	04/25/2012 18:33	TA
Cadmium	BRL	0.0050		mg/L	160569	1	04/25/2012 18:33	TA
Chromium	BRL	0.0100		mg/L	160569	1	04/25/2012 18:33	TA
Copper	BRL	0.0100		mg/L	160569	1	04/25/2012 18:33	TA
Iron	0.142	0.100		mg/L	160569	1	04/25/2012 18:33	TA
Lead	BRL	0.0100		mg/L	160569	1	04/25/2012 18:33	TA
Manganese	0.211	0.0150		mg/L	160569	1	04/25/2012 18:33	TA
Selenium	BRL	0.0200		mg/L	160569	1	04/25/2012 18:33	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: 27-Apr-12

Client:	Environmental Management Associates, LLC	**Client Sample ID:**	MW-6
Project Name:	Professional Cleaners	**Collection Date:**	4/23/2012 9:17:00 AM
Lab ID:	1204G93-006	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
ION SCAN SW9056A								
Chloride	2.1	1.0		mg/L	R220003	1	04/25/2012 19:11	GR
Hexavalent Chromium in Water SW7196								
Chromium, Hexavalent	BRL	0.0100		mg/L	R220021	1	04/23/2012 18:15	CG
METALS, TOTAL SW6010C				**(SW3010A)**				
Arsenic	BRL	0.0500		mg/L	160569	1	04/25/2012 18:46	TA
Barium	0.225	0.0200		mg/L	160569	1	04/25/2012 18:46	TA
Cadmium	BRL	0.0050		mg/L	160569	1	04/25/2012 18:46	TA
Chromium	BRL	0.0100		mg/L	160569	1	04/25/2012 18:46	TA
Copper	BRL	0.0100		mg/L	160569	1	04/25/2012 18:46	TA
Iron	0.853	0.100		mg/L	160569	1	04/25/2012 18:46	TA
Lead	BRL	0.0100		mg/L	160569	1	04/25/2012 18:46	TA
Manganese	0.0677	0.0150		mg/L	160569	1	04/25/2012 18:46	TA
Selenium	BRL	0.0200		mg/L	160569	1	04/25/2012 18:46	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:** 27-Apr-12

Client:	Environmental Management Associates, LLC	**Client Sample ID:**	MW-7
Project Name:	Professional Cleaners	**Collection Date:**	4/23/2012 8:42:00 AM
Lab ID:	1204G93-007	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
ION SCAN SW9056A								
Chloride	2.0	1.0		mg/L	R220003	1	04/25/2012 19:25	GR
Hexavalent Chromium in Water SW7196								
Chromium, Hexavalent	BRL	0.0100		mg/L	R220021	1	04/23/2012 18:15	CG
METALS, TOTAL SW6010C				**(SW3010A)**				
Arsenic	BRL	0.0500		mg/L	160569	1	04/25/2012 18:50	TA
Barium	0.113	0.0200		mg/L	160569	1	04/25/2012 18:50	TA
Cadmium	BRL	0.0050		mg/L	160569	1	04/25/2012 18:50	TA
Chromium	BRL	0.0100		mg/L	160569	1	04/25/2012 18:50	TA
Copper	BRL	0.0100		mg/L	160569	1	04/25/2012 18:50	TA
Iron	0.440	0.100		mg/L	160569	1	04/25/2012 18:50	TA
Lead	BRL	0.0100		mg/L	160569	1	04/25/2012 18:50	TA
Manganese	0.678	0.0150		mg/L	160569	1	04/25/2012 18:50	TA
Selenium	BRL	0.0200		mg/L	160569	1	04/25/2012 18:50	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:** 27-Apr-12

Client:	Environmental Management Associates, LLC	**Client Sample ID:**	DUP
Project Name:	Professional Cleaners	**Collection Date:**	4/23/2012
Lab ID:	1204G93-008	**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	160615	1	04/27/2012 02:16	SB
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	160615	1	04/27/2012 02:16	SB
1,1,2-Trichloroethane	BRL	5.0		ug/L	160615	1	04/27/2012 02:16	SB
1,1-Dichloroethane	BRL	5.0		ug/L	160615	1	04/27/2012 02:16	SB
1,1-Dichloroethene	BRL	5.0		ug/L	160615	1	04/27/2012 02:16	SB
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	160615	1	04/27/2012 02:16	SB
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	160615	1	04/27/2012 02:16	SB
1,2-Dibromoethane	BRL	5.0		ug/L	160615	1	04/27/2012 02:16	SB
1,2-Dichlorobenzene	BRL	5.0		ug/L	160615	1	04/27/2012 02:16	SB
1,2-Dichloroethane	BRL	5.0		ug/L	160615	1	04/27/2012 02:16	SB
1,2-Dichloropropane	BRL	5.0		ug/L	160615	1	04/27/2012 02:16	SB
1,3-Dichlorobenzene	BRL	5.0		ug/L	160615	1	04/27/2012 02:16	SB
1,4-Dichlorobenzene	BRL	5.0		ug/L	160615	1	04/27/2012 02:16	SB
2-Butanone	BRL	50		ug/L	160615	1	04/27/2012 02:16	SB
2-Hexanone	BRL	10		ug/L	160615	1	04/27/2012 02:16	SB
4-Methyl-2-pentanone	BRL	10		ug/L	160615	1	04/27/2012 02:16	SB
Acetone	BRL	50		ug/L	160615	1	04/27/2012 02:16	SB
Benzene	BRL	5.0		ug/L	160615	1	04/27/2012 02:16	SB
Bromodichloromethane	BRL	5.0		ug/L	160615	1	04/27/2012 02:16	SB
Bromoform	BRL	5.0		ug/L	160615	1	04/27/2012 02:16	SB
Bromomethane	BRL	5.0		ug/L	160615	1	04/27/2012 02:16	SB
Carbon disulfide	BRL	5.0		ug/L	160615	1	04/27/2012 02:16	SB
Carbon tetrachloride	BRL	5.0		ug/L	160615	1	04/27/2012 02:16	SB
Chlorobenzene	BRL	5.0		ug/L	160615	1	04/27/2012 02:16	SB
Chloroethane	BRL	10		ug/L	160615	1	04/27/2012 02:16	SB
Chloroform	BRL	5.0		ug/L	160615	1	04/27/2012 02:16	SB
Chloromethane	BRL	10		ug/L	160615	1	04/27/2012 02:16	SB
cis-1,2-Dichloroethene	BRL	5.0		ug/L	160615	1	04/27/2012 02:16	SB
cis-1,3-Dichloropropene	BRL	5.0		ug/L	160615	1	04/27/2012 02:16	SB
Cyclohexane	BRL	5.0		ug/L	160615	1	04/27/2012 02:16	SB
Dibromochloromethane	BRL	5.0		ug/L	160615	1	04/27/2012 02:16	SB
Dichlorodifluoromethane	BRL	10		ug/L	160615	1	04/27/2012 02:16	SB
Ethylbenzene	BRL	5.0		ug/L	160615	1	04/27/2012 02:16	SB
Freon-113	BRL	10		ug/L	160615	1	04/27/2012 02:16	SB
Isopropylbenzene	BRL	5.0		ug/L	160615	1	04/27/2012 02:16	SB
m,p-Xylene	BRL	5.0		ug/L	160615	1	04/27/2012 02:16	SB
Methyl acetate	BRL	5.0		ug/L	160615	1	04/27/2012 02:16	SB
Methyl tert-butyl ether	BRL	5.0		ug/L	160615	1	04/27/2012 02:16	SB
Methylcyclohexane	BRL	5.0		ug/L	160615	1	04/27/2012 02:16	SB
Methylene chloride	BRL	5.0		ug/L	160615	1	04/27/2012 02:16	SB
o-Xylene	BRL	5.0		ug/L	160615	1	04/27/2012 02:16	SB

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:** 27-Apr-12

Client:	Environmental Management Associates, LLC	**Client Sample ID:**	DUP
Project Name:	Professional Cleaners	**Collection Date:**	4/23/2012
Lab ID:	1204G93-008	**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	160615	1	04/27/2012 02:16	SB
Tetrachloroethene	100	5.0		ug/L	160615	1	04/27/2012 02:16	SB
Toluene	BRL	5.0		ug/L	160615	1	04/27/2012 02:16	SB
trans-1,2-Dichloroethene	BRL	5.0		ug/L	160615	1	04/27/2012 02:16	SB
trans-1,3-Dichloropropene	BRL	5.0		ug/L	160615	1	04/27/2012 02:16	SB
Trichloroethene	BRL	5.0		ug/L	160615	1	04/27/2012 02:16	SB
Trichlorofluoromethane	BRL	5.0		ug/L	160615	1	04/27/2012 02:16	SB
Vinyl chloride	BRL	2.0		ug/L	160615	1	04/27/2012 02:16	SB
Surr: 4-Bromofluorobenzene	90.4	67.4-123		%REC	160615	1	04/27/2012 02:16	SB
Surr: Dibromofluoromethane	109	75.5-128		%REC	160615	1	04/27/2012 02:16	SB
Surr: Toluene-d8	93	70-120		%REC	160615	1	04/27/2012 02:16	SB
ION SCAN SW9056A								
Chloride	1.9	1.0		mg/L	R220003	1	04/25/2012 20:39	GR
METALS, TOTAL SW6010C				**(SW3010A)**				
Arsenic	BRL	0.0500		mg/L	160569	1	04/25/2012 18:54	TA
Barium	0.106	0.0200		mg/L	160569	1	04/25/2012 18:54	TA
Cadmium	BRL	0.0050		mg/L	160569	1	04/25/2012 18:54	TA
Chromium	BRL	0.0100		mg/L	160569	1	04/25/2012 18:54	TA
Copper	BRL	0.0100		mg/L	160569	1	04/25/2012 18:54	TA
Iron	2.39	0.100		mg/L	160569	1	04/25/2012 18:54	TA
Lead	BRL	0.0100		mg/L	160569	1	04/25/2012 18:54	TA
Manganese	1.87	0.0150		mg/L	160569	1	04/25/2012 18:54	TA
Selenium	BRL	0.0200		mg/L	160569	1	04/25/2012 18:54	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: 27-Apr-12

Client:	Environmental Management Associates, LLC	**Client Sample ID:**	TRIP BLANK
Project Name:	Professional Cleaners	**Collection Date:**	4/23/2012
Lab ID:	1204G93-009	**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	160615	1	04/27/2012 17:05	JT
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	160615	1	04/27/2012 17:05	JT
1,1,2-Trichloroethane	BRL	5.0		ug/L	160615	1	04/27/2012 17:05	JT
1,1-Dichloroethane	BRL	5.0		ug/L	160615	1	04/27/2012 17:05	JT
1,1-Dichloroethene	BRL	5.0		ug/L	160615	1	04/27/2012 17:05	JT
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	160615	1	04/27/2012 17:05	JT
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	160615	1	04/27/2012 17:05	JT
1,2-Dibromoethane	BRL	5.0		ug/L	160615	1	04/27/2012 17:05	JT
1,2-Dichlorobenzene	BRL	5.0		ug/L	160615	1	04/27/2012 17:05	JT
1,2-Dichloroethane	BRL	5.0		ug/L	160615	1	04/27/2012 17:05	JT
1,2-Dichloropropane	BRL	5.0		ug/L	160615	1	04/27/2012 17:05	JT
1,3-Dichlorobenzene	BRL	5.0		ug/L	160615	1	04/27/2012 17:05	JT
1,4-Dichlorobenzene	BRL	5.0		ug/L	160615	1	04/27/2012 17:05	JT
2-Butanone	BRL	50		ug/L	160615	1	04/27/2012 17:05	JT
2-Hexanone	BRL	10		ug/L	160615	1	04/27/2012 17:05	JT
4-Methyl-2-pentanone	BRL	10		ug/L	160615	1	04/27/2012 17:05	JT
Acetone	BRL	50		ug/L	160615	1	04/27/2012 17:05	JT
Benzene	BRL	5.0		ug/L	160615	1	04/27/2012 17:05	JT
Bromodichloromethane	BRL	5.0		ug/L	160615	1	04/27/2012 17:05	JT
Bromoform	BRL	5.0		ug/L	160615	1	04/27/2012 17:05	JT
Bromomethane	BRL	5.0		ug/L	160615	1	04/27/2012 17:05	JT
Carbon disulfide	BRL	5.0		ug/L	160615	1	04/27/2012 17:05	JT
Carbon tetrachloride	BRL	5.0		ug/L	160615	1	04/27/2012 17:05	JT
Chlorobenzene	BRL	5.0		ug/L	160615	1	04/27/2012 17:05	JT
Chloroethane	BRL	10		ug/L	160615	1	04/27/2012 17:05	JT
Chloroform	BRL	5.0		ug/L	160615	1	04/27/2012 17:05	JT
Chloromethane	BRL	10		ug/L	160615	1	04/27/2012 17:05	JT
cis-1,2-Dichloroethene	BRL	5.0		ug/L	160615	1	04/27/2012 17:05	JT
cis-1,3-Dichloropropene	BRL	5.0		ug/L	160615	1	04/27/2012 17:05	JT
Cyclohexane	BRL	5.0		ug/L	160615	1	04/27/2012 17:05	JT
Dibromochloromethane	BRL	5.0		ug/L	160615	1	04/27/2012 17:05	JT
Dichlorodifluoromethane	BRL	10		ug/L	160615	1	04/27/2012 17:05	JT
Ethylbenzene	BRL	5.0		ug/L	160615	1	04/27/2012 17:05	JT
Freon-113	BRL	10		ug/L	160615	1	04/27/2012 17:05	JT
Isopropylbenzene	BRL	5.0		ug/L	160615	1	04/27/2012 17:05	JT
m,p-Xylene	BRL	5.0		ug/L	160615	1	04/27/2012 17:05	JT
Methyl acetate	BRL	5.0		ug/L	160615	1	04/27/2012 17:05	JT
Methyl tert-butyl ether	BRL	5.0		ug/L	160615	1	04/27/2012 17:05	JT
Methylcyclohexane	BRL	5.0		ug/L	160615	1	04/27/2012 17:05	JT
Methylene chloride	BRL	5.0		ug/L	160615	1	04/27/2012 17:05	JT
o-Xylene	BRL	5.0		ug/L	160615	1	04/27/2012 17:05	JT

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:** 27-Apr-12

Client:	Environmental Management Associates, LLC	**Client Sample ID:**	TRIP BLANK
Project Name:	Professional Cleaners	**Collection Date:**	4/23/2012
Lab ID:	1204G93-009	**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	160615	1	04/27/2012 17:05	JT
Tetrachloroethene	BRL	5.0		ug/L	160615	1	04/27/2012 17:05	JT
Toluene	BRL	5.0		ug/L	160615	1	04/27/2012 17:05	JT
trans-1,2-Dichloroethene	BRL	5.0		ug/L	160615	1	04/27/2012 17:05	JT
trans-1,3-Dichloropropene	BRL	5.0		ug/L	160615	1	04/27/2012 17:05	JT
Trichloroethene	BRL	5.0		ug/L	160615	1	04/27/2012 17:05	JT
Trichlorofluoromethane	BRL	5.0		ug/L	160615	1	04/27/2012 17:05	JT
Vinyl chloride	BRL	2.0		ug/L	160615	1	04/27/2012 17:05	JT
Surr: 4-Bromofluorobenzene	94	67.4-123		%REC	160615	1	04/27/2012 17:05	JT
Surr: Dibromofluoromethane	97.6	75.5-128		%REC	160615	1	04/27/2012 17:05	JT
Surr: Toluene-d8	101	70-120		%REC	160615	1	04/27/2012 17:05	JT

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 EMA / BC Work Order Number 1204G93

Checklist completed by Phi 4/23/12
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? (4°C±2)* Yes ✓ No __

Cooler #1 3.0°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 PT

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.

\L\Quality Assurance\Checklists Procedures Sign-Off Templates\Checklists\Sample Receipt Checklists\Sample_Cooler_Receipt_Checklist

Client: Environmental Management Associates, LLC
Project: Professional Cleaners
Lab Order: 1204G93

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1204G93-001A	MW-1	4/23/2012 10:54:00AM	Groundwater	TCL VOLATILE ORGANICS		04/24/2012	04/26/2012
1204G93-001B	MW-1	4/23/2012 10:54:00AM	Groundwater	TOTAL METALS BY ICP		04/24/2012	04/24/2012
1204G93-001C	MW-1	4/23/2012 10:54:00AM	Groundwater	Hexavalent Chromium			04/23/2012
1204G93-001C	MW-1	4/23/2012 10:54:00AM	Groundwater	ION SCAN			04/25/2012
1204G93-002A	MW-2	4/23/2012 8:35:00AM	Groundwater	TOTAL METALS BY ICP		04/24/2012	04/24/2012
1204G93-002B	MW-2	4/23/2012 8:35:00AM	Groundwater	Hexavalent Chromium			04/23/2012
1204G93-002B	MW-2	4/23/2012 8:35:00AM	Groundwater	ION SCAN			04/25/2012
1204G93-003A	MW-3	4/23/2012 11:38:00AM	Groundwater	TCL VOLATILE ORGANICS		04/24/2012	04/26/2012
1204G93-003B	MW-3	4/23/2012 11:38:00AM	Groundwater	TOTAL METALS BY ICP		04/24/2012	04/25/2012
1204G93-003C	MW-3	4/23/2012 11:38:00AM	Groundwater	Hexavalent Chromium			04/23/2012
1204G93-003C	MW-3	4/23/2012 11:38:00AM	Groundwater	ION SCAN			04/25/2012
1204G93-004A	MW-4	4/23/2012 9:42:00AM	Groundwater	TCL VOLATILE ORGANICS		04/24/2012	04/27/2012
1204G93-004B	MW-4	4/23/2012 9:42:00AM	Groundwater	TOTAL METALS BY ICP		04/24/2012	04/25/2012
1204G93-004C	MW-4	4/23/2012 9:42:00AM	Groundwater	Hexavalent Chromium			04/23/2012
1204G93-004C	MW-4	4/23/2012 9:42:00AM	Groundwater	ION SCAN			04/25/2012
1204G93-005A	MW-5	4/23/2012 10:43:00AM	Groundwater	TOTAL METALS BY ICP		04/24/2012	04/25/2012
1204G93-005B	MW-5	4/23/2012 10:43:00AM	Groundwater	Hexavalent Chromium			04/23/2012
1204G93-005B	MW-5	4/23/2012 10:43:00AM	Groundwater	ION SCAN			04/25/2012
1204G93-006A	MW-6	4/23/2012 9:17:00AM	Groundwater	TOTAL METALS BY ICP		04/24/2012	04/25/2012
1204G93-006B	MW-6	4/23/2012 9:17:00AM	Groundwater	Hexavalent Chromium			04/23/2012
1204G93-006B	MW-6	4/23/2012 9:17:00AM	Groundwater	ION SCAN			04/25/2012
1204G93-007A	MW-7	4/23/2012 8:42:00AM	Groundwater	TOTAL METALS BY ICP		04/24/2012	04/25/2012
1204G93-007B	MW-7	4/23/2012 8:42:00AM	Groundwater	Hexavalent Chromium			04/23/2012
1204G93-007B	MW-7	4/23/2012 8:42:00AM	Groundwater	ION SCAN			04/25/2012
1204G93-008A	DUP	4/23/2012 12:00:00AM	Groundwater	TCL VOLATILE ORGANICS		04/24/2012	04/27/2012
1204G93-008B	DUP	4/23/2012 12:00:00AM	Groundwater	TOTAL METALS BY ICP		04/24/2012	04/25/2012
1204G93-008C	DUP	4/23/2012 12:00:00AM	Groundwater	ION SCAN			04/25/2012
1204G93-009A	TRIP BLANK	4/23/2012 12:00:00AM	Aqueous	TCL VOLATILE ORGANICS		04/24/2012	04/27/2012

Client: Environmental Management Associates, LLC
Project Name: Professional Cleaners
Workorder: 1204G93

ANALYTICAL QC SUMMARY REPORT

BatchID: 160569

Sample ID: **MB-160569** Client ID: Units: **mg/L** Prep Date: **04/24/2012** Run No: **219930**
SampleType: **MBLK** TestCode: **METALS, TOTAL SW6010C** BatchID: **160569** Analysis Date: **04/24/2012** Seq No: **4598904**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	BRL	0.0500	0	0	0	0	0	0	0	0	
Barium	BRL	0.0200	0	0	0	0	0	0	0	0	
Cadmium	BRL	0.0050	0	0	0	0	0	0	0	0	
Chromium	BRL	0.0100	0	0	0	0	0	0	0	0	
Copper	BRL	0.0100	0	0	0	0	0	0	0	0	
Iron	BRL	0.100	0	0	0	0	0	0	0	0	
Lead	BRL	0.0100	0	0	0	0	0	0	0	0	
Manganese	BRL	0.0150	0	0	0	0	0	0	0	0	
Selenium	BRL	0.0200	0	0	0	0	0	0	0	0	

Sample ID: **LCS-160569** Client ID: Units: **mg/L** Prep Date: **04/24/2012** Run No: **219930**
SampleType: **LCS** TestCode: **METALS, TOTAL SW6010C** BatchID: **160569** Analysis Date: **04/24/2012** Seq No: **4598898**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	1.029	0.0500	1	0	103	80	120	0	0	0	
Barium	1.025	0.0200	1	0	103	80	120	0	0	0	
Cadmium	1.034	0.0050	1	0.0006257	103	80	120	0	0	0	
Chromium	1.034	0.0100	1	0	103	80	120	0	0	0	
Copper	1.027	0.0100	1	0	103	80	120	0	0	0	
Iron	10.32	0.100	10	0	103	80	120	0	0	0	
Lead	1.026	0.0100	1	0	103	80	120	0	0	0	
Manganese	1.032	0.0150	1	0	103	80	120	0	0	0	
Selenium	1.048	0.0200	1	0	105	80	120	0	0	0	

Sample ID: **1204G93-001BMS** Client ID: **MW-1** Units: **mg/L** Prep Date: **04/24/2012** Run No: **219930**
SampleType: **MS** TestCode: **METALS, TOTAL SW6010C** BatchID: **160569** Analysis Date: **04/24/2012** Seq No: **4598914**

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

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: Environmental Management Associates, LLC
Project Name: Professional Cleaners
Workorder: 1204G93

ANALYTICAL QC SUMMARY REPORT

BatchID: **160569**

Sample ID: **1204G93-001BMS** Client ID: **MW-1** Units: **mg/L** Prep Date: **04/24/2012** Run No: **219930**
SampleType: **MS** TestCode: **METALS, TOTAL** **SW6010C** BatchID: **160569** Analysis Date: **04/24/2012** Seq No: **4598914**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	1.034	0.0500	1	0	103	75	125	0	0	0	
Barium	1.123	0.0200	1	0.1060	102	75	125	0	0	0	
Cadmium	1.032	0.0050	1	0	103	75	125	0	0	0	
Chromium	1.051	0.0100	1	0.0008068	105	75	125	0	0	0	
Copper	1.028	0.0100	1	0.002073	103	75	125	0	0	0	
Iron	13.19	0.100	10	2.884	103	75	125	0	0	0	
Lead	1.032	0.0100	1	0	103	75	125	0	0	0	
Manganese	2.644	0.0150	1	1.785	85.9	75	125	0	0	0	
Selenium	1.051	0.0200	1	0	105	75	125	0	0	0	

Sample ID: **1204G93-001BMSD** Client ID: **MW-1** Units: **mg/L** Prep Date: **04/24/2012** Run No: **219930**
SampleType: **MSD** TestCode: **METALS, TOTAL** **SW6010C** BatchID: **160569** Analysis Date: **04/24/2012** Seq No: **4598919**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	1.037	0.0500	1	0	104	75	125	1.034	0.277	20	
Barium	1.122	0.0200	1	0.1060	102	75	125	1.123	0.141	20	
Cadmium	1.028	0.0050	1	0	103	75	125	1.032	0.37	20	
Chromium	1.045	0.0100	1	0.0008068	104	75	125	1.051	0.516	20	
Copper	1.027	0.0100	1	0.002073	103	75	125	1.028	0.041	20	
Iron	13.12	0.100	10	2.884	102	75	125	13.19	0.569	20	
Lead	1.029	0.0100	1	0	103	75	125	1.032	0.279	20	
Manganese	2.678	0.0150	1	1.785	89.3	75	125	2.644	1.27	20	
Selenium	1.053	0.0200	1	0	105	75	125	1.051	0.162	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: Environmental Management Associates, LLC
Project Name: Professional Cleaners
Workorder: 1204G93

ANALYTICAL QC SUMMARY REPORT

BatchID: **160615**

Sample ID: **MB-160615** Client ID: Units: **ug/L** Prep Date: **04/24/2012** Run No: **219782**
SampleType: **MBLK** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **160615** Analysis Date: **04/24/2012** Seq No: **4596863**

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	0	0	0	0	0	0	0	0	
1,1,2,2-Tetrachloroethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,1,2-Trichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,1-Dichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,1-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
1,2,4-Trichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	
1,2-Dibromo-3-chloropropane	BRL	5.0	0	0	0	0	0	0	0	0	
1,2-Dibromoethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,2-Dichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	
1,2-Dichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,2-Dichloropropane	BRL	5.0	0	0	0	0	0	0	0	0	
1,3-Dichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	
1,4-Dichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	
2-Butanone	BRL	50	0	0	0	0	0	0	0	0	
2-Hexanone	BRL	10	0	0	0	0	0	0	0	0	
4-Methyl-2-pentanone	BRL	10	0	0	0	0	0	0	0	0	
Acetone	BRL	50	0	0	0	0	0	0	0	0	
Benzene	BRL	5.0	0	0	0	0	0	0	0	0	
Bromodichloromethane	BRL	5.0	0	0	0	0	0	0	0	0	
Bromoform	BRL	5.0	0	0	0	0	0	0	0	0	
Bromomethane	BRL	5.0	0	0	0	0	0	0	0	0	
Carbon disulfide	BRL	5.0	0	0	0	0	0	0	0	0	
Carbon tetrachloride	BRL	5.0	0	0	0	0	0	0	0	0	
Chlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	
Chloroethane	BRL	10	0	0	0	0	0	0	0	0	
Chloroform	BRL	5.0	0	0	0	0	0	0	0	0	
Chloromethane	BRL	10	0	0	0	0	0	0	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: Environmental Management Associates, LLC
Project Name: Professional Cleaners
Workorder: 1204G93

ANALYTICAL QC SUMMARY REPORT

BatchID: **160615**

Sample ID: **MB-160615** Client ID: Units: **ug/L** Prep Date: **04/24/2012** Run No: **219782**
SampleType: **MBLK** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **160615** Analysis Date: **04/24/2012** Seq No: **4596863**

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	0	0	0	0	0	0	0	0	
cis-1,3-Dichloropropene	BRL	5.0	0	0	0	0	0	0	0	0	
Cyclohexane	BRL	5.0	0	0	0	0	0	0	0	0	
Dibromochloromethane	BRL	5.0	0	0	0	0	0	0	0	0	
Dichlorodifluoromethane	BRL	10	0	0	0	0	0	0	0	0	
Ethylbenzene	BRL	5.0	0	0	0	0	0	0	0	0	
Freon-113	BRL	10	0	0	0	0	0	0	0	0	
Isopropylbenzene	BRL	5.0	0	0	0	0	0	0	0	0	
m,p-Xylene	BRL	5.0	0	0	0	0	0	0	0	0	
Methyl acetate	BRL	5.0	0	0	0	0	0	0	0	0	
Methyl tert-butyl ether	BRL	5.0	0	0	0	0	0	0	0	0	
Methylcyclohexane	BRL	5.0	0	0	0	0	0	0	0	0	
Methylene chloride	BRL	5.0	0	0	0	0	0	0	0	0	
o-Xylene	BRL	5.0	0	0	0	0	0	0	0	0	
Styrene	BRL	5.0	0	0	0	0	0	0	0	0	
Tetrachloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
Toluene	BRL	5.0	0	0	0	0	0	0	0	0	
trans-1,2-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
trans-1,3-Dichloropropene	BRL	5.0	0	0	0	0	0	0	0	0	
Trichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
Trichlorofluoromethane	BRL	5.0	0	0	0	0	0	0	0	0	
Vinyl chloride	BRL	2.0	0	0	0	0	0	0	0	0	
Surr: 4-Bromofluorobenzene	44.73	0	50	0	89.5	67.4	123	0	0	0	
Surr: Dibromofluoromethane	54.67	0	50	0	109	75.5	128	0	0	0	
Surr: Toluene-d8	43.38	0	50	0	86.8	70	120	0	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: Environmental Management Associates, LLC
Project Name: Professional Cleaners
Workorder: 1204G93

ANALYTICAL QC SUMMARY REPORT

BatchID: 160615

Sample ID: **LCS-160615** Client ID: Units: **ug/L** Prep Date: **04/24/2012** Run No: **219782**
SampleType: **LCS** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **160615** Analysis Date: **04/24/2012** Seq No: **4596848**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	51.01	5.0	50	0	102	60	140	0	0	0	
Benzene	52.54	5.0	50	0	105	70	130	0	0	0	
Chlorobenzene	54.20	5.0	50	0	108	70	130	0	0	0	
Toluene	52.05	5.0	50	0	104	70	130	0	0	0	
Trichloroethene	56.47	5.0	50	0	113	70	130	0	0	0	
Surr: 4-Bromofluorobenzene	58.07	0	50	0	116	67.4	123	0	0	0	
Surr: Dibromofluoromethane	59.13	0	50	0	118	75.5	128	0	0	0	
Surr: Toluene-d8	50.16	0	50	0	100	70	120	0	0	0	

Sample ID: **1204H07-005AMS** Client ID: Units: **ug/L** Prep Date: **04/24/2012** Run No: **219852**
SampleType: **MS** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **160615** Analysis Date: **04/25/2012** Seq No: **4597069**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	62.06	5.0	50	0	124	50.1	179	0	0	0	
Benzene	58.83	5.0	50	0	118	61.2	150	0	0	0	
Chlorobenzene	60.20	5.0	50	0	120	72.1	140	0	0	0	
Toluene	55.78	5.0	50	0	112	58.7	154	0	0	0	
Trichloroethene	114.0	5.0	50	62.97	102	68.3	149	0	0	0	
Surr: 4-Bromofluorobenzene	53.46	0	50	0	107	67.4	123	0	0	0	
Surr: Dibromofluoromethane	55.17	0	50	0	110	75.5	128	0	0	0	
Surr: Toluene-d8	46.27	0	50	0	92.5	70	120	0	0	0	

Sample ID: **1204H07-005AMSD** Client ID: Units: **ug/L** Prep Date: **04/24/2012** Run No: **219852**
SampleType: **MSD** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **160615** Analysis Date: **04/25/2012** Seq No: **4597088**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	55.90	5.0	50	0	112	50.1	179	62.06	10.4	23.3	
Benzene	51.90	5.0	50	0	104	61.2	150	58.83	12.5	19	

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: Environmental Management Associates, LLC
Project Name: Professional Cleaners
Workorder: 1204G93

ANALYTICAL QC SUMMARY REPORT

BatchID: **160615**

Sample ID: **1204H07-005AMSD** Client ID: Units: **ug/L** Prep Date: **04/24/2012** Run No: **219852**
SampleType: **MSD** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **160615** Analysis Date: **04/25/2012** Seq No: **4597088**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorobenzene	52.48	5.0	50	0	105	72.1	140	60.20	13.7	21.5	
Toluene	47.90	5.0	50	0	95.8	58.7	154	55.78	15.2	20	
Trichloroethene	98.47	5.0	50	62.97	71	68.3	149	114.0	14.6	17.7	
Surr: 4-Bromofluorobenzene	53.35	0	50	0	107	67.4	123	53.46	0	0	
Surr: Dibromofluoromethane	55.72	0	50	0	111	75.5	128	55.17	0	0	
Surr: Toluene-d8	45.11	0	50	0	90.2	70	120	46.27	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: Environmental Management Associates, LLC
Project Name: Professional Cleaners
Workorder: 1204G93

ANALYTICAL QC SUMMARY REPORT

BatchID: **R220003**

Sample ID: **MB-R220003** Client ID: Units: **mg/L** Prep Date: Run No: **220003**
SampleType: **MBLK** TestCode: **ION SCAN SW9056A** BatchID: **R220003** Analysis Date: **04/25/2012** Seq No: **4600285**

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	0	0	0	0	0	0	0	0	

Sample ID: **LCS-R220003** Client ID: Units: **mg/L** Prep Date: Run No: **220003**
SampleType: **LCS** TestCode: **ION SCAN SW9056A** BatchID: **R220003** Analysis Date: **04/25/2012** Seq No: **4600284**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	9.120	1.0	10	0	91.2	90	110	0	0	0	

Sample ID: **1204I09-004EMS** Client ID: Units: **mg/L** Prep Date: Run No: **220003**
SampleType: **MS** TestCode: **ION SCAN SW9056A** BatchID: **R220003** Analysis Date: **04/25/2012** Seq No: **4600287**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	102.6	10	100	10.15	92.5	90	110	0	0	0	

Sample ID: **1204I72-004CMS** Client ID: Units: **mg/L** Prep Date: Run No: **220003**
SampleType: **MS** TestCode: **ION SCAN SW9056A** BatchID: **R220003** Analysis Date: **04/26/2012** Seq No: **4601813**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	101.3	10	100	6.333	94.9	90	110	0	0	0	

Sample ID: **1204I09-004EMSD** Client ID: Units: **mg/L** Prep Date: Run No: **220003**
SampleType: **MSD** TestCode: **ION SCAN SW9056A** BatchID: **R220003** Analysis Date: **04/25/2012** Seq No: **4600288**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	102.9	10	100	10.15	92.7	90	110	102.6	0.244	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: Environmental Management Associates, LLC
Project Name: Professional Cleaners
Workorder: 1204G93

ANALYTICAL QC SUMMARY REPORT

BatchID: R220021

Sample ID: **MB-R220021** Client ID: Units: **mg/L** Prep Date: Run No: **220021**
SampleType: **MBLK** TestCode: **Hexavalent Chromium in Water SW7196** BatchID: **R220021** Analysis Date: **04/23/2012** Seq No: **4600623**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chromium, Hexavalent	BRL	0.0100	0	0	0	0	0	0	0	0	

Sample ID: **LCS-R220021** Client ID: Units: **mg/L** Prep Date: Run No: **220021**
SampleType: **LCS** TestCode: **Hexavalent Chromium in Water SW7196** BatchID: **R220021** Analysis Date: **04/23/2012** Seq No: **4600624**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chromium, Hexavalent	0.5102	0.0100	0.5	0	102	90	110	0	0	0	

Sample ID: **1204G93-007BMS** Client ID: **MW-7** Units: **mg/L** Prep Date: Run No: **220021**
SampleType: **MS** TestCode: **Hexavalent Chromium in Water SW7196** BatchID: **R220021** Analysis Date: **04/23/2012** Seq No: **4600634**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chromium, Hexavalent	0.5108	0.0100	0.5	0	102	85	115	0	0	0	

Sample ID: **1204G93-007BMSD** Client ID: **MW-7** Units: **mg/L** Prep Date: Run No: **220021**
SampleType: **MSD** TestCode: **Hexavalent Chromium in Water SW7196** BatchID: **R220021** Analysis Date: **04/23/2012** Seq No: **4600636**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chromium, Hexavalent	0.5120	0.0100	0.5	0	102	85	115	0.5108	0.235	20	

Qualifiers:

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

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

AES

July 31, 2012

Brent Cortelloni
Environmental Management Associates, LLC
5262 Belle Wood Court
Buford Georgi30518

TEL: (770) 271-4628
FAX: (770) 271-8944

RE: Professional Cleaners

Dear Brent Cortelloni: Order No: 1207F72

Analytical Environmental Services, Inc. received 9 samples on 7/24/2012 11:30:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.
AES' certifications are as follows:
-NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/12-06/30/13.
-AIHA Certification ID #100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/13.

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.

Mirzeta Kararic

Mirzeta Kararic
Project Manager

ANALYTICAL ENVIRONMENTAL SERVICES, INC
3785 Presidential Parkway, Atlanta GA 30340-3704
AES TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1207F72

Date: _____ Page _____ of _____

COMPANY: EMA/BC

ADDRESS:

PHONE:

FAX:

SAMPLED BY: B. Cordellum / J Schuller

SIGNATURE: B.

ANALYSIS REQUESTED: TCL VOC; Chlorinity; Select metals; Hex - Chromium

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

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	TCL VOC	Chlorinity	Select metals	Hex - Chromium	No # of Containers	REMARKS (metals)
1	MW-1	7-24-12	955	X		GW	X	X	X	X		Arsenic
2	2		1105									Barium
3	3		1115									Cadmium
4	4		1015									Cr
5	5		925									Copper
6	6		1040									iron
7	7		1035									Lead
8	Dup		—									Mn
9	Trip Blk.											Selenium
10												
11												
12												
13												
14												

PRESERVATION (See codes)

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
1:	7/24/12 1130	1:	7/24/12 11:30
2:		2:	
3:		3:	

PROJECT INFORMATION
PROJECT NAME: Professional Cleaners
PROJECT #: 559
SITE ADDRESS:
SEND REPORT TO:
INVOICE TO: (IF DIFFERENT FROM ABOVE)
QUOTE #: _____ PO#: _____

RECEIPT
Total # of Containers

Turnaround Time Request
- (X) 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:

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

Client: Environmental Management Associates, LLC
Project: Professional Cleaners
Lab ID: 1207F72

Case Narrative

Sample Receiving Nonconformance:

Samples [1207F72-001B/002B/007B] as received did not meet method specified pH range for the requested test method. No attempt to further adjust the pH was made due to sample matrix.

Ion Chromatography Analysis by Method 9056:

Due to sample matrix, samples 1207F72-001C, -002C, and -007C required a dilution during preparation and/or analysis resulting in elevated reporting limits.

Volatile Organic Compounds Analysis by Method 8260B:

Samples 1207F72-001A & -007A as received did not meet method specified preservation requirements of pH <2.

Percent recovery for the internal standard compound 1,4-Dichlorobenzene-d4 on sample 1207F72-001A was outside control limits biased low due to suspected matrix interference.

Analytical Environmental Services, Inc

Date: 31-Jul-12

Client:	Environmental Management Associates, LLC	**Client Sample ID:**	MW-1
Project Name:	Professional Cleaners	**Collection Date:**	7/24/2012 9:55:00 AM
Lab ID:	1207F72-001	**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	164420	1	07/28/2012 13:55	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	164420	1	07/28/2012 13:55	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	164420	1	07/28/2012 13:55	NP
1,1-Dichloroethane	BRL	5.0		ug/L	164420	1	07/28/2012 13:55	NP
1,1-Dichloroethene	BRL	5.0		ug/L	164420	1	07/28/2012 13:55	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	164420	1	07/28/2012 13:55	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	164420	1	07/28/2012 13:55	NP
1,2-Dibromoethane	BRL	5.0		ug/L	164420	1	07/28/2012 13:55	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	164420	1	07/28/2012 13:55	NP
1,2-Dichloroethane	BRL	5.0		ug/L	164420	1	07/28/2012 13:55	NP
1,2-Dichloropropane	BRL	5.0		ug/L	164420	1	07/28/2012 13:55	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	164420	1	07/28/2012 13:55	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	164420	1	07/28/2012 13:55	NP
2-Butanone	BRL	50		ug/L	164420	1	07/28/2012 13:55	NP
2-Hexanone	BRL	10		ug/L	164420	1	07/28/2012 13:55	NP
4-Methyl-2-pentanone	BRL	10		ug/L	164420	1	07/28/2012 13:55	NP
Acetone	BRL	50		ug/L	164420	1	07/28/2012 13:55	NP
Benzene	BRL	5.0		ug/L	164420	1	07/28/2012 13:55	NP
Bromodichloromethane	BRL	5.0		ug/L	164420	1	07/28/2012 13:55	NP
Bromoform	BRL	5.0		ug/L	164420	1	07/28/2012 13:55	NP
Bromomethane	BRL	5.0		ug/L	164420	1	07/28/2012 13:55	NP
Carbon disulfide	BRL	5.0		ug/L	164420	1	07/28/2012 13:55	NP
Carbon tetrachloride	BRL	5.0		ug/L	164420	1	07/28/2012 13:55	NP
Chlorobenzene	BRL	5.0		ug/L	164420	1	07/28/2012 13:55	NP
Chloroethane	BRL	10		ug/L	164420	1	07/28/2012 13:55	NP
Chloroform	BRL	5.0		ug/L	164420	1	07/28/2012 13:55	NP
Chloromethane	BRL	10		ug/L	164420	1	07/28/2012 13:55	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	164420	1	07/28/2012 13:55	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	164420	1	07/28/2012 13:55	NP
Cyclohexane	BRL	5.0		ug/L	164420	1	07/28/2012 13:55	NP
Dibromochloromethane	BRL	5.0		ug/L	164420	1	07/28/2012 13:55	NP
Dichlorodifluoromethane	BRL	10		ug/L	164420	1	07/28/2012 13:55	NP
Ethylbenzene	BRL	5.0		ug/L	164420	1	07/28/2012 13:55	NP
Freon-113	BRL	10		ug/L	164420	1	07/28/2012 13:55	NP
Isopropylbenzene	BRL	5.0		ug/L	164420	1	07/28/2012 13:55	NP
m,p-Xylene	BRL	5.0		ug/L	164420	1	07/28/2012 13:55	NP
Methyl acetate	BRL	5.0		ug/L	164420	1	07/28/2012 13:55	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	164420	1	07/28/2012 13:55	NP
Methylcyclohexane	BRL	5.0		ug/L	164420	1	07/28/2012 13:55	NP
Methylene chloride	BRL	5.0		ug/L	164420	1	07/28/2012 13:55	NP
o-Xylene	BRL	5.0		ug/L	164420	1	07/28/2012 13:55	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:** 31-Jul-12

Client:	Environmental Management Associates, LLC	**Client Sample ID:**	MW-1
Project Name:	Professional Cleaners	**Collection Date:**	7/24/2012 9:55:00 AM
Lab ID:	1207F72-001	**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	164420	1	07/28/2012 13:55	NP
Tetrachloroethene	46	5.0		ug/L	164420	1	07/28/2012 13:55	NP
Toluene	BRL	5.0		ug/L	164420	1	07/28/2012 13:55	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	164420	1	07/28/2012 13:55	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	164420	1	07/28/2012 13:55	NP
Trichloroethene	BRL	5.0		ug/L	164420	1	07/28/2012 13:55	NP
Trichlorofluoromethane	BRL	5.0		ug/L	164420	1	07/28/2012 13:55	NP
Vinyl chloride	BRL	2.0		ug/L	164420	1	07/28/2012 13:55	NP
Surr: 4-Bromofluorobenzene	84.3	67.4-123		%REC	164420	1	07/28/2012 13:55	NP
Surr: Dibromofluoromethane	109	75.5-128		%REC	164420	1	07/28/2012 13:55	NP
Surr: Toluene-d8	90.4	70-120		%REC	164420	1	07/28/2012 13:55	NP
ION SCAN SW9056A								
Chloride	BRL	500		mg/L	R225695	500	07/24/2012 15:05	GR
Hexavalent Chromium in Water SW7196								
Chromium, Hexavalent	0.0619	0.0100		mg/L	R225999	1	07/25/2012 09:01	CG
METALS, TOTAL SW6010C					**(SW3010A)**			
Arsenic	BRL	0.0500		mg/L	164193	1	07/25/2012 18:32	MR
Barium	BRL	0.0200		mg/L	164193	1	07/25/2012 18:32	MR
Cadmium	BRL	0.0050		mg/L	164193	1	07/25/2012 18:32	MR
Chromium	0.182	0.0100		mg/L	164193	1	07/25/2012 18:32	MR
Copper	BRL	0.0100		mg/L	164193	1	07/25/2012 18:32	MR
Iron	1.06	0.100		mg/L	164193	1	07/25/2012 18:32	MR
Lead	BRL	0.0100		mg/L	164193	1	07/25/2012 18:32	MR
Manganese	0.556	0.0150		mg/L	164193	1	07/25/2012 18:32	MR
Selenium	BRL	0.0200		mg/L	164193	1	07/26/2012 12:26	MR

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:** 31-Jul-12

Client:	Environmental Management Associates, LLC	**Client Sample ID:**	MW-2
Project Name:	Professional Cleaners	**Collection Date:**	7/24/2012 11:05:00 AM
Lab ID:	1207F72-002	**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	164420	1	07/27/2012 22:00	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	164420	1	07/27/2012 22:00	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	164420	1	07/27/2012 22:00	NP
1,1-Dichloroethane	BRL	5.0		ug/L	164420	1	07/27/2012 22:00	NP
1,1-Dichloroethene	BRL	5.0		ug/L	164420	1	07/27/2012 22:00	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	164420	1	07/27/2012 22:00	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	164420	1	07/27/2012 22:00	NP
1,2-Dibromoethane	BRL	5.0		ug/L	164420	1	07/27/2012 22:00	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	164420	1	07/27/2012 22:00	NP
1,2-Dichloroethane	BRL	5.0		ug/L	164420	1	07/27/2012 22:00	NP
1,2-Dichloropropane	BRL	5.0		ug/L	164420	1	07/27/2012 22:00	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	164420	1	07/27/2012 22:00	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	164420	1	07/27/2012 22:00	NP
2-Butanone	BRL	50		ug/L	164420	1	07/27/2012 22:00	NP
2-Hexanone	BRL	10		ug/L	164420	1	07/27/2012 22:00	NP
4-Methyl-2-pentanone	BRL	10		ug/L	164420	1	07/27/2012 22:00	NP
Acetone	60	50		ug/L	164420	1	07/27/2012 22:00	NP
Benzene	BRL	5.0		ug/L	164420	1	07/27/2012 22:00	NP
Bromodichloromethane	BRL	5.0		ug/L	164420	1	07/27/2012 22:00	NP
Bromoform	BRL	5.0		ug/L	164420	1	07/27/2012 22:00	NP
Bromomethane	BRL	5.0		ug/L	164420	1	07/27/2012 22:00	NP
Carbon disulfide	BRL	5.0		ug/L	164420	1	07/27/2012 22:00	NP
Carbon tetrachloride	BRL	5.0		ug/L	164420	1	07/27/2012 22:00	NP
Chlorobenzene	BRL	5.0		ug/L	164420	1	07/27/2012 22:00	NP
Chloroethane	BRL	10		ug/L	164420	1	07/27/2012 22:00	NP
Chloroform	BRL	5.0		ug/L	164420	1	07/27/2012 22:00	NP
Chloromethane	BRL	10		ug/L	164420	1	07/27/2012 22:00	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	164420	1	07/27/2012 22:00	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	164420	1	07/27/2012 22:00	NP
Cyclohexane	BRL	5.0		ug/L	164420	1	07/27/2012 22:00	NP
Dibromochloromethane	BRL	5.0		ug/L	164420	1	07/27/2012 22:00	NP
Dichlorodifluoromethane	BRL	10		ug/L	164420	1	07/27/2012 22:00	NP
Ethylbenzene	BRL	5.0		ug/L	164420	1	07/27/2012 22:00	NP
Freon-113	BRL	10		ug/L	164420	1	07/27/2012 22:00	NP
Isopropylbenzene	BRL	5.0		ug/L	164420	1	07/27/2012 22:00	NP
m,p-Xylene	BRL	5.0		ug/L	164420	1	07/27/2012 22:00	NP
Methyl acetate	BRL	5.0		ug/L	164420	1	07/27/2012 22:00	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	164420	1	07/27/2012 22:00	NP
Methylcyclohexane	BRL	5.0		ug/L	164420	1	07/27/2012 22:00	NP
Methylene chloride	BRL	5.0		ug/L	164420	1	07/27/2012 22:00	NP
o-Xylene	BRL	5.0		ug/L	164420	1	07/27/2012 22:00	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: 31-Jul-12

Client:	Environmental Management Associates, LLC	**Client Sample ID:**	MW-2
Project Name:	Professional Cleaners	**Collection Date:**	7/24/2012 11:05:00 AM
Lab ID:	1207F72-002	**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	164420	1	07/27/2012 22:00	NP
Tetrachloroethene	41	5.0		ug/L	164420	1	07/27/2012 22:00	NP
Toluene	BRL	5.0		ug/L	164420	1	07/27/2012 22:00	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	164420	1	07/27/2012 22:00	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	164420	1	07/27/2012 22:00	NP
Trichloroethene	BRL	5.0		ug/L	164420	1	07/27/2012 22:00	NP
Trichlorofluoromethane	BRL	5.0		ug/L	164420	1	07/27/2012 22:00	NP
Vinyl chloride	BRL	2.0		ug/L	164420	1	07/27/2012 22:00	NP
Surr: 4-Bromofluorobenzene	85	67.4-123		%REC	164420	1	07/27/2012 22:00	NP
Surr: Dibromofluoromethane	111	75.5-128		%REC	164420	1	07/27/2012 22:00	NP
Surr: Toluene-d8	81.8	70-120		%REC	164420	1	07/27/2012 22:00	NP
ION SCAN SW9056A								
Chloride	BRL	50		mg/L	R225695	50	07/24/2012 15:20	GR
Hexavalent Chromium in Water SW7196								
Chromium, Hexavalent	0.0347	0.0100		mg/L	R225999	1	07/25/2012 09:01	CG
METALS, TOTAL SW6010C					**(SW3010A)**			
Arsenic	BRL	0.0500		mg/L	164193	1	07/25/2012 18:46	MR
Barium	BRL	0.0200		mg/L	164193	1	07/25/2012 18:46	MR
Cadmium	BRL	0.0050		mg/L	164193	1	07/25/2012 18:46	MR
Chromium	0.0257	0.0100		mg/L	164193	1	07/25/2012 18:46	MR
Copper	BRL	0.0100		mg/L	164193	1	07/25/2012 18:46	MR
Iron	0.476	0.100		mg/L	164193	1	07/25/2012 18:46	MR
Lead	BRL	0.0100		mg/L	164193	1	07/25/2012 18:46	MR
Manganese	BRL	0.0150		mg/L	164193	1	07/25/2012 18:46	MR
Selenium	BRL	0.0200		mg/L	164193	1	07/25/2012 18:46	MR

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: 31-Jul-12

Client:	Environmental Management Associates, LLC	**Client Sample ID:**	MW-3
Project Name:	Professional Cleaners	**Collection Date:**	7/24/2012 11:15:00 AM
Lab ID:	1207F72-003	**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	164420	1	07/27/2012 22:29	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	164420	1	07/27/2012 22:29	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	164420	1	07/27/2012 22:29	NP
1,1-Dichloroethane	BRL	5.0		ug/L	164420	1	07/27/2012 22:29	NP
1,1-Dichloroethene	BRL	5.0		ug/L	164420	1	07/27/2012 22:29	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	164420	1	07/27/2012 22:29	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	164420	1	07/27/2012 22:29	NP
1,2-Dibromoethane	BRL	5.0		ug/L	164420	1	07/27/2012 22:29	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	164420	1	07/27/2012 22:29	NP
1,2-Dichloroethane	BRL	5.0		ug/L	164420	1	07/27/2012 22:29	NP
1,2-Dichloropropane	BRL	5.0		ug/L	164420	1	07/27/2012 22:29	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	164420	1	07/27/2012 22:29	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	164420	1	07/27/2012 22:29	NP
2-Butanone	BRL	50		ug/L	164420	1	07/27/2012 22:29	NP
2-Hexanone	BRL	10		ug/L	164420	1	07/27/2012 22:29	NP
4-Methyl-2-pentanone	BRL	10		ug/L	164420	1	07/27/2012 22:29	NP
Acetone	BRL	50		ug/L	164420	1	07/27/2012 22:29	NP
Benzene	BRL	5.0		ug/L	164420	1	07/27/2012 22:29	NP
Bromodichloromethane	BRL	5.0		ug/L	164420	1	07/27/2012 22:29	NP
Bromoform	BRL	5.0		ug/L	164420	1	07/27/2012 22:29	NP
Bromomethane	BRL	5.0		ug/L	164420	1	07/27/2012 22:29	NP
Carbon disulfide	BRL	5.0		ug/L	164420	1	07/27/2012 22:29	NP
Carbon tetrachloride	BRL	5.0		ug/L	164420	1	07/27/2012 22:29	NP
Chlorobenzene	BRL	5.0		ug/L	164420	1	07/27/2012 22:29	NP
Chloroethane	BRL	10		ug/L	164420	1	07/27/2012 22:29	NP
Chloroform	BRL	5.0		ug/L	164420	1	07/27/2012 22:29	NP
Chloromethane	BRL	10		ug/L	164420	1	07/27/2012 22:29	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	164420	1	07/27/2012 22:29	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	164420	1	07/27/2012 22:29	NP
Cyclohexane	BRL	5.0		ug/L	164420	1	07/27/2012 22:29	NP
Dibromochloromethane	BRL	5.0		ug/L	164420	1	07/27/2012 22:29	NP
Dichlorodifluoromethane	BRL	10		ug/L	164420	1	07/27/2012 22:29	NP
Ethylbenzene	BRL	5.0		ug/L	164420	1	07/27/2012 22:29	NP
Freon-113	BRL	10		ug/L	164420	1	07/27/2012 22:29	NP
Isopropylbenzene	BRL	5.0		ug/L	164420	1	07/27/2012 22:29	NP
m,p-Xylene	BRL	5.0		ug/L	164420	1	07/27/2012 22:29	NP
Methyl acetate	BRL	5.0		ug/L	164420	1	07/27/2012 22:29	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	164420	1	07/27/2012 22:29	NP
Methylcyclohexane	BRL	5.0		ug/L	164420	1	07/27/2012 22:29	NP
Methylene chloride	BRL	5.0		ug/L	164420	1	07/27/2012 22:29	NP
o-Xylene	BRL	5.0		ug/L	164420	1	07/27/2012 22:29	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: 31-Jul-12

Client:	Environmental Management Associates, LLC	**Client Sample ID:**	MW-3
Project Name:	Professional Cleaners	**Collection Date:**	7/24/2012 11:15:00 AM
Lab ID:	1207F72-003	**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	164420	1	07/27/2012 22:29	NP
Tetrachloroethene	BRL	5.0		ug/L	164420	1	07/27/2012 22:29	NP
Toluene	BRL	5.0		ug/L	164420	1	07/27/2012 22:29	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	164420	1	07/27/2012 22:29	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	164420	1	07/27/2012 22:29	NP
Trichloroethene	BRL	5.0		ug/L	164420	1	07/27/2012 22:29	NP
Trichlorofluoromethane	BRL	5.0		ug/L	164420	1	07/27/2012 22:29	NP
Vinyl chloride	BRL	2.0		ug/L	164420	1	07/27/2012 22:29	NP
Surr: 4-Bromofluorobenzene	78	67.4-123		%REC	164420	1	07/27/2012 22:29	NP
Surr: Dibromofluoromethane	105	75.5-128		%REC	164420	1	07/27/2012 22:29	NP
Surr: Toluene-d8	87.3	70-120		%REC	164420	1	07/27/2012 22:29	NP
ION SCAN SW9056A								
Chloride	6.0	1.0		mg/L	R225695	1	07/24/2012 15:49	GR
Hexavalent Chromium in Water SW7196								
Chromium, Hexavalent	BRL	0.0100		mg/L	R225999	1	07/25/2012 09:01	CG
METALS, TOTAL SW6010C				**(SW3010A)**				
Arsenic	BRL	0.0500		mg/L	164193	1	07/25/2012 18:50	MR
Barium	0.340	0.0200		mg/L	164193	1	07/25/2012 18:50	MR
Cadmium	BRL	0.0050		mg/L	164193	1	07/25/2012 18:50	MR
Chromium	0.0151	0.0100		mg/L	164193	1	07/25/2012 18:50	MR
Copper	BRL	0.0100		mg/L	164193	1	07/25/2012 18:50	MR
Iron	13.8	0.100		mg/L	164193	1	07/25/2012 18:50	MR
Lead	0.0273	0.0100		mg/L	164193	1	07/25/2012 18:50	MR
Manganese	4.25	0.0150		mg/L	164193	1	07/25/2012 18:50	MR
Selenium	BRL	0.0200		mg/L	164193	1	07/25/2012 18:50	MR

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: 31-Jul-12

Client:	Environmental Management Associates, LLC	**Client Sample ID:**	MW-4
Project Name:	Professional Cleaners	**Collection Date:**	7/24/2012 10:15:00 AM
Lab ID:	1207F72-004	**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	164420	1	07/27/2012 22:58	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	164420	1	07/27/2012 22:58	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	164420	1	07/27/2012 22:58	NP
1,1-Dichloroethane	BRL	5.0		ug/L	164420	1	07/27/2012 22:58	NP
1,1-Dichloroethene	BRL	5.0		ug/L	164420	1	07/27/2012 22:58	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	164420	1	07/27/2012 22:58	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	164420	1	07/27/2012 22:58	NP
1,2-Dibromoethane	BRL	5.0		ug/L	164420	1	07/27/2012 22:58	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	164420	1	07/27/2012 22:58	NP
1,2-Dichloroethane	BRL	5.0		ug/L	164420	1	07/27/2012 22:58	NP
1,2-Dichloropropane	BRL	5.0		ug/L	164420	1	07/27/2012 22:58	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	164420	1	07/27/2012 22:58	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	164420	1	07/27/2012 22:58	NP
2-Butanone	BRL	50		ug/L	164420	1	07/27/2012 22:58	NP
2-Hexanone	BRL	10		ug/L	164420	1	07/27/2012 22:58	NP
4-Methyl-2-pentanone	BRL	10		ug/L	164420	1	07/27/2012 22:58	NP
Acetone	BRL	50		ug/L	164420	1	07/27/2012 22:58	NP
Benzene	BRL	5.0		ug/L	164420	1	07/27/2012 22:58	NP
Bromodichloromethane	BRL	5.0		ug/L	164420	1	07/27/2012 22:58	NP
Bromoform	BRL	5.0		ug/L	164420	1	07/27/2012 22:58	NP
Bromomethane	BRL	5.0		ug/L	164420	1	07/27/2012 22:58	NP
Carbon disulfide	BRL	5.0		ug/L	164420	1	07/27/2012 22:58	NP
Carbon tetrachloride	BRL	5.0		ug/L	164420	1	07/27/2012 22:58	NP
Chlorobenzene	BRL	5.0		ug/L	164420	1	07/27/2012 22:58	NP
Chloroethane	BRL	10		ug/L	164420	1	07/27/2012 22:58	NP
Chloroform	BRL	5.0		ug/L	164420	1	07/27/2012 22:58	NP
Chloromethane	BRL	10		ug/L	164420	1	07/27/2012 22:58	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	164420	1	07/27/2012 22:58	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	164420	1	07/27/2012 22:58	NP
Cyclohexane	BRL	5.0		ug/L	164420	1	07/27/2012 22:58	NP
Dibromochloromethane	BRL	5.0		ug/L	164420	1	07/27/2012 22:58	NP
Dichlorodifluoromethane	BRL	10		ug/L	164420	1	07/27/2012 22:58	NP
Ethylbenzene	BRL	5.0		ug/L	164420	1	07/27/2012 22:58	NP
Freon-113	BRL	10		ug/L	164420	1	07/27/2012 22:58	NP
Isopropylbenzene	BRL	5.0		ug/L	164420	1	07/27/2012 22:58	NP
m,p-Xylene	BRL	5.0		ug/L	164420	1	07/27/2012 22:58	NP
Methyl acetate	BRL	5.0		ug/L	164420	1	07/27/2012 22:58	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	164420	1	07/27/2012 22:58	NP
Methylcyclohexane	BRL	5.0		ug/L	164420	1	07/27/2012 22:58	NP
Methylene chloride	BRL	5.0		ug/L	164420	1	07/27/2012 22:58	NP
o-Xylene	BRL	5.0		ug/L	164420	1	07/27/2012 22:58	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: 31-Jul-12

Client:	Environmental Management Associates, LLC	**Client Sample ID:**	MW-4
Project Name:	Professional Cleaners	**Collection Date:**	7/24/2012 10:15:00 AM
Lab ID:	1207F72-004	**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	164420	1	07/27/2012 22:58	NP
Tetrachloroethene	8.9	5.0		ug/L	164420	1	07/27/2012 22:58	NP
Toluene	BRL	5.0		ug/L	164420	1	07/27/2012 22:58	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	164420	1	07/27/2012 22:58	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	164420	1	07/27/2012 22:58	NP
Trichloroethene	BRL	5.0		ug/L	164420	1	07/27/2012 22:58	NP
Trichlorofluoromethane	BRL	5.0		ug/L	164420	1	07/27/2012 22:58	NP
Vinyl chloride	BRL	2.0		ug/L	164420	1	07/27/2012 22:58	NP
Surr: 4-Bromofluorobenzene	75.8	67.4-123		%REC	164420	1	07/27/2012 22:58	NP
Surr: Dibromofluoromethane	108	75.5-128		%REC	164420	1	07/27/2012 22:58	NP
Surr: Toluene-d8	89.3	70-120		%REC	164420	1	07/27/2012 22:58	NP
ION SCAN SW9056A								
Chloride	7.8	1.0		mg/L	R225695	1	07/24/2012 13:51	GR
Hexavalent Chromium in Water SW7196								
Chromium, Hexavalent	BRL	0.0100		mg/L	R225999	1	07/25/2012 09:01	CG
METALS, TOTAL SW6010C					**(SW3010A)**			
Arsenic	BRL	0.0500		mg/L	164193	1	07/25/2012 18:54	MR
Barium	0.234	0.0200		mg/L	164193	1	07/25/2012 18:54	MR
Cadmium	BRL	0.0050		mg/L	164193	1	07/25/2012 18:54	MR
Chromium	BRL	0.0100		mg/L	164193	1	07/25/2012 18:54	MR
Copper	BRL	0.0100		mg/L	164193	1	07/25/2012 18:54	MR
Iron	BRL	0.100		mg/L	164193	1	07/25/2012 18:54	MR
Lead	BRL	0.0100		mg/L	164193	1	07/25/2012 18:54	MR
Manganese	0.217	0.0150		mg/L	164193	1	07/25/2012 18:54	MR
Selenium	BRL	0.0200		mg/L	164193	1	07/25/2012 18:54	MR

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: 31-Jul-12

Client:	Environmental Management Associates, LLC	**Client Sample ID:**	MW-5
Project Name:	Professional Cleaners	**Collection Date:**	7/24/2012 9:25:00 AM
Lab ID:	1207F72-005	**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	164420	1	07/27/2012 23:27	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	164420	1	07/27/2012 23:27	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	164420	1	07/27/2012 23:27	NP
1,1-Dichloroethane	BRL	5.0		ug/L	164420	1	07/27/2012 23:27	NP
1,1-Dichloroethene	BRL	5.0		ug/L	164420	1	07/27/2012 23:27	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	164420	1	07/27/2012 23:27	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	164420	1	07/27/2012 23:27	NP
1,2-Dibromoethane	BRL	5.0		ug/L	164420	1	07/27/2012 23:27	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	164420	1	07/27/2012 23:27	NP
1,2-Dichloroethane	BRL	5.0		ug/L	164420	1	07/27/2012 23:27	NP
1,2-Dichloropropane	BRL	5.0		ug/L	164420	1	07/27/2012 23:27	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	164420	1	07/27/2012 23:27	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	164420	1	07/27/2012 23:27	NP
2-Butanone	BRL	50		ug/L	164420	1	07/27/2012 23:27	NP
2-Hexanone	BRL	10		ug/L	164420	1	07/27/2012 23:27	NP
4-Methyl-2-pentanone	BRL	10		ug/L	164420	1	07/27/2012 23:27	NP
Acetone	BRL	50		ug/L	164420	1	07/27/2012 23:27	NP
Benzene	BRL	5.0		ug/L	164420	1	07/27/2012 23:27	NP
Bromodichloromethane	BRL	5.0		ug/L	164420	1	07/27/2012 23:27	NP
Bromoform	BRL	5.0		ug/L	164420	1	07/27/2012 23:27	NP
Bromomethane	BRL	5.0		ug/L	164420	1	07/27/2012 23:27	NP
Carbon disulfide	BRL	5.0		ug/L	164420	1	07/27/2012 23:27	NP
Carbon tetrachloride	BRL	5.0		ug/L	164420	1	07/27/2012 23:27	NP
Chlorobenzene	BRL	5.0		ug/L	164420	1	07/27/2012 23:27	NP
Chloroethane	BRL	10		ug/L	164420	1	07/27/2012 23:27	NP
Chloroform	BRL	5.0		ug/L	164420	1	07/27/2012 23:27	NP
Chloromethane	BRL	10		ug/L	164420	1	07/27/2012 23:27	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	164420	1	07/27/2012 23:27	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	164420	1	07/27/2012 23:27	NP
Cyclohexane	BRL	5.0		ug/L	164420	1	07/27/2012 23:27	NP
Dibromochloromethane	BRL	5.0		ug/L	164420	1	07/27/2012 23:27	NP
Dichlorodifluoromethane	BRL	10		ug/L	164420	1	07/27/2012 23:27	NP
Ethylbenzene	BRL	5.0		ug/L	164420	1	07/27/2012 23:27	NP
Freon-113	BRL	10		ug/L	164420	1	07/27/2012 23:27	NP
Isopropylbenzene	BRL	5.0		ug/L	164420	1	07/27/2012 23:27	NP
m,p-Xylene	BRL	5.0		ug/L	164420	1	07/27/2012 23:27	NP
Methyl acetate	BRL	5.0		ug/L	164420	1	07/27/2012 23:27	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	164420	1	07/27/2012 23:27	NP
Methylcyclohexane	BRL	5.0		ug/L	164420	1	07/27/2012 23:27	NP
Methylene chloride	BRL	5.0		ug/L	164420	1	07/27/2012 23:27	NP
o-Xylene	BRL	5.0		ug/L	164420	1	07/27/2012 23:27	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: 31-Jul-12

Client:	Environmental Management Associates, LLC	**Client Sample ID:**	MW-5
Project Name:	Professional Cleaners	**Collection Date:**	7/24/2012 9:25:00 AM
Lab ID:	1207F72-005	**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	164420	1	07/27/2012 23:27	NP
Tetrachloroethene	BRL	5.0		ug/L	164420	1	07/27/2012 23:27	NP
Toluene	BRL	5.0		ug/L	164420	1	07/27/2012 23:27	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	164420	1	07/27/2012 23:27	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	164420	1	07/27/2012 23:27	NP
Trichloroethene	BRL	5.0		ug/L	164420	1	07/27/2012 23:27	NP
Trichlorofluoromethane	BRL	5.0		ug/L	164420	1	07/27/2012 23:27	NP
Vinyl chloride	BRL	2.0		ug/L	164420	1	07/27/2012 23:27	NP
Surr: 4-Bromofluorobenzene	80.4	67.4-123		%REC	164420	1	07/27/2012 23:27	NP
Surr: Dibromofluoromethane	107	75.5-128		%REC	164420	1	07/27/2012 23:27	NP
Surr: Toluene-d8	86.3	70-120		%REC	164420	1	07/27/2012 23:27	NP
ION SCAN SW9056A								
Chloride	3.2	1.0		mg/L	R225695	1	07/24/2012 14:06	GR
Hexavalent Chromium in Water SW7196								
Chromium, Hexavalent	BRL	0.0100		mg/L	R225999	1	07/25/2012 09:01	CG
METALS, TOTAL SW6010C					**(SW3010A)**			
Arsenic	BRL	0.0500		mg/L	164193	1	07/25/2012 18:58	MR
Barium	0.132	0.0200		mg/L	164193	1	07/25/2012 18:58	MR
Cadmium	BRL	0.0050		mg/L	164193	1	07/25/2012 18:58	MR
Chromium	BRL	0.0100		mg/L	164193	1	07/25/2012 18:58	MR
Copper	BRL	0.0100		mg/L	164193	1	07/25/2012 18:58	MR
Iron	0.101	0.100		mg/L	164193	1	07/25/2012 18:58	MR
Lead	BRL	0.0100		mg/L	164193	1	07/25/2012 18:58	MR
Manganese	0.187	0.0150		mg/L	164193	1	07/25/2012 18:58	MR
Selenium	BRL	0.0200		mg/L	164193	1	07/25/2012 18:58	MR

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:** 31-Jul-12

Client:	Environmental Management Associates, LLC	**Client Sample ID:**	MW-6
Project Name:	Professional Cleaners	**Collection Date:**	7/24/2012 10:40:00 AM
Lab ID:	1207F72-006	**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	164420	1	07/27/2012 23:56	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	164420	1	07/27/2012 23:56	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	164420	1	07/27/2012 23:56	NP
1,1-Dichloroethane	BRL	5.0		ug/L	164420	1	07/27/2012 23:56	NP
1,1-Dichloroethene	BRL	5.0		ug/L	164420	1	07/27/2012 23:56	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	164420	1	07/27/2012 23:56	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	164420	1	07/27/2012 23:56	NP
1,2-Dibromoethane	BRL	5.0		ug/L	164420	1	07/27/2012 23:56	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	164420	1	07/27/2012 23:56	NP
1,2-Dichloroethane	BRL	5.0		ug/L	164420	1	07/27/2012 23:56	NP
1,2-Dichloropropane	BRL	5.0		ug/L	164420	1	07/27/2012 23:56	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	164420	1	07/27/2012 23:56	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	164420	1	07/27/2012 23:56	NP
2-Butanone	BRL	50		ug/L	164420	1	07/27/2012 23:56	NP
2-Hexanone	BRL	10		ug/L	164420	1	07/27/2012 23:56	NP
4-Methyl-2-pentanone	BRL	10		ug/L	164420	1	07/27/2012 23:56	NP
Acetone	BRL	50		ug/L	164420	1	07/27/2012 23:56	NP
Benzene	BRL	5.0		ug/L	164420	1	07/27/2012 23:56	NP
Bromodichloromethane	BRL	5.0		ug/L	164420	1	07/27/2012 23:56	NP
Bromoform	BRL	5.0		ug/L	164420	1	07/27/2012 23:56	NP
Bromomethane	BRL	5.0		ug/L	164420	1	07/27/2012 23:56	NP
Carbon disulfide	BRL	5.0		ug/L	164420	1	07/27/2012 23:56	NP
Carbon tetrachloride	BRL	5.0		ug/L	164420	1	07/27/2012 23:56	NP
Chlorobenzene	BRL	5.0		ug/L	164420	1	07/27/2012 23:56	NP
Chloroethane	BRL	10		ug/L	164420	1	07/27/2012 23:56	NP
Chloroform	7.5	5.0		ug/L	164420	1	07/27/2012 23:56	NP
Chloromethane	BRL	10		ug/L	164420	1	07/27/2012 23:56	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	164420	1	07/27/2012 23:56	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	164420	1	07/27/2012 23:56	NP
Cyclohexane	BRL	5.0		ug/L	164420	1	07/27/2012 23:56	NP
Dibromochloromethane	BRL	5.0		ug/L	164420	1	07/27/2012 23:56	NP
Dichlorodifluoromethane	BRL	10		ug/L	164420	1	07/27/2012 23:56	NP
Ethylbenzene	BRL	5.0		ug/L	164420	1	07/27/2012 23:56	NP
Freon-113	BRL	10		ug/L	164420	1	07/27/2012 23:56	NP
Isopropylbenzene	BRL	5.0		ug/L	164420	1	07/27/2012 23:56	NP
m,p-Xylene	BRL	5.0		ug/L	164420	1	07/27/2012 23:56	NP
Methyl acetate	BRL	5.0		ug/L	164420	1	07/27/2012 23:56	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	164420	1	07/27/2012 23:56	NP
Methylcyclohexane	BRL	5.0		ug/L	164420	1	07/27/2012 23:56	NP
Methylene chloride	BRL	5.0		ug/L	164420	1	07/27/2012 23:56	NP
o-Xylene	BRL	5.0		ug/L	164420	1	07/27/2012 23:56	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: 31-Jul-12

Client:	Environmental Management Associates, LLC	**Client Sample ID:**	MW-6
Project Name:	Professional Cleaners	**Collection Date:**	7/24/2012 10:40:00 AM
Lab ID:	1207F72-006	**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	164420	1	07/27/2012 23:56	NP
Tetrachloroethene	5.2	5.0		ug/L	164420	1	07/27/2012 23:56	NP
Toluene	BRL	5.0		ug/L	164420	1	07/27/2012 23:56	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	164420	1	07/27/2012 23:56	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	164420	1	07/27/2012 23:56	NP
Trichloroethene	BRL	5.0		ug/L	164420	1	07/27/2012 23:56	NP
Trichlorofluoromethane	BRL	5.0		ug/L	164420	1	07/27/2012 23:56	NP
Vinyl chloride	BRL	2.0		ug/L	164420	1	07/27/2012 23:56	NP
Surr: 4-Bromofluorobenzene	76.7	67.4-123		%REC	164420	1	07/27/2012 23:56	NP
Surr: Dibromofluoromethane	112	75.5-128		%REC	164420	1	07/27/2012 23:56	NP
Surr: Toluene-d8	88.5	70-120		%REC	164420	1	07/27/2012 23:56	NP
ION SCAN SW9056A								
Chloride	2.5	1.0		mg/L	R225695	1	07/24/2012 14:21	GR
Hexavalent Chromium in Water SW7196								
Chromium, Hexavalent	BRL	0.0100		mg/L	R225999	1	07/25/2012 09:01	CG
METALS, TOTAL SW6010C				**(SW3010A)**				
Arsenic	BRL	0.0500		mg/L	164193	1	07/25/2012 19:02	MR
Barium	0.241	0.0200		mg/L	164193	1	07/25/2012 19:02	MR
Cadmium	BRL	0.0050		mg/L	164193	1	07/25/2012 19:02	MR
Chromium	BRL	0.0100		mg/L	164193	1	07/25/2012 19:02	MR
Copper	BRL	0.0100		mg/L	164193	1	07/25/2012 19:02	MR
Iron	BRL	0.100		mg/L	164193	1	07/25/2012 19:02	MR
Lead	BRL	0.0100		mg/L	164193	1	07/25/2012 19:02	MR
Manganese	0.0453	0.0150		mg/L	164193	1	07/25/2012 19:02	MR
Selenium	BRL	0.0200		mg/L	164193	1	07/25/2012 19:02	MR

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:** 31-Jul-12

Client:	Environmental Management Associates, LLC	**Client Sample ID:**	MW-7
Project Name:	Professional Cleaners	**Collection Date:**	7/24/2012 10:35:00 AM
Lab ID:	1207F72-007	**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	164420	1	07/28/2012 14:24	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	164420	1	07/28/2012 14:24	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	164420	1	07/28/2012 14:24	NP
1,1-Dichloroethane	BRL	5.0		ug/L	164420	1	07/28/2012 14:24	NP
1,1-Dichloroethene	BRL	5.0		ug/L	164420	1	07/28/2012 14:24	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	164420	1	07/28/2012 14:24	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	164420	1	07/28/2012 14:24	NP
1,2-Dibromoethane	BRL	5.0		ug/L	164420	1	07/28/2012 14:24	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	164420	1	07/28/2012 14:24	NP
1,2-Dichloroethane	BRL	5.0		ug/L	164420	1	07/28/2012 14:24	NP
1,2-Dichloropropane	BRL	5.0		ug/L	164420	1	07/28/2012 14:24	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	164420	1	07/28/2012 14:24	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	164420	1	07/28/2012 14:24	NP
2-Butanone	BRL	50		ug/L	164420	1	07/28/2012 14:24	NP
2-Hexanone	BRL	10		ug/L	164420	1	07/28/2012 14:24	NP
4-Methyl-2-pentanone	BRL	10		ug/L	164420	1	07/28/2012 14:24	NP
Acetone	BRL	50		ug/L	164420	1	07/28/2012 14:24	NP
Benzene	BRL	5.0		ug/L	164420	1	07/28/2012 14:24	NP
Bromodichloromethane	BRL	5.0		ug/L	164420	1	07/28/2012 14:24	NP
Bromoform	BRL	5.0		ug/L	164420	1	07/28/2012 14:24	NP
Bromomethane	BRL	5.0		ug/L	164420	1	07/28/2012 14:24	NP
Carbon disulfide	BRL	5.0		ug/L	164420	1	07/28/2012 14:24	NP
Carbon tetrachloride	BRL	5.0		ug/L	164420	1	07/28/2012 14:24	NP
Chlorobenzene	BRL	5.0		ug/L	164420	1	07/28/2012 14:24	NP
Chloroethane	BRL	10		ug/L	164420	1	07/28/2012 14:24	NP
Chloroform	BRL	5.0		ug/L	164420	1	07/28/2012 14:24	NP
Chloromethane	BRL	10		ug/L	164420	1	07/28/2012 14:24	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	164420	1	07/28/2012 14:24	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	164420	1	07/28/2012 14:24	NP
Cyclohexane	BRL	5.0		ug/L	164420	1	07/28/2012 14:24	NP
Dibromochloromethane	BRL	5.0		ug/L	164420	1	07/28/2012 14:24	NP
Dichlorodifluoromethane	BRL	10		ug/L	164420	1	07/28/2012 14:24	NP
Ethylbenzene	BRL	5.0		ug/L	164420	1	07/28/2012 14:24	NP
Freon-113	BRL	10		ug/L	164420	1	07/28/2012 14:24	NP
Isopropylbenzene	BRL	5.0		ug/L	164420	1	07/28/2012 14:24	NP
m,p-Xylene	BRL	5.0		ug/L	164420	1	07/28/2012 14:24	NP
Methyl acetate	BRL	5.0		ug/L	164420	1	07/28/2012 14:24	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	164420	1	07/28/2012 14:24	NP
Methylcyclohexane	BRL	5.0		ug/L	164420	1	07/28/2012 14:24	NP
Methylene chloride	BRL	5.0		ug/L	164420	1	07/28/2012 14:24	NP
o-Xylene	BRL	5.0		ug/L	164420	1	07/28/2012 14:24	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: 31-Jul-12

Client:	Environmental Management Associates, LLC	**Client Sample ID:**	MW-7
Project Name:	Professional Cleaners	**Collection Date:**	7/24/2012 10:35:00 AM
Lab ID:	1207F72-007	**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	164420	1	07/28/2012 14:24	NP
Tetrachloroethene	31	5.0		ug/L	164420	1	07/28/2012 14:24	NP
Toluene	BRL	5.0		ug/L	164420	1	07/28/2012 14:24	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	164420	1	07/28/2012 14:24	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	164420	1	07/28/2012 14:24	NP
Trichloroethene	BRL	5.0		ug/L	164420	1	07/28/2012 14:24	NP
Trichlorofluoromethane	BRL	5.0		ug/L	164420	1	07/28/2012 14:24	NP
Vinyl chloride	BRL	2.0		ug/L	164420	1	07/28/2012 14:24	NP
Surr: 4-Bromofluorobenzene	81	67.4-123		%REC	164420	1	07/28/2012 14:24	NP
Surr: Dibromofluoromethane	118	75.5-128		%REC	164420	1	07/28/2012 14:24	NP
Surr: Toluene-d8	92.3	70-120		%REC	164420	1	07/28/2012 14:24	NP
ION SCAN SW9056A								
Chloride	BRL	100		mg/L	R225695	100	07/24/2012 16:04	GR
Hexavalent Chromium in Water SW7196								
Chromium, Hexavalent	0.0225	0.0100		mg/L	R225999	1	07/25/2012 09:01	CG
METALS, TOTAL SW6010C				**(SW3010A)**				
Arsenic	BRL	0.0500		mg/L	164193	1	07/25/2012 19:05	MR
Barium	BRL	0.0200		mg/L	164193	1	07/25/2012 19:05	MR
Cadmium	BRL	0.0050		mg/L	164193	1	07/25/2012 19:05	MR
Chromium	0.0172	0.0100		mg/L	164193	1	07/25/2012 19:05	MR
Copper	BRL	0.0100		mg/L	164193	1	07/25/2012 19:05	MR
Iron	0.663	0.100		mg/L	164193	1	07/25/2012 19:05	MR
Lead	0.0185	0.0100		mg/L	164193	1	07/25/2012 19:05	MR
Manganese	0.250	0.0150		mg/L	164193	1	07/25/2012 19:05	MR
Selenium	BRL	0.0200		mg/L	164193	1	07/26/2012 13:22	MR

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:** 31-Jul-12

Client:	Environmental Management Associates, LLC	**Client Sample ID:**	DUP
Project Name:	Professional Cleaners	**Collection Date:**	7/24/2012
Lab ID:	1207F72-008	**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	164420	1	07/28/2012 00:25	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	164420	1	07/28/2012 00:25	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	164420	1	07/28/2012 00:25	NP
1,1-Dichloroethane	BRL	5.0		ug/L	164420	1	07/28/2012 00:25	NP
1,1-Dichloroethene	BRL	5.0		ug/L	164420	1	07/28/2012 00:25	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	164420	1	07/28/2012 00:25	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	164420	1	07/28/2012 00:25	NP
1,2-Dibromoethane	BRL	5.0		ug/L	164420	1	07/28/2012 00:25	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	164420	1	07/28/2012 00:25	NP
1,2-Dichloroethane	BRL	5.0		ug/L	164420	1	07/28/2012 00:25	NP
1,2-Dichloropropane	BRL	5.0		ug/L	164420	1	07/28/2012 00:25	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	164420	1	07/28/2012 00:25	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	164420	1	07/28/2012 00:25	NP
2-Butanone	BRL	50		ug/L	164420	1	07/28/2012 00:25	NP
2-Hexanone	BRL	10		ug/L	164420	1	07/28/2012 00:25	NP
4-Methyl-2-pentanone	BRL	10		ug/L	164420	1	07/28/2012 00:25	NP
Acetone	BRL	50		ug/L	164420	1	07/28/2012 00:25	NP
Benzene	BRL	5.0		ug/L	164420	1	07/28/2012 00:25	NP
Bromodichloromethane	BRL	5.0		ug/L	164420	1	07/28/2012 00:25	NP
Bromoform	BRL	5.0		ug/L	164420	1	07/28/2012 00:25	NP
Bromomethane	BRL	5.0		ug/L	164420	1	07/28/2012 00:25	NP
Carbon disulfide	BRL	5.0		ug/L	164420	1	07/28/2012 00:25	NP
Carbon tetrachloride	BRL	5.0		ug/L	164420	1	07/28/2012 00:25	NP
Chlorobenzene	BRL	5.0		ug/L	164420	1	07/28/2012 00:25	NP
Chloroethane	BRL	10		ug/L	164420	1	07/28/2012 00:25	NP
Chloroform	BRL	5.0		ug/L	164420	1	07/28/2012 00:25	NP
Chloromethane	BRL	10		ug/L	164420	1	07/28/2012 00:25	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	164420	1	07/28/2012 00:25	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	164420	1	07/28/2012 00:25	NP
Cyclohexane	BRL	5.0		ug/L	164420	1	07/28/2012 00:25	NP
Dibromochloromethane	BRL	5.0		ug/L	164420	1	07/28/2012 00:25	NP
Dichlorodifluoromethane	BRL	10		ug/L	164420	1	07/28/2012 00:25	NP
Ethylbenzene	BRL	5.0		ug/L	164420	1	07/28/2012 00:25	NP
Freon-113	BRL	10		ug/L	164420	1	07/28/2012 00:25	NP
Isopropylbenzene	BRL	5.0		ug/L	164420	1	07/28/2012 00:25	NP
m,p-Xylene	BRL	5.0		ug/L	164420	1	07/28/2012 00:25	NP
Methyl acetate	BRL	5.0		ug/L	164420	1	07/28/2012 00:25	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	164420	1	07/28/2012 00:25	NP
Methylcyclohexane	BRL	5.0		ug/L	164420	1	07/28/2012 00:25	NP
Methylene chloride	BRL	5.0		ug/L	164420	1	07/28/2012 00:25	NP
o-Xylene	BRL	5.0		ug/L	164420	1	07/28/2012 00:25	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: 31-Jul-12

Client:	Environmental Management Associates, LLC	**Client Sample ID:**	DUP
Project Name:	Professional Cleaners	**Collection Date:**	7/24/2012
Lab ID:	1207F72-008	**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	164420	1	07/28/2012 00:25	NP
Tetrachloroethene	BRL	5.0		ug/L	164420	1	07/28/2012 00:25	NP
Toluene	BRL	5.0		ug/L	164420	1	07/28/2012 00:25	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	164420	1	07/28/2012 00:25	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	164420	1	07/28/2012 00:25	NP
Trichloroethene	BRL	5.0		ug/L	164420	1	07/28/2012 00:25	NP
Trichlorofluoromethane	BRL	5.0		ug/L	164420	1	07/28/2012 00:25	NP
Vinyl chloride	BRL	2.0		ug/L	164420	1	07/28/2012 00:25	NP
Surr: 4-Bromofluorobenzene	72.3	67.4-123		%REC	164420	1	07/28/2012 00:25	NP
Surr: Dibromofluoromethane	116	75.5-128		%REC	164420	1	07/28/2012 00:25	NP
Surr: Toluene-d8	95	70-120		%REC	164420	1	07/28/2012 00:25	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:** 31-Jul-12

Client:	Environmental Management Associates, LLC	**Client Sample ID:**	TRIP BLK
Project Name:	Professional Cleaners	**Collection Date:**	7/24/2012
Lab ID:	1207F72-009	**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	164420	1	07/27/2012 21:02	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	164420	1	07/27/2012 21:02	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	164420	1	07/27/2012 21:02	NP
1,1-Dichloroethane	BRL	5.0		ug/L	164420	1	07/27/2012 21:02	NP
1,1-Dichloroethene	BRL	5.0		ug/L	164420	1	07/27/2012 21:02	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	164420	1	07/27/2012 21:02	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	164420	1	07/27/2012 21:02	NP
1,2-Dibromoethane	BRL	5.0		ug/L	164420	1	07/27/2012 21:02	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	164420	1	07/27/2012 21:02	NP
1,2-Dichloroethane	BRL	5.0		ug/L	164420	1	07/27/2012 21:02	NP
1,2-Dichloropropane	BRL	5.0		ug/L	164420	1	07/27/2012 21:02	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	164420	1	07/27/2012 21:02	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	164420	1	07/27/2012 21:02	NP
2-Butanone	BRL	50		ug/L	164420	1	07/27/2012 21:02	NP
2-Hexanone	BRL	10		ug/L	164420	1	07/27/2012 21:02	NP
4-Methyl-2-pentanone	BRL	10		ug/L	164420	1	07/27/2012 21:02	NP
Acetone	BRL	50		ug/L	164420	1	07/27/2012 21:02	NP
Benzene	BRL	5.0		ug/L	164420	1	07/27/2012 21:02	NP
Bromodichloromethane	BRL	5.0		ug/L	164420	1	07/27/2012 21:02	NP
Bromoform	BRL	5.0		ug/L	164420	1	07/27/2012 21:02	NP
Bromomethane	BRL	5.0		ug/L	164420	1	07/27/2012 21:02	NP
Carbon disulfide	BRL	5.0		ug/L	164420	1	07/27/2012 21:02	NP
Carbon tetrachloride	BRL	5.0		ug/L	164420	1	07/27/2012 21:02	NP
Chlorobenzene	BRL	5.0		ug/L	164420	1	07/27/2012 21:02	NP
Chloroethane	BRL	10		ug/L	164420	1	07/27/2012 21:02	NP
Chloroform	BRL	5.0		ug/L	164420	1	07/27/2012 21:02	NP
Chloromethane	BRL	10		ug/L	164420	1	07/27/2012 21:02	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	164420	1	07/27/2012 21:02	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	164420	1	07/27/2012 21:02	NP
Cyclohexane	BRL	5.0		ug/L	164420	1	07/27/2012 21:02	NP
Dibromochloromethane	BRL	5.0		ug/L	164420	1	07/27/2012 21:02	NP
Dichlorodifluoromethane	BRL	10		ug/L	164420	1	07/27/2012 21:02	NP
Ethylbenzene	BRL	5.0		ug/L	164420	1	07/27/2012 21:02	NP
Freon-113	BRL	10		ug/L	164420	1	07/27/2012 21:02	NP
Isopropylbenzene	BRL	5.0		ug/L	164420	1	07/27/2012 21:02	NP
m,p-Xylene	BRL	5.0		ug/L	164420	1	07/27/2012 21:02	NP
Methyl acetate	BRL	5.0		ug/L	164420	1	07/27/2012 21:02	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	164420	1	07/27/2012 21:02	NP
Methylcyclohexane	BRL	5.0		ug/L	164420	1	07/27/2012 21:02	NP
Methylene chloride	BRL	5.0		ug/L	164420	1	07/27/2012 21:02	NP
o-Xylene	BRL	5.0		ug/L	164420	1	07/27/2012 21:02	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: 31-Jul-12

Client:	Environmental Management Associates, LLC	**Client Sample ID:**	TRIP BLK
Project Name:	Professional Cleaners	**Collection Date:**	7/24/2012
Lab ID:	1207F72-009	**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	164420	1	07/27/2012 21:02	NP
Tetrachloroethene	BRL	5.0		ug/L	164420	1	07/27/2012 21:02	NP
Toluene	BRL	5.0		ug/L	164420	1	07/27/2012 21:02	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	164420	1	07/27/2012 21:02	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	164420	1	07/27/2012 21:02	NP
Trichloroethene	BRL	5.0		ug/L	164420	1	07/27/2012 21:02	NP
Trichlorofluoromethane	BRL	5.0		ug/L	164420	1	07/27/2012 21:02	NP
Vinyl chloride	BRL	2.0		ug/L	164420	1	07/27/2012 21:02	NP
Surr: 4-Bromofluorobenzene	81.5	67.4-123		%REC	164420	1	07/27/2012 21:02	NP
Surr: Dibromofluoromethane	110	75.5-128		%REC	164420	1	07/27/2012 21:02	NP
Surr: Toluene-d8	83.3	70-120		%REC	164420	1	07/27/2012 21:02	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.

Sample/Cooler Receipt Checklist

Client EMA IBC Work Order Number 1207F22

Checklist completed by [signature] 7/24/12
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? (4°C±2)* 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.

\L\Quality Assurance\Checklists Procedures Sign-Off Templates\Checklists\Sample Receipt Checklists\Sample_Cooler_Receipt_Checklist

Client: Environmental Management Associates, LLC
Project: Professional Cleaners
Lab Order: 1207F72

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1207F72-001A	MW-1	7/24/2012 9:55:00AM	Groundwater	TCL VOLATILE ORGANICS		07/27/2012	07/28/2012
1207F72-001B	MW-1	7/24/2012 9:55:00AM	Groundwater	TOTAL METALS BY ICP		07/25/2012	07/25/2012
1207F72-001B	MW-1	7/24/2012 9:55:00AM	Groundwater	TOTAL METALS BY ICP		07/25/2012	07/26/2012
1207F72-001C	MW-1	7/24/2012 9:55:00AM	Groundwater	Hexavalent Chromium			07/25/2012
1207F72-001C	MW-1	7/24/2012 9:55:00AM	Groundwater	ION SCAN			07/24/2012
1207F72-002A	MW-2	7/24/2012 11:05:00AM	Groundwater	TCL VOLATILE ORGANICS		07/27/2012	07/27/2012
1207F72-002B	MW-2	7/24/2012 11:05:00AM	Groundwater	TOTAL METALS BY ICP		07/25/2012	07/25/2012
1207F72-002C	MW-2	7/24/2012 11:05:00AM	Groundwater	Hexavalent Chromium			07/25/2012
1207F72-002C	MW-2	7/24/2012 11:05:00AM	Groundwater	ION SCAN			07/24/2012
1207F72-003A	MW-3	7/24/2012 11:15:00AM	Groundwater	TCL VOLATILE ORGANICS		07/27/2012	07/27/2012
1207F72-003B	MW-3	7/24/2012 11:15:00AM	Groundwater	TOTAL METALS BY ICP		07/25/2012	07/25/2012
1207F72-003C	MW-3	7/24/2012 11:15:00AM	Groundwater	Hexavalent Chromium			07/25/2012
1207F72-003C	MW-3	7/24/2012 11:15:00AM	Groundwater	ION SCAN			07/24/2012
1207F72-004A	MW-4	7/24/2012 10:15:00AM	Groundwater	TCL VOLATILE ORGANICS		07/27/2012	07/27/2012
1207F72-004B	MW-4	7/24/2012 10:15:00AM	Groundwater	TOTAL METALS BY ICP		07/25/2012	07/25/2012
1207F72-004C	MW-4	7/24/2012 10:15:00AM	Groundwater	Hexavalent Chromium			07/25/2012
1207F72-004C	MW-4	7/24/2012 10:15:00AM	Groundwater	ION SCAN			07/24/2012
1207F72-005A	MW-5	7/24/2012 9:25:00AM	Groundwater	TCL VOLATILE ORGANICS		07/27/2012	07/27/2012
1207F72-005B	MW-5	7/24/2012 9:25:00AM	Groundwater	TOTAL METALS BY ICP		07/25/2012	07/25/2012
1207F72-005C	MW-5	7/24/2012 9:25:00AM	Groundwater	Hexavalent Chromium			07/25/2012
1207F72-005C	MW-5	7/24/2012 9:25:00AM	Groundwater	ION SCAN			07/24/2012
1207F72-006A	MW-6	7/24/2012 10:40:00AM	Groundwater	TCL VOLATILE ORGANICS		07/27/2012	07/27/2012
1207F72-006B	MW-6	7/24/2012 10:40:00AM	Groundwater	TOTAL METALS BY ICP		07/25/2012	07/25/2012
1207F72-006C	MW-6	7/24/2012 10:40:00AM	Groundwater	Hexavalent Chromium			07/25/2012
1207F72-006C	MW-6	7/24/2012 10:40:00AM	Groundwater	ION SCAN			07/24/2012
1207F72-007A	MW-7	7/24/2012 10:35:00AM	Groundwater	TCL VOLATILE ORGANICS		07/27/2012	07/28/2012
1207F72-007B	MW-7	7/24/2012 10:35:00AM	Groundwater	TOTAL METALS BY ICP		07/25/2012	07/25/2012
1207F72-007B	MW-7	7/24/2012 10:35:00AM	Groundwater	TOTAL METALS BY ICP		07/25/2012	07/26/2012
1207F72-007C	MW-7	7/24/2012 10:35:00AM	Groundwater	Hexavalent Chromium			07/25/2012

Analytical Environmental Services, Inc

Date: 31-Jul-12

Client: Environmental Management Associates, LLC
Project: Professional Cleaners
Lab Order: 1207F72

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1207F72-007C	MW-7	7/24/2012 10:35:00AM	Groundwater	ION SCAN			07/24/2012
1207F72-008A	DUP	7/24/2012 12:00:00AM	Aqueous	TCL VOLATILE ORGANICS		07/27/2012	07/28/2012
1207F72-009A	TRIP BLK	7/24/2012 12:00:00AM	Aqueous	TCL VOLATILE ORGANICS		07/27/2012	07/27/2012

Client: Environmental Management Associates, LLC
Project Name: Professional Cleaners
Workorder: 1207F72

ANALYTICAL QC SUMMARY REPORT

BatchID: 164193

Sample ID: **MB-164193** Client ID: Units: **mg/L** Prep Date: **07/24/2012** Run No: **225725**
SampleType: **MBLK** TestCode: **METALS, TOTAL** **SW6010C** BatchID: **164193** Analysis Date: **07/25/2012** Seq No: **4724776**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	BRL	0.0500	0	0	0	0	0	0	0	0	
Barium	BRL	0.0200	0	0	0	0	0	0	0	0	
Cadmium	BRL	0.0050	0	0	0	0	0	0	0	0	
Chromium	BRL	0.0100	0	0	0	0	0	0	0	0	
Copper	BRL	0.0100	0	0	0	0	0	0	0	0	
Iron	BRL	0.100	0	0	0	0	0	0	0	0	
Lead	BRL	0.0100	0	0	0	0	0	0	0	0	
Manganese	BRL	0.0150	0	0	0	0	0	0	0	0	
Selenium	BRL	0.0200	0	0	0	0	0	0	0	0	

Sample ID: **LCS-164193** Client ID: Units: **mg/L** Prep Date: **07/24/2012** Run No: **225725**
SampleType: **LCS** TestCode: **METALS, TOTAL** **SW6010C** BatchID: **164193** Analysis Date: **07/25/2012** Seq No: **4724775**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	1.104	0.0500	1	0	110	80	120	0	0	0	
Barium	1.025	0.0200	1	0	103	80	120	0	0	0	
Cadmium	1.062	0.0050	1	0	106	80	120	0	0	0	
Chromium	1.067	0.0100	1	0	107	80	120	0	0	0	
Copper	1.050	0.0100	1	0	105	80	120	0	0	0	
Iron	10.49	0.100	10	0	105	80	120	0	0	0	
Lead	1.063	0.0100	1	0	106	80	120	0	0	0	
Manganese	1.051	0.0150	1	0	105	80	120	0	0	0	
Selenium	1.126	0.0200	1	0	113	80	120	0	0	0	

Sample ID: **1207F94-001BMS** Client ID: Units: **mg/L** Prep Date: **07/24/2012** Run No: **225725**
SampleType: **MS** TestCode: **METALS, TOTAL** **SW6010C** BatchID: **164193** Analysis Date: **07/25/2012** Seq No: **4724778**

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

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: Environmental Management Associates, LLC
Project Name: Professional Cleaners
Workorder: 1207F72

ANALYTICAL QC SUMMARY REPORT

BatchID: **164193**

Sample ID: **1207F94-001BMS** Client ID: Units: **mg/L** Prep Date: **07/24/2012** Run No: **225725**
SampleType: **MS** TestCode: **METALS, TOTAL** **SW6010C** BatchID: **164193** Analysis Date: **07/25/2012** Seq No: **4724778**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	1.076	0.0500	1	0	108	75	125	0	0	0	
Barium	1.003	0.0200	1	0.04332	96	75	125	0	0	0	
Cadmium	1.013	0.0050	1	0	101	75	125	0	0	0	
Chromium	1.053	0.0100	1	0.004328	105	75	125	0	0	0	
Copper	1.016	0.0100	1	0.008885	101	75	125	0	0	0	
Iron	19.59	0.100	10	11.67	79.2	75	125	0	0	0	
Lead	0.9810	0.0100	1	0	98.1	75	125	0	0	0	
Manganese	7.970	0.0150	1	7.504	46.6	75	125	0	0	0	S
Selenium	1.088	0.0200	1	0.006166	108	75	125	0	0	0	

Sample ID: **1207F94-001BMSD** Client ID: Units: **mg/L** Prep Date: **07/24/2012** Run No: **225725**
SampleType: **MSD** TestCode: **METALS, TOTAL** **SW6010C** BatchID: **164193** Analysis Date: **07/25/2012** Seq No: **4724779**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	1.084	0.0500	1	0	108	75	125	1.076	0.669	20	
Barium	1.008	0.0200	1	0.04332	96.5	75	125	1.003	0.544	20	
Cadmium	1.019	0.0050	1	0	102	75	125	1.013	0.605	20	
Chromium	1.061	0.0100	1	0.004328	106	75	125	1.053	0.783	20	
Copper	1.022	0.0100	1	0.008885	101	75	125	1.016	0.535	20	
Iron	20.31	0.100	10	11.67	86.4	75	125	19.59	3.6	20	
Lead	0.9862	0.0100	1	0	98.6	75	125	0.9810	0.52	20	
Manganese	8.306	0.0150	1	7.504	80.2	75	125	7.970	4.13	20	
Selenium	1.099	0.0200	1	0.006166	109	75	125	1.088	1.01	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: Environmental Management Associates, LLC
Project Name: Professional Cleaners
Workorder: 1207F72

ANALYTICAL QC SUMMARY REPORT

BatchID: 164420

Sample ID: **MB-164420** Client ID: Units: **ug/L** Prep Date: **07/27/2012** Run No: **225881**
SampleType: **MBLK** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **164420** Analysis Date: **07/27/2012** Seq No: **4729250**

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	0	0	0	0	0	0	0	0	
1,1,2,2-Tetrachloroethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,1,2-Trichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,1-Dichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,1-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
1,2,4-Trichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	
1,2-Dibromo-3-chloropropane	BRL	5.0	0	0	0	0	0	0	0	0	
1,2-Dibromoethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,2-Dichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	
1,2-Dichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,2-Dichloropropane	BRL	5.0	0	0	0	0	0	0	0	0	
1,3-Dichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	
1,4-Dichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	
2-Butanone	BRL	50	0	0	0	0	0	0	0	0	
2-Hexanone	BRL	10	0	0	0	0	0	0	0	0	
4-Methyl-2-pentanone	BRL	10	0	0	0	0	0	0	0	0	
Acetone	BRL	50	0	0	0	0	0	0	0	0	
Benzene	BRL	5.0	0	0	0	0	0	0	0	0	
Bromodichloromethane	BRL	5.0	0	0	0	0	0	0	0	0	
Bromoform	BRL	5.0	0	0	0	0	0	0	0	0	
Bromomethane	BRL	5.0	0	0	0	0	0	0	0	0	
Carbon disulfide	BRL	5.0	0	0	0	0	0	0	0	0	
Carbon tetrachloride	BRL	5.0	0	0	0	0	0	0	0	0	
Chlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	
Chloroethane	BRL	10	0	0	0	0	0	0	0	0	
Chloroform	BRL	5.0	0	0	0	0	0	0	0	0	
Chloromethane	BRL	10	0	0	0	0	0	0	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: Environmental Management Associates, LLC
Project Name: Professional Cleaners
Workorder: 1207F72

ANALYTICAL QC SUMMARY REPORT

BatchID: 164420

Sample ID: **MB-164420** Client ID: Units: **ug/L** Prep Date: **07/27/2012** Run No: **225881**
SampleType: **MBLK** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **164420** Analysis Date: **07/27/2012** Seq No: **4729250**

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	0	0	0	0	0	0	0	0	
cis-1,3-Dichloropropene	BRL	5.0	0	0	0	0	0	0	0	0	
Cyclohexane	BRL	5.0	0	0	0	0	0	0	0	0	
Dibromochloromethane	BRL	5.0	0	0	0	0	0	0	0	0	
Dichlorodifluoromethane	BRL	10	0	0	0	0	0	0	0	0	
Ethylbenzene	BRL	5.0	0	0	0	0	0	0	0	0	
Freon-113	BRL	10	0	0	0	0	0	0	0	0	
Isopropylbenzene	BRL	5.0	0	0	0	0	0	0	0	0	
m,p-Xylene	BRL	5.0	0	0	0	0	0	0	0	0	
Methyl acetate	BRL	5.0	0	0	0	0	0	0	0	0	
Methyl tert-butyl ether	BRL	5.0	0	0	0	0	0	0	0	0	
Methylcyclohexane	BRL	5.0	0	0	0	0	0	0	0	0	
Methylene chloride	BRL	5.0	0	0	0	0	0	0	0	0	
o-Xylene	BRL	5.0	0	0	0	0	0	0	0	0	
Styrene	BRL	5.0	0	0	0	0	0	0	0	0	
Tetrachloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
Toluene	BRL	5.0	0	0	0	0	0	0	0	0	
trans-1,2-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
trans-1,3-Dichloropropene	BRL	5.0	0	0	0	0	0	0	0	0	
Trichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
Trichlorofluoromethane	BRL	5.0	0	0	0	0	0	0	0	0	
Vinyl chloride	BRL	2.0	0	0	0	0	0	0	0	0	
Surr: 4-Bromofluorobenzene	41.58	0	50	0	83.2	67.4	123	0	0	0	
Surr: Dibromofluoromethane	49.60	0	50	0	99.2	75.5	128	0	0	0	
Surr: Toluene-d8	41.79	0	50	0	83.6	70	120	0	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: Environmental Management Associates, LLC
Project Name: Professional Cleaners
Workorder: 1207F72

ANALYTICAL QC SUMMARY REPORT

BatchID: 164420

Sample ID: **LCS-164420** Client ID: Units: **ug/L** Prep Date: **07/27/2012** Run No: **225881**
SampleType: **LCS** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **164420** Analysis Date: **07/27/2012** Seq No: **4729257**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	44.08	5.0	50	0	88.2	60	140	0	0	0	
Benzene	52.64	5.0	50	0	105	70	130	0	0	0	
Chlorobenzene	49.87	5.0	50	0	99.7	70	130	0	0	0	
Toluene	47.29	5.0	50	0	94.6	70	130	0	0	0	
Trichloroethene	48.06	5.0	50	0	96.1	70	130	0	0	0	
Surr: 4-Bromofluorobenzene	50.98	0	50	0	102	67.4	123	0	0	0	
Surr: Dibromofluoromethane	48.10	0	50	0	96.2	75.5	128	0	0	0	
Surr: Toluene-d8	44.80	0	50	0	89.6	70	120	0	0	0	

Sample ID: **1207I08-004AMS** Client ID: Units: **ug/L** Prep Date: **07/27/2012** Run No: **225929**
SampleType: **MS** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **164420** Analysis Date: **07/27/2012** Seq No: **4729629**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	1065	100	1000	0	106	50.1	179	0	0	0	
Benzene	1034	100	1000	0	103	61.2	150	0	0	0	
Chlorobenzene	1039	100	1000	0	104	72.1	140	0	0	0	
Toluene	1055	100	1000	0	105	58.7	154	0	0	0	
Trichloroethene	1005	100	1000	0	101	68.3	149	0	0	0	
Surr: 4-Bromofluorobenzene	1022	0	1000	0	102	67.4	123	0	0	0	
Surr: Dibromofluoromethane	1026	0	1000	0	103	75.5	128	0	0	0	
Surr: Toluene-d8	994.0	0	1000	0	99.4	70	120	0	0	0	

Sample ID: **1207I08-004AMSD** Client ID: Units: **ug/L** Prep Date: **07/27/2012** Run No: **225929**
SampleType: **MSD** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **164420** Analysis Date: **07/27/2012** Seq No: **4729630**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	1043	100	1000	0	104	50.1	179	1065	2.05	23.3	
Benzene	1006	100	1000	0	101	61.2	150	1034	2.8	19	

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: Environmental Management Associates, LLC
Project Name: Professional Cleaners
Workorder: 1207F72

ANALYTICAL QC SUMMARY REPORT

BatchID: **164420**

Sample ID: **1207I08-004AMSD** Client ID: Units: **ug/L** Prep Date: **07/27/2012** Run No: **225929**
SampleType: **MSD** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **164420** Analysis Date: **07/27/2012** Seq No: **4729630**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorobenzene	1034	100	1000	0	103	72.1	140	1039	0.444	21.5	
Toluene	1029	100	1000	0	103	58.7	154	1055	2.5	20	
Trichloroethene	998.4	100	1000	0	99.8	68.3	149	1005	0.699	17.7	
Surr: 4-Bromofluorobenzene	1053	0	1000	0	105	67.4	123	1022	0	0	
Surr: Dibromofluoromethane	1006	0	1000	0	101	75.5	128	1026	0	0	
Surr: Toluene-d8	999.6	0	1000	0	100	70	120	994.0	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: Environmental Management Associates, LLC
Project Name: Professional Cleaners
Workorder: 1207F72

ANALYTICAL QC SUMMARY REPORT

BatchID: **R225695**

Sample ID: **MB-R225695** Client ID: Units: **mg/L** Prep Date: Run No: **225695**
SampleType: **MBLK** TestCode: **ION SCAN SW9056A** BatchID: **R225695** Analysis Date: **07/24/2012** Seq No: **4724227**

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	0	0	0	0	0	0	0	0	

Sample ID: **LCS-R225695** Client ID: Units: **mg/L** Prep Date: Run No: **225695**
SampleType: **LCS** TestCode: **ION SCAN SW9056A** BatchID: **R225695** Analysis Date: **07/24/2012** Seq No: **4724226**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	9.770	1.0	10	0	97.7	90	110	0	0	0	

Sample ID: **1207F72-005CMS** Client ID: **MW-5** Units: **mg/L** Prep Date: Run No: **225695**
SampleType: **MS** TestCode: **ION SCAN SW9056A** BatchID: **R225695** Analysis Date: **07/24/2012** Seq No: **4724231**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	12.68	1.0	10	3.165	95.2	90	110	0	0	0	

Sample ID: **1207F72-005CMSD** Client ID: **MW-5** Units: **mg/L** Prep Date: Run No: **225695**
SampleType: **MSD** TestCode: **ION SCAN SW9056A** BatchID: **R225695** Analysis Date: **07/24/2012** Seq No: **4724232**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	12.73	1.0	10	3.165	95.6	90	110	12.68	0.331	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: Environmental Management Associates, LLC
Project Name: Professional Cleaners
Workorder: 1207F72

ANALYTICAL QC SUMMARY REPORT

BatchID: **R225999**

Sample ID: **MB-R225999** Client ID: Units: **mg/L** Prep Date: Run No: **225999**
SampleType: **MBLK** TestCode: **Hexavalent Chromium in Water SW7196** BatchID: **R225999** Analysis Date: **07/25/2012** Seq No: **4730596**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chromium, Hexavalent	BRL	0.0100	0	0	0	0	0	0	0	0	

Sample ID: **LCS-R225999** Client ID: Units: **mg/L** Prep Date: Run No: **225999**
SampleType: **LCS** TestCode: **Hexavalent Chromium in Water SW7196** BatchID: **R225999** Analysis Date: **07/25/2012** Seq No: **4730597**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chromium, Hexavalent	0.5099	0.0100	0.5	0	102	90	110	0	0	0	

Sample ID: **1207F72-004CMS** Client ID: **MW-4** Units: **mg/L** Prep Date: Run No: **225999**
SampleType: **MS** TestCode: **Hexavalent Chromium in Water SW7196** BatchID: **R225999** Analysis Date: **07/25/2012** Seq No: **4730606**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chromium, Hexavalent	0.5099	0.0100	0.5	0.004600	101	85	115	0	0	0	

Sample ID: **1207F72-004CMSD** Client ID: **MW-4** Units: **mg/L** Prep Date: Run No: **225999**
SampleType: **MSD** TestCode: **Hexavalent Chromium in Water SW7196** BatchID: **R225999** Analysis Date: **07/25/2012** Seq No: **4730607**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chromium, Hexavalent	0.5116	0.0100	0.5	0.004600	101	85	115	0.5099	0.333	20	

Qualifiers:

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

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

AES

August 31, 2012

Brent Cortelloni
Environmental Management Associates, LLC
5262 Belle Wood Court
Buford Georgi30518

TEL: (770) 271-4628
FAX: (770) 271-8944

RE: Professional Cleaners

Dear Brent Cortelloni: Order No: 1208H61

Analytical Environmental Services, Inc. received 2 samples on 8/23/2012 10:30:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.
AES' certifications are as follows:
-NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/12-06/30/13.
-AIHA Certification ID #100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/13.

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.

Mirzeta Kararic

Mirzeta Kararic
Project Manager

ANALYTICAL ENVIRONMENTAL SERVICES, INC
3785 Presidential Parkway, Atlanta GA 30340-3704
AES TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1208H161

Date: _____ Page _____ of _____

COMPANY: EMA/BC

ADDRESS:

PHONE:

FAX:

SAMPLED BY: B. Morellon.

SIGNATURE:

ANALYSIS REQUESTED: PCB

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

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	PRESERVATION (See codes)	REMARKS	No. # of Containers
1	EMA-4	8-23-12	10:18	X		GW	X	*	
2	EMA-6	8-23-12	9:35	X		GW	X	to run chlorpyrifos only	
3	Trip BLK	" "					X		
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
1: B. Morellon	8-23-12 1030	1: [signature]	08/24/12 1030
2:		2:	
3:		3:	

PROJECT INFORMATION
PROJECT NAME: Professional Cleaners
PROJECT #: 559
SITE ADDRESS:
SEND REPORT TO:
INVOICE TO: (IF DIFFERENT FROM ABOVE)
QUOTE #: _____ PO#: _____

RECEIPT
Total # of Containers

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;
DATA PACKAGE

SPECIAL INSTRUCTIONS/COMMENTS:

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

SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY. IF TURNAROUND TIME IS NOT INDICATED, AES WILL PROCEED WITH STANDARD TAT (
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: 31-Aug-12

Client: Environmental Management Associates, LLC
Project: Professional Cleaners
Lab ID: 1208H61

Case Narrative

Trip Blank was indicated on the COC but wasn't received at lab. Samples were labled as "MW-4" and "MW-6" while COC indicated sample Ids as "EMA-4", and "EMA-6" respectively. Sample Ids were taken from container lables for login.

Analytical Environmental Services, Inc **Date:** 31-Aug-12

Client:	Environmental Management Associates, LLC	**Client Sample ID:**	MW-4
Project Name:	Professional Cleaners	**Collection Date:**	8/23/2012 10:18:00 AM
Lab ID:	1208H61-001	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Tetrachloroethene	8.3	5.0		ug/L	165619	1	08/24/2012 21:27	NP
Surr: 4-Bromofluorobenzene	83.2	67.4-123		%REC	165619	1	08/24/2012 21:27	NP
Surr: Dibromofluoromethane	119	75.5-128		%REC	165619	1	08/24/2012 21:27	NP
Surr: Toluene-d8	98	70-120		%REC	165619	1	08/24/2012 21:27	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: 31-Aug-12

Client:	Environmental Management Associates, LLC	**Client Sample ID:**	MW-6
Project Name:	Professional Cleaners	**Collection Date:**	8/23/2012 9:35:00 AM
Lab ID:	1208H61-002	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Tetrachloroethene	BRL	5.0		ug/L	165619	1	08/24/2012 21:56	NP
Surr: 4-Bromofluorobenzene	85.4	67.4-123		%REC	165619	1	08/24/2012 21:56	NP
Surr: Dibromofluoromethane	117	75.5-128		%REC	165619	1	08/24/2012 21:56	NP
Surr: Toluene-d8	95.4	70-120		%REC	165619	1	08/24/2012 21:56	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.

Sample/Cooler Receipt Checklist

Client EMA Work Order Number 1208461

Checklist completed by [signature] 8/23/12
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? (4°C±2)* 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 _____

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.

\L\Quality Assurance\Checklists Procedures Sign-Off Templates\Checklists\Sample Receipt Checklists\Sample_Cooler_Receipt_Checklist

Client: Environmental Management Associates, LLC
Project Name: Professional Cleaners
Workorder: 1208H61

ANALYTICAL QC SUMMARY REPORT

BatchID: **165619**

Sample ID: **MB-165619** Client ID: Units: **ug/L** Prep Date: **08/24/2012** Run No: **227722**
SampleType: **MBLK** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **165619** Analysis Date: **08/24/2012** Seq No: **4765823**

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	0	0	0	0	0	0	0	0	
1,1,2,2-Tetrachloroethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,1,2-Trichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,1-Dichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,1-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
1,2,4-Trichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	
1,2-Dibromo-3-chloropropane	BRL	5.0	0	0	0	0	0	0	0	0	
1,2-Dibromoethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,2-Dichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	
1,2-Dichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,2-Dichloropropane	BRL	5.0	0	0	0	0	0	0	0	0	
1,3-Dichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	
1,4-Dichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	
2-Butanone	BRL	50	0	0	0	0	0	0	0	0	
2-Hexanone	BRL	10	0	0	0	0	0	0	0	0	
4-Methyl-2-pentanone	BRL	10	0	0	0	0	0	0	0	0	
Acetone	BRL	50	0	0	0	0	0	0	0	0	
Benzene	BRL	5.0	0	0	0	0	0	0	0	0	
Bromodichloromethane	BRL	5.0	0	0	0	0	0	0	0	0	
Bromoform	BRL	5.0	0	0	0	0	0	0	0	0	
Bromomethane	BRL	5.0	0	0	0	0	0	0	0	0	
Carbon disulfide	BRL	5.0	0	0	0	0	0	0	0	0	
Carbon tetrachloride	BRL	5.0	0	0	0	0	0	0	0	0	
Chlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	
Chloroethane	BRL	10	0	0	0	0	0	0	0	0	
Chloroform	BRL	5.0	0	0	0	0	0	0	0	0	
Chloromethane	BRL	10	0	0	0	0	0	0	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: Environmental Management Associates, LLC
Project Name: Professional Cleaners
Workorder: 1208H61

ANALYTICAL QC SUMMARY REPORT

BatchID: **165619**

Sample ID: **MB-165619** Client ID: Units: **ug/L** Prep Date: **08/24/2012** Run No: **227722**
SampleType: **MBLK** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **165619** Analysis Date: **08/24/2012** Seq No: **4765823**

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	0	0	0	0	0	0	0	0	
cis-1,3-Dichloropropene	BRL	5.0	0	0	0	0	0	0	0	0	
Cyclohexane	BRL	5.0	0	0	0	0	0	0	0	0	
Dibromochloromethane	BRL	5.0	0	0	0	0	0	0	0	0	
Dichlorodifluoromethane	BRL	10	0	0	0	0	0	0	0	0	
Ethylbenzene	BRL	5.0	0	0	0	0	0	0	0	0	
Freon-113	BRL	10	0	0	0	0	0	0	0	0	
Isopropylbenzene	BRL	5.0	0	0	0	0	0	0	0	0	
m,p-Xylene	BRL	5.0	0	0	0	0	0	0	0	0	
Methyl acetate	BRL	5.0	0	0	0	0	0	0	0	0	
Methyl tert-butyl ether	BRL	5.0	0	0	0	0	0	0	0	0	
Methylcyclohexane	BRL	5.0	0	0	0	0	0	0	0	0	
Methylene chloride	BRL	5.0	0	0	0	0	0	0	0	0	
o-Xylene	BRL	5.0	0	0	0	0	0	0	0	0	
Styrene	BRL	5.0	0	0	0	0	0	0	0	0	
Tetrachloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
Toluene	BRL	5.0	0	0	0	0	0	0	0	0	
trans-1,2-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
trans-1,3-Dichloropropene	BRL	5.0	0	0	0	0	0	0	0	0	
Trichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
Trichlorofluoromethane	BRL	5.0	0	0	0	0	0	0	0	0	
Vinyl chloride	BRL	2.0	0	0	0	0	0	0	0	0	
Surr: 4-Bromofluorobenzene	41.53	0	50	0	83.1	67.4	123	0	0	0	
Surr: Dibromofluoromethane	55.62	0	50	0	111	75.5	128	0	0	0	
Surr: Toluene-d8	47.91	0	50	0	95.8	70	120	0	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		

Analytical Environmental Services, Inc

Date: 31-Aug-12

Client: Environmental Management Associates, LLC
Project Name: Professional Cleaners
Workorder: 1208H61

ANALYTICAL QC SUMMARY REPORT

BatchID: 165619

Sample ID: **LCS-165619** Client ID: Units: **ug/L** Prep Date: **08/24/2012** Run No: **227722**
SampleType: **LCS** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **165619** Analysis Date: **08/24/2012** Seq No: **4765820**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	65.79	5.0	50	0	132	60	140	0	0	0	
Benzene	60.24	5.0	50	0	120	70	130	0	0	0	
Chlorobenzene	50.30	5.0	50	0	101	70	130	0	0	0	
Toluene	57.99	5.0	50	0	116	70	130	0	0	0	
Trichloroethene	62.70	5.0	50	0	125	70	130	0	0	0	
Surr: 4-Bromofluorobenzene	53.65	0	50	0	107	67.4	123	0	0	0	
Surr: Dibromofluoromethane	50.08	0	50	0	100	75.5	128	0	0	0	
Surr: Toluene-d8	47.84	0	50	0	95.7	70	120	0	0	0	

Sample ID: **1208H61-001AMS** Client ID: **MW-4** Units: **ug/L** Prep Date: **08/24/2012** Run No: **227722**
SampleType: **MS** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **165619** Analysis Date: **08/24/2012** Seq No: **4765821**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	68.45	5.0	50	0	137	50.1	179	0	0	0	
Benzene	63.11	5.0	50	0	126	61.2	150	0	0	0	
Chlorobenzene	52.57	5.0	50	0	105	72.1	140	0	0	0	
Toluene	61.39	5.0	50	0	123	58.7	154	0	0	0	
Trichloroethene	65.46	5.0	50	0	131	68.3	149	0	0	0	
Surr: 4-Bromofluorobenzene	53.34	0	50	0	107	67.4	123	0	0	0	
Surr: Dibromofluoromethane	49.64	0	50	0	99.3	75.5	128	0	0	0	
Surr: Toluene-d8	47.81	0	50	0	95.6	70	120	0	0	0	

Sample ID: **1208H61-001AMSD** Client ID: **MW-4** Units: **ug/L** Prep Date: **08/24/2012** Run No: **227722**
SampleType: **MSD** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **165619** Analysis Date: **08/24/2012** Seq No: **4765822**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	65.33	5.0	50	0	131	50.1	179	68.45	4.66	23.3	
Benzene	58.88	5.0	50	0	118	61.2	150	63.11	6.93	19	

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: Environmental Management Associates, LLC
Project Name: Professional Cleaners
Workorder: 1208H61

ANALYTICAL QC SUMMARY REPORT

BatchID: **165619**

Sample ID: **1208H61-001AMSD** Client ID: **MW-4** Units: **ug/L** Prep Date: **08/24/2012** Run No: **227722**
SampleType: **MSD** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **165619** Analysis Date: **08/24/2012** Seq No: **4765822**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorobenzene	51.49	5.0	50	0	103	72.1	140	52.57	2.08	21.5	
Toluene	57.70	5.0	50	0	115	58.7	154	61.39	6.2	20	
Trichloroethene	60.15	5.0	50	0	120	68.3	149	65.46	8.45	17.7	
Surr: 4-Bromofluorobenzene	53.69	0	50	0	107	67.4	123	53.34	0	0	
Surr: Dibromofluoromethane	48.25	0	50	0	96.5	75.5	128	49.64	0	0	
Surr: Toluene-d8	46.13	0	50	0	92.3	70	120	47.81	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 C
UPDATED COST ESTIMATE

ESTIMATED COSTS
PROFESSIONAL CLEANERS AND LINEN SERVICE
NORCROSS, GEORGIA

	Original					Updated		
Activity	***Units***	***Unit Cost***	***Sub-Total***			***Units***	***Unit Cost***	***Sub-Total***
Consulting								
VRP Application/Report (completed)			$ 3,300.00					$ -
Additional Groundwater Delineation Investigations[1]			$ 10,000.00					$ 7,000.00
Semiannual Sampling/Progress Reports [2]	4	$ 2,500.00	$ 10,000.00			2	$ 4,570.00	$ 9,140.00
File Deed Restriction (if required)			$ 2,500.00					$ 2,500.00
Voluntary CSR Report			$ 6,800.00					$ 6,800.00
		sub-total	$ 32,600.00				sub-total	$ 25,440.00
Remediation								
ISCO Remediation (assumed complete)			$ 34,000.00	--	$ 46,000.00			$ -
Total Estimate Range			**$ 66,600.00**	**--**	**$ 78,600.00**			**$ 25,440.00**

Notes:
1) Originally based on only hree additional wells. EPD asked for four wells (MW-5, MW_6, MW-7, and deeper well). Three wells have been installed.
2) 4 semiannual progress reports and sampling events were anticipated. Assuming remediation has been completed, a maximum of two more quarterly sampling events and one more semiannual report is required.

INVOICE SUMMARY SINCE LAST SUBMITTAL
PROFESSIONAL CLEANERS AND LINEN SERVICE
NORCROSS, GEORGIA

Invoice	*Amount*	*Scope of Work*
559-0312	$ 6,035.00	Install 3 horizontal delineation wells/sample
559-0412	$ 21,800.00	Initial ISCO Injection
	$ 850.00	Install Temporary injection points
	$ 2,150.00	Baseline groundwater sampling
RC137-0512	$ 2,700.00	Remainder of Initial Injection
559-0712	$ 4,570.00	1st Quarter sampling
559-0812	$ 8,000.00	2nd ISCO Injection
	$ 46,105.00	**TOTAL**

PG OVERSIGHT SUMMARY
PROFESSIONAL CLEANERS AND LINEN SERVICE
NORCROSS, GEORGIA

PG Summary of Time	*Units*	*Unit Cost*	*Sub-Total*
9/1/11 to 9/6/12			
Install Wells/Complete Logs	16	$ 85.00	$ 1,360.00
Baseline Sampling	8	$ 85.00	$ 680.00
ISCO Injection Event	10	$ 85.00	$ 850.00
Post Injection Sampling	8	$ 85.00	$ 680.00
1st Semiannual Report/Figures/Tables	15	$ 85.00	$ 1,275.00
		sub-total	$ 4,845.00

APPENDIX D
UPDATED MILESTONE SCHEDULE

MILESTONE SCHEDULE
PROFESSIONAL CLEANERS AND LINEN SERVICE
2040 BEAVER RUIN ROAD
NORCROSS, GEORGIA

	2012																2013															
	Sept.				Oct.				Nov.				Dec.				Jan.				Feb.				Mar.				Apr.			
Corrective Action Activity	*1*	*2*	*3*	*4*	*1*	*2*	*3*	*4*	*1*	*2*	*3*	*4*	*1*	*2*	*3*	*4*	*1*	*2*	*3*	*4*	*1*	*2*	*3*	*4*	*1*	*2*	*3*	*4*	*1*	*2*	*3*	*4*
Groundwater Delineation Inv. (Vertical Well)										√																						
Quarterly Sampling								√												√												
Semiannual Sampling/Progress Reports																										√						
File GW Restriction Covenant (if required)																																
ISCO Injection (completed)																																
Submit CSR (Estimated)																													√			