



2nd SEMI-ANNUAL PROGRESS REPORT
VOLUNTARY REMEDIATION PROGRAM

FORMER IMPERIAL CLEANERS
1233B ALPHARETTA HIGHWAY
ROSWELL, FULTON COUNTY, GEORGIA
HSI SITE NO. 10690

Prepared for Submission to:
Georgia Environmental Protection Division
Hazardous Waste Management Branch
Suite 1154, East Tower
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Prepared by:

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November 8, 2012

AMEC Project No.6305-05-0319



November 8, 2012

Mr. Terry Allison
Environmental Protection Division
Hazardous Site Response Program
Floyd Tower East, Suite 1462
2 Martin Luther King, Jr. Blvd.
Atlanta, Georgia 30334

**Subject: 2nd VRP Semi-Annual Progress Report
Former Imperial Cleaners
1233B Alpharetta Highway
Roswell, Fulton County, Georgia
HSI Site No. 10690
AMEC Project No. 6305-05-0319**

Dear Mr. Allison:

On behalf of PM, Ltd, AMEC Environment & Infrastructure, Inc. (AMEC) respectfully submits this Semi-Annual Progress Report as required under the Georgia Voluntary Remediation Program to the Georgia Department of Natural Resources Environmental Protection Division (EPD). This report is intended for the use of PM, Ltd. and for regulatory submittal, subject to the contractual terms agreed to for this project. Use of this report for purposes beyond those reasonably intended by PM, Ltd. and AMEC will be at the sole risk of the user.

If you have any questions and/or comments regarding the material presented in this report, please contact Chuck Ferry at (404) 817-0107 or by email at ctferry@mactec.com.

Sincerely,

AMEC ENVIRONMENT & INFRASTRUCTURE, INC.

Stephen R. Foley, P.G.
Senior Geologist

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1.0 PROJECT SUMMARY

Imperial Cleaners was a tenant dry cleaning business located at the Kingscreek Shopping Center between 1991 and 2000. In 2000, on-site dry cleaning operations ceased and the dry cleaning machinery and associated equipment were removed from the building. In the spring of 2002, the former dry cleaners space was renovated for an expansion of the adjacent Tuesday Morning retail store. The wall between the former dry cleaner and Tuesday Morning was removed and the former dry cleaner space formed a part of the Tuesday Morning retail showroom. Tuesday Morning vacated the tenant space as of August 2009 and the space remains vacant.

Imperial Cleaners was the subject of environmental assessments which discovered contamination and resulted in placement of the site on the Hazardous Site Inventory (HSI) on January 5, 2001, designated as HSI Site Number 10690. A total of 13 groundwater monitoring wells were installed on the subject site during a series of assessments between 2000 and 2006 that revealed groundwater impacts exceeding applicable risk reduction standards (RRS). Analysis of soils inside and outside the dry cleaner space has not revealed conditions exceeding the EPD-approved RRS of 1.2 mg/kg. Therefore, a Corrective Action Plan (CAP) was approved by EPD on January 11, 2007 which addressed the groundwater condition. The CAP included a series of three enhanced fluid recovery (EFR) events, followed by a long term program of monitored natural attenuation for groundwater.

EPD required that monitoring be conducted on a quarterly basis in six wells (MW-2, MW-4, MW-5, MW-7, MW-11 and MW-12) and three surface water sampling locations (SW-1, SW-2 and SW-3) with the results reported to EPD semi-annually for a period of at least two years. The EPD later requested in a letter dated September 9, 2008 that the two deep wells on site (MW-3 and DW-1) also be included in the monitoring program.

On February 20, 2009 EPD issued a letter which requested more extensive soil delineation and assessment of groundwater conditions in the area beneath the building because it was suspected to be a potential source area. MACTEC was unable to sample the groundwater beneath the building during Tuesday Morning's occupancy due to limitations on equipment size and the shallow depth to rock.

In response to EPD's February 2009 letter, an Amendment to the Corrective Action Plan for Groundwater, dated March 20, 2009, was submitted which proposed additional soil and groundwater

testing to be conducted within the former dry cleaner space following Tuesday Morning's vacating the property. Deferment of the ninth quarterly monitoring event was also proposed until after the installation of the new wells. EPD approved the amendment in a letter dated June 26, 2009.

In August 2009, nine soil test borings (SB-20 through SB-28) were installed inside the former Tuesday Morning tenant space, three of which were converted to groundwater monitoring wells (MW-13 through MW-15). Soil testing from the borings identified concentrations of PCE which were consistent with previous findings and all below the established Type 4 RRS of 1.2 mg/kg. Groundwater testing from the three interior wells identified only very low concentrations of PCE and its breakdown products in one of the three wells. No VOCs were detected in MW-14, located upgradient of MW-7. Only very low VOC concentrations were detected in MW-13, upgradient of MW-2. The groundwater concentrations were significantly below those detected outside the building and were not indicative of an ongoing source of PCE contamination underneath the building. The results of this assessment were included in the Fifth Semi-Annual Groundwater Monitoring Report, dated October 15, 2009.

Following its review of the report, EPD issued a letter dated February 15, 2010 which requested additional soil sampling and testing in the area outside the building, surrounding MW-7 where the highest groundwater impacts have been consistently recorded. The purpose of this testing was to attempt to locate the source of the groundwater contamination in this area even though previous testing conducted in this area (1993, 2000 and 2001) had identified only low concentrations of PCE in soil. EPD also requested additional analysis of natural attenuation parameters in groundwater and predictive modeling of the groundwater plume. Once again, soil testing from the borings identified concentrations of PCE which were consistent with previous findings and all below the established Type 4 RRS of 1.2 mg/kg.

On October 14, 2010, an application to the Georgia Voluntary Remediation Program (VRP) was submitted to EPD on behalf of PM, Ltd. On November 10, 2011, EPD issued a letter accepting the site into the VRP. This report includes a summary of assessment and monitoring activities conducted at the site in the six months since the previous Progress Report was submitted in May 2012 and serves as the 2nd semi-annual VRP Progress Report.

2.0 ADDITIONAL ASSESSMENT ACTIVITIES

The additional assessment activities completed during the previous six-month period included two quarterly monitoring events, a series of stream flow measurements and an update of the groundwater fate and transport modeling.

2.1 GROUNDWATER SAMPLING AND ANALYSIS

The 2007 CAP approval originally stipulated that groundwater samples be collected from six wells located on site. Two of the wells (MW-2 and MW-7) are located just outside the former dry cleaner space, considered the source area. Three of the wells (MW-4R, MW-5 and MW-11R) are located downgradient, near Hog Wallow Creek. The sixth well (MW-12R) is located off site, just across Hog Wallow Creek. MW-5 and MW-12R are considered sentinel wells as no VOCs have been detected in either of these wells during previous assessments. EPD subsequently requested that the two deep bedrock wells located on site (MW-3 and DW-1) also be sampled during regular monitoring events and that a “point of demonstration” well (MW-16) be installed and incorporated into the monitoring well network.

Prior to sampling, each well was purged to remove stagnant water and allow representative formation water to enter the well. The wells were purged using a peristaltic pump and Teflon lined tubing. Water quality parameters were measured during well purging and are summarized on the attached field data sheets. Samples were collected immediately following purging and placed in containers provided by the laboratory, packed on ice and maintained under chain-of-custody control from the time they were collected until they were released to the laboratory. Surface water samples were also collected directly from three locations along the Creek (SW-1, SW-2 and SW-3).

All water samples were analyzed for VOCs using EPA Method 8260B. In addition, three samples (MW-2, MW-5 and MW-7) were tested for natural attenuation (NA) parameters. The results of the monitoring event are summarized on the attached Tables 1 and 2 and on Figure 1, which include summaries of all previous groundwater testing data obtained on site. Complete laboratory analysis reports can be found in Appendix A.

Groundwater testing results obtained from the source area wells during the two 2012 monitoring events were generally consistent with previous results. VOC concentrations in MW-2 have remained relatively stable during 2012, at concentrations significantly below their historic highs. VOC concentrations in

MW-7 were significantly lower than those observed in the first two 2012 monitoring events and have been steadily declining since 2010. VOC concentrations in MW-16 have remained relatively stable over the last three monitoring events at concentrations below those detected during the initial sampling of this well in February 2012. Very low levels of VOCs were detected in both MW-4R and MW-11R. VOCs were not detected in the two deep wells, MW-3 and DW-1. The monitoring results also indicate that VOC concentrations in the sentinel well MW-12R have remained below detection limits. However, cis-1,2-dichloroethene was detected for the first time just above the detection limit in sentinel well MW-5 during the October 2012 sampling event. No VOCs were detected in the surface water samples tested.

Natural attenuation parameters are monitored in MW-2, MW-5 and MW-7. Elevated levels of alkalinity, ferrous iron, methane and ethane, along with decreased concentrations of nitrate in MW-2 support the observation of significant degradation of chlorinated VOCs in MW-2. Similar conditions, although at lower concentrations, observed in MW-5, also indicate degradation of chlorinated VOCs in this area, as supported by the fact that only very low levels of cis-1,2-dichloroethene have been detected in this well to date. Lower concentrations of alkalinity, ferrous iron, methane and ethane, along with increased concentrations of nitrate illustrate less favorable conditions for degradation in MW-7. These conditions are confirmed by the higher rate of degradation of chlorinated VOCs observed in groundwater samples from these two wells over time. Nevertheless, VOC concentrations in MW-7 have decreased significantly throughout 2012, albeit at a slower rate than was previously observed in MW-2.

2.2 CONTAMINANT FATE AND TRANSPORT MODELING

An analysis of groundwater fate and transport was presented in the 6th Semi-Annual Groundwater Monitoring Report, dated May 14, 2010 to estimate the time required to achieve compliance with applicable RRS and in the VRP Application to model the potential for regulated constituents in groundwater to impact Hog Wallow Creek located downgradient of the former dry cleaner. AMEC utilized the BIOCHLOR software to model the fate and transport of impacted groundwater on site. BIOCHLOR utilizes a combination of site specific data and literature values to determine the various physical properties of the plume and the migration potential of chlorinated VOC constituents. The purpose of the modeling is to predict the migration pattern of a chlorinated solvent plume where no engineering controls or source area reduction measures have been implemented and monitored natural attenuation (MNA) is the groundwater remedial option. The VRP application also included calculations of surface water flow for Hog Wallow Creek to determine the input of regulated constituents from the on-

site plume necessary to result in exceedance of applicable Georgia In-Stream Water Quality standards for the constituents of concern (COCs).

In its November 10, 2011 Comment Letter regarding the VRP Application, EPD issued several comments which requested alterations to the input parameters such as VOC source area concentrations, model run duration and plume dispersivity values.

The model was updated utilizing the requested input parameters, including the June 2010 monitoring data, which contained the highest PCE concentration in MW-7 measured to date as the source concentration. The simulation time was also begun on that date and the modeling period extended for a duration of 25 years. By the end of the 25-year period, steady state conditions had been achieved in MW-11R. In addition, a Y-dispersivity coefficient near zero was selected to provide a uniform concentration across the plume front and allow a more conservative estimate of VOC input to the creek to be made. Changing these input factors resulted in a more conservative estimate for VOC migration into the creek. The resulting VOC concentrations could then be compared to the maximum allowable COC concentrations that ensure compliance with the In-stream Water Quality Standards.

In addition, a “point of demonstration” well (MW-16) was installed between MW-7 and MW-11R in February 2012 and included in the two latest groundwater monitoring events. These data were incorporated into the model as well to help refine the model inputs.

The model was re-run utilizing the revised input VOC concentrations and start date and the results of the updated analysis were presented in the May 2012 VRP Progress Report. The results of the updated model runs, with the EPD requested changes to the input parameters, indicated that COC concentrations in MW-11R were predicted to remain well below the maximum allowable concentrations as summarized in Table 1. The model was run again with updated field observation values for MW-7, MW-16 and MW-11R. As a conservative measure, the source area concentration from June 2010 was retained, although the concentration in MW-7 has been significantly lower throughout 2012 and continues to trend downward. In addition, results from MW-11R during the current sampling event returned to the very low pre-2010 concentrations; therefore, as a conservative approach, the higher VOC concentrations from the April 2012 sampling event were maintained as the field observational value for this well.

EPD required that the stream flow be gauged on a monthly basis over a period of at least six months during the expected dry part of the year to determine a reasonable low-flow value for Hog Wallow Creek. The stream gauging began in May 2012 and extended through October 2012 to incorporate the driest six-month period of the year. Stream flow was gauged by measuring water flow across a segment of the stream, located just downstream of MW-5, that is generally free of rocks, debris or other impediments to flow. A stream flow meter was used to measure the depth of water and the water velocity at mid-depth in six-inch intervals across the breadth of the stream. The measured values for each segment were then summed to estimate total stream flow. The gauging measurements for the monthly gauging events are summarized in Table 4.

The results of the stream flow gauging indicated the flow varied from a high of approximately 1.9 cubic feet per second (cfs) in May 2012 to a low of approximately 0.37 cfs in October 2012. The lowest of these values, 0.37 cfs, was measured following an extended dry spell and likely represents a low-level flow condition for Hog Wallow Creek. This value also closely corresponds to the previously assumed value of 0.38 cfs estimated for the site.

The maximum allowable concentrations of COCs at MW-11R protective of in-stream water quality standards have been updated to reflect the measured low flow conditions for the creek. As shown on Table 1, the COC concentrations detected to date in MW-11R have remained well below the maximum allowable concentrations.

Table 1 - Maximum allowable concentrations of COCs at MW-11R protective of in-stream water quality standards, parameter C₁

COC	Q ₁ (cfs)	Q ₂ = Q ₃ = 7Q ₁₀ (cfs)	C ₂ (µg/L)	Maximum Allowable Concentration at MW-11R C ₁ (µg/L)	Maximum Predicted Concentration at MW-11R (µg/L)	April 2012 Measured Concentration at MW-11R (µg/L)	In-stream Criteria (µg/L)
PCE	0.000131915	0.37	3.297875	9,250	2,120	220	3.3
TCE	0.000131915	0.37	30.0280197	84,220	1,330	55	30
DCE	0.000131915	0.37	10001.2399	28,805,000	715	149	10,000
VC	0.000131915	0.37	2.39529868	6,710	58	<2.0	2.4

- Q₁ - Flow rate of impacted groundwater entering the stream segment (ft³/sec)
- Q₂ - Measured low flow in the stream immediately upgradient of the Site (ft³/sec)
- Q₃ - Measured low flow in the stream immediately downgradient of the Site; Q₃ = Q₂ since Q₂ >> Q₁

- C₁ - Dissolved concentration of COC in groundwater (in µg/L) represented by MW-11R.
- C₂ - Resulting concentration of COC in the stream after mixing (in µg/L)

The modeling results are consistent with the groundwater monitoring data obtained at the site. To date, no chlorinated VOC impacts to surface water have been detected on site since monitoring began, as predicted by the model. The highest VOC concentrations measured in MW-11R remain several orders of magnitude below the maximum allowable concentrations that would be protective of the surface water. As indicated in Table 1, after extending the model run to the point at which steady state conditions are achieved in MW-11R (approximately 25 years), the predicted VOC concentrations in MW-11R all remain well below the maximum allowable concentrations that would be protective of the surface water.

3.0 ENVIRONMENTAL COVENANT

On May 3, 2012, a Uniform Environmental Covenant (UEC) was executed and submitted to EPD. The UEC restricts the use of groundwater on the subject site. A response from EPD regarding the submission of the UEC has not been received.

4.0 CONCLUSIONS AND RECOMMENDATIONS

Based on the results of the recent assessment and monitoring activities, we offer the following conclusions and recommendations.

- Groundwater monitoring results indicate concentrations of total chlorinated VOCs in MW-2 have remained relatively stable during the previous monitoring period at concentrations well below historically high levels. Total VOC concentrations in MW-7 have also decreased since their historic highs in 2010, although to a lesser extent. The degradation product concentrations present in MW-2 still indicate significant biodegradation of PCE is occurring around this well whereas PCE degradation appears less significant around MW-7 although definite evidence of degradation is observed.
- COC concentrations in MW-16, located downgradient of MW-7, have also dropped considerably since the well was first sampled in February 2012. The rate of decrease observed in this well is generally consistent with that observed in MW-7.
- VOCs were not detected in the deep rock wells MW-3 and DW-1 during the two most recent quarterly sampling events.
- To date, no VOCs have been detected in the sentinel well MW-12R.
- Cis-1,2-dichloroethene was detected for the first time in the sentinel well MW-5 at a concentration just above the detection limit during the October 2012 sampling event. Concentrations of cis-1,2-dichloroethene have been observed in MW-4, the nearest well upstream of MW-5, since 2001 and have not changed appreciably in that time period.
- To date, no chlorinated VOCs have been detected in surface water samples.
- Stream flow measurements revealed that low flow conditions are consistent with the flow condition utilized in previous calculations to determine maximum COC concentrations in

groundwater that are protective of surface water. The allowable concentrations of COCs in groundwater have been updated to reflect the measured surface water flow rate.

- VOC concentrations detected in MW-11R, adjacent to Hog Wallow Creek, are well below the concentrations calculated to be protective of the surface water body.
- Based on the groundwater fate and transport modeling results and surface water flow calculations, migration of the plume to Hog Wallow Creek will not result in exceedance of Georgia In-stream Water Quality Standards for the COCs.
- The natural attenuation parameters monitored in groundwater support the observation of significant degradation of chlorinated VOCs in MW-2 and less favorable conditions for degradation in MW-7. The trend of recent data in MW-7 has shown decreases in VOC concentrations in MW-7.
- Quarterly groundwater monitoring over the next six-month period will be continued. These results will be incorporated, along with the new monitoring data into an updated fate and transport model which will be included in the next Semi-Annual Progress Report to be submitted in May 2013.
- EPD had previously requested a vapor intrusion evaluation and additional indoor air monitoring be conducted. A vapor intrusion evaluation was previously submitted to EPD with the understanding that additional air sampling would be postponed until a tenant was found for the former Tuesday Morning tenant space. To date, this space remains vacant. The vapor intrusion evaluation and additional indoor air monitoring required by EPD will be conducted upon leasing of the former Tuesday Morning tenant space, as previously agreed to by EPD in their letter dated June 26, 2009.

GROUNDWATER SCIENTIST STATEMENT

I certify that I am a qualified groundwater scientist who has received a baccalaureate or post-graduate degree in the natural sciences or engineering, and have sufficient training and experience in groundwater hydrology and related fields, as demonstrated by state registration and completion of accredited university courses, that enable me to make sound professional judgments regarding groundwater monitoring and contaminant fate and transport. I further certify that this report was prepared in conjunction with others working my direction.



Mr. Stephen R. Foley, P.G.
Georgia Registration No. 1057



TABLES

TABLE 1 – SUMMARY OF GROUNDWATER/SURFACE WATER TESTING, µg/l

Well No.	Sampling Date	PCE	TCE	Trans-1,2-DCE	Cis-1,2-DCE	Vinyl Chloride	Chloroform	Styrene
MW-2	7/00	790	303	171	626	3	<2	<2
	7/8/05	880	440	450	2600	55	<5	<5
	9/11/06	2700	560	98	2200	150	<5	<5
	3/21/07	1200	280	160	2000	620	<5	<5
	7/3/07	1200	140	30	600	710	<5	<5
	8/17/07	250	61	37	540	1100	<5	<5
	11/07	660	220	16	590	660	<5	<5
	1/18/08	370	120	8.8	340	160	<5	<5
	4/29/08	410	150	14	390	310	<5	<5
	8/15/08	510	170	10	260	390	<5	<5
	10/28/08	350	130	12	320	190	<5	<5
	2/27/09	620	230	6.1	300	480	<5	<5
	8/19/09	220	240	7.2	400	190	<5	<5
	12/16/09	160	840	70	1100	43	<5	<5
	3/30/10	270	920	78	790	93	<5	<5
	6/30/10	43	690	83	1200	100	<5	<5
	2/9/12	190	230	6.9	380	40	<5	<5
4/19/12	190	130	<5	170	47	<5	<5	
7/18/12	190	190	<5	190	53	<5	<5	
10/17/12	180	140	<5	190	77	<5	<5	
MW-3	8/15/01	<2	<2	<2	<2	<2	10	<2
	7/13/05	<5	<5	<5	<5	<2	<5	<5
	10/28/08	<5	<5	<5	<5	<2	<5	<5
	10/28/08(dup)	<5	<5	<5	<5	<2	<5	<5
	2/27/09	<5	<5	<5	<5	<2	<5	<5
	8/19/09	<5	<5	<5	<5	<2	<5	<5
	12/16/09	<5	<5	<5	<5	<2	<5	<5
	3/30/10	6.4	<5	<5	<5	<2	<5	<5
	6/30/10	<5	<5	<5	<5	<2	<5	<5
	6/30/10 (dup)	<5	<5	<5	<5	<2	<5	<5
	2/8/12	<5	<5	<5	<5	<2	<5	<5
	4/19/12	<5	<5	<5	<5	<2	<5	<5
	7/18/12	<5	<5	<5	<5	<2	<5	<5
10/17/12	<5	<5	<5	<5	<2	<5	<5	
MW-4	8/15/01	3	<2	<2	10	<2	<2	<2
	7/13/05	15	<5	<5	<5	<2	<5	<5
	9/11/06	<5	<5	<5	14	2	<5	<5
	3/21/07	5.9	<5	<5	<5	<2	<5	<5
MW-4R	7/3/07	6.9	<5	<5	6.9	<2	<5	<5
	11/07	8.4	<5	<5	<5	<2	<5	<5
	1/18/08	<5	<5	<5	<5	<2	<5	<5
	4/29/08	<5	<5	<5	<5	<2	<5	<5
	8/15/08	No Sample	<5	No Sample	No Sample	No Sample	No Sample	No Sample
	10/28/08	<5	<5	<5	<5	<2	<5	<5
	2/27/09	<5	No Sample	<5	<5	<2	<5	<5
	8/19/09	<5	<5	<5	<5	<2	<5	<5
	12/16/09	5.8	<5	<5	<5	<2	<5	<5
	3/30/10	<5	<5	<5	9.8	<2	<5	<5
	6/30/10	<5	<5	<5	9.8	<2	<5	<5
	2/8/12	<5	5.8	<5	<5	<2	<5	<5
	2/8/12	<5	6.5	<5	8.0	<2	<5	<5
	4/19/12	<5	<5	<5	<5	<2	<5	<5
7/18/12	<5	<5	<5	6.4	<2	<5	<5	
10/17/12	<5	<5	<5	6.6	<2	<5	<5	

TABLE 1 – SUMMARY OF GROUNDWATER/SURFACE WATER TESTING, µg/l

Well No.	Sampling Date	PCE	TCE	Trans-1,2-DCE	Cis-1,2-DCE	Vinyl Chloride	Chloroform	Styrene
MW-5	8/15/01	<2	<2	<2	<2	<2	<2	<2
	7/8/05	<5	<5	<5	<5	<2	<5	<5
	3/21/07	<5	<5	<5	<5	<2	<5	<5
	7/3/07	<5	<5	<5	<5	<2	<5	<5
	11/07	<5	<5	<5	<5	<2	<5	<5
	1/18/08	<5	<5	<5	<5	<2	<5	<5
	4/29/08	<5	<5	<5	<5	<2	<5	<5
	8/15/08	<5	<5	<5	<5	<2	<5	<5
	10/28/08	<5	<5	<5	<5	<2	<5	<5
	2/27/09	<5	<5	<5	<5	<2	<5	<5
	2/27/09 (dup)	<5	<5	<5	<5	<2	<5	<5
	8/19/09	<5	<5	<5	<5	<2	<5	<5
	12/16/09	<5	<5	<5	<5	<2	<5	<5
	3/30/10	<5	<5	<5	<5	<2	<5	<5
	6/30/10	<5	<5	<5	<5	<2	<5	<5
	2/9/12	<5	<5	<5	<5	<2	<5	<5
	4/19/12	<5	<5	<5	<5	<2	<5	<5
	7/18/12	<5	<5	<5	<5	<2	<5	<5
10/17/12	<5	<5	<5	<5	7.0	<2	<5	<5
10/17/12 (dup)	<5	<5	<5	<5	5.9(dup)	<2	<5	<5
MW-6	3/14/02	<2	<2	<2	<2	<2	<2	<2
	7/8/05	<5	<5	<5	<5	<5	<5	<5
MW-7	3/14/02	830	130	18	45	<2	<2	<5
	7/8/05	1000	180	18	67	<2	<5	<5
	9/11/06	1800	260	58	100	<2	<5	<5
	3/21/07	2200	270	30	98	<2	<5	<5
	7/3/07	2900	210	37	87	<2	<5	<5
	7/3/07 (dup)	2400	200	29	96	<2	<5	<5
	8/17/07	1400	85	<5	43	<2	<5	<5
	11/07	1900	240	27	180	<2	<5	<5
	11/07 (dup)	1600	280	23	110	<2	<5	<5
	1/18/08	1700	130	14	85	<2	<5	<5
	1/18/08 (dup)	1800	140	11	70	<2	<5	<5
	4/29/08	3100	220	11	75	<2	<5	<5
	4/29/08 (dup)	3100	190	12	84	<2	<5	<5
	8/15/08	2100	190	6	91	<2	<5	<5
	10/28/08	2100	350	12	100	<2	<5	<5
	2/27/09	1800	370	9.9	120	<2	<5	<5
	8/19/09	2900	370	13	89	<2	<5	<5
	12/16/09	4400	680	47	250	<2	<5	<5
3/30/10	3800	560	47	210	<2	<5	<5	
6/30/10	4800	830	69	280	<2	<5	<5	
2/9/12	2900	470	36	220	<2	<5	<5	
4/19/12	3700	530	33	210	<2	<5	<5	
7/18/12	2500	330	15	120	<2	<5	<5	
10/17/12	2000	360	5.7	89	<2	<5	<5	
MW-8	3/14/02	<2	<2	<2	<2	<2	<2	<2
	7/8/05	<5	<5	<5	<5	<2	<5	<5
MW-9	3/14/02	<2	<2	<2	<2	<2	7	<2
	7/8/05	<5	<5	<5	<5	<2	<5	<5
MW-10	3/14/02	<2	<2	<2	<2	<2	<2	<2
	7/8/05	<5	<5	<5	<5	<5	<5	<5
MW-11	4/4/02	18	18	4	28	2	<2	<2
	7/8/05	<5	<5	<5	<5	<2	<5	<5
	3/21/07	<5	<5	<5	<5	<2	<5	<5

TABLE 1 – SUMMARY OF GROUNDWATER/SURFACE WATER TESTING, µg/l

Well No.	Sampling Date	PCE	TCE	Trans-1,2-DCE	Cis-1,2-DCE	Vinyl Chloride	Chloroform	Styrene
MW-11R	7/3/07	<5	<5	<5	5.6	<2	<5	<2
	11/07	<5	<5	<5	<5	<2	<5	<5
	1/18/08	<5	<5	<5	5.5	<2	<5	<5
	4/29/08	<5	8.6	<5	26	2.2	<5	<5
	8/15/08	<5	<5	<5	<5	<2	<5	<5
	10/28/08	<5	<5	<5	<5	<2	<5	<5
	2/27/09	<5	<5	<5	7.6	<2	<5	<5
	8/19/09	<5	<5	<5	<5	<2	<5	<5
	12/16/09	<5	<5	<5	<5	<2	<5	<5
	3/30/10	110	65	11	170	5.7	<5	<5
	6/30/10	No Sample	No Sample	No Sample	No Sample	No Sample	No Sample	No Sample
	2/8/12	92	81	14	210	<2	<5	<5
	4/19/12	26	92	13	260	10	<5	<5
7/18/12	No Sample	No Sample	No Sample	No Sample	No Sample	No Sample	No Sample	
10/17/12	<5	<5	<5	<5	6.6	<5	<5	
MW-12	6/12/02	<2	<2	<2	<2	<2	<2	<2
	7/13/05	<5	<5	<5	<5	<2	<5	<5
	3/21/07	<5	<5	<5	<5	<2	<5	<5
MW-12R	7/3/07	<5	<5	<5	<5	<2	<5	<5
	11/07	<5	<5	<5	<5	<2	<5	<5
	1/18/08	<5	<5	<5	<5	<2	<5	<5
	4/29/08	<5	<5	<5	<5	<2	<5	<5
	8/15/08	<5	<5	<5	<5	<2	<5	<5
	10/28/08	<5	<5	<5	<5	<2	<5	<5
	2/27/09	<5	<5	<5	<5	<2	<5	<5
	8/19/09	<5	<5	<5	<5	<2	<5	<5
	12/16/09	<5	<5	<5	<5	<2	<5	<5
	3/30/10	<5	<5	<5	<5	<2	<5	<5
	6/30/10	<5	<5	<5	<5	<2	<5	<5
	2/8/12	<5	<5	<5	<5	<2	<5	<5
	4/19/12	<5	<5	<5	<5	<2	<5	<5
7/18/12	<5	<5	<5	<5	<2	<5	<5	
10/17/12	<5	<5	<5	<5	<2	<5	<5	
DW-1	3/22/06	<5	<5	<5	<5	<2	<5	<5
	10/28/08	6.6	<5	<5	<5	<2	<5	<5
	2/27/09	8.5	<5	<5	<5	<2	<5	<5
	8/19/09	<5	<5	<5	<5	<2	<5	<5
	12/16/09	<5	<5	<5	<5	<2	<5	<5
	12/16/09 (dup)	<5	<5	<5	<5	<2	<5	<5
	3/30/10	26	<5	<5	<5	<2	<5	<5
	3/30/10 (dup)	27	<5	<5	<5	<2	<5	<5
	6/30/10	34	6.4	<5	<5	<2	<5	<5
	2/9/12	<5	<5	<5	<5	<2	<5	<5
	4/19/12	<5	<5	<5	<5	<2	<5	<5
7/18/12	5.8	<5	<5	<5	<2	<5	<5	
10/17/12	<5	<5	<5	<5	<2	<5	<5	
MW-13	8/19/09	43	9.5	<5	6.3	<2	<5	<5
MW-14	8/19/09	<5	<5	<5	<5	<2	<5	<5
	8/19/09 (dup)	<5	<5	<5	<5	<2	<5	<5
MW-15	8/19/09	<5	<5	<5	<5	<2	<5	<5
MW-16	2/13/12	340	160	85	510	2.3	<5	<5
	4/19/12	220	55	19	130	<2	<5	<5
	4/19/12 (dup)	190	57	20	140	<2	<5	<5
	7/18/12	180	38	7.6	96	<2	<5	<5
	10/17/12	150	60	5.4	100	<2	<5	<5

TABLE 1 – SUMMARY OF GROUNDWATER/SURFACE WATER TESTING, µg/l								
Well No.	Sampling Date	PCE	TCE	Trans-1,2-DCE	Cis-1,2-DCE	Vinyl Chloride	Chloroform	Styrene
SW-1	8/15/01	<5	<5	<5	<5	<2	<5	<5
	3/21/07	<5	<5	<5	<5	<2	<5	<5
	7/3/07	<5	<5	<5	<5	<2	<5	<5
	11/07	<5	<5	<5	<5	<2	<5	<5
	1/18/08	<5	<5	<5	<5	<2	<5	<5
	4/29/08	<5	<5	<5	<5	<2	<5	<5
	8/15/08	<5	<5	<5	<5	<2	<5	<5
	10/28/08	<5	<5	<5	<5	<2	<5	<5
	2/27/09	<5	<5	<5	<5	<2	<5	<5
	8/19/09	<5	<5	<5	<5	<2	<5	<5
	12/16/09	<5	<5	<5	<5	<2	<5	<5
	3/30/10	<5	<5	<5	<5	<2	<5	5.1
	6/30/10	<5	<5	<5	<5	<2	<5	<5
	2/8/12	<5	<5	<5	<5	<2	<5	<5
4/19/12	<5	<5	<5	<5	<2	<5	<5	
7/19/12	<5	<5	<5	<5	<2	<5	<5	
10/17/12	<5	<5	<5	<5	<2	<5	<5	
SW-2	8/15/01	<5	<5	<5	<5	<2	<5	<5
	3/21/07	<5	<5	<5	<5	<2	<5	<5
	7/3/07	<5	<5	<5	<5	<2	<5	<5
	11/07	<5	<5	<5	<5	<2	<5	<5
	1/18/08	<5	<5	<5	<5	<2	<5	<5
	4/29/08	<5	<5	<5	<5	<2	<5	<5
	8/15/08	<5	<5	<5	<5	<2	<5	<5
	10/28/08	<5	<5	<5	<5	<2	<5	<5
	2/27/09	<5	<5	<5	<5	<2	<5	<5
	8/19/09	<5	<5	<5	<5	<2	<5	<5
	12/16/09	<5	<5	<5	<5	<2	<5	<5
	3/30/10	<5	<5	<5	<5	<2	<5	5.6
	6/30/10	<5	<5	<5	<5	<2	<5	<5
	2/8/12	<5	<5	<5	<5	<2	<5	<5
4/19/12	<5	<5	<5	<5	<2	<5	<5	
7/19/12	<5	<5	<5	<5	<2	<5	<5	
10/17/12	<5	<5	<5	<5	<2	<5	<5	
SW-3	7/8/05	<5	<5	<5	<5	<2	<5	<5
	3/21/07	<5	<5	<5	<5	<2	<5	<5
	7/3/07	<5	<5	<5	<5	<2	<5	<5
	11/07	<5	<5	<5	<5	<2	<5	<5
	1/18/08	<5	<5	<5	<5	<2	<5	<5
	4/29/08	<5	<5	<5	<5	<2	<5	<5
	8/15/08	<5	<5	<5	<5	<2	<5	<5
	10/28/08	<5	<5	<5	<5	<2	<5	<5
	2/27/09	<5	<5	<5	<5	<2	<5	<5
	8/19/09	<5	<5	<5	<5	<2	<5	<5
	12/16/09	<5	<5	<5	<5	<2	<5	<5
	3/30/10	<5	<5	<5	<5	<2	<5	5.6
	6/30/10	<5	<5	<5	<5	<2	<5	<5
	2/8/12	<5	<5	<5	<5	<2	<5	<5
4/19/12	<5	<5	<5	<5	<2	<5	<5	
7/19/12	<5	<5	<5	<5	<2	<5	<5	
10/17/12	<5	<5	<5	<5	<2	<5	<5	

µg/l - micrograms per liter

TABLE 2 – SUMMARY OF NATURAL ATTENUATION PARAMETERS IN GROUNDWATER

Well No.	Sampling Date	pH	Specific Conductivity mS/cm	Turbidity NTU	Dissolved Oxygen mg/L	Oxidation-Reduction Potential mV
MW-2	3/30/10	5.71	0.287	168	6.00	270
	6/30/10	5.90	0.910	7.8	2.02	-39
	2/9/12	6.00	0.366	9.4	2.33	-42
	4/19/12	6.16	0.339	13.2	0.18	-36
	7/18/12	6.04	0.343	56.8	0.46	-51
MW-5	10/17/12	6.25	0.388	256	0.51	-82
	3/30/10	5.68	0.198	11	6.71	157
	6/30/10	5.29	1.32	10.2	1.53	98
	2/9/12	5.51	0.678	8.7	1.1	117
	4/19/12	5.25	0.095	11.2	0.0	132
MW-7	7/18/12	5.37	0.122	7.9	0.0	188
	10/17/12	5.24	0.080	8.2	0.0	261
	3/30/10	4.81	0.231	2.91	4.64	479
	6/30/10	4.80	0.191	10.4	2.32	331
	2/9/12	4.78	0.178	8.7	1.18	341
	4/19/12	5.18	0.272	8.6	0.0	368
	7/18/12	5.07	0.219	6.9	0.0	307
	10/17/12	5.03	0.144	7.1	0.0	274

mg/l - milligrams per liter (parts per million)
 µg/l - micrograms per liter (parts per billion)
 mS/cm - microSiemens per centimeter
 mV - millivolts
 NTU - Nephelometric Turbidity Units

TABLE 2 – SUMMARY OF NATURAL ATTENUATION PARAMETERS IN GROUNDWATER (Continued)

Well No.	Sampling Date	Alkalinity mg/L	Sulfide mg/L	Ferrous Iron mg/L	Methane µg/l	Ethene µg/l	Ethane µg/l	Chloride mg/l	Nitrate mg/l	Nitrite mg/l	Sulfate mg/l
MW-2	3/30/10	102	<2.0	27.0	1400	11	<9	NT	NT	NT	NT
	6/30/10	103	<2.0	33.4	1100	10	<9	11	<0.25	<0.25	6.8
	2/9/12	141	<2.0	74.8	2300	30	<9	6.4	<0.25	<0.25	3.0
	4/19/12	96.8	<2.0	42.1	2300	36	<9	7.7	<0.25	<0.25	<1.0
	7/18/12	113	<2.0	44.6	3000	42	<9	6.7	<0.25	<0.25	<1.0
MW-5	10/18/12	112	<2.0	0.678	1400	<7	<9	6.9	<0.25	<0.25	1.4
	3/30/10	45.5	<2.0	1.40	21	<7	<9	NT	NT	NT	NT
	6/30/10	32.8	<2.0	1.38	44	<7	<9	15	0.71	<0.25	4.8
	2/9/12	21.1	<2.0	0.23	7	<7	<9	31	<0.25	<0.25	9.7
	4/19/12	22.3	<2.0	0.65	130	<7	<9	17	0.78	<0.25	2.5
MW-7	7/18/12	21.5	<2.0	0.422	18	<7	<9	13	1.4	<0.50	<2.0
	10/17/12	12.5	<2.0	<0.10	<4	<7	<9	12	2.0	<0.25	1.0
	3/30/10	15.0	<2.0	<0.10	5.0	<7	<9	NT	NT	NT	NT
	6/30/10	15.9	<2.0	<0.10	14	<7	<9	24	4.7	<0.25	15
	2/9/12	10.4	<2.0	<0.10	15	<7	<9	20	5.1	<0.25	11
MW-7	4/19/12	<10.0	<2.0	<0.10	<4	<7	<9	20	5.4	<0.25	8.2
	7/18/12	12.7	<2.0	<0.10	<4	<7	<9	17	4.7	<1.2	14
	10/17/12	<10.0	<2.0	<0.10	16	<7	<9	12	2.3	<0.25	19

mg/l - milligrams per liter (parts per million)

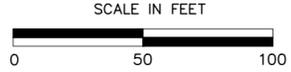
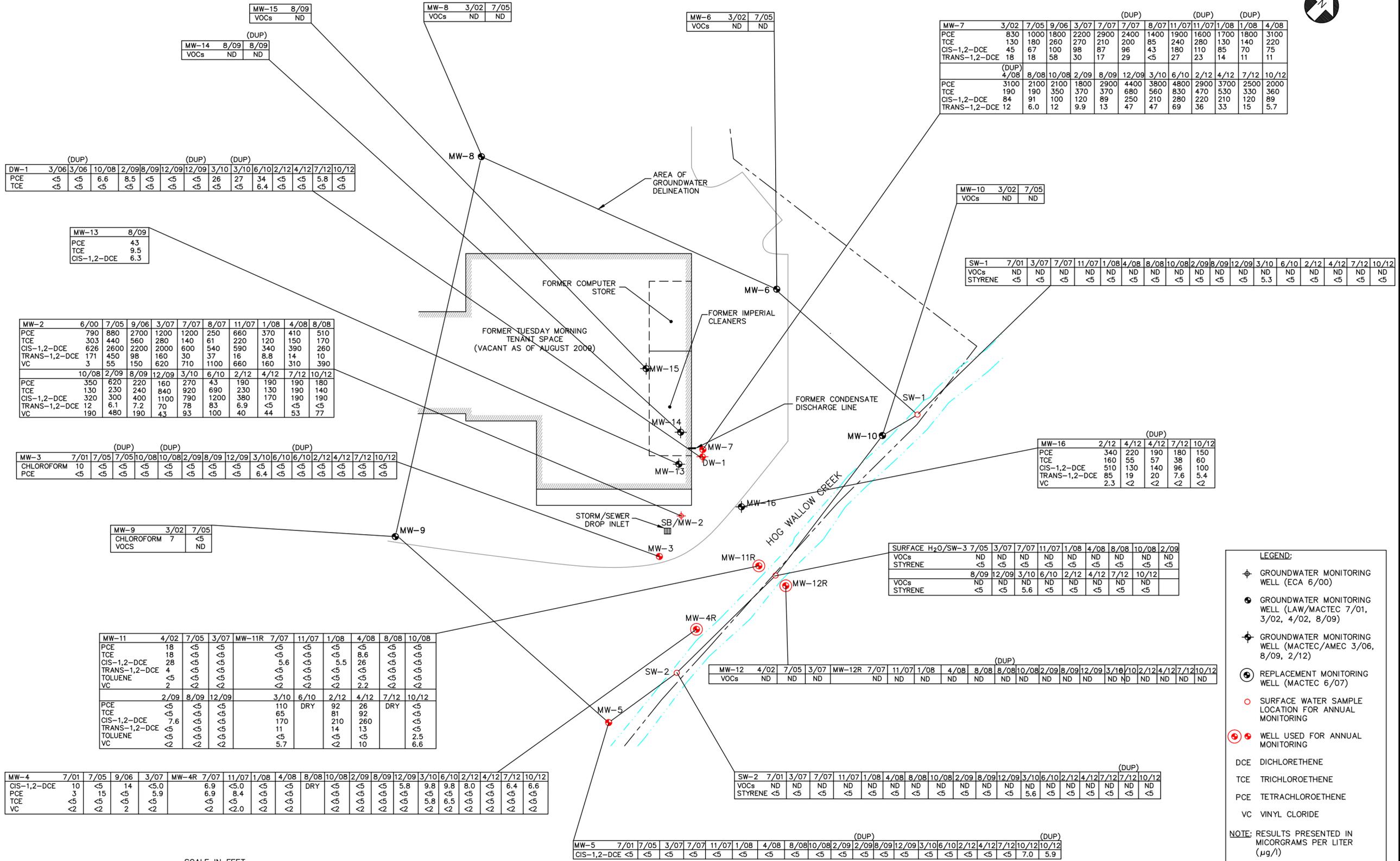
µg/l - micrograms per liter (parts per billion)

TABLE 3 – MONITORING WELL DATA, 10/17/12

Well No.	Well Depth, BGS, Ft.	Screened Interval, Ft.	Ground Surface Elevation, Ft.	Top of Casing Elevation, Ft.	Depth to Water, TOC Ft.	Water Table Elevation, Ft.	Material Monitored
MW-2	24	14 - 24	1027.15	1026.80	24.05	1002.75	Soil
MW-3	52	47 - 52	1026.99	1026.83	24.97	1001.86	Bedrock
MW-4R	7.25	5 - 8	1006.87	1009.62	9.35	1000.27	Soil
MW-5	6	4 - 7	1005.06	1007.51	7.40	1000.11	Soil
MW-6	33	23 - 33	1030.35	1030.08	25.72	1004.36	Soil
MW-7	33	23 - 33	1029.91	1029.59	26.71	1002.88	Transitional Zone
MW-8	21	11 - 21	1029.96	1029.61	13.96	1015.65	Soil
MW-9	30	20 - 30	1027.69	1027.44	24.63	1002.81	Soil
MW-11R	5.5	3 - 5.5	1007.52	1005.32	4.92	1000.40	Soil
MW-12R	5.5	3 - 5.5	1004.82	1003.57	4.11	999.46	Soil
MW-16	33	23 - 33	1029.08	1028.69	26.54	1002.15	Transitional Zone
DW-1	55.5	50.5 - 55.5	1029.76	1029.46	26.49	1002.97	Bedrock

BGS - Below Ground Surface
 TOC - Top of Casing

FIGURES



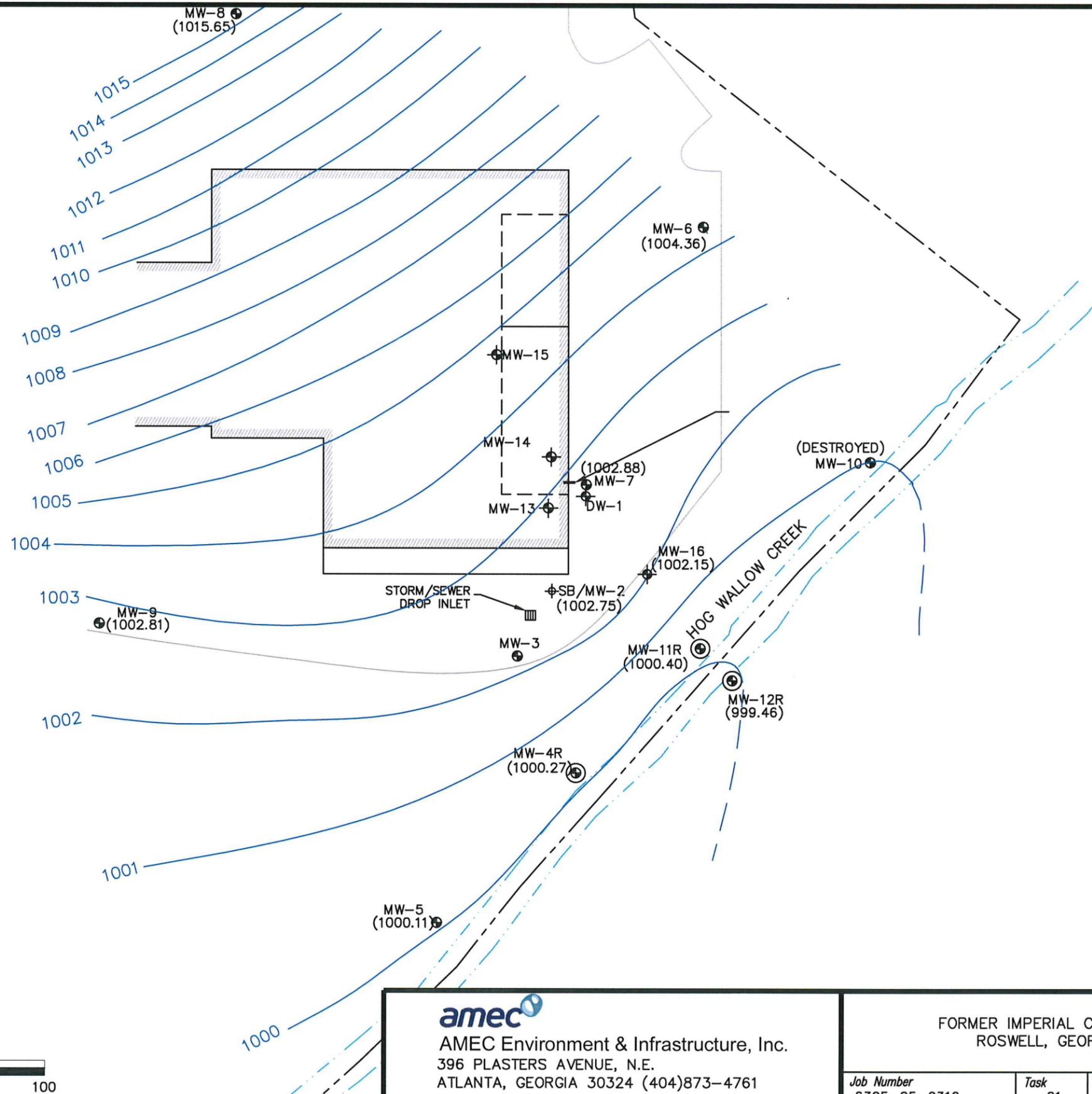
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DRAWN	RBT				
CHECKED	SF				
IN CHARGE					
REV	DATE	BY	SUB APP	DESCRIPTION	DATE
					OCT 2012

FORMER IMPERIAL CLEANERS
ROSWELL, GEORGIA

AMEC Environment & Infrastructure, Inc.
396 PLASTERS AVENUE, N.E.
ATLANTA, GEORGIA (404) 873-4761

CUMULATIVE GROUNDWATER TESTING RESULTS

SCALE	AS SHOWN
CONTRACT	6305-05-0319
FIGURE NO.	1
REV	
PAGE NO.	



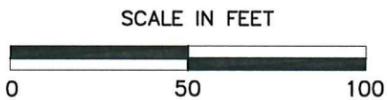
LEGEND:

- ⊕ GROUNDWATER MONITORING WELL (ECA 7/00)
- ⊕ GROUNDWATER MONITORING WELL (LAW/MACTEC 7/01, 3/02, 4/02)
- ⊕ GROUNDWATER MONITORING WELL (MACTEC/AMEC 3/06, 8/09, 2/12)
- ⊕ MACTEC REPLACEMENT WELL (6/07).

(1000.30) GROUNDWATER ELEVATION

— 1005 GROUNDWATER CONTOUR

NOTE: WATER TABLE ELEVATIONS FROM THOSE WELLS SCREENED AT OR BELOW THE TOP OF ROCK WERE NOT INCORPORATED INTO THE POTENTIOMETRIC SURFACE PLAN.



amec
 AMEC Environment & Infrastructure, Inc.
 396 PLASTERS AVENUE, N.E.
 ATLANTA, GEORGIA 30324 (404)873-4761

FORMER IMPERIAL CLEANERS ROSWELL, GEORGIA				POTENTIOMETRIC SURFACE MAP OCTOBER 17, 2012		
Job Number 6305-05-0319	Task 01	Date OCT 2012	Scale AS SHOWN	Drawn By TG	Approved By	Figure 2

APPENDIX A
LABORATORY DATA REPORTS



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

July 26, 2012

Steve Foley
AMEC E&I, Inc.
396 Plasters Ave
Atlanta GA 30324

TEL: (404) 817-0152
FAX: (404) 817-0183

RE: Imperial Cleaners

Dear Steve Foley:

Order No: 1207D24

Analytical Environmental Services, Inc. received 13 samples on 7/19/2012 1:18:00 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 07/01/12-06/30/13.
- 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.

Kathryn Waters
Project Manager

Client: AMEC E&I, Inc.
Project: Imperial Cleaners
Lab ID: 1207D24

Case Narrative

Sample Receiving Nonconformance:

Sample "MW-11" (1207D24-008A) was listed on the Chain of Custody (COC), but the sample was not received by the laboratory.

Samples 1207D24-001, -002, and -003 were received outside EPA/Method specified holding time of 24 HRS for Ferrous Iron by method SM3500-FE D. The laboratory proceeded with the analysis per written instructions on the chain of custody.

Ion Chromatography Analysis by Method 9056:

Due to sample matrix, sample(s) 1207D24-001E and -006E required a dilution during preparation and/or analysis resulting in elevated reporting limits.

Analytical Environmental Services, Inc

Date: 26-Jul-12

Client: AMEC E&I, Inc.	Client Sample ID: MW-7
Project Name: Imperial Cleaners	Collection Date: 7/18/2012 9:10:00 AM
Lab ID: 1207D24-001	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	164201	1	07/25/2012 00:16	DB
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	164201	1	07/25/2012 00:16	DB
1,1,2-Trichloroethane	BRL	5.0		ug/L	164201	1	07/25/2012 00:16	DB
1,1-Dichloroethane	BRL	5.0		ug/L	164201	1	07/25/2012 00:16	DB
1,1-Dichloroethene	BRL	5.0		ug/L	164201	1	07/25/2012 00:16	DB
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	164201	1	07/25/2012 00:16	DB
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	164201	1	07/25/2012 00:16	DB
1,2-Dibromoethane	BRL	5.0		ug/L	164201	1	07/25/2012 00:16	DB
1,2-Dichlorobenzene	BRL	5.0		ug/L	164201	1	07/25/2012 00:16	DB
1,2-Dichloroethane	BRL	5.0		ug/L	164201	1	07/25/2012 00:16	DB
1,2-Dichloropropane	BRL	5.0		ug/L	164201	1	07/25/2012 00:16	DB
1,3-Dichlorobenzene	BRL	5.0		ug/L	164201	1	07/25/2012 00:16	DB
1,4-Dichlorobenzene	BRL	5.0		ug/L	164201	1	07/25/2012 00:16	DB
1,4-Dioxane	BRL	150		ug/L	164201	1	07/25/2012 00:16	DB
2-Butanone	BRL	50		ug/L	164201	1	07/25/2012 00:16	DB
2-Hexanone	BRL	10		ug/L	164201	1	07/25/2012 00:16	DB
4-Methyl-2-pentanone	BRL	10		ug/L	164201	1	07/25/2012 00:16	DB
Acetone	BRL	50		ug/L	164201	1	07/25/2012 00:16	DB
Benzene	BRL	5.0		ug/L	164201	1	07/25/2012 00:16	DB
Bromodichloromethane	BRL	5.0		ug/L	164201	1	07/25/2012 00:16	DB
Bromoform	BRL	5.0		ug/L	164201	1	07/25/2012 00:16	DB
Bromomethane	BRL	5.0		ug/L	164201	1	07/25/2012 00:16	DB
Carbon disulfide	BRL	5.0		ug/L	164201	1	07/25/2012 00:16	DB
Carbon tetrachloride	BRL	5.0		ug/L	164201	1	07/25/2012 00:16	DB
Chlorobenzene	BRL	5.0		ug/L	164201	1	07/25/2012 00:16	DB
Chloroethane	BRL	10		ug/L	164201	1	07/25/2012 00:16	DB
Chloroform	BRL	5.0		ug/L	164201	1	07/25/2012 00:16	DB
Chloromethane	BRL	10		ug/L	164201	1	07/25/2012 00:16	DB
cis-1,2-Dichloroethene	120	5.0		ug/L	164201	1	07/25/2012 00:16	DB
cis-1,3-Dichloropropene	BRL	5.0		ug/L	164201	1	07/25/2012 00:16	DB
Cyclohexane	BRL	5.0		ug/L	164201	1	07/25/2012 00:16	DB
Dibromochloromethane	BRL	5.0		ug/L	164201	1	07/25/2012 00:16	DB
Dichlorodifluoromethane	BRL	10		ug/L	164201	1	07/25/2012 00:16	DB
Ethylbenzene	BRL	5.0		ug/L	164201	1	07/25/2012 00:16	DB
Freon-113	BRL	10		ug/L	164201	1	07/25/2012 00:16	DB
Isopropylbenzene	BRL	5.0		ug/L	164201	1	07/25/2012 00:16	DB
Methyl acetate	BRL	5.0		ug/L	164201	1	07/25/2012 00:16	DB
Methyl tert-butyl ether	BRL	5.0		ug/L	164201	1	07/25/2012 00:16	DB
Methylcyclohexane	BRL	5.0		ug/L	164201	1	07/25/2012 00:16	DB
Methylene chloride	BRL	5.0		ug/L	164201	1	07/25/2012 00:16	DB
Styrene	BRL	5.0		ug/L	164201	1	07/25/2012 00:16	DB

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: 26-Jul-12

Client: AMEC E&I, Inc.	Client Sample ID: MW-7
Project Name: Imperial Cleaners	Collection Date: 7/18/2012 9:10:00 AM
Lab ID: 1207D24-001	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
Tetrachloroethene	2500	250		ug/L	164201	50	07/25/2012 15:59	DB
Toluene	BRL	5.0		ug/L	164201	1	07/25/2012 00:16	DB
trans-1,2-Dichloroethene	15	5.0		ug/L	164201	1	07/25/2012 00:16	DB
trans-1,3-Dichloropropene	BRL	5.0		ug/L	164201	1	07/25/2012 00:16	DB
Trichloroethene	330	250		ug/L	164201	50	07/25/2012 15:59	DB
Trichlorofluoromethane	BRL	5.0		ug/L	164201	1	07/25/2012 00:16	DB
Vinyl chloride	BRL	2.0		ug/L	164201	1	07/25/2012 00:16	DB
Xylenes, Total	BRL	5.0		ug/L	164201	1	07/25/2012 00:16	DB
Surr: 4-Bromofluorobenzene	95.2	67.4-123		%REC	164201	50	07/25/2012 15:59	DB
Surr: 4-Bromofluorobenzene	95.4	67.4-123		%REC	164201	1	07/25/2012 00:16	DB
Surr: Dibromofluoromethane	99.3	75.5-128		%REC	164201	50	07/25/2012 15:59	DB
Surr: Dibromofluoromethane	99.1	75.5-128		%REC	164201	1	07/25/2012 00:16	DB
Surr: Toluene-d8	98.5	70-120		%REC	164201	50	07/25/2012 15:59	DB
Surr: Toluene-d8	98.2	70-120		%REC	164201	1	07/25/2012 00:16	DB
Sulfide by SW9030B/9034				(SW9030B)				
Sulfide	BRL	2.00		mg/L	164204	1	07/24/2012 16:00	AS
ION SCAN SW9056A								
Chloride	17	5.0		mg/L	R225436	5	07/19/2012 15:50	GR
Nitrate	4.7	1.2		mg/L	R225436	5	07/19/2012 15:50	GR
Nitrite	BRL	1.2		mg/L	R225436	5	07/19/2012 15:50	GR
Sulfate	14	5.0		mg/L	R225436	5	07/19/2012 15:50	GR
GC Analysis of Gaseous Samples SOP-RSK 175				(RSK175)				
Ethane	BRL	9		ug/L	164295	1	07/25/2012 12:45	SN
Ethylene	BRL	7		ug/L	164295	1	07/25/2012 12:45	SN
Methane	BRL	4		ug/L	164295	1	07/25/2012 12:45	SN
Ferrous Iron SM3500-Fe-B								
Iron, as Ferrous (Fe+2)	BRL	0.100	H	mg/L	R225748	1	07/19/2012 17:00	CG
Alkalinity E310.2								
Alkalinity, Total (As CaCO3)	12.7	10.0		mg/L	R225747	1	07/25/2012 16:26	TL

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: 26-Jul-12

Client:	AMEC E&I, Inc.	Client Sample ID:	DW-1
Project Name:	Imperial Cleaners	Collection Date:	7/18/2012 9:35:00 AM
Lab ID:	1207D24-002	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	164201	1	07/25/2012 17:28	DB
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	164201	1	07/25/2012 17:28	DB
1,1,2-Trichloroethane	BRL	5.0		ug/L	164201	1	07/25/2012 17:28	DB
1,1-Dichloroethane	BRL	5.0		ug/L	164201	1	07/25/2012 17:28	DB
1,1-Dichloroethene	BRL	5.0		ug/L	164201	1	07/25/2012 17:28	DB
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	164201	1	07/25/2012 17:28	DB
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	164201	1	07/25/2012 17:28	DB
1,2-Dibromoethane	BRL	5.0		ug/L	164201	1	07/25/2012 17:28	DB
1,2-Dichlorobenzene	BRL	5.0		ug/L	164201	1	07/25/2012 17:28	DB
1,2-Dichloroethane	BRL	5.0		ug/L	164201	1	07/25/2012 17:28	DB
1,2-Dichloropropane	BRL	5.0		ug/L	164201	1	07/25/2012 17:28	DB
1,3-Dichlorobenzene	BRL	5.0		ug/L	164201	1	07/25/2012 17:28	DB
1,4-Dichlorobenzene	BRL	5.0		ug/L	164201	1	07/25/2012 17:28	DB
1,4-Dioxane	BRL	150		ug/L	164201	1	07/25/2012 17:28	DB
2-Butanone	BRL	50		ug/L	164201	1	07/25/2012 17:28	DB
2-Hexanone	BRL	10		ug/L	164201	1	07/25/2012 17:28	DB
4-Methyl-2-pentanone	BRL	10		ug/L	164201	1	07/25/2012 17:28	DB
Acetone	BRL	50		ug/L	164201	1	07/25/2012 17:28	DB
Benzene	BRL	5.0		ug/L	164201	1	07/25/2012 17:28	DB
Bromodichloromethane	BRL	5.0		ug/L	164201	1	07/25/2012 17:28	DB
Bromoform	BRL	5.0		ug/L	164201	1	07/25/2012 17:28	DB
Bromomethane	BRL	5.0		ug/L	164201	1	07/25/2012 17:28	DB
Carbon disulfide	BRL	5.0		ug/L	164201	1	07/25/2012 17:28	DB
Carbon tetrachloride	BRL	5.0		ug/L	164201	1	07/25/2012 17:28	DB
Chlorobenzene	BRL	5.0		ug/L	164201	1	07/25/2012 17:28	DB
Chloroethane	BRL	10		ug/L	164201	1	07/25/2012 17:28	DB
Chloroform	BRL	5.0		ug/L	164201	1	07/25/2012 17:28	DB
Chloromethane	BRL	10		ug/L	164201	1	07/25/2012 17:28	DB
cis-1,2-Dichloroethene	BRL	5.0		ug/L	164201	1	07/25/2012 17:28	DB
cis-1,3-Dichloropropene	BRL	5.0		ug/L	164201	1	07/25/2012 17:28	DB
Cyclohexane	BRL	5.0		ug/L	164201	1	07/25/2012 17:28	DB
Dibromochloromethane	BRL	5.0		ug/L	164201	1	07/25/2012 17:28	DB
Dichlorodifluoromethane	BRL	10		ug/L	164201	1	07/25/2012 17:28	DB
Ethylbenzene	BRL	5.0		ug/L	164201	1	07/25/2012 17:28	DB
Freon-113	BRL	10		ug/L	164201	1	07/25/2012 17:28	DB
Isopropylbenzene	BRL	5.0		ug/L	164201	1	07/25/2012 17:28	DB
Methyl acetate	BRL	5.0		ug/L	164201	1	07/25/2012 17:28	DB
Methyl tert-butyl ether	BRL	5.0		ug/L	164201	1	07/25/2012 17:28	DB
Methylcyclohexane	BRL	5.0		ug/L	164201	1	07/25/2012 17:28	DB
Methylene chloride	BRL	5.0		ug/L	164201	1	07/25/2012 17:28	DB
Styrene	BRL	5.0		ug/L	164201	1	07/25/2012 17:28	DB

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: 26-Jul-12

Client: AMEC E&I, Inc.	Client Sample ID: DW-1
Project Name: Imperial Cleaners	Collection Date: 7/18/2012 9:35:00 AM
Lab ID: 1207D24-002	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
Tetrachloroethene	5.8	5.0		ug/L	164201	1	07/25/2012 17:28	DB
Toluene	BRL	5.0		ug/L	164201	1	07/25/2012 17:28	DB
trans-1,2-Dichloroethene	BRL	5.0		ug/L	164201	1	07/25/2012 17:28	DB
trans-1,3-Dichloropropene	BRL	5.0		ug/L	164201	1	07/25/2012 17:28	DB
Trichloroethene	BRL	5.0		ug/L	164201	1	07/25/2012 17:28	DB
Trichlorofluoromethane	BRL	5.0		ug/L	164201	1	07/25/2012 17:28	DB
Vinyl chloride	BRL	2.0		ug/L	164201	1	07/25/2012 17:28	DB
Xylenes, Total	BRL	5.0		ug/L	164201	1	07/25/2012 17:28	DB
Surr: 4-Bromofluorobenzene	96.6	67.4-123		%REC	164201	1	07/25/2012 17:28	DB
Surr: Dibromofluoromethane	99.3	75.5-128		%REC	164201	1	07/25/2012 17:28	DB
Surr: Toluene-d8	97	70-120		%REC	164201	1	07/25/2012 17:28	DB

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

Client: AMEC E&I, Inc.	Client Sample ID: MW-2
Project Name: Imperial Cleaners	Collection Date: 7/18/2012 10:58:00 AM
Lab ID: 1207D24-003	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	164201	1	07/25/2012 01:15	DB
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	164201	1	07/25/2012 01:15	DB
1,1,2-Trichloroethane	BRL	5.0		ug/L	164201	1	07/25/2012 01:15	DB
1,1-Dichloroethane	BRL	5.0		ug/L	164201	1	07/25/2012 01:15	DB
1,1-Dichloroethene	BRL	5.0		ug/L	164201	1	07/25/2012 01:15	DB
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	164201	1	07/25/2012 01:15	DB
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	164201	1	07/25/2012 01:15	DB
1,2-Dibromoethane	BRL	5.0		ug/L	164201	1	07/25/2012 01:15	DB
1,2-Dichlorobenzene	BRL	5.0		ug/L	164201	1	07/25/2012 01:15	DB
1,2-Dichloroethane	BRL	5.0		ug/L	164201	1	07/25/2012 01:15	DB
1,2-Dichloropropane	BRL	5.0		ug/L	164201	1	07/25/2012 01:15	DB
1,3-Dichlorobenzene	BRL	5.0		ug/L	164201	1	07/25/2012 01:15	DB
1,4-Dichlorobenzene	BRL	5.0		ug/L	164201	1	07/25/2012 01:15	DB
1,4-Dioxane	BRL	150		ug/L	164201	1	07/25/2012 01:15	DB
2-Butanone	BRL	50		ug/L	164201	1	07/25/2012 01:15	DB
2-Hexanone	BRL	10		ug/L	164201	1	07/25/2012 01:15	DB
4-Methyl-2-pentanone	BRL	10		ug/L	164201	1	07/25/2012 01:15	DB
Acetone	BRL	50		ug/L	164201	1	07/25/2012 01:15	DB
Benzene	BRL	5.0		ug/L	164201	1	07/25/2012 01:15	DB
Bromodichloromethane	BRL	5.0		ug/L	164201	1	07/25/2012 01:15	DB
Bromoform	BRL	5.0		ug/L	164201	1	07/25/2012 01:15	DB
Bromomethane	BRL	5.0		ug/L	164201	1	07/25/2012 01:15	DB
Carbon disulfide	BRL	5.0		ug/L	164201	1	07/25/2012 01:15	DB
Carbon tetrachloride	BRL	5.0		ug/L	164201	1	07/25/2012 01:15	DB
Chlorobenzene	BRL	5.0		ug/L	164201	1	07/25/2012 01:15	DB
Chloroethane	BRL	10		ug/L	164201	1	07/25/2012 01:15	DB
Chloroform	BRL	5.0		ug/L	164201	1	07/25/2012 01:15	DB
Chloromethane	BRL	10		ug/L	164201	1	07/25/2012 01:15	DB
cis-1,2-Dichloroethene	190	5.0		ug/L	164201	1	07/25/2012 01:15	DB
cis-1,3-Dichloropropene	BRL	5.0		ug/L	164201	1	07/25/2012 01:15	DB
Cyclohexane	BRL	5.0		ug/L	164201	1	07/25/2012 01:15	DB
Dibromochloromethane	BRL	5.0		ug/L	164201	1	07/25/2012 01:15	DB
Dichlorodifluoromethane	BRL	10		ug/L	164201	1	07/25/2012 01:15	DB
Ethylbenzene	BRL	5.0		ug/L	164201	1	07/25/2012 01:15	DB
Freon-113	BRL	10		ug/L	164201	1	07/25/2012 01:15	DB
Isopropylbenzene	BRL	5.0		ug/L	164201	1	07/25/2012 01:15	DB
Methyl acetate	BRL	5.0		ug/L	164201	1	07/25/2012 01:15	DB
Methyl tert-butyl ether	BRL	5.0		ug/L	164201	1	07/25/2012 01:15	DB
Methylcyclohexane	BRL	5.0		ug/L	164201	1	07/25/2012 01:15	DB
Methylene chloride	BRL	5.0		ug/L	164201	1	07/25/2012 01:15	DB
Styrene	BRL	5.0		ug/L	164201	1	07/25/2012 01:15	DB

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: 26-Jul-12

Client: AMEC E&I, Inc.	Client Sample ID: MW-2
Project Name: Imperial Cleaners	Collection Date: 7/18/2012 10:58:00 AM
Lab ID: 1207D24-003	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
Tetrachloroethene	190	5.0		ug/L	164201	1	07/25/2012 01:15	DB
Toluene	BRL	5.0		ug/L	164201	1	07/25/2012 01:15	DB
trans-1,2-Dichloroethene	BRL	5.0		ug/L	164201	1	07/25/2012 01:15	DB
trans-1,3-Dichloropropene	BRL	5.0		ug/L	164201	1	07/25/2012 01:15	DB
Trichloroethene	190	5.0		ug/L	164201	1	07/25/2012 01:15	DB
Trichlorofluoromethane	BRL	5.0		ug/L	164201	1	07/25/2012 01:15	DB
Vinyl chloride	53	2.0		ug/L	164201	1	07/25/2012 01:15	DB
Xylenes, Total	BRL	5.0		ug/L	164201	1	07/25/2012 01:15	DB
Surr: 4-Bromofluorobenzene	93.9	67.4-123		%REC	164201	1	07/25/2012 01:15	DB
Surr: Dibromofluoromethane	97.2	75.5-128		%REC	164201	1	07/25/2012 01:15	DB
Surr: Toluene-d8	95.8	70-120		%REC	164201	1	07/25/2012 01:15	DB
Sulfide by SW9030B/9034				(SW9030B)				
Sulfide	BRL	2.00		mg/L	164204	1	07/24/2012 16:00	AS
ION SCAN SW9056A								
Chloride	6.7	1.0		mg/L	R225436	1	07/19/2012 16:21	GR
Nitrate	BRL	0.25		mg/L	R225436	1	07/19/2012 16:21	GR
Nitrite	BRL	0.25		mg/L	R225436	1	07/19/2012 16:21	GR
Sulfate	BRL	1.0		mg/L	R225436	1	07/19/2012 16:21	GR
GC Analysis of Gaseous Samples SOP-RSK 175				(RSK175)				
Ethane	BRL	9		ug/L	164295	1	07/25/2012 12:50	SN
Ethylene	42	7		ug/L	164295	1	07/25/2012 12:50	SN
Methane	3000	80		ug/L	164295	20	07/25/2012 13:12	SN
Ferrous Iron SM3500-Fe-B								
Iron, as Ferrous (Fe+2)	44.6	2.50	H	mg/L	R225748	25	07/19/2012 17:00	CG
Alkalinity E310.2								
Alkalinity, Total (As CaCO3)	113	10.0		mg/L	R225747	1	07/25/2012 16:27	TL

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: 26-Jul-12

Client:	AMEC E&I, Inc.	Client Sample ID:	MW-3
Project Name:	Imperial Cleaners	Collection Date:	7/18/2012 10:42:00 AM
Lab ID:	1207D24-004	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B					(SW5030B)			
1,1,1-Trichloroethane	BRL	5.0		ug/L	164201	1	07/25/2012 14:00	DB
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	164201	1	07/25/2012 14:00	DB
1,1,2-Trichloroethane	BRL	5.0		ug/L	164201	1	07/25/2012 14:00	DB
1,1-Dichloroethane	BRL	5.0		ug/L	164201	1	07/25/2012 14:00	DB
1,1-Dichloroethene	BRL	5.0		ug/L	164201	1	07/25/2012 14:00	DB
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	164201	1	07/25/2012 14:00	DB
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	164201	1	07/25/2012 14:00	DB
1,2-Dibromoethane	BRL	5.0		ug/L	164201	1	07/25/2012 14:00	DB
1,2-Dichlorobenzene	BRL	5.0		ug/L	164201	1	07/25/2012 14:00	DB
1,2-Dichloroethane	BRL	5.0		ug/L	164201	1	07/25/2012 14:00	DB
1,2-Dichloropropane	BRL	5.0		ug/L	164201	1	07/25/2012 14:00	DB
1,3-Dichlorobenzene	BRL	5.0		ug/L	164201	1	07/25/2012 14:00	DB
1,4-Dichlorobenzene	BRL	5.0		ug/L	164201	1	07/25/2012 14:00	DB
1,4-Dioxane	BRL	150		ug/L	164201	1	07/25/2012 14:00	DB
2-Butanone	BRL	50		ug/L	164201	1	07/25/2012 14:00	DB
2-Hexanone	BRL	10		ug/L	164201	1	07/25/2012 14:00	DB
4-Methyl-2-pentanone	BRL	10		ug/L	164201	1	07/25/2012 14:00	DB
Acetone	BRL	50		ug/L	164201	1	07/25/2012 14:00	DB
Benzene	BRL	5.0		ug/L	164201	1	07/25/2012 14:00	DB
Bromodichloromethane	BRL	5.0		ug/L	164201	1	07/25/2012 14:00	DB
Bromoform	BRL	5.0		ug/L	164201	1	07/25/2012 14:00	DB
Bromomethane	BRL	5.0		ug/L	164201	1	07/25/2012 14:00	DB
Carbon disulfide	BRL	5.0		ug/L	164201	1	07/25/2012 14:00	DB
Carbon tetrachloride	BRL	5.0		ug/L	164201	1	07/25/2012 14:00	DB
Chlorobenzene	BRL	5.0		ug/L	164201	1	07/25/2012 14:00	DB
Chloroethane	BRL	10		ug/L	164201	1	07/25/2012 14:00	DB
Chloroform	BRL	5.0		ug/L	164201	1	07/25/2012 14:00	DB
Chloromethane	BRL	10		ug/L	164201	1	07/25/2012 14:00	DB
cis-1,2-Dichloroethene	BRL	5.0		ug/L	164201	1	07/25/2012 14:00	DB
cis-1,3-Dichloropropene	BRL	5.0		ug/L	164201	1	07/25/2012 14:00	DB
Cyclohexane	BRL	5.0		ug/L	164201	1	07/25/2012 14:00	DB
Dibromochloromethane	BRL	5.0		ug/L	164201	1	07/25/2012 14:00	DB
Dichlorodifluoromethane	BRL	10		ug/L	164201	1	07/25/2012 14:00	DB
Ethylbenzene	BRL	5.0		ug/L	164201	1	07/25/2012 14:00	DB
Freon-113	BRL	10		ug/L	164201	1	07/25/2012 14:00	DB
Isopropylbenzene	BRL	5.0		ug/L	164201	1	07/25/2012 14:00	DB
Methyl acetate	BRL	5.0		ug/L	164201	1	07/25/2012 14:00	DB
Methyl tert-butyl ether	BRL	5.0		ug/L	164201	1	07/25/2012 14:00	DB
Methylcyclohexane	BRL	5.0		ug/L	164201	1	07/25/2012 14:00	DB
Methylene chloride	BRL	5.0		ug/L	164201	1	07/25/2012 14:00	DB
Styrene	BRL	5.0		ug/L	164201	1	07/25/2012 14:00	DB

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: 26-Jul-12

Client: AMEC E&I, Inc.	Client Sample ID: MW-3
Project Name: Imperial Cleaners	Collection Date: 7/18/2012 10:42:00 AM
Lab ID: 1207D24-004	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
Tetrachloroethene	BRL	5.0		ug/L	164201	1	07/25/2012 14:00	DB
Toluene	BRL	5.0		ug/L	164201	1	07/25/2012 14:00	DB
trans-1,2-Dichloroethene	BRL	5.0		ug/L	164201	1	07/25/2012 14:00	DB
trans-1,3-Dichloropropene	BRL	5.0		ug/L	164201	1	07/25/2012 14:00	DB
Trichloroethene	BRL	5.0		ug/L	164201	1	07/25/2012 14:00	DB
Trichlorofluoromethane	BRL	5.0		ug/L	164201	1	07/25/2012 14:00	DB
Vinyl chloride	BRL	2.0		ug/L	164201	1	07/25/2012 14:00	DB
Xylenes, Total	BRL	5.0		ug/L	164201	1	07/25/2012 14:00	DB
Surr: 4-Bromofluorobenzene	95.2	67.4-123		%REC	164201	1	07/25/2012 14:00	DB
Surr: Dibromofluoromethane	95.3	75.5-128		%REC	164201	1	07/25/2012 14:00	DB
Surr: Toluene-d8	98.3	70-120		%REC	164201	1	07/25/2012 14:00	DB

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

Client: AMEC E&I, Inc.	Client Sample ID: MW-16
Project Name: Imperial Cleaners	Collection Date: 7/18/2012 12:45:00 PM
Lab ID: 1207D24-005	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	164201	1	07/25/2012 02:15	DB
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	164201	1	07/25/2012 02:15	DB
1,1,2-Trichloroethane	BRL	5.0		ug/L	164201	1	07/25/2012 02:15	DB
1,1-Dichloroethane	BRL	5.0		ug/L	164201	1	07/25/2012 02:15	DB
1,1-Dichloroethene	BRL	5.0		ug/L	164201	1	07/25/2012 02:15	DB
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	164201	1	07/25/2012 02:15	DB
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	164201	1	07/25/2012 02:15	DB
1,2-Dibromoethane	BRL	5.0		ug/L	164201	1	07/25/2012 02:15	DB
1,2-Dichlorobenzene	BRL	5.0		ug/L	164201	1	07/25/2012 02:15	DB
1,2-Dichloroethane	BRL	5.0		ug/L	164201	1	07/25/2012 02:15	DB
1,2-Dichloropropane	BRL	5.0		ug/L	164201	1	07/25/2012 02:15	DB
1,3-Dichlorobenzene	BRL	5.0		ug/L	164201	1	07/25/2012 02:15	DB
1,4-Dichlorobenzene	BRL	5.0		ug/L	164201	1	07/25/2012 02:15	DB
1,4-Dioxane	BRL	150		ug/L	164201	1	07/25/2012 02:15	DB
2-Butanone	BRL	50		ug/L	164201	1	07/25/2012 02:15	DB
2-Hexanone	BRL	10		ug/L	164201	1	07/25/2012 02:15	DB
4-Methyl-2-pentanone	BRL	10		ug/L	164201	1	07/25/2012 02:15	DB
Acetone	BRL	50		ug/L	164201	1	07/25/2012 02:15	DB
Benzene	BRL	5.0		ug/L	164201	1	07/25/2012 02:15	DB
Bromodichloromethane	BRL	5.0		ug/L	164201	1	07/25/2012 02:15	DB
Bromoform	BRL	5.0		ug/L	164201	1	07/25/2012 02:15	DB
Bromomethane	BRL	5.0		ug/L	164201	1	07/25/2012 02:15	DB
Carbon disulfide	BRL	5.0		ug/L	164201	1	07/25/2012 02:15	DB
Carbon tetrachloride	BRL	5.0		ug/L	164201	1	07/25/2012 02:15	DB
Chlorobenzene	BRL	5.0		ug/L	164201	1	07/25/2012 02:15	DB
Chloroethane	BRL	10		ug/L	164201	1	07/25/2012 02:15	DB
Chloroform	BRL	5.0		ug/L	164201	1	07/25/2012 02:15	DB
Chloromethane	BRL	10		ug/L	164201	1	07/25/2012 02:15	DB
cis-1,2-Dichloroethene	96	5.0		ug/L	164201	1	07/25/2012 02:15	DB
cis-1,3-Dichloropropene	BRL	5.0		ug/L	164201	1	07/25/2012 02:15	DB
Cyclohexane	BRL	5.0		ug/L	164201	1	07/25/2012 02:15	DB
Dibromochloromethane	BRL	5.0		ug/L	164201	1	07/25/2012 02:15	DB
Dichlorodifluoromethane	BRL	10		ug/L	164201	1	07/25/2012 02:15	DB
Ethylbenzene	BRL	5.0		ug/L	164201	1	07/25/2012 02:15	DB
Freon-113	BRL	10		ug/L	164201	1	07/25/2012 02:15	DB
Isopropylbenzene	BRL	5.0		ug/L	164201	1	07/25/2012 02:15	DB
Methyl acetate	BRL	5.0		ug/L	164201	1	07/25/2012 02:15	DB
Methyl tert-butyl ether	BRL	5.0		ug/L	164201	1	07/25/2012 02:15	DB
Methylcyclohexane	BRL	5.0		ug/L	164201	1	07/25/2012 02:15	DB
Methylene chloride	BRL	5.0		ug/L	164201	1	07/25/2012 02:15	DB
Styrene	BRL	5.0		ug/L	164201	1	07/25/2012 02:15	DB

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: 26-Jul-12

Client: AMEC E&I, Inc.	Client Sample ID: MW-16
Project Name: Imperial Cleaners	Collection Date: 7/18/2012 12:45:00 PM
Lab ID: 1207D24-005	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
Tetrachloroethene	180	5.0		ug/L	164201	1	07/25/2012 02:15	DB
Toluene	BRL	5.0		ug/L	164201	1	07/25/2012 02:15	DB
trans-1,2-Dichloroethene	7.6	5.0		ug/L	164201	1	07/25/2012 02:15	DB
trans-1,3-Dichloropropene	BRL	5.0		ug/L	164201	1	07/25/2012 02:15	DB
Trichloroethene	38	5.0		ug/L	164201	1	07/25/2012 02:15	DB
Trichlorofluoromethane	BRL	5.0		ug/L	164201	1	07/25/2012 02:15	DB
Vinyl chloride	BRL	2.0		ug/L	164201	1	07/25/2012 02:15	DB
Xylenes, Total	BRL	5.0		ug/L	164201	1	07/25/2012 02:15	DB
Surr: 4-Bromofluorobenzene	95.3	67.4-123		%REC	164201	1	07/25/2012 02:15	DB
Surr: Dibromofluoromethane	96.8	75.5-128		%REC	164201	1	07/25/2012 02:15	DB
Surr: Toluene-d8	96.3	70-120		%REC	164201	1	07/25/2012 02:15	DB

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: 26-Jul-12

Client:	AMEC E&I, Inc.	Client Sample ID:	MW-5
Project Name:	Imperial Cleaners	Collection Date:	7/18/2012 2:20:00 PM
Lab ID:	1207D24-006	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	164293	1	07/25/2012 14:30	DB
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	164293	1	07/25/2012 14:30	DB
1,1,2-Trichloroethane	BRL	5.0		ug/L	164293	1	07/25/2012 14:30	DB
1,1-Dichloroethane	BRL	5.0		ug/L	164293	1	07/25/2012 14:30	DB
1,1-Dichloroethene	BRL	5.0		ug/L	164293	1	07/25/2012 14:30	DB
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	164293	1	07/25/2012 14:30	DB
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	164293	1	07/25/2012 14:30	DB
1,2-Dibromoethane	BRL	5.0		ug/L	164293	1	07/25/2012 14:30	DB
1,2-Dichlorobenzene	BRL	5.0		ug/L	164293	1	07/25/2012 14:30	DB
1,2-Dichloroethane	BRL	5.0		ug/L	164293	1	07/25/2012 14:30	DB
1,2-Dichloropropane	BRL	5.0		ug/L	164293	1	07/25/2012 14:30	DB
1,3-Dichlorobenzene	BRL	5.0		ug/L	164293	1	07/25/2012 14:30	DB
1,4-Dichlorobenzene	BRL	5.0		ug/L	164293	1	07/25/2012 14:30	DB
1,4-Dioxane	BRL	150		ug/L	164293	1	07/25/2012 14:30	DB
2-Butanone	BRL	50		ug/L	164293	1	07/25/2012 14:30	DB
2-Hexanone	BRL	10		ug/L	164293	1	07/25/2012 14:30	DB
4-Methyl-2-pentanone	BRL	10		ug/L	164293	1	07/25/2012 14:30	DB
Acetone	BRL	50		ug/L	164293	1	07/25/2012 14:30	DB
Benzene	BRL	5.0		ug/L	164293	1	07/25/2012 14:30	DB
Bromodichloromethane	BRL	5.0		ug/L	164293	1	07/25/2012 14:30	DB
Bromoform	BRL	5.0		ug/L	164293	1	07/25/2012 14:30	DB
Bromomethane	BRL	5.0		ug/L	164293	1	07/25/2012 14:30	DB
Carbon disulfide	BRL	5.0		ug/L	164293	1	07/25/2012 14:30	DB
Carbon tetrachloride	BRL	5.0		ug/L	164293	1	07/25/2012 14:30	DB
Chlorobenzene	BRL	5.0		ug/L	164293	1	07/25/2012 14:30	DB
Chloroethane	BRL	10		ug/L	164293	1	07/25/2012 14:30	DB
Chloroform	BRL	5.0		ug/L	164293	1	07/25/2012 14:30	DB
Chloromethane	BRL	10		ug/L	164293	1	07/25/2012 14:30	DB
cis-1,2-Dichloroethene	BRL	5.0		ug/L	164293	1	07/25/2012 14:30	DB
cis-1,3-Dichloropropene	BRL	5.0		ug/L	164293	1	07/25/2012 14:30	DB
Cyclohexane	BRL	5.0		ug/L	164293	1	07/25/2012 14:30	DB
Dibromochloromethane	BRL	5.0		ug/L	164293	1	07/25/2012 14:30	DB
Dichlorodifluoromethane	BRL	10		ug/L	164293	1	07/25/2012 14:30	DB
Ethylbenzene	BRL	5.0		ug/L	164293	1	07/25/2012 14:30	DB
Freon-113	BRL	10		ug/L	164293	1	07/25/2012 14:30	DB
Isopropylbenzene	BRL	5.0		ug/L	164293	1	07/25/2012 14:30	DB
Methyl acetate	BRL	5.0		ug/L	164293	1	07/25/2012 14:30	DB
Methyl tert-butyl ether	BRL	5.0		ug/L	164293	1	07/25/2012 14:30	DB
Methylcyclohexane	BRL	5.0		ug/L	164293	1	07/25/2012 14:30	DB
Methylene chloride	BRL	5.0		ug/L	164293	1	07/25/2012 14:30	DB
Styrene	BRL	5.0		ug/L	164293	1	07/25/2012 14:30	DB

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: 26-Jul-12

Client: AMEC E&I, Inc.	Client Sample ID: MW-5
Project Name: Imperial Cleaners	Collection Date: 7/18/2012 2:20:00 PM
Lab ID: 1207D24-006	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
Tetrachloroethene	BRL	5.0		ug/L	164293	1	07/25/2012 14:30	DB
Toluene	BRL	5.0		ug/L	164293	1	07/25/2012 14:30	DB
trans-1,2-Dichloroethene	BRL	5.0		ug/L	164293	1	07/25/2012 14:30	DB
trans-1,3-Dichloropropene	BRL	5.0		ug/L	164293	1	07/25/2012 14:30	DB
Trichloroethene	BRL	5.0		ug/L	164293	1	07/25/2012 14:30	DB
Trichlorofluoromethane	BRL	5.0		ug/L	164293	1	07/25/2012 14:30	DB
Vinyl chloride	BRL	2.0		ug/L	164293	1	07/25/2012 14:30	DB
Xylenes, Total	BRL	5.0		ug/L	164293	1	07/25/2012 14:30	DB
Surr: 4-Bromofluorobenzene	93.4	67.4-123		%REC	164293	1	07/25/2012 14:30	DB
Surr: Dibromofluoromethane	95.8	75.5-128		%REC	164293	1	07/25/2012 14:30	DB
Surr: Toluene-d8	95.2	70-120		%REC	164293	1	07/25/2012 14:30	DB
Sulfide by SW9030B/9034				(SW9030B)				
Sulfide	BRL	2.00		mg/L	164204	1	07/24/2012 16:00	AS
ION SCAN SW9056A								
Chloride	13	2.0		mg/L	R225436	2	07/19/2012 16:06	GR
Nitrate	1.4	0.50		mg/L	R225436	2	07/19/2012 16:06	GR
Nitrite	BRL	0.50		mg/L	R225436	2	07/19/2012 16:06	GR
Sulfate	BRL	2.0		mg/L	R225436	2	07/19/2012 16:06	GR
GC Analysis of Gaseous Samples SOP-RSK 175				(RSK175)				
Ethane	BRL	9		ug/L	164295	1	07/25/2012 12:55	SN
Ethylene	BRL	7		ug/L	164295	1	07/25/2012 12:55	SN
Methane	18	4		ug/L	164295	1	07/25/2012 12:55	SN
Ferrous Iron SM3500-Fe-B								
Iron, as Ferrous (Fe+2)	0.422	0.100	H	mg/L	R225748	1	07/19/2012 17:00	CG
Alkalinity E310.2								
Alkalinity, Total (As CaCO3)	21.5	10.0		mg/L	R225747	1	07/25/2012 16:28	TL

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: 26-Jul-12

Client:	AMEC E&I, Inc.	Client Sample ID:	MW-4
Project Name:	Imperial Cleaners	Collection Date:	7/18/2012 3:50:00 PM
Lab ID:	1207D24-007	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B					(SW5030B)			
1,1,1-Trichloroethane	BRL	5.0		ug/L	164293	1	07/25/2012 15:00	DB
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	164293	1	07/25/2012 15:00	DB
1,1,2-Trichloroethane	BRL	5.0		ug/L	164293	1	07/25/2012 15:00	DB
1,1-Dichloroethane	BRL	5.0		ug/L	164293	1	07/25/2012 15:00	DB
1,1-Dichloroethene	BRL	5.0		ug/L	164293	1	07/25/2012 15:00	DB
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	164293	1	07/25/2012 15:00	DB
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	164293	1	07/25/2012 15:00	DB
1,2-Dibromoethane	BRL	5.0		ug/L	164293	1	07/25/2012 15:00	DB
1,2-Dichlorobenzene	BRL	5.0		ug/L	164293	1	07/25/2012 15:00	DB
1,2-Dichloroethane	BRL	5.0		ug/L	164293	1	07/25/2012 15:00	DB
1,2-Dichloropropane	BRL	5.0		ug/L	164293	1	07/25/2012 15:00	DB
1,3-Dichlorobenzene	BRL	5.0		ug/L	164293	1	07/25/2012 15:00	DB
1,4-Dichlorobenzene	BRL	5.0		ug/L	164293	1	07/25/2012 15:00	DB
1,4-Dioxane	BRL	150		ug/L	164293	1	07/25/2012 15:00	DB
2-Butanone	BRL	50		ug/L	164293	1	07/25/2012 15:00	DB
2-Hexanone	BRL	10		ug/L	164293	1	07/25/2012 15:00	DB
4-Methyl-2-pentanone	BRL	10		ug/L	164293	1	07/25/2012 15:00	DB
Acetone	BRL	50		ug/L	164293	1	07/25/2012 15:00	DB
Benzene	BRL	5.0		ug/L	164293	1	07/25/2012 15:00	DB
Bromodichloromethane	BRL	5.0		ug/L	164293	1	07/25/2012 15:00	DB
Bromoform	BRL	5.0		ug/L	164293	1	07/25/2012 15:00	DB
Bromomethane	BRL	5.0		ug/L	164293	1	07/25/2012 15:00	DB
Carbon disulfide	BRL	5.0		ug/L	164293	1	07/25/2012 15:00	DB
Carbon tetrachloride	BRL	5.0		ug/L	164293	1	07/25/2012 15:00	DB
Chlorobenzene	BRL	5.0		ug/L	164293	1	07/25/2012 15:00	DB
Chloroethane	BRL	10		ug/L	164293	1	07/25/2012 15:00	DB
Chloroform	BRL	5.0		ug/L	164293	1	07/25/2012 15:00	DB
Chloromethane	BRL	10		ug/L	164293	1	07/25/2012 15:00	DB
cis-1,2-Dichloroethene	6.4	5.0		ug/L	164293	1	07/25/2012 15:00	DB
cis-1,3-Dichloropropene	BRL	5.0		ug/L	164293	1	07/25/2012 15:00	DB
Cyclohexane	BRL	5.0		ug/L	164293	1	07/25/2012 15:00	DB
Dibromochloromethane	BRL	5.0		ug/L	164293	1	07/25/2012 15:00	DB
Dichlorodifluoromethane	BRL	10		ug/L	164293	1	07/25/2012 15:00	DB
Ethylbenzene	BRL	5.0		ug/L	164293	1	07/25/2012 15:00	DB
Freon-113	BRL	10		ug/L	164293	1	07/25/2012 15:00	DB
Isopropylbenzene	BRL	5.0		ug/L	164293	1	07/25/2012 15:00	DB
Methyl acetate	BRL	5.0		ug/L	164293	1	07/25/2012 15:00	DB
Methyl tert-butyl ether	BRL	5.0		ug/L	164293	1	07/25/2012 15:00	DB
Methylcyclohexane	BRL	5.0		ug/L	164293	1	07/25/2012 15:00	DB
Methylene chloride	BRL	5.0		ug/L	164293	1	07/25/2012 15:00	DB
Styrene	BRL	5.0		ug/L	164293	1	07/25/2012 15:00	DB

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: 26-Jul-12

Client: AMEC E&I, Inc.	Client Sample ID: MW-4
Project Name: Imperial Cleaners	Collection Date: 7/18/2012 3:50:00 PM
Lab ID: 1207D24-007	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
Tetrachloroethene	BRL	5.0		ug/L	164293	1	07/25/2012 15:00	DB
Toluene	BRL	5.0		ug/L	164293	1	07/25/2012 15:00	DB
trans-1,2-Dichloroethene	BRL	5.0		ug/L	164293	1	07/25/2012 15:00	DB
trans-1,3-Dichloropropene	BRL	5.0		ug/L	164293	1	07/25/2012 15:00	DB
Trichloroethene	BRL	5.0		ug/L	164293	1	07/25/2012 15:00	DB
Trichlorofluoromethane	BRL	5.0		ug/L	164293	1	07/25/2012 15:00	DB
Vinyl chloride	BRL	2.0		ug/L	164293	1	07/25/2012 15:00	DB
Xylenes, Total	BRL	5.0		ug/L	164293	1	07/25/2012 15:00	DB
Surr: 4-Bromofluorobenzene	95.4	67.4-123		%REC	164293	1	07/25/2012 15:00	DB
Surr: Dibromofluoromethane	96.1	75.5-128		%REC	164293	1	07/25/2012 15:00	DB
Surr: Toluene-d8	97.5	70-120		%REC	164293	1	07/25/2012 15:00	DB

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: 26-Jul-12

Client: AMEC E&I, Inc.	Client Sample ID: MW-12
Project Name: Imperial Cleaners	Collection Date: 7/18/2012 6:35:00 PM
Lab ID: 1207D24-009	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	164293	1	07/25/2012 15:30	DB
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	164293	1	07/25/2012 15:30	DB
1,1,2-Trichloroethane	BRL	5.0		ug/L	164293	1	07/25/2012 15:30	DB
1,1-Dichloroethane	BRL	5.0		ug/L	164293	1	07/25/2012 15:30	DB
1,1-Dichloroethene	BRL	5.0		ug/L	164293	1	07/25/2012 15:30	DB
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	164293	1	07/25/2012 15:30	DB
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	164293	1	07/25/2012 15:30	DB
1,2-Dibromoethane	BRL	5.0		ug/L	164293	1	07/25/2012 15:30	DB
1,2-Dichlorobenzene	BRL	5.0		ug/L	164293	1	07/25/2012 15:30	DB
1,2-Dichloroethane	BRL	5.0		ug/L	164293	1	07/25/2012 15:30	DB
1,2-Dichloropropane	BRL	5.0		ug/L	164293	1	07/25/2012 15:30	DB
1,3-Dichlorobenzene	BRL	5.0		ug/L	164293	1	07/25/2012 15:30	DB
1,4-Dichlorobenzene	BRL	5.0		ug/L	164293	1	07/25/2012 15:30	DB
1,4-Dioxane	BRL	150		ug/L	164293	1	07/25/2012 15:30	DB
2-Butanone	BRL	50		ug/L	164293	1	07/25/2012 15:30	DB
2-Hexanone	BRL	10		ug/L	164293	1	07/25/2012 15:30	DB
4-Methyl-2-pentanone	BRL	10		ug/L	164293	1	07/25/2012 15:30	DB
Acetone	BRL	50		ug/L	164293	1	07/25/2012 15:30	DB
Benzene	BRL	5.0		ug/L	164293	1	07/25/2012 15:30	DB
Bromodichloromethane	BRL	5.0		ug/L	164293	1	07/25/2012 15:30	DB
Bromoform	BRL	5.0		ug/L	164293	1	07/25/2012 15:30	DB
Bromomethane	BRL	5.0		ug/L	164293	1	07/25/2012 15:30	DB
Carbon disulfide	BRL	5.0		ug/L	164293	1	07/25/2012 15:30	DB
Carbon tetrachloride	BRL	5.0		ug/L	164293	1	07/25/2012 15:30	DB
Chlorobenzene	BRL	5.0		ug/L	164293	1	07/25/2012 15:30	DB
Chloroethane	BRL	10		ug/L	164293	1	07/25/2012 15:30	DB
Chloroform	BRL	5.0		ug/L	164293	1	07/25/2012 15:30	DB
Chloromethane	BRL	10		ug/L	164293	1	07/25/2012 15:30	DB
cis-1,2-Dichloroethene	BRL	5.0		ug/L	164293	1	07/25/2012 15:30	DB
cis-1,3-Dichloropropene	BRL	5.0		ug/L	164293	1	07/25/2012 15:30	DB
Cyclohexane	BRL	5.0		ug/L	164293	1	07/25/2012 15:30	DB
Dibromochloromethane	BRL	5.0		ug/L	164293	1	07/25/2012 15:30	DB
Dichlorodifluoromethane	BRL	10		ug/L	164293	1	07/25/2012 15:30	DB
Ethylbenzene	BRL	5.0		ug/L	164293	1	07/25/2012 15:30	DB
Freon-113	BRL	10		ug/L	164293	1	07/25/2012 15:30	DB
Isopropylbenzene	BRL	5.0		ug/L	164293	1	07/25/2012 15:30	DB
Methyl acetate	BRL	5.0		ug/L	164293	1	07/25/2012 15:30	DB
Methyl tert-butyl ether	BRL	5.0		ug/L	164293	1	07/25/2012 15:30	DB
Methylcyclohexane	BRL	5.0		ug/L	164293	1	07/25/2012 15:30	DB
Methylene chloride	BRL	5.0		ug/L	164293	1	07/25/2012 15:30	DB
Styrene	BRL	5.0		ug/L	164293	1	07/25/2012 15:30	DB

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

Analytical Environmental Services, Inc

Date: 26-Jul-12

Client: AMEC E&I, Inc.	Client Sample ID: MW-12
Project Name: Imperial Cleaners	Collection Date: 7/18/2012 6:35:00 PM
Lab ID: 1207D24-009	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
Tetrachloroethene	BRL	5.0		ug/L	164293	1	07/25/2012 15:30	DB
Toluene	BRL	5.0		ug/L	164293	1	07/25/2012 15:30	DB
trans-1,2-Dichloroethene	BRL	5.0		ug/L	164293	1	07/25/2012 15:30	DB
trans-1,3-Dichloropropene	BRL	5.0		ug/L	164293	1	07/25/2012 15:30	DB
Trichloroethene	BRL	5.0		ug/L	164293	1	07/25/2012 15:30	DB
Trichlorofluoromethane	BRL	5.0		ug/L	164293	1	07/25/2012 15:30	DB
Vinyl chloride	BRL	2.0		ug/L	164293	1	07/25/2012 15:30	DB
Xylenes, Total	BRL	5.0		ug/L	164293	1	07/25/2012 15:30	DB
Surr: 4-Bromofluorobenzene	95	67.4-123		%REC	164293	1	07/25/2012 15:30	DB
Surr: Dibromofluoromethane	100	75.5-128		%REC	164293	1	07/25/2012 15:30	DB
Surr: Toluene-d8	98.3	70-120		%REC	164293	1	07/25/2012 15:30	DB

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

Client: AMEC E&I, Inc.	Client Sample ID: SW-1
Project Name: Imperial Cleaners	Collection Date: 7/19/2012 12:10:00 PM
Lab ID: 1207D24-010	Matrix: Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	164293	1	07/25/2012 13:30	DB
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	164293	1	07/25/2012 13:30	DB
1,1,2-Trichloroethane	BRL	5.0		ug/L	164293	1	07/25/2012 13:30	DB
1,1-Dichloroethane	BRL	5.0		ug/L	164293	1	07/25/2012 13:30	DB
1,1-Dichloroethene	BRL	5.0		ug/L	164293	1	07/25/2012 13:30	DB
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	164293	1	07/25/2012 13:30	DB
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	164293	1	07/25/2012 13:30	DB
1,2-Dibromoethane	BRL	5.0		ug/L	164293	1	07/25/2012 13:30	DB
1,2-Dichlorobenzene	BRL	5.0		ug/L	164293	1	07/25/2012 13:30	DB
1,2-Dichloroethane	BRL	5.0		ug/L	164293	1	07/25/2012 13:30	DB
1,2-Dichloropropane	BRL	5.0		ug/L	164293	1	07/25/2012 13:30	DB
1,3-Dichlorobenzene	BRL	5.0		ug/L	164293	1	07/25/2012 13:30	DB
1,4-Dichlorobenzene	BRL	5.0		ug/L	164293	1	07/25/2012 13:30	DB
1,4-Dioxane	BRL	150		ug/L	164293	1	07/25/2012 13:30	DB
2-Butanone	BRL	50		ug/L	164293	1	07/25/2012 13:30	DB
2-Hexanone	BRL	10		ug/L	164293	1	07/25/2012 13:30	DB
4-Methyl-2-pentanone	BRL	10		ug/L	164293	1	07/25/2012 13:30	DB
Acetone	BRL	50		ug/L	164293	1	07/25/2012 13:30	DB
Benzene	BRL	5.0		ug/L	164293	1	07/25/2012 13:30	DB
Bromodichloromethane	BRL	5.0		ug/L	164293	1	07/25/2012 13:30	DB
Bromoform	BRL	5.0		ug/L	164293	1	07/25/2012 13:30	DB
Bromomethane	BRL	5.0		ug/L	164293	1	07/25/2012 13:30	DB
Carbon disulfide	BRL	5.0		ug/L	164293	1	07/25/2012 13:30	DB
Carbon tetrachloride	BRL	5.0		ug/L	164293	1	07/25/2012 13:30	DB
Chlorobenzene	BRL	5.0		ug/L	164293	1	07/25/2012 13:30	DB
Chloroethane	BRL	10		ug/L	164293	1	07/25/2012 13:30	DB
Chloroform	BRL	5.0		ug/L	164293	1	07/25/2012 13:30	DB
Chloromethane	BRL	10		ug/L	164293	1	07/25/2012 13:30	DB
cis-1,2-Dichloroethene	BRL	5.0		ug/L	164293	1	07/25/2012 13:30	DB
cis-1,3-Dichloropropene	BRL	5.0		ug/L	164293	1	07/25/2012 13:30	DB
Cyclohexane	BRL	5.0		ug/L	164293	1	07/25/2012 13:30	DB
Dibromochloromethane	BRL	5.0		ug/L	164293	1	07/25/2012 13:30	DB
Dichlorodifluoromethane	BRL	10		ug/L	164293	1	07/25/2012 13:30	DB
Ethylbenzene	BRL	5.0		ug/L	164293	1	07/25/2012 13:30	DB
Freon-113	BRL	10		ug/L	164293	1	07/25/2012 13:30	DB
Isopropylbenzene	BRL	5.0		ug/L	164293	1	07/25/2012 13:30	DB
Methyl acetate	BRL	5.0		ug/L	164293	1	07/25/2012 13:30	DB
Methyl tert-butyl ether	BRL	5.0		ug/L	164293	1	07/25/2012 13:30	DB
Methylcyclohexane	BRL	5.0		ug/L	164293	1	07/25/2012 13:30	DB
Methylene chloride	BRL	5.0		ug/L	164293	1	07/25/2012 13:30	DB
Styrene	BRL	5.0		ug/L	164293	1	07/25/2012 13:30	DB

Qualifiers:

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

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

Analytical Environmental Services, Inc

Date: 26-Jul-12

Client: AMEC E&I, Inc.	Client Sample ID: SW-1
Project Name: Imperial Cleaners	Collection Date: 7/19/2012 12:10:00 PM
Lab ID: 1207D24-010	Matrix: Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
Tetrachloroethene	BRL	5.0		ug/L	164293	1	07/25/2012 13:30	DB
Toluene	BRL	5.0		ug/L	164293	1	07/25/2012 13:30	DB
trans-1,2-Dichloroethene	BRL	5.0		ug/L	164293	1	07/25/2012 13:30	DB
trans-1,3-Dichloropropene	BRL	5.0		ug/L	164293	1	07/25/2012 13:30	DB
Trichloroethene	BRL	5.0		ug/L	164293	1	07/25/2012 13:30	DB
Trichlorofluoromethane	BRL	5.0		ug/L	164293	1	07/25/2012 13:30	DB
Vinyl chloride	BRL	2.0		ug/L	164293	1	07/25/2012 13:30	DB
Xylenes, Total	BRL	5.0		ug/L	164293	1	07/25/2012 13:30	DB
Surr: 4-Bromofluorobenzene	95.9	67.4-123		%REC	164293	1	07/25/2012 13:30	DB
Surr: Dibromofluoromethane	96.1	75.5-128		%REC	164293	1	07/25/2012 13:30	DB
Surr: Toluene-d8	98.1	70-120		%REC	164293	1	07/25/2012 13:30	DB

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: 26-Jul-12

Client: AMEC E&I, Inc.	Client Sample ID: SW-2
Project Name: Imperial Cleaners	Collection Date: 7/19/2012 12:15:00 PM
Lab ID: 1207D24-011	Matrix: Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	164293	1	07/25/2012 04:44	DB
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	164293	1	07/25/2012 04:44	DB
1,1,2-Trichloroethane	BRL	5.0		ug/L	164293	1	07/25/2012 04:44	DB
1,1-Dichloroethane	BRL	5.0		ug/L	164293	1	07/25/2012 04:44	DB
1,1-Dichloroethene	BRL	5.0		ug/L	164293	1	07/25/2012 04:44	DB
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	164293	1	07/25/2012 04:44	DB
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	164293	1	07/25/2012 04:44	DB
1,2-Dibromoethane	BRL	5.0		ug/L	164293	1	07/25/2012 04:44	DB
1,2-Dichlorobenzene	BRL	5.0		ug/L	164293	1	07/25/2012 04:44	DB
1,2-Dichloroethane	BRL	5.0		ug/L	164293	1	07/25/2012 04:44	DB
1,2-Dichloropropane	BRL	5.0		ug/L	164293	1	07/25/2012 04:44	DB
1,3-Dichlorobenzene	BRL	5.0		ug/L	164293	1	07/25/2012 04:44	DB
1,4-Dichlorobenzene	BRL	5.0		ug/L	164293	1	07/25/2012 04:44	DB
1,4-Dioxane	BRL	150		ug/L	164293	1	07/25/2012 04:44	DB
2-Butanone	BRL	50		ug/L	164293	1	07/25/2012 04:44	DB
2-Hexanone	BRL	10		ug/L	164293	1	07/25/2012 04:44	DB
4-Methyl-2-pentanone	BRL	10		ug/L	164293	1	07/25/2012 04:44	DB
Acetone	BRL	50		ug/L	164293	1	07/25/2012 04:44	DB
Benzene	BRL	5.0		ug/L	164293	1	07/25/2012 04:44	DB
Bromodichloromethane	BRL	5.0		ug/L	164293	1	07/25/2012 04:44	DB
Bromoform	BRL	5.0		ug/L	164293	1	07/25/2012 04:44	DB
Bromomethane	BRL	5.0		ug/L	164293	1	07/25/2012 04:44	DB
Carbon disulfide	BRL	5.0		ug/L	164293	1	07/25/2012 04:44	DB
Carbon tetrachloride	BRL	5.0		ug/L	164293	1	07/25/2012 04:44	DB
Chlorobenzene	BRL	5.0		ug/L	164293	1	07/25/2012 04:44	DB
Chloroethane	BRL	10		ug/L	164293	1	07/25/2012 04:44	DB
Chloroform	BRL	5.0		ug/L	164293	1	07/25/2012 04:44	DB
Chloromethane	BRL	10		ug/L	164293	1	07/25/2012 04:44	DB
cis-1,2-Dichloroethene	BRL	5.0		ug/L	164293	1	07/25/2012 04:44	DB
cis-1,3-Dichloropropene	BRL	5.0		ug/L	164293	1	07/25/2012 04:44	DB
Cyclohexane	BRL	5.0		ug/L	164293	1	07/25/2012 04:44	DB
Dibromochloromethane	BRL	5.0		ug/L	164293	1	07/25/2012 04:44	DB
Dichlorodifluoromethane	BRL	10		ug/L	164293	1	07/25/2012 04:44	DB
Ethylbenzene	BRL	5.0		ug/L	164293	1	07/25/2012 04:44	DB
Freon-113	BRL	10		ug/L	164293	1	07/25/2012 04:44	DB
Isopropylbenzene	BRL	5.0		ug/L	164293	1	07/25/2012 04:44	DB
Methyl acetate	BRL	5.0		ug/L	164293	1	07/25/2012 04:44	DB
Methyl tert-butyl ether	BRL	5.0		ug/L	164293	1	07/25/2012 04:44	DB
Methylcyclohexane	BRL	5.0		ug/L	164293	1	07/25/2012 04:44	DB
Methylene chloride	BRL	5.0		ug/L	164293	1	07/25/2012 04:44	DB
Styrene	BRL	5.0		ug/L	164293	1	07/25/2012 04:44	DB

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

Analytical Environmental Services, Inc

Date: 26-Jul-12

Client: AMEC E&I, Inc.	Client Sample ID: SW-2
Project Name: Imperial Cleaners	Collection Date: 7/19/2012 12:15:00 PM
Lab ID: 1207D24-011	Matrix: Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
Tetrachloroethene	BRL	5.0		ug/L	164293	1	07/25/2012 04:44	DB
Toluene	BRL	5.0		ug/L	164293	1	07/25/2012 04:44	DB
trans-1,2-Dichloroethene	BRL	5.0		ug/L	164293	1	07/25/2012 04:44	DB
trans-1,3-Dichloropropene	BRL	5.0		ug/L	164293	1	07/25/2012 04:44	DB
Trichloroethene	BRL	5.0		ug/L	164293	1	07/25/2012 04:44	DB
Trichlorofluoromethane	BRL	5.0		ug/L	164293	1	07/25/2012 04:44	DB
Vinyl chloride	BRL	2.0		ug/L	164293	1	07/25/2012 04:44	DB
Xylenes, Total	BRL	5.0		ug/L	164293	1	07/25/2012 04:44	DB
Surr: 4-Bromofluorobenzene	94.9	67.4-123		%REC	164293	1	07/25/2012 04:44	DB
Surr: Dibromofluoromethane	98.7	75.5-128		%REC	164293	1	07/25/2012 04:44	DB
Surr: Toluene-d8	100	70-120		%REC	164293	1	07/25/2012 04:44	DB

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: 26-Jul-12

Client: AMEC E&I, Inc.	Client Sample ID: SW-2 (DUP)
Project Name: Imperial Cleaners	Collection Date: 7/19/2012 12:15:00 PM
Lab ID: 1207D24-012	Matrix: Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	164293	1	07/25/2012 11:31	DB
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	164293	1	07/25/2012 11:31	DB
1,1,2-Trichloroethane	BRL	5.0		ug/L	164293	1	07/25/2012 11:31	DB
1,1-Dichloroethane	BRL	5.0		ug/L	164293	1	07/25/2012 11:31	DB
1,1-Dichloroethene	BRL	5.0		ug/L	164293	1	07/25/2012 11:31	DB
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	164293	1	07/25/2012 11:31	DB
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	164293	1	07/25/2012 11:31	DB
1,2-Dibromoethane	BRL	5.0		ug/L	164293	1	07/25/2012 11:31	DB
1,2-Dichlorobenzene	BRL	5.0		ug/L	164293	1	07/25/2012 11:31	DB
1,2-Dichloroethane	BRL	5.0		ug/L	164293	1	07/25/2012 11:31	DB
1,2-Dichloropropane	BRL	5.0		ug/L	164293	1	07/25/2012 11:31	DB
1,3-Dichlorobenzene	BRL	5.0		ug/L	164293	1	07/25/2012 11:31	DB
1,4-Dichlorobenzene	BRL	5.0		ug/L	164293	1	07/25/2012 11:31	DB
1,4-Dioxane	BRL	150		ug/L	164293	1	07/25/2012 11:31	DB
2-Butanone	BRL	50		ug/L	164293	1	07/25/2012 11:31	DB
2-Hexanone	BRL	10		ug/L	164293	1	07/25/2012 11:31	DB
4-Methyl-2-pentanone	BRL	10		ug/L	164293	1	07/25/2012 11:31	DB
Acetone	BRL	50		ug/L	164293	1	07/25/2012 11:31	DB
Benzene	BRL	5.0		ug/L	164293	1	07/25/2012 11:31	DB
Bromodichloromethane	BRL	5.0		ug/L	164293	1	07/25/2012 11:31	DB
Bromoform	BRL	5.0		ug/L	164293	1	07/25/2012 11:31	DB
Bromomethane	BRL	5.0		ug/L	164293	1	07/25/2012 11:31	DB
Carbon disulfide	BRL	5.0		ug/L	164293	1	07/25/2012 11:31	DB
Carbon tetrachloride	BRL	5.0		ug/L	164293	1	07/25/2012 11:31	DB
Chlorobenzene	BRL	5.0		ug/L	164293	1	07/25/2012 11:31	DB
Chloroethane	BRL	10		ug/L	164293	1	07/25/2012 11:31	DB
Chloroform	BRL	5.0		ug/L	164293	1	07/25/2012 11:31	DB
Chloromethane	BRL	10		ug/L	164293	1	07/25/2012 11:31	DB
cis-1,2-Dichloroethene	BRL	5.0		ug/L	164293	1	07/25/2012 11:31	DB
cis-1,3-Dichloropropene	BRL	5.0		ug/L	164293	1	07/25/2012 11:31	DB
Cyclohexane	BRL	5.0		ug/L	164293	1	07/25/2012 11:31	DB
Dibromochloromethane	BRL	5.0		ug/L	164293	1	07/25/2012 11:31	DB
Dichlorodifluoromethane	BRL	10		ug/L	164293	1	07/25/2012 11:31	DB
Ethylbenzene	BRL	5.0		ug/L	164293	1	07/25/2012 11:31	DB
Freon-113	BRL	10		ug/L	164293	1	07/25/2012 11:31	DB
Isopropylbenzene	BRL	5.0		ug/L	164293	1	07/25/2012 11:31	DB
Methyl acetate	BRL	5.0		ug/L	164293	1	07/25/2012 11:31	DB
Methyl tert-butyl ether	BRL	5.0		ug/L	164293	1	07/25/2012 11:31	DB
Methylcyclohexane	BRL	5.0		ug/L	164293	1	07/25/2012 11:31	DB
Methylene chloride	BRL	5.0		ug/L	164293	1	07/25/2012 11:31	DB
Styrene	BRL	5.0		ug/L	164293	1	07/25/2012 11:31	DB

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: 26-Jul-12

Client: AMEC E&I, Inc.	Client Sample ID: SW-2 (DUP)
Project Name: Imperial Cleaners	Collection Date: 7/19/2012 12:15:00 PM
Lab ID: 1207D24-012	Matrix: Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
Tetrachloroethene	BRL	5.0		ug/L	164293	1	07/25/2012 11:31	DB
Toluene	BRL	5.0		ug/L	164293	1	07/25/2012 11:31	DB
trans-1,2-Dichloroethene	BRL	5.0		ug/L	164293	1	07/25/2012 11:31	DB
trans-1,3-Dichloropropene	BRL	5.0		ug/L	164293	1	07/25/2012 11:31	DB
Trichloroethene	BRL	5.0		ug/L	164293	1	07/25/2012 11:31	DB
Trichlorofluoromethane	BRL	5.0		ug/L	164293	1	07/25/2012 11:31	DB
Vinyl chloride	BRL	2.0		ug/L	164293	1	07/25/2012 11:31	DB
Xylenes, Total	BRL	5.0		ug/L	164293	1	07/25/2012 11:31	DB
Surr: 4-Bromofluorobenzene	100	67.4-123		%REC	164293	1	07/25/2012 11:31	DB
Surr: Dibromofluoromethane	97.5	75.5-128		%REC	164293	1	07/25/2012 11:31	DB
Surr: Toluene-d8	95.8	70-120		%REC	164293	1	07/25/2012 11:31	DB

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: 26-Jul-12

Client:	AMEC E&I, Inc.	Client Sample ID:	SW-3
Project Name:	Imperial Cleaners	Collection Date:	7/19/2012 12:20:00 PM
Lab ID:	1207D24-013	Matrix:	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	164293	1	07/25/2012 12:01	DB
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	164293	1	07/25/2012 12:01	DB
1,1,2-Trichloroethane	BRL	5.0		ug/L	164293	1	07/25/2012 12:01	DB
1,1-Dichloroethane	BRL	5.0		ug/L	164293	1	07/25/2012 12:01	DB
1,1-Dichloroethene	BRL	5.0		ug/L	164293	1	07/25/2012 12:01	DB
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	164293	1	07/25/2012 12:01	DB
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	164293	1	07/25/2012 12:01	DB
1,2-Dibromoethane	BRL	5.0		ug/L	164293	1	07/25/2012 12:01	DB
1,2-Dichlorobenzene	BRL	5.0		ug/L	164293	1	07/25/2012 12:01	DB
1,2-Dichloroethane	BRL	5.0		ug/L	164293	1	07/25/2012 12:01	DB
1,2-Dichloropropane	BRL	5.0		ug/L	164293	1	07/25/2012 12:01	DB
1,3-Dichlorobenzene	BRL	5.0		ug/L	164293	1	07/25/2012 12:01	DB
1,4-Dichlorobenzene	BRL	5.0		ug/L	164293	1	07/25/2012 12:01	DB
1,4-Dioxane	BRL	150		ug/L	164293	1	07/25/2012 12:01	DB
2-Butanone	BRL	50		ug/L	164293	1	07/25/2012 12:01	DB
2-Hexanone	BRL	10		ug/L	164293	1	07/25/2012 12:01	DB
4-Methyl-2-pentanone	BRL	10		ug/L	164293	1	07/25/2012 12:01	DB
Acetone	BRL	50		ug/L	164293	1	07/25/2012 12:01	DB
Benzene	BRL	5.0		ug/L	164293	1	07/25/2012 12:01	DB
Bromodichloromethane	BRL	5.0		ug/L	164293	1	07/25/2012 12:01	DB
Bromoform	BRL	5.0		ug/L	164293	1	07/25/2012 12:01	DB
Bromomethane	BRL	5.0		ug/L	164293	1	07/25/2012 12:01	DB
Carbon disulfide	BRL	5.0		ug/L	164293	1	07/25/2012 12:01	DB
Carbon tetrachloride	BRL	5.0		ug/L	164293	1	07/25/2012 12:01	DB
Chlorobenzene	BRL	5.0		ug/L	164293	1	07/25/2012 12:01	DB
Chloroethane	BRL	10		ug/L	164293	1	07/25/2012 12:01	DB
Chloroform	BRL	5.0		ug/L	164293	1	07/25/2012 12:01	DB
Chloromethane	BRL	10		ug/L	164293	1	07/25/2012 12:01	DB
cis-1,2-Dichloroethene	BRL	5.0		ug/L	164293	1	07/25/2012 12:01	DB
cis-1,3-Dichloropropene	BRL	5.0		ug/L	164293	1	07/25/2012 12:01	DB
Cyclohexane	BRL	5.0		ug/L	164293	1	07/25/2012 12:01	DB
Dibromochloromethane	BRL	5.0		ug/L	164293	1	07/25/2012 12:01	DB
Dichlorodifluoromethane	BRL	10		ug/L	164293	1	07/25/2012 12:01	DB
Ethylbenzene	BRL	5.0		ug/L	164293	1	07/25/2012 12:01	DB
Freon-113	BRL	10		ug/L	164293	1	07/25/2012 12:01	DB
Isopropylbenzene	BRL	5.0		ug/L	164293	1	07/25/2012 12:01	DB
Methyl acetate	BRL	5.0		ug/L	164293	1	07/25/2012 12:01	DB
Methyl tert-butyl ether	BRL	5.0		ug/L	164293	1	07/25/2012 12:01	DB
Methylcyclohexane	BRL	5.0		ug/L	164293	1	07/25/2012 12:01	DB
Methylene chloride	BRL	5.0		ug/L	164293	1	07/25/2012 12:01	DB
Styrene	BRL	5.0		ug/L	164293	1	07/25/2012 12:01	DB

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: 26-Jul-12

Client: AMEC E&I, Inc.	Client Sample ID: SW-3
Project Name: Imperial Cleaners	Collection Date: 7/19/2012 12:20:00 PM
Lab ID: 1207D24-013	Matrix: Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
Tetrachloroethene	BRL	5.0		ug/L	164293	1	07/25/2012 12:01	DB
Toluene	BRL	5.0		ug/L	164293	1	07/25/2012 12:01	DB
trans-1,2-Dichloroethene	BRL	5.0		ug/L	164293	1	07/25/2012 12:01	DB
trans-1,3-Dichloropropene	BRL	5.0		ug/L	164293	1	07/25/2012 12:01	DB
Trichloroethene	BRL	5.0		ug/L	164293	1	07/25/2012 12:01	DB
Trichlorofluoromethane	BRL	5.0		ug/L	164293	1	07/25/2012 12:01	DB
Vinyl chloride	BRL	2.0		ug/L	164293	1	07/25/2012 12:01	DB
Xylenes, Total	BRL	5.0		ug/L	164293	1	07/25/2012 12:01	DB
Surr: 4-Bromofluorobenzene	96.6	67.4-123		%REC	164293	1	07/25/2012 12:01	DB
Surr: Dibromofluoromethane	98.1	75.5-128		%REC	164293	1	07/25/2012 12:01	DB
Surr: Toluene-d8	98	70-120		%REC	164293	1	07/25/2012 12:01	DB

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

Client: AMEC E&I, Inc.	Client Sample ID: TRIP BLANK
Project Name: Imperial Cleaners	Collection Date: 7/19/2012
Lab ID: 1207D24-014	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	164293	1	07/25/2012 10:31	DB
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	164293	1	07/25/2012 10:31	DB
1,1,2-Trichloroethane	BRL	5.0		ug/L	164293	1	07/25/2012 10:31	DB
1,1-Dichloroethane	BRL	5.0		ug/L	164293	1	07/25/2012 10:31	DB
1,1-Dichloroethene	BRL	5.0		ug/L	164293	1	07/25/2012 10:31	DB
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	164293	1	07/25/2012 10:31	DB
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	164293	1	07/25/2012 10:31	DB
1,2-Dibromoethane	BRL	5.0		ug/L	164293	1	07/25/2012 10:31	DB
1,2-Dichlorobenzene	BRL	5.0		ug/L	164293	1	07/25/2012 10:31	DB
1,2-Dichloroethane	BRL	5.0		ug/L	164293	1	07/25/2012 10:31	DB
1,2-Dichloropropane	BRL	5.0		ug/L	164293	1	07/25/2012 10:31	DB
1,3-Dichlorobenzene	BRL	5.0		ug/L	164293	1	07/25/2012 10:31	DB
1,4-Dichlorobenzene	BRL	5.0		ug/L	164293	1	07/25/2012 10:31	DB
1,4-Dioxane	BRL	150		ug/L	164293	1	07/25/2012 10:31	DB
2-Butanone	BRL	50		ug/L	164293	1	07/25/2012 10:31	DB
2-Hexanone	BRL	10		ug/L	164293	1	07/25/2012 10:31	DB
4-Methyl-2-pentanone	BRL	10		ug/L	164293	1	07/25/2012 10:31	DB
Acetone	BRL	50		ug/L	164293	1	07/25/2012 10:31	DB
Benzene	BRL	5.0		ug/L	164293	1	07/25/2012 10:31	DB
Bromodichloromethane	BRL	5.0		ug/L	164293	1	07/25/2012 10:31	DB
Bromoform	BRL	5.0		ug/L	164293	1	07/25/2012 10:31	DB
Bromomethane	BRL	5.0		ug/L	164293	1	07/25/2012 10:31	DB
Carbon disulfide	BRL	5.0		ug/L	164293	1	07/25/2012 10:31	DB
Carbon tetrachloride	BRL	5.0		ug/L	164293	1	07/25/2012 10:31	DB
Chlorobenzene	BRL	5.0		ug/L	164293	1	07/25/2012 10:31	DB
Chloroethane	BRL	10		ug/L	164293	1	07/25/2012 10:31	DB
Chloroform	BRL	5.0		ug/L	164293	1	07/25/2012 10:31	DB
Chloromethane	BRL	10		ug/L	164293	1	07/25/2012 10:31	DB
cis-1,2-Dichloroethene	BRL	5.0		ug/L	164293	1	07/25/2012 10:31	DB
cis-1,3-Dichloropropene	BRL	5.0		ug/L	164293	1	07/25/2012 10:31	DB
Cyclohexane	BRL	5.0		ug/L	164293	1	07/25/2012 10:31	DB
Dibromochloromethane	BRL	5.0		ug/L	164293	1	07/25/2012 10:31	DB
Dichlorodifluoromethane	BRL	10		ug/L	164293	1	07/25/2012 10:31	DB
Ethylbenzene	BRL	5.0		ug/L	164293	1	07/25/2012 10:31	DB
Freon-113	BRL	10		ug/L	164293	1	07/25/2012 10:31	DB
Isopropylbenzene	BRL	5.0		ug/L	164293	1	07/25/2012 10:31	DB
Methyl acetate	BRL	5.0		ug/L	164293	1	07/25/2012 10:31	DB
Methyl tert-butyl ether	BRL	5.0		ug/L	164293	1	07/25/2012 10:31	DB
Methylcyclohexane	BRL	5.0		ug/L	164293	1	07/25/2012 10:31	DB
Methylene chloride	BRL	5.0		ug/L	164293	1	07/25/2012 10:31	DB
Styrene	BRL	5.0		ug/L	164293	1	07/25/2012 10:31	DB

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: 26-Jul-12

Client: AMEC E&I, Inc.	Client Sample ID: TRIP BLANK
Project Name: Imperial Cleaners	Collection Date: 7/19/2012
Lab ID: 1207D24-014	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
Tetrachloroethene	BRL	5.0		ug/L	164293	1	07/25/2012 10:31	DB
Toluene	BRL	5.0		ug/L	164293	1	07/25/2012 10:31	DB
trans-1,2-Dichloroethene	BRL	5.0		ug/L	164293	1	07/25/2012 10:31	DB
trans-1,3-Dichloropropene	BRL	5.0		ug/L	164293	1	07/25/2012 10:31	DB
Trichloroethene	BRL	5.0		ug/L	164293	1	07/25/2012 10:31	DB
Trichlorofluoromethane	BRL	5.0		ug/L	164293	1	07/25/2012 10:31	DB
Vinyl chloride	BRL	2.0		ug/L	164293	1	07/25/2012 10:31	DB
Xylenes, Total	BRL	5.0		ug/L	164293	1	07/25/2012 10:31	DB
Surr: 4-Bromofluorobenzene	97.5	67.4-123		%REC	164293	1	07/25/2012 10:31	DB
Surr: Dibromofluoromethane	96.9	75.5-128		%REC	164293	1	07/25/2012 10:31	DB
Surr: Toluene-d8	97.8	70-120		%REC	164293	1	07/25/2012 10:31	DB

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 Amec

Work Order Number 1207024

Checklist completed by [Signature] Signature Date 7/19/12

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 [Signature]
Sample Condition: Good Other(Explain) _____
(For diffusive samples or AIHA lead) Is a known blank included? Yes No

See Case Narrative for resolution of the Non-Conformance.

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

Analytical Environmental Services, Inc

Date: 26-Jul-12

Client: AMEC E&I, Inc.
 Project: Imperial Cleaners
 Lab Order: 1207D24

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1207D24-001A	MW-7	7/18/2012 9:10:00AM	Groundwater	Volatile Organic Compounds by GC/MS		07/23/2012	07/25/2012
1207D24-001B	MW-7	7/18/2012 9:10:00AM	Groundwater	GC Analysis of Gaseous Samples		07/25/2012	07/25/2012
1207D24-001C	MW-7	7/18/2012 9:10:00AM	Groundwater	Alkalinity			07/25/2012
1207D24-001D	MW-7	7/18/2012 9:10:00AM	Groundwater	Sulfide by SW9030/9034		07/23/2012	07/24/2012
1207D24-001E	MW-7	7/18/2012 9:10:00AM	Groundwater	ION SCAN			07/19/2012
1207D24-001F	MW-7	7/18/2012 9:10:00AM	Groundwater	Ferrous Iron			07/19/2012
1207D24-002A	DW-1	7/18/2012 9:35:00AM	Groundwater	Volatile Organic Compounds by GC/MS		07/23/2012	07/25/2012
1207D24-003A	MW-2	7/18/2012 10:58:00AM	Groundwater	Volatile Organic Compounds by GC/MS		07/23/2012	07/25/2012
1207D24-003B	MW-2	7/18/2012 10:58:00AM	Groundwater	GC Analysis of Gaseous Samples		07/25/2012	07/25/2012
1207D24-003C	MW-2	7/18/2012 10:58:00AM	Groundwater	Alkalinity			07/25/2012
1207D24-003D	MW-2	7/18/2012 10:58:00AM	Groundwater	Sulfide by SW9030/9034		07/23/2012	07/24/2012
1207D24-003E	MW-2	7/18/2012 10:58:00AM	Groundwater	ION SCAN			07/19/2012
1207D24-003F	MW-2	7/18/2012 10:58:00AM	Groundwater	Ferrous Iron			07/19/2012
1207D24-004A	MW-3	7/18/2012 10:42:00AM	Groundwater	Volatile Organic Compounds by GC/MS		07/23/2012	07/25/2012
1207D24-005A	MW-16	7/18/2012 12:45:00PM	Groundwater	Volatile Organic Compounds by GC/MS		07/23/2012	07/25/2012
1207D24-006A	MW-5	7/18/2012 2:20:00PM	Groundwater	Volatile Organic Compounds by GC/MS		07/24/2012	07/25/2012
1207D24-006B	MW-5	7/18/2012 2:20:00PM	Groundwater	GC Analysis of Gaseous Samples		07/25/2012	07/25/2012
1207D24-006C	MW-5	7/18/2012 2:20:00PM	Groundwater	Alkalinity			07/25/2012
1207D24-006D	MW-5	7/18/2012 2:20:00PM	Groundwater	Sulfide by SW9030/9034		07/23/2012	07/24/2012
1207D24-006E	MW-5	7/18/2012 2:20:00PM	Groundwater	ION SCAN			07/19/2012
1207D24-006F	MW-5	7/18/2012 2:20:00PM	Groundwater	Ferrous Iron			07/19/2012
1207D24-007A	MW-4	7/18/2012 3:50:00PM	Groundwater	Volatile Organic Compounds by GC/MS		07/24/2012	07/25/2012
1207D24-009A	MW-12	7/18/2012 6:35:00PM	Groundwater	Volatile Organic Compounds by GC/MS		07/24/2012	07/25/2012
1207D24-010A	SW-1	7/19/2012 12:10:00PM	Surface Water	Volatile Organic Compounds by GC/MS		07/24/2012	07/25/2012
1207D24-011A	SW-2	7/19/2012 12:15:00PM	Surface Water	Volatile Organic Compounds by GC/MS		07/24/2012	07/25/2012
1207D24-012A	SW-2 (DUJ)	7/19/2012 12:15:00PM	Surface Water	Volatile Organic Compounds by GC/MS		07/24/2012	07/25/2012
1207D24-013A	SW-3	7/19/2012 12:20:00PM	Surface Water	Volatile Organic Compounds by GC/MS		07/24/2012	07/25/2012
1207D24-014A	TRIP BLANK	7/19/2012 12:00:00AM	Aqueous	Volatile Organic Compounds by GC/MS		07/24/2012	07/25/2012

Analytical Environmental Services, Inc

Date: 26-Jul-12

Client: AMEC E&I, Inc.
 Project Name: Imperial Cleaners
 Workorder: 1207D24

ANALYTICAL QC SUMMARY REPORT

BatchID: 164201

Sample ID: MB-164201	Client ID:	Units: ug/L	Prep Date: 07/23/2012	Run No: 225540							
Sample Type: MBLK	Test Code: Volatile Organic Compounds by GC/MS SW-8260B	BatchID: 164201	Analysis Date: 07/23/2012	Seq No: 4721409							
Analyte	Result	RPT Limit	SPK value	SPK RefVal	%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	0
1,1,2,2-Tetrachloroethane	BRL	5.0	0	0	0	0	0	0	0	0	0
1,1,2-Trichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	0
1,1-Dichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	0
1,1-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	0
1,2,4-Trichlorobenzene	BRL	5.0	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	0
1,2-Dibromoethane	BRL	5.0	0	0	0	0	0	0	0	0	0
1,2-Dichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	0
1,2-Dichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	0
1,2-Dichloropropane	BRL	5.0	0	0	0	0	0	0	0	0	0
1,3-Dichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	0
1,4-Dichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	0
1,4-Dioxane	BRL	150	0	0	0	0	0	0	0	0	0
2-Butanone	BRL	50	0	0	0	0	0	0	0	0	0
2-Hexanone	BRL	10	0	0	0	0	0	0	0	0	0
4-Methyl-2-pentanone	BRL	10	0	0	0	0	0	0	0	0	0
Acetone	BRL	50	0	0	0	0	0	0	0	0	0
Benzene	BRL	5.0	0	0	0	0	0	0	0	0	0
Bromodichloromethane	BRL	5.0	0	0	0	0	0	0	0	0	0
Bromoform	BRL	5.0	0	0	0	0	0	0	0	0	0
Bromomethane	BRL	5.0	0	0	0	0	0	0	0	0	0
Carbon disulfide	BRL	5.0	0	0	0	0	0	0	0	0	0
Carbon tetrachloride	BRL	5.0	0	0	0	0	0	0	0	0	0
Chlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	0
Chloroethane	BRL	10	0	0	0	0	0	0	0	0	0
Chloroform	BRL	5.0	0	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		

Analytical Environmental Services, Inc

Date: 26-Jul-12

Client: AMEC E&I, Inc.
 Project Name: Imperial Cleaners
 Workorder: 1207D24

ANALYTICAL QC SUMMARY REPORT

BatchID: 164201

Sample ID: MB-164201	Client ID:	Units: ug/L	Prep Date: 07/23/2012	Run No: 225540							
Sample Type: MBLK	Test Code: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 164201	Analysis Date: 07/23/2012	Seq No: 4721409							
Analyte	Result	RPT Limit	SPK value	SPK RefVal	%REC	Low Limit	High Limit	RPD RefVal	%RPD	RPD Limit	Qual

Chloromethane	BRL	10	0	0	0	0	0	0	0	0	0
cis-1,2-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	0
cis-1,3-Dichloropropene	BRL	5.0	0	0	0	0	0	0	0	0	0
Cyclohexane	BRL	5.0	0	0	0	0	0	0	0	0	0
Dibromochloromethane	BRL	5.0	0	0	0	0	0	0	0	0	0
Dichlorodifluoromethane	BRL	10	0	0	0	0	0	0	0	0	0
Ethylbenzene	BRL	5.0	0	0	0	0	0	0	0	0	0
Freon-113	BRL	10	0	0	0	0	0	0	0	0	0
Isopropylbenzene	BRL	5.0	0	0	0	0	0	0	0	0	0
Methyl acetate	BRL	5.0	0	0	0	0	0	0	0	0	0
Methyl tert-butyl ether	BRL	5.0	0	0	0	0	0	0	0	0	0
Methylcyclohexane	BRL	5.0	0	0	0	0	0	0	0	0	0
Methylene chloride	BRL	5.0	0	0	0	0	0	0	0	0	0
Styrene	BRL	5.0	0	0	0	0	0	0	0	0	0
Tetrachloroethene	BRL	5.0	0	0	0	0	0	0	0	0	0
Toluene	BRL	5.0	0	0	0	0	0	0	0	0	0
trans-1,2-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	0
trans-1,3-Dichloropropene	BRL	5.0	0	0	0	0	0	0	0	0	0
Trichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	0
Trichlorofluoromethane	BRL	5.0	0	0	0	0	0	0	0	0	0
Vinyl chloride	BRL	2.0	0	0	0	0	0	0	0	0	0
Xylenes, Total	BRL	5.0	0	0	0	0	0	0	0	0	0
Surr: 4-Bromofluorobenzene	47.61	0	50	0	95.2	67.4	123	0	0	0	0
Surr: Dibromofluoromethane	49.46	0	50	0	98.9	75.5	128	0	0	0	0
Surr: Toluene-d8	47.79	0	50	0	95.6	70	120	0	0	0	0

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

Analytical Environmental Services, Inc

Date: 26-Jul-12

Client: AMEC E&I, Inc.
 Project Name: Imperial Cleaners
 Workorder: 1207D24

ANALYTICAL QC SUMMARY REPORT

BatchID: 164201

Sample ID: LCS-164201	Client ID:	Units: ug/L	Prep Date: 07/23/2012	Run No: 225540							
Sample Type: LCS	Test Code: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 164201	Analysis Date: 07/23/2012	Seq No: 4721408							
Analyte	Result	RPT Limit	SPK value	SPK RefVal	%REC	Low Limit	High Limit	RPD RefVal	%RPD	RPD Limit	Qual

1,1-Dichloroethene	59.87	5.0	50	0	120	60	140	0	0	0	0
Benzene	53.63	5.0	50	0	107	70	130	0	0	0	0
Chlorobenzene	54.47	5.0	50	0	109	70	130	0	0	0	0
Toluene	53.09	5.0	50	0	106	70	130	0	0	0	0
Trichloroethene	51.39	5.0	50	0	103	70	130	0	0	0	0
Surr: 4-Bromofluorobenzene	51.28	0	50	0	103	67.4	123	0	0	0	0
Surr: Dibromofluoromethane	49.76	0	50	0	99.5	75.5	128	0	0	0	0
Surr: Toluene-d8	49.29	0	50	0	98.6	70	120	0	0	0	0

Sample ID: 1207B62-001AMIS	Client ID:	Units: ug/L	Prep Date: 07/23/2012	Run No: 225618							
Sample Type: MS	Test Code: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 164201	Analysis Date: 07/24/2012	Seq No: 4723950							
Analyte	Result	RPT Limit	SPK value	SPK RefVal	%REC	Low Limit	High Limit	RPD RefVal	%RPD	RPD Limit	Qual

1,1-Dichloroethene	63.53	5.0	50	0	127	50.1	179	0	0	0	0
Benzene	56.28	5.0	50	0	113	61.2	150	0	0	0	0
Chlorobenzene	57.33	5.0	50	0	115	72.1	140	0	0	0	0
Toluene	57.46	5.0	50	0	115	58.7	154	0	0	0	0
Trichloroethene	55.26	5.0	50	0	111	68.3	149	0	0	0	0
Surr: 4-Bromofluorobenzene	50.99	0	50	0	102	67.4	123	0	0	0	0
Surr: Dibromofluoromethane	48.92	0	50	0	97.8	75.5	128	0	0	0	0
Surr: Toluene-d8	48.75	0	50	0	97.5	70	120	0	0	0	0

Sample ID: 1207B62-001AMISD	Client ID:	Units: ug/L	Prep Date: 07/23/2012	Run No: 225618							
Sample Type: MSD	Test Code: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 164201	Analysis Date: 07/24/2012	Seq No: 4723940							
Analyte	Result	RPT Limit	SPK value	SPK RefVal	%REC	Low Limit	High Limit	RPD RefVal	%RPD	RPD Limit	Qual

1,1-Dichloroethene	61.75	5.0	50	0	124	50.1	179	63.53	2.84	23.3	
Benzene	57.02	5.0	50	0	114	61.2	150	56.28	1.31	19	

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

Analytical Environmental Services, Inc

Date: 26-Jul-12

Client: AMEC E&I, Inc.
 Project Name: Imperial Cleaners
 Workorder: 1207D24

ANALYTICAL QC SUMMARY REPORT

BatchID: 164201

Sample ID: 1207B62-001AMSD	Client ID:	Units: ug/L	Prep Date: 07/23/2012	Run No: 225618
Sample Type: MSD	Test Code: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 164201	Analysis Date: 07/24/2012	Seq No: 4723940

Analyte	Result	RPT Limit	SPK value	SPK RefVal	%REC	Low Limit	High Limit	RPD RefVal	%RPD	RPD Limit	Qual
Chlorobenzene	56.73	5.0	50	0	113	72.1	140	57.33	1.05	21.5	
Toluene	57.75	5.0	50	0	116	58.7	154	57.46	0.503	20	
Trichloroethene	56.02	5.0	50	0	112	68.3	149	55.26	1.37	17.7	
Surr: 4-Bromofluorobenzene	50.54	0	50	0	101	67.4	123	50.99	0	0	
Surr: Dibromofluoromethane	49.33	0	50	0	98.7	75.5	128	48.92	0	0	
Surr: Toluene-d8	49.56	0	50	0	99.1	70	120	48.75	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: 26-Jul-12

Client: AMEC E&I, Inc.
 Project Name: Imperial Cleaners
 Workorder: 1207D24

ANALYTICAL QC SUMMARY REPORT

BatchID: 164204

Sample ID: MB-164204	Client ID:	Units: mg/L	Prep Date: 07/23/2012	Run No: 225717				
Sample Type: MBLK	TestCode: Sulfide by SW9030B/9034	BatchID: 164204	Analysis Date: 07/24/2012	Seq No: 4724686				
Analyte	Result	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfide	BRL	0	0	0	0	0	0	0

Sample ID: LCS-164204	Client ID:	Units: mg/L	Prep Date: 07/23/2012	Run No: 225717				
Sample Type: LCS	TestCode: Sulfide by SW9030B/9034	BatchID: 164204	Analysis Date: 07/24/2012	Seq No: 4724687				
Analyte	Result	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfide	272.8	100	40	120	0	0	0	0

Sample ID: 1207D24-001DMS	Client ID: MW-7	Units: mg/L	Prep Date: 07/23/2012	Run No: 225717				
Sample Type: MS	TestCode: Sulfide by SW9030B/9034	BatchID: 164204	Analysis Date: 07/24/2012	Seq No: 4724689				
Analyte	Result	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfide	28.48	104	66.8	121	0	0	0	0

Sample ID: 1207D24-001DMSD	Client ID: MW-7	Units: mg/L	Prep Date: 07/23/2012	Run No: 225717				
Sample Type: MSD	TestCode: Sulfide by SW9030B/9034	BatchID: 164204	Analysis Date: 07/24/2012	Seq No: 4724690				
Analyte	Result	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfide	27.68	101	66.8	121	28.48	2.85	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

Date: 26-Jul-12

Client: AMEC E&I, Inc.
 Project Name: Imperial Cleaners
 Workorder: 1207D24

ANALYTICAL QC SUMMARY REPORT

BatchID: 164293

Sample ID: MB-164293	Client ID:	Units: ug/L	Prep Date:	Run No: 225697								
Sample Type: MBLK	Test Code: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 164293	Analysis Date: 07/24/2012	Seq No: 4724697								
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	BRL	5.0	0	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	0	0
1,1,2-Trichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	0	0
1,1-Dichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	0	0
1,1-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	0	0
1,2,4-Trichlorobenzene	BRL	5.0	0	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	0	0
1,2-Dibromoethane	BRL	5.0	0	0	0	0	0	0	0	0	0	0
1,2-Dichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	0	0
1,2-Dichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	0	0
1,2-Dichloropropane	BRL	5.0	0	0	0	0	0	0	0	0	0	0
1,3-Dichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	0	0
1,4-Dichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	0	0
1,4-Dioxane	BRL	150	0	0	0	0	0	0	0	0	0	0
2-Butanone	BRL	50	0	0	0	0	0	0	0	0	0	0
2-Hexanone	BRL	10	0	0	0	0	0	0	0	0	0	0
4-Methyl-2-pentanone	BRL	10	0	0	0	0	0	0	0	0	0	0
Acetone	BRL	50	0	0	0	0	0	0	0	0	0	0
Benzene	BRL	5.0	0	0	0	0	0	0	0	0	0	0
Bromodichloromethane	BRL	5.0	0	0	0	0	0	0	0	0	0	0
Bromoform	BRL	5.0	0	0	0	0	0	0	0	0	0	0
Bromomethane	BRL	5.0	0	0	0	0	0	0	0	0	0	0
Carbon disulfide	BRL	5.0	0	0	0	0	0	0	0	0	0	0
Carbon tetrachloride	BRL	5.0	0	0	0	0	0	0	0	0	0	0
Chlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	0	0
Chloroethane	BRL	10	0	0	0	0	0	0	0	0	0	0
Chloroform	BRL	5.0	0	0	0	0	0	0	0	0	0	0

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

Analytical Environmental Services, Inc

Date: 26-Jul-12

Client: AMEC E&I, Inc.
 Project Name: Imperial Cleaners
 Workorder: 1207D24

ANALYTICAL QC SUMMARY REPORT

BatchID: 164293

Sample ID: MB-164293	Client ID:	Units: ug/L	Prep Date: 07/24/2012	Run No: 225697
Sample Type: MBLK	Test Code: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 164293	Analysis Date: 07/24/2012	Seq No: 4724697

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloromethane	BRL	10	0	0	0	0	0	0	0	0	0
cis-1,2-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	0
cis-1,3-Dichloropropene	BRL	5.0	0	0	0	0	0	0	0	0	0
Cyclohexane	BRL	5.0	0	0	0	0	0	0	0	0	0
Dibromochloromethane	BRL	5.0	0	0	0	0	0	0	0	0	0
Dichlorodifluoromethane	BRL	10	0	0	0	0	0	0	0	0	0
Ethylbenzene	BRL	5.0	0	0	0	0	0	0	0	0	0
Freon-113	BRL	10	0	0	0	0	0	0	0	0	0
Isopropylbenzene	BRL	5.0	0	0	0	0	0	0	0	0	0
Methyl acetate	BRL	5.0	0	0	0	0	0	0	0	0	0
Methyl tert-butyl ether	BRL	5.0	0	0	0	0	0	0	0	0	0
Methylcyclohexane	BRL	5.0	0	0	0	0	0	0	0	0	0
Methylene chloride	BRL	5.0	0	0	0	0	0	0	0	0	0
Styrene	BRL	5.0	0	0	0	0	0	0	0	0	0
Tetrachloroethene	BRL	5.0	0	0	0	0	0	0	0	0	0
Toluene	BRL	5.0	0	0	0	0	0	0	0	0	0
trans-1,2-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	0
trans-1,3-Dichloropropene	BRL	5.0	0	0	0	0	0	0	0	0	0
Trichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	0
Trichlorofluoromethane	BRL	5.0	0	0	0	0	0	0	0	0	0
Vinyl chloride	BRL	2.0	0	0	0	0	0	0	0	0	0
Xylenes, Total	BRL	5.0	0	0	0	0	0	0	0	0	0
Surr: 4-Bromofluorobenzene	47.26	0	50	0	94.5	67.4	123	0	0	0	0
Surr: Dibromofluoromethane	47.17	0	50	0	94.3	75.5	128	0	0	0	0
Surr: Toluene-d8	47.23	0	50	0	94.5	70	120	0	0	0	0

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

Analytical Environmental Services, Inc

Date: 26-Jul-12

Client: AMEC E&I, Inc.
 Project Name: Imperial Cleaners
 Workorder: 1207D24

ANALYTICAL QC SUMMARY REPORT

BatchID: 164293

Sample ID: LCS-164293	Client ID:	Units: ug/L	Prep Date: 07/24/2012	Run No: 225719							
Sample Type: LCS	Test Code: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 164293	Analysis Date: 07/25/2012	Seq No: 4725055							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	57.25	5.0	50	0	114	60	140	0	0	0	0
Benzene	52.32	5.0	50	0	105	70	130	0	0	0	0
Chlorobenzene	53.10	5.0	50	0	106	70	130	0	0	0	0
Toluene	52.97	5.0	50	0	106	70	130	0	0	0	0
Trichloroethene	50.26	5.0	50	0	101	70	130	0	0	0	0
Surr: 4-Bromofluorobenzene	51.14	0	50	0	102	67.4	123	0	0	0	0
Surr: Dibromofluoromethane	49.70	0	50	0	99.4	75.5	128	0	0	0	0
Surr: Toluene-d8	49.09	0	50	0	98.2	70	120	0	0	0	0

Sample ID: 1207D24-013AMS	Client ID: SW-3	Units: ug/L	Prep Date: 07/24/2012	Run No: 225719							
Sample Type: MS	Test Code: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 164293	Analysis Date: 07/25/2012	Seq No: 4725499							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	62.78	5.0	50	0	126	50.1	179	0	0	0	0
Benzene	54.18	5.0	50	0	108	61.2	150	0	0	0	0
Chlorobenzene	55.50	5.0	50	0	111	72.1	140	0	0	0	0
Toluene	55.46	5.0	50	0	111	58.7	154	0	0	0	0
Trichloroethene	54.24	5.0	50	0	108	68.3	149	0	0	0	0
Surr: 4-Bromofluorobenzene	51.57	0	50	0	103	67.4	123	0	0	0	0
Surr: Dibromofluoromethane	50.91	0	50	0	102	75.5	128	0	0	0	0
Surr: Toluene-d8	49.99	0	50	0	100	70	120	0	0	0	0

Sample ID: 1207D24-013AMSD	Client ID: SW-3	Units: ug/L	Prep Date: 07/24/2012	Run No: 225719							
Sample Type: MSD	Test Code: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 164293	Analysis Date: 07/25/2012	Seq No: 4725500							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	59.39	5.0	50	0	119	50.1	179	62.78	5.55	23.3	
Benzene	52.42	5.0	50	0	105	61.2	150	54.18	3.3	19	

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

Analytical Environmental Services, Inc

Date: 26-Jul-12

Client: AMEC E&I, Inc.
 Project Name: Imperial Cleaners
 Workorder: 1207D24

ANALYTICAL QC SUMMARY REPORT

BatchID: 164293

Sample ID: 1207D24-013AMSD	Client ID: SW-3	Units: ug/L	Prep Date: 07/24/2012	Run No: 225719
Sample Type: MSD	Test Code: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 164293	Analysis Date: 07/25/2012	Seq No: 4725500

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorobenzene	53.26	5.0	50	0	107	72.1	140	55.50	4.12	21.5	
Toluene	53.05	5.0	50	0	106	58.7	154	55.46	4.44	20	
Trichloroethene	51.64	5.0	50	0	103	68.3	149	54.24	4.91	17.7	
Surr: 4-Bromofluorobenzene	51.83	0	50	0	104	67.4	123	51.57	0	0	
Surr: Dibromofluoromethane	50.48	0	50	0	101	75.5	128	50.91	0	0	
Surr: Toluene-d8	50.53	0	50	0	101	70	120	49.99	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: 26-Jul-12

Client: AMEC E&I, Inc.
 Project Name: Imperial Cleaners
 Workorder: 1207D24

ANALYTICAL QC SUMMARY REPORT

BatchID: 164295

Sample ID: MB-164295	Client ID:	Units: ug/L	Prep Date: 07/25/2012	Run No: 225726							
Sample Type: MBLK	TestCode: GC Analysis of Gaseous Samples SOP-RSK 175	BatchID: 164295	Analysis Date: 07/25/2012	Seq No: 4724848							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethane	BRL	9	0	0	0	0	0	0	0	0	0
Ethylene	BRL	7	0	0	0	0	0	0	0	0	0
Methane	BRL	4	0	0	0	0	0	0	0	0	0

Sample ID: LCS-164295	Client ID:	Units: ug/L	Prep Date: 07/25/2012	Run No: 225726							
Sample Type: LCS	TestCode: GC Analysis of Gaseous Samples SOP-RSK 175	BatchID: 164295	Analysis Date: 07/25/2012	Seq No: 4724853							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethane	107.3	9	200	0	53.7	37.9	115	0	0	0	0
Ethylene	71.37	7	200	0	35.7	26.6	115	0	0	0	0
Methane	113.1	4	200	0	56.6	38.4	115	0	0	0	0

Sample ID: LCSD-164295	Client ID:	Units: ug/L	Prep Date: 07/25/2012	Run No: 225726							
Sample Type: LCSD	TestCode: GC Analysis of Gaseous Samples SOP-RSK 175	BatchID: 164295	Analysis Date: 07/25/2012	Seq No: 4724854							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethane	108.0	9	200	0	54	37.9	115	107.3	0.61	20	20
Ethylene	72.11	7	200	0	36.1	26.6	115	71.37	1.04	20	20
Methane	115.8	4	200	0	57.9	38.4	115	113.1	2.34	20	20

Sample ID: 1207D24-001BMS	Client ID: MW-7	Units: ug/L	Prep Date: 07/25/2012	Run No: 225726							
Sample Type: MS	TestCode: GC Analysis of Gaseous Samples SOP-RSK 175	BatchID: 164295	Analysis Date: 07/25/2012	Seq No: 4724870							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethane	112.9	9	200	0	56.5	38.9	115	0	0	0	0
Ethylene	72.90	7	200	0	36.5	23.1	115	0	0	0	0
Methane	122.9	4	200	0	61.5	38.4	115	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		

Analytical Environmental Services, Inc

Date: 26-Jul-12

Client: AMEC E&I, Inc.
 Project Name: Imperial Cleaners
 Workorder: 1207D24

ANALYTICAL QC SUMMARY REPORT

BatchID: 164295

Sample ID: 1207D24-001BMSD	Client ID: MW-7	Units: ug/L	Prep Date: 07/25/2012	Run No: 225726
Sample Type: MSD	Test Code: GC Analysis of Gaseous Samples	BatchID: 164295	Analysis Date: 07/25/2012	Seq No: 4724873
	SOP-RSK 175			

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Ethane	113.3	9	200	0	56.6	38.9	115	112.9	0.274	20	
Ethylene	73.48	7	200	0	36.7	23.1	115	72.90	0.782	20	
Methane	124.7	4	200	0	62.3	38.4	115	122.9	1.43	20	

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

Analytical Environmental Services, Inc

Date: 26-Jul-12

Client: AMEC E&I, Inc.
 Project Name: Imperial Cleaners
 Workorder: 1207D24

ANALYTICAL QC SUMMARY REPORT

BatchID: R225436

Sample ID: MB-R225436	Client ID:	Units: mg/L	Prep Date:	Run No: 225436							
Sample Type: MBLK	Test Code: ION SCAN SW9056A	BatchID: R225436	Analysis Date: 07/19/2012	Seq No: 4718375							
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	0
Nitrate	BRL	0.25	0	0	0	0	0	0	0	0	0
Nitrite	BRL	0.25	0	0	0	0	0	0	0	0	0
Sulfate	BRL	1.0	0	0	0	0	0	0	0	0	0

Sample ID: LCS-R225436	Client ID:	Units: mg/L	Prep Date:	Run No: 225436							
Sample Type: LCS	Test Code: ION SCAN SW9056A	BatchID: R225436	Analysis Date: 07/19/2012	Seq No: 4718372							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride	4.722	1.0	5	0	94.4	90	110	0	0	0	0
Nitrate	4.920	0.25	5	0.03095	97.8	90	110	0	0	0	0
Nitrite	5.089	0.25	5	0	102	90	110	0	0	0	0
Sulfate	22.87	1.0	25	0	91.5	90	110	0	0	0	0

Sample ID: 1207D24-001EMS	Client ID: MW-7	Units: mg/L	Prep Date:	Run No: 225436							
Sample Type: MS	Test Code: ION SCAN SW9056A	BatchID: R225436	Analysis Date: 07/19/2012	Seq No: 4718389							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride	42.56	5.0	25	17.36	101	90	110	0	0	0	0
Nitrate	30.53	1.2	25	4.713	103	90	110	0	0	0	0
Nitrite	25.01	1.2	25	0	100	90	110	0	0	0	0
Sulfate	129.8	5.0	125	13.64	92.9	90	110	0	0	0	0

Sample ID: 1207D24-001EMSD	Client ID: MW-7	Units: mg/L	Prep Date:	Run No: 225436							
Sample Type: MSD	Test Code: ION SCAN SW9056A	BatchID: R225436	Analysis Date: 07/19/2012	Seq No: 4718392							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride	41.47	5.0	25	17.36	96.4	90	110	42.56	2.58	2.58	20
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Qualifiers: > Greater than Result value
 BRL Below reporting limit
 J Estimated value detected below Reporting Limit
 Rpt Lim Reporting Limit
 < Less than Result value
 E Estimated (value above quantitation range)
 N Analyte not NELAC certified
 S Spike Recovery outside limits due to matrix
 B Analyte detected in the associated method blank
 H Holding times for preparation or analysis exceeded
 R RPD outside limits due to matrix

Analytical Environmental Services, Inc

Date: 26-Jul-12

Client: AMEC E&I, Inc.
 Project Name: Imperial Cleaners
 Workorder: 1207D24

ANALYTICAL QC SUMMARY REPORT

BatchID: R225436

Sample ID: 1207D24-001EMSD Client ID: MW-7
 Sample Type: MSD Test Code: ION SCAN SW9056A

Units: mg/L
 BatchID: R225436
 Prep Date: Run No: 225436
 Analysis Date: 07/19/2012 Seq No: 4718392

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	30.36	1.2	25	4.713	103	90	110	30.53	0.577	20	
Nitrite	24.89	1.2	25	0	99.5	90	110	25.01	0.507	20	
Sulfate	128.9	5.0	125	13.64	92.2	90	110	129.8	0.672	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

Date: 26-Jul-12

ANALYTICAL QC SUMMARY REPORT

BatchID: R225747

Client: AMEC E&I, Inc.
 Project Name: Imperial Cleaners
 Workorder: 1207D24

Sample ID: MB-R225747	Client ID:	Units: mg/L	Prep Date:	Run No: 225747				
Sample Type: MBLK	TestCode: Alkalinity E310.2	BatchID: R225747	Analysis Date: 07/25/2012	Seq No: 4725270				
Analyte	Result	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Alkalinity, Total (As CaCO3)	BRL	0	0	0	0	0	0	0

Sample ID: LCS-R225747	Client ID:	Units: mg/L	Prep Date:	Run No: 225747				
Sample Type: LCS	TestCode: Alkalinity E310.2	BatchID: R225747	Analysis Date: 07/25/2012	Seq No: 4725272				
Analyte	Result	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Alkalinity, Total (As CaCO3)	252.0	98.8	75	125	0	0	0	0

Sample ID: 1207D24-003CDUP	Client ID: MW-2	Units: mg/L	Prep Date:	Run No: 225747				
Sample Type: DUP	TestCode: Alkalinity E310.2	BatchID: R225747	Analysis Date: 07/25/2012	Seq No: 4725278				
Analyte	Result	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Alkalinity, Total (As CaCO3)	118.0	0	0	0	113.0	4.33	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

Date: 26-Jul-12

ANALYTICAL QC SUMMARY REPORT

Client: AMEC E&I, Inc.
 Project Name: Imperial Cleaners
 Workorder: 1207D24

BatchID: R225748

Sample ID: MB-R225748	Client ID:	Ferrous Iron	SM3500-Fe-B	Units: mg/L	Prep Date:	Run No: 225748				
Sample Type: MBLK	TestCode:	Ferrous Iron	SM3500-Fe-B	BatchID: R225748	Analysis Date:	Seq No: 4725283				
Analyte	Result	RPT Limit	SPK value	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron, as Ferrous (Fe+2)	BRL	0.100	0	0	0	0	0	0	0	0

Sample ID: LCS-R225748	Client ID:	Ferrous Iron	SM3500-Fe-B	Units: mg/L	Prep Date:	Run No: 225748				
Sample Type: LCS	TestCode:	Ferrous Iron	SM3500-Fe-B	BatchID: R225748	Analysis Date:	Seq No: 4725284				
Analyte	Result	RPT Limit	SPK value	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron, as Ferrous (Fe+2)	0.5182	0.100	0.5	104	85	115	0	0	0	0

Sample ID: 1207D24-001FMS	Client ID: MW-7	Ferrous Iron	SM3500-Fe-B	Units: mg/L	Prep Date:	Run No: 225748				
Sample Type: MS	TestCode:	Ferrous Iron	SM3500-Fe-B	BatchID: R225748	Analysis Date:	Seq No: 4725289				
Analyte	Result	RPT Limit	SPK value	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron, as Ferrous (Fe+2)	0.5482	0.100	0.5	110	80	120	0	0	0	H

Sample ID: 1207D24-001FMSD	Client ID: MW-7	Ferrous Iron	SM3500-Fe-B	Units: mg/L	Prep Date:	Run No: 225748				
Sample Type: MSD	TestCode:	Ferrous Iron	SM3500-Fe-B	BatchID: R225748	Analysis Date:	Seq No: 4725291				
Analyte	Result	RPT Limit	SPK value	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron, as Ferrous (Fe+2)	0.5812	0.100	0.5	116	80	120	0.5482	5.84	30	H

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit		E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit		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.

October 26, 2012

Steve Foley
AMEC E&I, Inc.
396 Plasters Ave
Atlanta GA 30324

TEL: (404) 817-0152
FAX: (404) 817-0183

RE: Imperial Cleaners

Dear Steve Foley:

Order No: 1210F65

Analytical Environmental Services, Inc. received 14 samples on 10/18/2012 10:35:00 AM for the analyses presented in following report.

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

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/12-06/30/13.
- 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.

Tara Esbeck
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: 1210F05

Date: 9/18/12 Page 1 of 1

COMPANY: <u>Aurec ETI, INC</u> ADDRESS: <u>396 PLASTERS AVE</u> <u>ATLANTA, GA 30324</u>		ANALYSIS REQUESTED <input checked="" type="checkbox"/> METHANE <input checked="" type="checkbox"/> ETHYLENE <input checked="" type="checkbox"/> NITRATE <input checked="" type="checkbox"/> NITRITE <input checked="" type="checkbox"/> SULFATE <input checked="" type="checkbox"/> SULFITE <input checked="" type="checkbox"/> FERROUS IRON <input checked="" type="checkbox"/> ALKALINITY		No # of Containers <u>46</u>	
PHONE: <u>404-817-0152</u> SAMPLED BY: <u>STEPHEN FOLEY</u>	SIGNATURE: <u>[Signature]</u> DATE: <u>9/18/12</u> TIME: <u>0900</u>	MATRIX (See codes) <u>GW</u>	VISIT OUR WEBSITE <u>www.aesatlanta.com</u> to check on the status of your results, place bottle orders, etc.		
# 1 MW-2 2 MW-3 3 MW-4 4 MW-5 5 MW-7 6 MW-11 7 MW-12 8 MW-16 9 SW-1 10 SW-2 11 SW-3 12 MW-5 (dup) 13 TRIP BLANK 14 DU-1	SAMPLED DATE <u>9/18/12</u> <u>9/17/12</u> <u>9/17/12</u> <u>9/17/12</u> <u>9/17/12</u> <u>9/17/12</u> <u>9/17/12</u> <u>9/17/12</u> <u>9/17/12</u> <u>9/17/12</u> <u>9/17/12</u> <u>9/17/12</u> <u>9/17/12</u>	TIME <u>0900</u> <u>1710</u> <u>1305</u> <u>1348</u> <u>1645</u> <u>0930</u> <u>1610</u> <u>1137</u> <u>1615</u> <u>1620</u> <u>1630</u> <u>1348</u> <u>1030</u>	GRAB <input checked="" type="checkbox"/>	COMPOSITE <input checked="" type="checkbox"/>	REMARKS
RELINQUISHED BY: <u>[Signature]</u> DATE/TIME: <u>10/18/12 1035</u>		RECEIVED BY: <u>[Signature]</u> DATE/TIME: <u>10/18/12 1035</u>		PROJECT INFORMATION PROJECT NAME: <u>IMPERIAL CLEANERS</u> PROJECT #: <u>6305-05-0319</u> SITE ADDRESS: <u>ROSWELL GA</u> SEND REPORT TO: <u>STEPHEN FOLEY</u>	
SPECIAL INSTRUCTIONS/COMMENTS:		SHIPMENT METHOD OUT / / VIA: IN / / VIA: CLIENT FedEx UPS MAIL COURIER GREYHOUND OTHER:		RECEIPT Total # of Containers <u>46</u> Turnaround Time Request <input checked="" type="checkbox"/> Standard 5 Business Days <input checked="" type="checkbox"/> 2 Business Day Rush <input checked="" type="checkbox"/> Next Business Day Rush <input checked="" type="checkbox"/> Same Day Rush (auth req.) <input checked="" type="checkbox"/> Other	
STATE PROGRAM (if any): E-mail? Y / N; Fax? Y / N DATA PACKAGE: I II III IV		QUOTE #: PO#:		Turnaround Time Request <input checked="" type="checkbox"/> Standard 5 Business Days <input checked="" type="checkbox"/> 2 Business Day Rush <input checked="" type="checkbox"/> Next Business Day Rush <input checked="" type="checkbox"/> Same Day Rush (auth req.) <input checked="" type="checkbox"/> 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+1 = Hydrochloric acid + ice I = Ice only N = Nitric acid S+1 = Sulfuric acid + ice SM+1 = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

White Copy - Original; Yellow Copy - Client

Client: AMEC E&I, Inc.
Project: Imperial Cleaners
Lab ID: 1210F65

Case Narrative

Sample Receiving Nonconformance:

Collection date listed on the Chain of Custody as September. Sample were reported using the date and time information present on the sample bottle labels.

Sample Receiving Nonconformance:

One of the vials for sample 1210F65-006A, MW-11 was received with headspace present as signified by >1/4 inch bubble present.

Analytical Environmental Services, Inc

Date: 26-Oct-12

Client:	AMEC E&I, Inc.	Client Sample ID:	MW-2
Project Name:	Imperial Cleaners	Collection Date:	10/18/2012 9:00:00 AM
Lab ID:	1210F65-001	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B					(SW5030B)			
1,1,1-Trichloroethane	BRL	5.0		ug/L	168099	1	10/25/2012 06:48	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	168099	1	10/25/2012 06:48	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	168099	1	10/25/2012 06:48	NP
1,1-Dichloroethane	BRL	5.0		ug/L	168099	1	10/25/2012 06:48	NP
1,1-Dichloroethene	BRL	5.0		ug/L	168099	1	10/25/2012 06:48	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	168099	1	10/25/2012 06:48	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	168099	1	10/25/2012 06:48	NP
1,2-Dibromoethane	BRL	5.0		ug/L	168099	1	10/25/2012 06:48	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	168099	1	10/25/2012 06:48	NP
1,2-Dichloroethane	BRL	5.0		ug/L	168099	1	10/25/2012 06:48	NP
1,2-Dichloropropane	BRL	5.0		ug/L	168099	1	10/25/2012 06:48	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	168099	1	10/25/2012 06:48	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	168099	1	10/25/2012 06:48	NP
1,4-Dioxane	BRL	150		ug/L	168099	1	10/25/2012 06:48	NP
2-Butanone	BRL	50		ug/L	168099	1	10/25/2012 06:48	NP
2-Hexanone	BRL	10		ug/L	168099	1	10/25/2012 06:48	NP
4-Methyl-2-pentanone	BRL	10		ug/L	168099	1	10/25/2012 06:48	NP
Acetone	BRL	50		ug/L	168099	1	10/25/2012 06:48	NP
Benzene	BRL	5.0		ug/L	168099	1	10/25/2012 06:48	NP
Bromodichloromethane	BRL	5.0		ug/L	168099	1	10/25/2012 06:48	NP
Bromoform	BRL	5.0		ug/L	168099	1	10/25/2012 06:48	NP
Bromomethane	BRL	5.0		ug/L	168099	1	10/25/2012 06:48	NP
Carbon disulfide	BRL	5.0		ug/L	168099	1	10/25/2012 06:48	NP
Carbon tetrachloride	BRL	5.0		ug/L	168099	1	10/25/2012 06:48	NP
Chlorobenzene	BRL	5.0		ug/L	168099	1	10/25/2012 06:48	NP
Chloroethane	BRL	10		ug/L	168099	1	10/25/2012 06:48	NP
Chloroform	BRL	5.0		ug/L	168099	1	10/25/2012 06:48	NP
Chloromethane	BRL	10		ug/L	168099	1	10/25/2012 06:48	NP
cis-1,2-Dichloroethene	190	50		ug/L	168099	10	10/25/2012 14:04	JT
cis-1,3-Dichloropropene	BRL	5.0		ug/L	168099	1	10/25/2012 06:48	NP
Cyclohexane	BRL	5.0		ug/L	168099	1	10/25/2012 06:48	NP
Dibromochloromethane	BRL	5.0		ug/L	168099	1	10/25/2012 06:48	NP
Dichlorodifluoromethane	BRL	10		ug/L	168099	1	10/25/2012 06:48	NP
Ethylbenzene	BRL	5.0		ug/L	168099	1	10/25/2012 06:48	NP
Freon-113	BRL	10		ug/L	168099	1	10/25/2012 06:48	NP
Isopropylbenzene	BRL	5.0		ug/L	168099	1	10/25/2012 06:48	NP
Methyl acetate	BRL	5.0		ug/L	168099	1	10/25/2012 06:48	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	168099	1	10/25/2012 06:48	NP
Methylcyclohexane	BRL	5.0		ug/L	168099	1	10/25/2012 06:48	NP
Methylene chloride	BRL	5.0		ug/L	168099	1	10/25/2012 06:48	NP
Styrene	BRL	5.0		ug/L	168099	1	10/25/2012 06:48	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: 26-Oct-12

Client: AMEC E&I, Inc.	Client Sample ID: MW-2
Project Name: Imperial Cleaners	Collection Date: 10/18/2012 9:00:00 AM
Lab ID: 1210F65-001	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
Tetrachloroethene	180	5.0		ug/L	168099	1	10/25/2012 06:48	NP
Toluene	BRL	5.0		ug/L	168099	1	10/25/2012 06:48	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	168099	1	10/25/2012 06:48	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	168099	1	10/25/2012 06:48	NP
Trichloroethene	140	5.0		ug/L	168099	1	10/25/2012 06:48	NP
Trichlorofluoromethane	BRL	5.0		ug/L	168099	1	10/25/2012 06:48	NP
Vinyl chloride	77	2.0		ug/L	168099	1	10/25/2012 06:48	NP
Xylenes, Total	BRL	5.0		ug/L	168099	1	10/25/2012 06:48	NP
Surr: 4-Bromofluorobenzene	83.5	64.6-123		%REC	168099	1	10/25/2012 06:48	NP
Surr: 4-Bromofluorobenzene	89.2	64.6-123		%REC	168099	10	10/25/2012 14:04	JT
Surr: Dibromofluoromethane	81.6	76.6-133		%REC	168099	1	10/25/2012 06:48	NP
Surr: Dibromofluoromethane	114	76.6-133		%REC	168099	10	10/25/2012 14:04	JT
Surr: Toluene-d8	91.8	77.8-120		%REC	168099	1	10/25/2012 06:48	NP
Surr: Toluene-d8	101	77.8-120		%REC	168099	10	10/25/2012 14:04	JT
Sulfide by SW9030B/9034				(SW9030B)				
Sulfide	BRL	2.00		mg/L	168087	1	10/23/2012 10:30	AS
ION SCAN SW9056A								
Chloride	6.9	1.0		mg/L	R231371	1	10/18/2012 11:33	GR
Nitrate	BRL	0.25		mg/L	R231371	1	10/18/2012 11:33	GR
Nitrite	BRL	0.25		mg/L	R231371	1	10/18/2012 11:33	GR
Sulfate	1.4	1.0		mg/L	R231371	1	10/18/2012 11:33	GR
GC Analysis of Gaseous Samples SOP-RSK 175				(RSK175)				
Ethane	BRL	180		ug/L	168144	20	10/24/2012 16:31	SH
Ethane	BRL	9		ug/L	168144	1	10/24/2012 15:25	SH
Ethylene	BRL	140		ug/L	168144	20	10/24/2012 16:31	SH
Ethylene	BRL	7		ug/L	168144	1	10/24/2012 15:25	SH
Methane	1400	80		ug/L	168144	20	10/24/2012 16:31	SH
Ferrous Iron SM3500-Fe-B								
Iron, as Ferrous (Fe+2)	0.678	0.100		mg/L	R231645	1	10/18/2012 13:35	CG
Alkalinity E310.2								
Alkalinity, Total (As CaCO3)	112	10.0		mg/L	R231396	1	10/22/2012 09:46	TL

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: 26-Oct-12

Client:	AMEC E&I, Inc.	Client Sample ID:	MW-3
Project Name:	Imperial Cleaners	Collection Date:	10/17/2012 12:20:00 PM
Lab ID:	1210F65-002	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	168099	1	10/23/2012 22:15	JT
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	168099	1	10/23/2012 22:15	JT
1,1,2-Trichloroethane	BRL	5.0		ug/L	168099	1	10/23/2012 22:15	JT
1,1-Dichloroethane	BRL	5.0		ug/L	168099	1	10/23/2012 22:15	JT
1,1-Dichloroethene	BRL	5.0		ug/L	168099	1	10/23/2012 22:15	JT
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	168099	1	10/23/2012 22:15	JT
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	168099	1	10/23/2012 22:15	JT
1,2-Dibromoethane	BRL	5.0		ug/L	168099	1	10/23/2012 22:15	JT
1,2-Dichlorobenzene	BRL	5.0		ug/L	168099	1	10/23/2012 22:15	JT
1,2-Dichloroethane	BRL	5.0		ug/L	168099	1	10/23/2012 22:15	JT
1,2-Dichloropropane	BRL	5.0		ug/L	168099	1	10/23/2012 22:15	JT
1,3-Dichlorobenzene	BRL	5.0		ug/L	168099	1	10/23/2012 22:15	JT
1,4-Dichlorobenzene	BRL	5.0		ug/L	168099	1	10/23/2012 22:15	JT
1,4-Dioxane	BRL	150		ug/L	168099	1	10/23/2012 22:15	JT
2-Butanone	BRL	50		ug/L	168099	1	10/23/2012 22:15	JT
2-Hexanone	BRL	10		ug/L	168099	1	10/23/2012 22:15	JT
4-Methyl-2-pentanone	BRL	10		ug/L	168099	1	10/23/2012 22:15	JT
Acetone	BRL	50		ug/L	168099	1	10/23/2012 22:15	JT
Benzene	BRL	5.0		ug/L	168099	1	10/23/2012 22:15	JT
Bromodichloromethane	BRL	5.0		ug/L	168099	1	10/23/2012 22:15	JT
Bromoform	BRL	5.0		ug/L	168099	1	10/23/2012 22:15	JT
Bromomethane	BRL	5.0		ug/L	168099	1	10/23/2012 22:15	JT
Carbon disulfide	BRL	5.0		ug/L	168099	1	10/23/2012 22:15	JT
Carbon tetrachloride	BRL	5.0		ug/L	168099	1	10/23/2012 22:15	JT
Chlorobenzene	BRL	5.0		ug/L	168099	1	10/23/2012 22:15	JT
Chloroethane	BRL	10		ug/L	168099	1	10/23/2012 22:15	JT
Chloroform	BRL	5.0		ug/L	168099	1	10/23/2012 22:15	JT
Chloromethane	BRL	10		ug/L	168099	1	10/23/2012 22:15	JT
cis-1,2-Dichloroethene	BRL	5.0		ug/L	168099	1	10/23/2012 22:15	JT
cis-1,3-Dichloropropene	BRL	5.0		ug/L	168099	1	10/23/2012 22:15	JT
Cyclohexane	BRL	5.0		ug/L	168099	1	10/23/2012 22:15	JT
Dibromochloromethane	BRL	5.0		ug/L	168099	1	10/23/2012 22:15	JT
Dichlorodifluoromethane	BRL	10		ug/L	168099	1	10/23/2012 22:15	JT
Ethylbenzene	BRL	5.0		ug/L	168099	1	10/23/2012 22:15	JT
Freon-113	BRL	10		ug/L	168099	1	10/23/2012 22:15	JT
Isopropylbenzene	BRL	5.0		ug/L	168099	1	10/23/2012 22:15	JT
Methyl acetate	BRL	5.0		ug/L	168099	1	10/23/2012 22:15	JT
Methyl tert-butyl ether	BRL	5.0		ug/L	168099	1	10/23/2012 22:15	JT
Methylcyclohexane	BRL	5.0		ug/L	168099	1	10/23/2012 22:15	JT
Methylene chloride	BRL	5.0		ug/L	168099	1	10/23/2012 22:15	JT
Styrene	BRL	5.0		ug/L	168099	1	10/23/2012 22:15	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: 26-Oct-12

Client: AMEC E&I, Inc.	Client Sample ID: MW-3
Project Name: Imperial Cleaners	Collection Date: 10/17/2012 12:20:00 PM
Lab ID: 1210F65-002	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
Tetrachloroethene	BRL	5.0		ug/L	168099	1	10/23/2012 22:15	JT
Toluene	BRL	5.0		ug/L	168099	1	10/23/2012 22:15	JT
trans-1,2-Dichloroethene	BRL	5.0		ug/L	168099	1	10/23/2012 22:15	JT
trans-1,3-Dichloropropene	BRL	5.0		ug/L	168099	1	10/23/2012 22:15	JT
Trichloroethene	BRL	5.0		ug/L	168099	1	10/23/2012 22:15	JT
Trichlorofluoromethane	BRL	5.0		ug/L	168099	1	10/23/2012 22:15	JT
Vinyl chloride	BRL	2.0		ug/L	168099	1	10/23/2012 22:15	JT
Xylenes, Total	BRL	5.0		ug/L	168099	1	10/23/2012 22:15	JT
Surr: 4-Bromofluorobenzene	94.9	64.6-123		%REC	168099	1	10/23/2012 22:15	JT
Surr: Dibromofluoromethane	104	76.6-133		%REC	168099	1	10/23/2012 22:15	JT
Surr: Toluene-d8	97.8	77.8-120		%REC	168099	1	10/23/2012 22:15	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: 26-Oct-12

Client: AMEC E&I, Inc.	Client Sample ID: MW-4
Project Name: Imperial Cleaners	Collection Date: 10/17/2012 1:05:00 PM
Lab ID: 1210F65-003	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	168099	1	10/25/2012 07:19	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	168099	1	10/25/2012 07:19	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	168099	1	10/25/2012 07:19	NP
1,1-Dichloroethane	BRL	5.0		ug/L	168099	1	10/25/2012 07:19	NP
1,1-Dichloroethene	BRL	5.0		ug/L	168099	1	10/25/2012 07:19	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	168099	1	10/25/2012 07:19	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	168099	1	10/25/2012 07:19	NP
1,2-Dibromoethane	BRL	5.0		ug/L	168099	1	10/25/2012 07:19	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	168099	1	10/25/2012 07:19	NP
1,2-Dichloroethane	BRL	5.0		ug/L	168099	1	10/25/2012 07:19	NP
1,2-Dichloropropane	BRL	5.0		ug/L	168099	1	10/25/2012 07:19	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	168099	1	10/25/2012 07:19	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	168099	1	10/25/2012 07:19	NP
1,4-Dioxane	BRL	150		ug/L	168099	1	10/25/2012 07:19	NP
2-Butanone	BRL	50		ug/L	168099	1	10/25/2012 07:19	NP
2-Hexanone	BRL	10		ug/L	168099	1	10/25/2012 07:19	NP
4-Methyl-2-pentanone	BRL	10		ug/L	168099	1	10/25/2012 07:19	NP
Acetone	BRL	50		ug/L	168099	1	10/25/2012 07:19	NP
Benzene	BRL	5.0		ug/L	168099	1	10/25/2012 07:19	NP
Bromodichloromethane	BRL	5.0		ug/L	168099	1	10/25/2012 07:19	NP
Bromoform	BRL	5.0		ug/L	168099	1	10/25/2012 07:19	NP
Bromomethane	BRL	5.0		ug/L	168099	1	10/25/2012 07:19	NP
Carbon disulfide	BRL	5.0		ug/L	168099	1	10/25/2012 07:19	NP
Carbon tetrachloride	BRL	5.0		ug/L	168099	1	10/25/2012 07:19	NP
Chlorobenzene	BRL	5.0		ug/L	168099	1	10/25/2012 07:19	NP
Chloroethane	BRL	10		ug/L	168099	1	10/25/2012 07:19	NP
Chloroform	BRL	5.0		ug/L	168099	1	10/25/2012 07:19	NP
Chloromethane	BRL	10		ug/L	168099	1	10/25/2012 07:19	NP
cis-1,2-Dichloroethene	6.6	5.0		ug/L	168099	1	10/25/2012 07:19	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	168099	1	10/25/2012 07:19	NP
Cyclohexane	BRL	5.0		ug/L	168099	1	10/25/2012 07:19	NP
Dibromochloromethane	BRL	5.0		ug/L	168099	1	10/25/2012 07:19	NP
Dichlorodifluoromethane	BRL	10		ug/L	168099	1	10/25/2012 07:19	NP
Ethylbenzene	BRL	5.0		ug/L	168099	1	10/25/2012 07:19	NP
Freon-113	BRL	10		ug/L	168099	1	10/25/2012 07:19	NP
Isopropylbenzene	BRL	5.0		ug/L	168099	1	10/25/2012 07:19	NP
Methyl acetate	BRL	5.0		ug/L	168099	1	10/25/2012 07:19	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	168099	1	10/25/2012 07:19	NP
Methylcyclohexane	BRL	5.0		ug/L	168099	1	10/25/2012 07:19	NP
Methylene chloride	BRL	5.0		ug/L	168099	1	10/25/2012 07:19	NP
Styrene	BRL	5.0		ug/L	168099	1	10/25/2012 07:19	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: 26-Oct-12

Client: AMEC E&I, Inc.	Client Sample ID: MW-4
Project Name: Imperial Cleaners	Collection Date: 10/17/2012 1:05:00 PM
Lab ID: 1210F65-003	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
Tetrachloroethene	BRL	5.0		ug/L	168099	1	10/25/2012 07:19	NP
Toluene	BRL	5.0		ug/L	168099	1	10/25/2012 07:19	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	168099	1	10/25/2012 07:19	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	168099	1	10/25/2012 07:19	NP
Trichloroethene	BRL	5.0		ug/L	168099	1	10/25/2012 07:19	NP
Trichlorofluoromethane	BRL	5.0		ug/L	168099	1	10/25/2012 07:19	NP
Vinyl chloride	BRL	2.0		ug/L	168099	1	10/25/2012 07:19	NP
Xylenes, Total	BRL	5.0		ug/L	168099	1	10/25/2012 07:19	NP
Surr: 4-Bromofluorobenzene	84.3	64.6-123		%REC	168099	1	10/25/2012 07:19	NP
Surr: Dibromofluoromethane	84.6	76.6-133		%REC	168099	1	10/25/2012 07:19	NP
Surr: Toluene-d8	92.1	77.8-120		%REC	168099	1	10/25/2012 07:19	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

Client: AMEC E&I, Inc.	Client Sample ID: MW-5
Project Name: Imperial Cleaners	Collection Date: 10/17/2012 1:48:00 PM
Lab ID: 1210F65-004	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	168099	1	10/23/2012 22:45	JT
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	168099	1	10/23/2012 22:45	JT
1,1,2-Trichloroethane	BRL	5.0		ug/L	168099	1	10/23/2012 22:45	JT
1,1-Dichloroethane	BRL	5.0		ug/L	168099	1	10/23/2012 22:45	JT
1,1-Dichloroethene	BRL	5.0		ug/L	168099	1	10/23/2012 22:45	JT
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	168099	1	10/23/2012 22:45	JT
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	168099	1	10/23/2012 22:45	JT
1,2-Dibromoethane	BRL	5.0		ug/L	168099	1	10/23/2012 22:45	JT
1,2-Dichlorobenzene	BRL	5.0		ug/L	168099	1	10/23/2012 22:45	JT
1,2-Dichloroethane	BRL	5.0		ug/L	168099	1	10/23/2012 22:45	JT
1,2-Dichloropropane	BRL	5.0		ug/L	168099	1	10/23/2012 22:45	JT
1,3-Dichlorobenzene	BRL	5.0		ug/L	168099	1	10/23/2012 22:45	JT
1,4-Dichlorobenzene	BRL	5.0		ug/L	168099	1	10/23/2012 22:45	JT
1,4-Dioxane	BRL	150		ug/L	168099	1	10/23/2012 22:45	JT
2-Butanone	BRL	50		ug/L	168099	1	10/23/2012 22:45	JT
2-Hexanone	BRL	10		ug/L	168099	1	10/23/2012 22:45	JT
4-Methyl-2-pentanone	BRL	10		ug/L	168099	1	10/23/2012 22:45	JT
Acetone	BRL	50		ug/L	168099	1	10/23/2012 22:45	JT
Benzene	BRL	5.0		ug/L	168099	1	10/23/2012 22:45	JT
Bromodichloromethane	BRL	5.0		ug/L	168099	1	10/23/2012 22:45	JT
Bromoform	BRL	5.0		ug/L	168099	1	10/23/2012 22:45	JT
Bromomethane	BRL	5.0		ug/L	168099	1	10/23/2012 22:45	JT
Carbon disulfide	BRL	5.0		ug/L	168099	1	10/23/2012 22:45	JT
Carbon tetrachloride	BRL	5.0		ug/L	168099	1	10/23/2012 22:45	JT
Chlorobenzene	BRL	5.0		ug/L	168099	1	10/23/2012 22:45	JT
Chloroethane	BRL	10		ug/L	168099	1	10/23/2012 22:45	JT
Chloroform	BRL	5.0		ug/L	168099	1	10/23/2012 22:45	JT
Chloromethane	BRL	10		ug/L	168099	1	10/23/2012 22:45	JT
cis-1,2-Dichloroethene	7.0	5.0		ug/L	168099	1	10/23/2012 22:45	JT
cis-1,3-Dichloropropene	BRL	5.0		ug/L	168099	1	10/23/2012 22:45	JT
Cyclohexane	BRL	5.0		ug/L	168099	1	10/23/2012 22:45	JT
Dibromochloromethane	BRL	5.0		ug/L	168099	1	10/23/2012 22:45	JT
Dichlorodifluoromethane	BRL	10		ug/L	168099	1	10/23/2012 22:45	JT
Ethylbenzene	BRL	5.0		ug/L	168099	1	10/23/2012 22:45	JT
Freon-113	BRL	10		ug/L	168099	1	10/23/2012 22:45	JT
Isopropylbenzene	BRL	5.0		ug/L	168099	1	10/23/2012 22:45	JT
Methyl acetate	BRL	5.0		ug/L	168099	1	10/23/2012 22:45	JT
Methyl tert-butyl ether	BRL	5.0		ug/L	168099	1	10/23/2012 22:45	JT
Methylcyclohexane	BRL	5.0		ug/L	168099	1	10/23/2012 22:45	JT
Methylene chloride	BRL	5.0		ug/L	168099	1	10/23/2012 22:45	JT
Styrene	BRL	5.0		ug/L	168099	1	10/23/2012 22:45	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: 26-Oct-12

Client: AMEC E&I, Inc.	Client Sample ID: MW-5
Project Name: Imperial Cleaners	Collection Date: 10/17/2012 1:48:00 PM
Lab ID: 1210F65-004	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
Tetrachloroethene	BRL	5.0		ug/L	168099	1	10/23/2012 22:45	JT
Toluene	BRL	5.0		ug/L	168099	1	10/23/2012 22:45	JT
trans-1,2-Dichloroethene	BRL	5.0		ug/L	168099	1	10/23/2012 22:45	JT
trans-1,3-Dichloropropene	BRL	5.0		ug/L	168099	1	10/23/2012 22:45	JT
Trichloroethene	BRL	5.0		ug/L	168099	1	10/23/2012 22:45	JT
Trichlorofluoromethane	BRL	5.0		ug/L	168099	1	10/23/2012 22:45	JT
Vinyl chloride	BRL	2.0		ug/L	168099	1	10/23/2012 22:45	JT
Xylenes, Total	BRL	5.0		ug/L	168099	1	10/23/2012 22:45	JT
Surr: 4-Bromofluorobenzene	95.6	64.6-123		%REC	168099	1	10/23/2012 22:45	JT
Surr: Dibromofluoromethane	108	76.6-133		%REC	168099	1	10/23/2012 22:45	JT
Surr: Toluene-d8	100	77.8-120		%REC	168099	1	10/23/2012 22:45	JT
Sulfide by SW9030B/9034				(SW9030B)				
Sulfide	BRL	2.00		mg/L	168087	1	10/23/2012 10:30	AS
ION SCAN SW9056A								
Chloride	12	1.0		mg/L	R231371	1	10/18/2012 11:47	GR
Nitrate	2.0	0.25		mg/L	R231371	1	10/18/2012 11:47	GR
Nitrite	BRL	0.25		mg/L	R231371	1	10/18/2012 11:47	GR
Sulfate	1.0	1.0		mg/L	R231371	1	10/18/2012 11:47	GR
GC Analysis of Gaseous Samples SOP-RSK 175				(RSK175)				
Ethane	BRL	9		ug/L	168144	1	10/24/2012 15:30	SH
Ethylene	BRL	7		ug/L	168144	1	10/24/2012 15:30	SH
Methane	BRL	4		ug/L	168144	1	10/24/2012 15:30	SH
Ferrous Iron SM3500-Fe-B								
Iron, as Ferrous (Fe+2)	BRL	0.100		mg/L	R231645	1	10/18/2012 13:35	CG
Alkalinity E310.2								
Alkalinity, Total (As CaCO3)	12.5	10.0		mg/L	R231396	1	10/22/2012 10:09	TL

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

Client: AMEC E&I, Inc.	Client Sample ID: MW-7
Project Name: Imperial Cleaners	Collection Date: 10/17/2012 4:45:00 PM
Lab ID: 1210F65-005	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	168099	1	10/25/2012 09:51	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	168099	1	10/25/2012 09:51	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	168099	1	10/25/2012 09:51	NP
1,1-Dichloroethane	BRL	5.0		ug/L	168099	1	10/25/2012 09:51	NP
1,1-Dichloroethene	BRL	5.0		ug/L	168099	1	10/25/2012 09:51	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	168099	1	10/25/2012 09:51	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	168099	1	10/25/2012 09:51	NP
1,2-Dibromoethane	BRL	5.0		ug/L	168099	1	10/25/2012 09:51	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	168099	1	10/25/2012 09:51	NP
1,2-Dichloroethane	BRL	5.0		ug/L	168099	1	10/25/2012 09:51	NP
1,2-Dichloropropane	BRL	5.0		ug/L	168099	1	10/25/2012 09:51	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	168099	1	10/25/2012 09:51	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	168099	1	10/25/2012 09:51	NP
1,4-Dioxane	BRL	150		ug/L	168099	1	10/25/2012 09:51	NP
2-Butanone	BRL	50		ug/L	168099	1	10/25/2012 09:51	NP
2-Hexanone	BRL	10		ug/L	168099	1	10/25/2012 09:51	NP
4-Methyl-2-pentanone	BRL	10		ug/L	168099	1	10/25/2012 09:51	NP
Acetone	BRL	50		ug/L	168099	1	10/25/2012 09:51	NP
Benzene	BRL	5.0		ug/L	168099	1	10/25/2012 09:51	NP
Bromodichloromethane	BRL	5.0		ug/L	168099	1	10/25/2012 09:51	NP
Bromoform	BRL	5.0		ug/L	168099	1	10/25/2012 09:51	NP
Bromomethane	BRL	5.0		ug/L	168099	1	10/25/2012 09:51	NP
Carbon disulfide	BRL	5.0		ug/L	168099	1	10/25/2012 09:51	NP
Carbon tetrachloride	BRL	5.0		ug/L	168099	1	10/25/2012 09:51	NP
Chlorobenzene	BRL	5.0		ug/L	168099	1	10/25/2012 09:51	NP
Chloroethane	BRL	10		ug/L	168099	1	10/25/2012 09:51	NP
Chloroform	BRL	5.0		ug/L	168099	1	10/25/2012 09:51	NP
Chloromethane	BRL	10		ug/L	168099	1	10/25/2012 09:51	NP
cis-1,2-Dichloroethene	89	5.0		ug/L	168099	1	10/25/2012 09:51	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	168099	1	10/25/2012 09:51	NP
Cyclohexane	BRL	5.0		ug/L	168099	1	10/25/2012 09:51	NP
Dibromochloromethane	BRL	5.0		ug/L	168099	1	10/25/2012 09:51	NP
Dichlorodifluoromethane	BRL	10		ug/L	168099	1	10/25/2012 09:51	NP
Ethylbenzene	BRL	5.0		ug/L	168099	1	10/25/2012 09:51	NP
Freon-113	BRL	10		ug/L	168099	1	10/25/2012 09:51	NP
Isopropylbenzene	BRL	5.0		ug/L	168099	1	10/25/2012 09:51	NP
Methyl acetate	BRL	5.0		ug/L	168099	1	10/25/2012 09:51	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	168099	1	10/25/2012 09:51	NP
Methylcyclohexane	BRL	5.0		ug/L	168099	1	10/25/2012 09:51	NP
Methylene chloride	BRL	5.0		ug/L	168099	1	10/25/2012 09:51	NP
Styrene	BRL	5.0		ug/L	168099	1	10/25/2012 09:51	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: 26-Oct-12

Client: AMEC E&I, Inc.	Client Sample ID: MW-7
Project Name: Imperial Cleaners	Collection Date: 10/17/2012 4:45:00 PM
Lab ID: 1210F65-005	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
Tetrachloroethene	2000	250		ug/L	168099	50	10/23/2012 20:16	JT
Toluene	BRL	5.0		ug/L	168099	1	10/25/2012 09:51	NP
trans-1,2-Dichloroethene	5.7	5.0		ug/L	168099	1	10/25/2012 09:51	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	168099	1	10/25/2012 09:51	NP
Trichloroethene	360	250		ug/L	168099	50	10/23/2012 20:16	JT
Trichlorofluoromethane	BRL	5.0		ug/L	168099	1	10/25/2012 09:51	NP
Vinyl chloride	BRL	2.0		ug/L	168099	1	10/25/2012 09:51	NP
Xylenes, Total	BRL	5.0		ug/L	168099	1	10/25/2012 09:51	NP
Surr: 4-Bromofluorobenzene	93.3	64.6-123		%REC	168099	50	10/23/2012 20:16	JT
Surr: 4-Bromofluorobenzene	81.5	64.6-123		%REC	168099	1	10/25/2012 09:51	NP
Surr: Dibromofluoromethane	100	76.6-133		%REC	168099	50	10/23/2012 20:16	JT
Surr: Dibromofluoromethane	87.6	76.6-133		%REC	168099	1	10/25/2012 09:51	NP
Surr: Toluene-d8	98.7	77.8-120		%REC	168099	50	10/23/2012 20:16	JT
Surr: Toluene-d8	95.7	77.8-120		%REC	168099	1	10/25/2012 09:51	NP
Sulfide by SW9030B/9034				(SW9030B)				
Sulfide	BRL	2.00		mg/L	168087	1	10/23/2012 10:30	AS
ION SCAN SW9056A								
Chloride	12	1.0		mg/L	R231371	1	10/18/2012 12:02	GR
Nitrate	2.3	0.25		mg/L	R231371	1	10/18/2012 12:02	GR
Nitrite	BRL	0.25		mg/L	R231371	1	10/18/2012 12:02	GR
Sulfate	19	1.0		mg/L	R231371	1	10/18/2012 12:02	GR
GC Analysis of Gaseous Samples SOP-RSK 175				(RSK175)				
Ethane	BRL	9		ug/L	168144	1	10/24/2012 15:36	SH
Ethylene	BRL	7		ug/L	168144	1	10/24/2012 15:36	SH
Methane	16	4		ug/L	168144	1	10/24/2012 15:36	SH
Ferrous Iron SM3500-Fe-B								
Iron, as Ferrous (Fe+2)	BRL	0.100		mg/L	R231645	1	10/18/2012 13:35	CG
Alkalinity E310.2								
Alkalinity, Total (As CaCO3)	BRL	10.0		mg/L	R231396	1	10/22/2012 09:48	TL

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: 26-Oct-12

Client: AMEC E&I, Inc.	Client Sample ID: MW-11
Project Name: Imperial Cleaners	Collection Date: 10/18/2012 9:30:00 AM
Lab ID: 1210F65-006	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	168099	1	10/25/2012 07:49	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	168099	1	10/25/2012 07:49	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	168099	1	10/25/2012 07:49	NP
1,1-Dichloroethane	BRL	5.0		ug/L	168099	1	10/25/2012 07:49	NP
1,1-Dichloroethene	BRL	5.0		ug/L	168099	1	10/25/2012 07:49	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	168099	1	10/25/2012 07:49	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	168099	1	10/25/2012 07:49	NP
1,2-Dibromoethane	BRL	5.0		ug/L	168099	1	10/25/2012 07:49	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	168099	1	10/25/2012 07:49	NP
1,2-Dichloroethane	BRL	5.0		ug/L	168099	1	10/25/2012 07:49	NP
1,2-Dichloropropane	BRL	5.0		ug/L	168099	1	10/25/2012 07:49	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	168099	1	10/25/2012 07:49	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	168099	1	10/25/2012 07:49	NP
1,4-Dioxane	BRL	150		ug/L	168099	1	10/25/2012 07:49	NP
2-Butanone	BRL	50		ug/L	168099	1	10/25/2012 07:49	NP
2-Hexanone	BRL	10		ug/L	168099	1	10/25/2012 07:49	NP
4-Methyl-2-pentanone	BRL	10		ug/L	168099	1	10/25/2012 07:49	NP
Acetone	BRL	50		ug/L	168099	1	10/25/2012 07:49	NP
Benzene	BRL	5.0		ug/L	168099	1	10/25/2012 07:49	NP
Bromodichloromethane	BRL	5.0		ug/L	168099	1	10/25/2012 07:49	NP
Bromoform	BRL	5.0		ug/L	168099	1	10/25/2012 07:49	NP
Bromomethane	BRL	5.0		ug/L	168099	1	10/25/2012 07:49	NP
Carbon disulfide	BRL	5.0		ug/L	168099	1	10/25/2012 07:49	NP
Carbon tetrachloride	BRL	5.0		ug/L	168099	1	10/25/2012 07:49	NP
Chlorobenzene	BRL	5.0		ug/L	168099	1	10/25/2012 07:49	NP
Chloroethane	BRL	10		ug/L	168099	1	10/25/2012 07:49	NP
Chloroform	BRL	5.0		ug/L	168099	1	10/25/2012 07:49	NP
Chloromethane	BRL	10		ug/L	168099	1	10/25/2012 07:49	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	168099	1	10/25/2012 07:49	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	168099	1	10/25/2012 07:49	NP
Cyclohexane	BRL	5.0		ug/L	168099	1	10/25/2012 07:49	NP
Dibromochloromethane	BRL	5.0		ug/L	168099	1	10/25/2012 07:49	NP
Dichlorodifluoromethane	BRL	10		ug/L	168099	1	10/25/2012 07:49	NP
Ethylbenzene	BRL	5.0		ug/L	168099	1	10/25/2012 07:49	NP
Freon-113	BRL	10		ug/L	168099	1	10/25/2012 07:49	NP
Isopropylbenzene	BRL	5.0		ug/L	168099	1	10/25/2012 07:49	NP
Methyl acetate	BRL	5.0		ug/L	168099	1	10/25/2012 07:49	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	168099	1	10/25/2012 07:49	NP
Methylcyclohexane	BRL	5.0		ug/L	168099	1	10/25/2012 07:49	NP
Methylene chloride	BRL	5.0		ug/L	168099	1	10/25/2012 07:49	NP
Styrene	BRL	5.0		ug/L	168099	1	10/25/2012 07:49	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

Client:	AMEC E&I, Inc.	Client Sample ID:	MW-11
Project Name:	Imperial Cleaners	Collection Date:	10/18/2012 9:30:00 AM
Lab ID:	1210F65-006	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
Tetrachloroethene	BRL	5.0		ug/L	168099	1	10/25/2012 07:49	NP
Toluene	6.6	5.0		ug/L	168099	1	10/25/2012 07:49	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	168099	1	10/25/2012 07:49	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	168099	1	10/25/2012 07:49	NP
Trichloroethene	BRL	5.0		ug/L	168099	1	10/25/2012 07:49	NP
Trichlorofluoromethane	BRL	5.0		ug/L	168099	1	10/25/2012 07:49	NP
Vinyl chloride	2.5	2.0		ug/L	168099	1	10/25/2012 07:49	NP
Xylenes, Total	BRL	5.0		ug/L	168099	1	10/25/2012 07:49	NP
Surr: 4-Bromofluorobenzene	83.7	64.6-123		%REC	168099	1	10/25/2012 07:49	NP
Surr: Dibromofluoromethane	83.7	76.6-133		%REC	168099	1	10/25/2012 07:49	NP
Surr: Toluene-d8	91.3	77.8-120		%REC	168099	1	10/25/2012 07:49	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: 26-Oct-12

Client: AMEC E&I, Inc.	Client Sample ID: MW-12
Project Name: Imperial Cleaners	Collection Date: 10/17/2012 4:10:00 PM
Lab ID: 1210F65-007	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	168099	1	10/23/2012 23:14	JT
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	168099	1	10/23/2012 23:14	JT
1,1,2-Trichloroethane	BRL	5.0		ug/L	168099	1	10/23/2012 23:14	JT
1,1-Dichloroethane	BRL	5.0		ug/L	168099	1	10/23/2012 23:14	JT
1,1-Dichloroethene	BRL	5.0		ug/L	168099	1	10/23/2012 23:14	JT
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	168099	1	10/23/2012 23:14	JT
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	168099	1	10/23/2012 23:14	JT
1,2-Dibromoethane	BRL	5.0		ug/L	168099	1	10/23/2012 23:14	JT
1,2-Dichlorobenzene	BRL	5.0		ug/L	168099	1	10/23/2012 23:14	JT
1,2-Dichloroethane	BRL	5.0		ug/L	168099	1	10/23/2012 23:14	JT
1,2-Dichloropropane	BRL	5.0		ug/L	168099	1	10/23/2012 23:14	JT
1,3-Dichlorobenzene	BRL	5.0		ug/L	168099	1	10/23/2012 23:14	JT
1,4-Dichlorobenzene	BRL	5.0		ug/L	168099	1	10/23/2012 23:14	JT
1,4-Dioxane	BRL	150		ug/L	168099	1	10/23/2012 23:14	JT
2-Butanone	BRL	50		ug/L	168099	1	10/23/2012 23:14	JT
2-Hexanone	BRL	10		ug/L	168099	1	10/23/2012 23:14	JT
4-Methyl-2-pentanone	BRL	10		ug/L	168099	1	10/23/2012 23:14	JT
Acetone	BRL	50		ug/L	168099	1	10/23/2012 23:14	JT
Benzene	BRL	5.0		ug/L	168099	1	10/23/2012 23:14	JT
Bromodichloromethane	BRL	5.0		ug/L	168099	1	10/23/2012 23:14	JT
Bromoform	BRL	5.0		ug/L	168099	1	10/23/2012 23:14	JT
Bromomethane	BRL	5.0		ug/L	168099	1	10/23/2012 23:14	JT
Carbon disulfide	BRL	5.0		ug/L	168099	1	10/23/2012 23:14	JT
Carbon tetrachloride	BRL	5.0		ug/L	168099	1	10/23/2012 23:14	JT
Chlorobenzene	BRL	5.0		ug/L	168099	1	10/23/2012 23:14	JT
Chloroethane	BRL	10		ug/L	168099	1	10/23/2012 23:14	JT
Chloroform	BRL	5.0		ug/L	168099	1	10/23/2012 23:14	JT
Chloromethane	BRL	10		ug/L	168099	1	10/23/2012 23:14	JT
cis-1,2-Dichloroethene	BRL	5.0		ug/L	168099	1	10/23/2012 23:14	JT
cis-1,3-Dichloropropene	BRL	5.0		ug/L	168099	1	10/23/2012 23:14	JT
Cyclohexane	BRL	5.0		ug/L	168099	1	10/23/2012 23:14	JT
Dibromochloromethane	BRL	5.0		ug/L	168099	1	10/23/2012 23:14	JT
Dichlorodifluoromethane	BRL	10		ug/L	168099	1	10/23/2012 23:14	JT
Ethylbenzene	BRL	5.0		ug/L	168099	1	10/23/2012 23:14	JT
Freon-113	BRL	10		ug/L	168099	1	10/23/2012 23:14	JT
Isopropylbenzene	BRL	5.0		ug/L	168099	1	10/23/2012 23:14	JT
Methyl acetate	BRL	5.0		ug/L	168099	1	10/23/2012 23:14	JT
Methyl tert-butyl ether	BRL	5.0		ug/L	168099	1	10/23/2012 23:14	JT
Methylcyclohexane	BRL	5.0		ug/L	168099	1	10/23/2012 23:14	JT
Methylene chloride	BRL	5.0		ug/L	168099	1	10/23/2012 23:14	JT
Styrene	BRL	5.0		ug/L	168099	1	10/23/2012 23:14	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: 26-Oct-12

Client: AMEC E&I, Inc.	Client Sample ID: MW-12
Project Name: Imperial Cleaners	Collection Date: 10/17/2012 4:10:00 PM
Lab ID: 1210F65-007	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
Tetrachloroethene	BRL	5.0		ug/L	168099	1	10/23/2012 23:14	JT
Toluene	BRL	5.0		ug/L	168099	1	10/23/2012 23:14	JT
trans-1,2-Dichloroethene	BRL	5.0		ug/L	168099	1	10/23/2012 23:14	JT
trans-1,3-Dichloropropene	BRL	5.0		ug/L	168099	1	10/23/2012 23:14	JT
Trichloroethene	BRL	5.0		ug/L	168099	1	10/23/2012 23:14	JT
Trichlorofluoromethane	BRL	5.0		ug/L	168099	1	10/23/2012 23:14	JT
Vinyl chloride	BRL	2.0		ug/L	168099	1	10/23/2012 23:14	JT
Xylenes, Total	BRL	5.0		ug/L	168099	1	10/23/2012 23:14	JT
Surr: 4-Bromofluorobenzene	97.4	64.6-123		%REC	168099	1	10/23/2012 23:14	JT
Surr: Dibromofluoromethane	104	76.6-133		%REC	168099	1	10/23/2012 23:14	JT
Surr: Toluene-d8	96	77.8-120		%REC	168099	1	10/23/2012 23:14	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: 26-Oct-12

Client: AMEC E&I, Inc.	Client Sample ID: MW-16
Project Name: Imperial Cleaners	Collection Date: 10/17/2012 11:37:00 AM
Lab ID: 1210F65-008	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	168099	1	10/23/2012 23:45	JT
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	168099	1	10/23/2012 23:45	JT
1,1,2-Trichloroethane	BRL	5.0		ug/L	168099	1	10/23/2012 23:45	JT
1,1-Dichloroethane	BRL	5.0		ug/L	168099	1	10/23/2012 23:45	JT
1,1-Dichloroethene	BRL	5.0		ug/L	168099	1	10/23/2012 23:45	JT
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	168099	1	10/23/2012 23:45	JT
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	168099	1	10/23/2012 23:45	JT
1,2-Dibromoethane	BRL	5.0		ug/L	168099	1	10/23/2012 23:45	JT
1,2-Dichlorobenzene	BRL	5.0		ug/L	168099	1	10/23/2012 23:45	JT
1,2-Dichloroethane	BRL	5.0		ug/L	168099	1	10/23/2012 23:45	JT
1,2-Dichloropropane	BRL	5.0		ug/L	168099	1	10/23/2012 23:45	JT
1,3-Dichlorobenzene	BRL	5.0		ug/L	168099	1	10/23/2012 23:45	JT
1,4-Dichlorobenzene	BRL	5.0		ug/L	168099	1	10/23/2012 23:45	JT
1,4-Dioxane	BRL	150		ug/L	168099	1	10/23/2012 23:45	JT
2-Butanone	BRL	50		ug/L	168099	1	10/23/2012 23:45	JT
2-Hexanone	BRL	10		ug/L	168099	1	10/23/2012 23:45	JT
4-Methyl-2-pentanone	BRL	10		ug/L	168099	1	10/23/2012 23:45	JT
Acetone	BRL	50		ug/L	168099	1	10/23/2012 23:45	JT
Benzene	BRL	5.0		ug/L	168099	1	10/23/2012 23:45	JT
Bromodichloromethane	BRL	5.0		ug/L	168099	1	10/23/2012 23:45	JT
Bromoform	BRL	5.0		ug/L	168099	1	10/23/2012 23:45	JT
Bromomethane	BRL	5.0		ug/L	168099	1	10/23/2012 23:45	JT
Carbon disulfide	BRL	5.0		ug/L	168099	1	10/23/2012 23:45	JT
Carbon tetrachloride	BRL	5.0		ug/L	168099	1	10/23/2012 23:45	JT
Chlorobenzene	BRL	5.0		ug/L	168099	1	10/23/2012 23:45	JT
Chloroethane	BRL	10		ug/L	168099	1	10/23/2012 23:45	JT
Chloroform	BRL	5.0		ug/L	168099	1	10/23/2012 23:45	JT
Chloromethane	BRL	10		ug/L	168099	1	10/23/2012 23:45	JT
cis-1,2-Dichloroethene	100	5.0		ug/L	168099	1	10/23/2012 23:45	JT
cis-1,3-Dichloropropene	BRL	5.0		ug/L	168099	1	10/23/2012 23:45	JT
Cyclohexane	BRL	5.0		ug/L	168099	1	10/23/2012 23:45	JT
Dibromochloromethane	BRL	5.0		ug/L	168099	1	10/23/2012 23:45	JT
Dichlorodifluoromethane	BRL	10		ug/L	168099	1	10/23/2012 23:45	JT
Ethylbenzene	BRL	5.0		ug/L	168099	1	10/23/2012 23:45	JT
Freon-113	BRL	10		ug/L	168099	1	10/23/2012 23:45	JT
Isopropylbenzene	BRL	5.0		ug/L	168099	1	10/23/2012 23:45	JT
Methyl acetate	BRL	5.0		ug/L	168099	1	10/23/2012 23:45	JT
Methyl tert-butyl ether	BRL	5.0		ug/L	168099	1	10/23/2012 23:45	JT
Methylcyclohexane	BRL	5.0		ug/L	168099	1	10/23/2012 23:45	JT
Methylene chloride	BRL	5.0		ug/L	168099	1	10/23/2012 23:45	JT
Styrene	BRL	5.0		ug/L	168099	1	10/23/2012 23:45	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: 26-Oct-12

Client: AMEC E&I, Inc.	Client Sample ID: MW-16
Project Name: Imperial Cleaners	Collection Date: 10/17/2012 11:37:00 AM
Lab ID: 1210F65-008	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
Tetrachloroethene	150	5.0		ug/L	168099	1	10/23/2012 23:45	JT
Toluene	BRL	5.0		ug/L	168099	1	10/23/2012 23:45	JT
trans-1,2-Dichloroethene	5.4	5.0		ug/L	168099	1	10/23/2012 23:45	JT
trans-1,3-Dichloropropene	BRL	5.0		ug/L	168099	1	10/23/2012 23:45	JT
Trichloroethene	60	5.0		ug/L	168099	1	10/23/2012 23:45	JT
Trichlorofluoromethane	BRL	5.0		ug/L	168099	1	10/23/2012 23:45	JT
Vinyl chloride	BRL	2.0		ug/L	168099	1	10/23/2012 23:45	JT
Xylenes, Total	BRL	5.0		ug/L	168099	1	10/23/2012 23:45	JT
Surr: 4-Bromofluorobenzene	92.2	64.6-123		%REC	168099	1	10/23/2012 23:45	JT
Surr: Dibromofluoromethane	104	76.6-133		%REC	168099	1	10/23/2012 23:45	JT
Surr: Toluene-d8	100	77.8-120		%REC	168099	1	10/23/2012 23:45	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: 26-Oct-12

Client:	AMEC E&I, Inc.	Client Sample ID:	SW-1
Project Name:	Imperial Cleaners	Collection Date:	10/17/2012 4:15:00 PM
Lab ID:	1210F65-009	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	168099	1	10/24/2012 00:15	JT
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	168099	1	10/24/2012 00:15	JT
1,1,2-Trichloroethane	BRL	5.0		ug/L	168099	1	10/24/2012 00:15	JT
1,1-Dichloroethane	BRL	5.0		ug/L	168099	1	10/24/2012 00:15	JT
1,1-Dichloroethene	BRL	5.0		ug/L	168099	1	10/24/2012 00:15	JT
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	168099	1	10/24/2012 00:15	JT
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	168099	1	10/24/2012 00:15	JT
1,2-Dibromoethane	BRL	5.0		ug/L	168099	1	10/24/2012 00:15	JT
1,2-Dichlorobenzene	BRL	5.0		ug/L	168099	1	10/24/2012 00:15	JT
1,2-Dichloroethane	BRL	5.0		ug/L	168099	1	10/24/2012 00:15	JT
1,2-Dichloropropane	BRL	5.0		ug/L	168099	1	10/24/2012 00:15	JT
1,3-Dichlorobenzene	BRL	5.0		ug/L	168099	1	10/24/2012 00:15	JT
1,4-Dichlorobenzene	BRL	5.0		ug/L	168099	1	10/24/2012 00:15	JT
1,4-Dioxane	BRL	150		ug/L	168099	1	10/24/2012 00:15	JT
2-Butanone	BRL	50		ug/L	168099	1	10/24/2012 00:15	JT
2-Hexanone	BRL	10		ug/L	168099	1	10/24/2012 00:15	JT
4-Methyl-2-pentanone	BRL	10		ug/L	168099	1	10/24/2012 00:15	JT
Acetone	BRL	50		ug/L	168099	1	10/24/2012 00:15	JT
Benzene	BRL	5.0		ug/L	168099	1	10/24/2012 00:15	JT
Bromodichloromethane	BRL	5.0		ug/L	168099	1	10/24/2012 00:15	JT
Bromoform	BRL	5.0		ug/L	168099	1	10/24/2012 00:15	JT
Bromomethane	BRL	5.0		ug/L	168099	1	10/24/2012 00:15	JT
Carbon disulfide	BRL	5.0		ug/L	168099	1	10/24/2012 00:15	JT
Carbon tetrachloride	BRL	5.0		ug/L	168099	1	10/24/2012 00:15	JT
Chlorobenzene	BRL	5.0		ug/L	168099	1	10/24/2012 00:15	JT
Chloroethane	BRL	10		ug/L	168099	1	10/24/2012 00:15	JT
Chloroform	BRL	5.0		ug/L	168099	1	10/24/2012 00:15	JT
Chloromethane	BRL	10		ug/L	168099	1	10/24/2012 00:15	JT
cis-1,2-Dichloroethene	BRL	5.0		ug/L	168099	1	10/24/2012 00:15	JT
cis-1,3-Dichloropropene	BRL	5.0		ug/L	168099	1	10/24/2012 00:15	JT
Cyclohexane	BRL	5.0		ug/L	168099	1	10/24/2012 00:15	JT
Dibromochloromethane	BRL	5.0		ug/L	168099	1	10/24/2012 00:15	JT
Dichlorodifluoromethane	BRL	10		ug/L	168099	1	10/24/2012 00:15	JT
Ethylbenzene	BRL	5.0		ug/L	168099	1	10/24/2012 00:15	JT
Freon-113	BRL	10		ug/L	168099	1	10/24/2012 00:15	JT
Isopropylbenzene	BRL	5.0		ug/L	168099	1	10/24/2012 00:15	JT
Methyl acetate	BRL	5.0		ug/L	168099	1	10/24/2012 00:15	JT
Methyl tert-butyl ether	BRL	5.0		ug/L	168099	1	10/24/2012 00:15	JT
Methylcyclohexane	BRL	5.0		ug/L	168099	1	10/24/2012 00:15	JT
Methylene chloride	BRL	5.0		ug/L	168099	1	10/24/2012 00:15	JT
Styrene	BRL	5.0		ug/L	168099	1	10/24/2012 00:15	JT

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

Analytical Environmental Services, Inc

Date: 26-Oct-12

Client: AMEC E&I, Inc.	Client Sample ID: SW-1
Project Name: Imperial Cleaners	Collection Date: 10/17/2012 4:15:00 PM
Lab ID: 1210F65-009	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
Tetrachloroethene	BRL	5.0		ug/L	168099	1	10/24/2012 00:15	JT
Toluene	BRL	5.0		ug/L	168099	1	10/24/2012 00:15	JT
trans-1,2-Dichloroethene	BRL	5.0		ug/L	168099	1	10/24/2012 00:15	JT
trans-1,3-Dichloropropene	BRL	5.0		ug/L	168099	1	10/24/2012 00:15	JT
Trichloroethene	BRL	5.0		ug/L	168099	1	10/24/2012 00:15	JT
Trichlorofluoromethane	BRL	5.0		ug/L	168099	1	10/24/2012 00:15	JT
Vinyl chloride	BRL	2.0		ug/L	168099	1	10/24/2012 00:15	JT
Xylenes, Total	BRL	5.0		ug/L	168099	1	10/24/2012 00:15	JT
Surr: 4-Bromofluorobenzene	93.2	64.6-123		%REC	168099	1	10/24/2012 00:15	JT
Surr: Dibromofluoromethane	104	76.6-133		%REC	168099	1	10/24/2012 00:15	JT
Surr: Toluene-d8	101	77.8-120		%REC	168099	1	10/24/2012 00:15	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: 26-Oct-12

Client:	AMEC E&I, Inc.	Client Sample ID:	SW-2
Project Name:	Imperial Cleaners	Collection Date:	10/17/2012 4:20:00 PM
Lab ID:	1210F65-010	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	168099	1	10/23/2012 21:45	JT
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	168099	1	10/23/2012 21:45	JT
1,1,2-Trichloroethane	BRL	5.0		ug/L	168099	1	10/23/2012 21:45	JT
1,1-Dichloroethane	BRL	5.0		ug/L	168099	1	10/23/2012 21:45	JT
1,1-Dichloroethene	BRL	5.0		ug/L	168099	1	10/23/2012 21:45	JT
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	168099	1	10/23/2012 21:45	JT
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	168099	1	10/23/2012 21:45	JT
1,2-Dibromoethane	BRL	5.0		ug/L	168099	1	10/23/2012 21:45	JT
1,2-Dichlorobenzene	BRL	5.0		ug/L	168099	1	10/23/2012 21:45	JT
1,2-Dichloroethane	BRL	5.0		ug/L	168099	1	10/23/2012 21:45	JT
1,2-Dichloropropane	BRL	5.0		ug/L	168099	1	10/23/2012 21:45	JT
1,3-Dichlorobenzene	BRL	5.0		ug/L	168099	1	10/23/2012 21:45	JT
1,4-Dichlorobenzene	BRL	5.0		ug/L	168099	1	10/23/2012 21:45	JT
1,4-Dioxane	BRL	150		ug/L	168099	1	10/23/2012 21:45	JT
2-Butanone	BRL	50		ug/L	168099	1	10/23/2012 21:45	JT
2-Hexanone	BRL	10		ug/L	168099	1	10/23/2012 21:45	JT
4-Methyl-2-pentanone	BRL	10		ug/L	168099	1	10/23/2012 21:45	JT
Acetone	BRL	50		ug/L	168099	1	10/23/2012 21:45	JT
Benzene	BRL	5.0		ug/L	168099	1	10/23/2012 21:45	JT
Bromodichloromethane	BRL	5.0		ug/L	168099	1	10/23/2012 21:45	JT
Bromoform	BRL	5.0		ug/L	168099	1	10/23/2012 21:45	JT
Bromomethane	BRL	5.0		ug/L	168099	1	10/23/2012 21:45	JT
Carbon disulfide	BRL	5.0		ug/L	168099	1	10/23/2012 21:45	JT
Carbon tetrachloride	BRL	5.0		ug/L	168099	1	10/23/2012 21:45	JT
Chlorobenzene	BRL	5.0		ug/L	168099	1	10/23/2012 21:45	JT
Chloroethane	BRL	10		ug/L	168099	1	10/23/2012 21:45	JT
Chloroform	BRL	5.0		ug/L	168099	1	10/23/2012 21:45	JT
Chloromethane	BRL	10		ug/L	168099	1	10/23/2012 21:45	JT
cis-1,2-Dichloroethene	BRL	5.0		ug/L	168099	1	10/23/2012 21:45	JT
cis-1,3-Dichloropropene	BRL	5.0		ug/L	168099	1	10/23/2012 21:45	JT
Cyclohexane	BRL	5.0		ug/L	168099	1	10/23/2012 21:45	JT
Dibromochloromethane	BRL	5.0		ug/L	168099	1	10/23/2012 21:45	JT
Dichlorodifluoromethane	BRL	10		ug/L	168099	1	10/23/2012 21:45	JT
Ethylbenzene	BRL	5.0		ug/L	168099	1	10/23/2012 21:45	JT
Freon-113	BRL	10		ug/L	168099	1	10/23/2012 21:45	JT
Isopropylbenzene	BRL	5.0		ug/L	168099	1	10/23/2012 21:45	JT
Methyl acetate	BRL	5.0		ug/L	168099	1	10/23/2012 21:45	JT
Methyl tert-butyl ether	BRL	5.0		ug/L	168099	1	10/23/2012 21:45	JT
Methylcyclohexane	BRL	5.0		ug/L	168099	1	10/23/2012 21:45	JT
Methylene chloride	BRL	5.0		ug/L	168099	1	10/23/2012 21:45	JT
Styrene	BRL	5.0		ug/L	168099	1	10/23/2012 21:45	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

Client: AMEC E&I, Inc.	Client Sample ID: SW-2
Project Name: Imperial Cleaners	Collection Date: 10/17/2012 4:20:00 PM
Lab ID: 1210F65-010	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
Tetrachloroethene	BRL	5.0		ug/L	168099	1	10/23/2012 21:45	JT
Toluene	BRL	5.0		ug/L	168099	1	10/23/2012 21:45	JT
trans-1,2-Dichloroethene	BRL	5.0		ug/L	168099	1	10/23/2012 21:45	JT
trans-1,3-Dichloropropene	BRL	5.0		ug/L	168099	1	10/23/2012 21:45	JT
Trichloroethene	BRL	5.0		ug/L	168099	1	10/23/2012 21:45	JT
Trichlorofluoromethane	BRL	5.0		ug/L	168099	1	10/23/2012 21:45	JT
Vinyl chloride	BRL	2.0		ug/L	168099	1	10/23/2012 21:45	JT
Xylenes, Total	BRL	5.0		ug/L	168099	1	10/23/2012 21:45	JT
Surr: 4-Bromofluorobenzene	94.8	64.6-123		%REC	168099	1	10/23/2012 21:45	JT
Surr: Dibromofluoromethane	102	76.6-133		%REC	168099	1	10/23/2012 21:45	JT
Surr: Toluene-d8	98.3	77.8-120		%REC	168099	1	10/23/2012 21:45	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: 26-Oct-12

Client: AMEC E&I, Inc.	Client Sample ID: SW-3
Project Name: Imperial Cleaners	Collection Date: 10/17/2012 4:30:00 PM
Lab ID: 1210F65-011	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	168099	1	10/25/2012 08:19	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	168099	1	10/25/2012 08:19	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	168099	1	10/25/2012 08:19	NP
1,1-Dichloroethane	BRL	5.0		ug/L	168099	1	10/25/2012 08:19	NP
1,1-Dichloroethene	BRL	5.0		ug/L	168099	1	10/25/2012 08:19	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	168099	1	10/25/2012 08:19	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	168099	1	10/25/2012 08:19	NP
1,2-Dibromoethane	BRL	5.0		ug/L	168099	1	10/25/2012 08:19	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	168099	1	10/25/2012 08:19	NP
1,2-Dichloroethane	BRL	5.0		ug/L	168099	1	10/25/2012 08:19	NP
1,2-Dichloropropane	BRL	5.0		ug/L	168099	1	10/25/2012 08:19	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	168099	1	10/25/2012 08:19	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	168099	1	10/25/2012 08:19	NP
1,4-Dioxane	BRL	150		ug/L	168099	1	10/25/2012 08:19	NP
2-Butanone	BRL	50		ug/L	168099	1	10/25/2012 08:19	NP
2-Hexanone	BRL	10		ug/L	168099	1	10/25/2012 08:19	NP
4-Methyl-2-pentanone	BRL	10		ug/L	168099	1	10/25/2012 08:19	NP
Acetone	BRL	50		ug/L	168099	1	10/25/2012 08:19	NP
Benzene	BRL	5.0		ug/L	168099	1	10/25/2012 08:19	NP
Bromodichloromethane	BRL	5.0		ug/L	168099	1	10/25/2012 08:19	NP
Bromoform	BRL	5.0		ug/L	168099	1	10/25/2012 08:19	NP
Bromomethane	BRL	5.0		ug/L	168099	1	10/25/2012 08:19	NP
Carbon disulfide	BRL	5.0		ug/L	168099	1	10/25/2012 08:19	NP
Carbon tetrachloride	BRL	5.0		ug/L	168099	1	10/25/2012 08:19	NP
Chlorobenzene	BRL	5.0		ug/L	168099	1	10/25/2012 08:19	NP
Chloroethane	BRL	10		ug/L	168099	1	10/25/2012 08:19	NP
Chloroform	BRL	5.0		ug/L	168099	1	10/25/2012 08:19	NP
Chloromethane	BRL	10		ug/L	168099	1	10/25/2012 08:19	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	168099	1	10/25/2012 08:19	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	168099	1	10/25/2012 08:19	NP
Cyclohexane	BRL	5.0		ug/L	168099	1	10/25/2012 08:19	NP
Dibromochloromethane	BRL	5.0		ug/L	168099	1	10/25/2012 08:19	NP
Dichlorodifluoromethane	BRL	10		ug/L	168099	1	10/25/2012 08:19	NP
Ethylbenzene	BRL	5.0		ug/L	168099	1	10/25/2012 08:19	NP
Freon-113	BRL	10		ug/L	168099	1	10/25/2012 08:19	NP
Isopropylbenzene	BRL	5.0		ug/L	168099	1	10/25/2012 08:19	NP
Methyl acetate	BRL	5.0		ug/L	168099	1	10/25/2012 08:19	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	168099	1	10/25/2012 08:19	NP
Methylcyclohexane	BRL	5.0		ug/L	168099	1	10/25/2012 08:19	NP
Methylene chloride	BRL	5.0		ug/L	168099	1	10/25/2012 08:19	NP
Styrene	BRL	5.0		ug/L	168099	1	10/25/2012 08:19	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: 26-Oct-12

Client: AMEC E&I, Inc.	Client Sample ID: SW-3
Project Name: Imperial Cleaners	Collection Date: 10/17/2012 4:30:00 PM
Lab ID: 1210F65-011	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
Tetrachloroethene	BRL	5.0		ug/L	168099	1	10/25/2012 08:19	NP
Toluene	BRL	5.0		ug/L	168099	1	10/25/2012 08:19	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	168099	1	10/25/2012 08:19	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	168099	1	10/25/2012 08:19	NP
Trichloroethene	BRL	5.0		ug/L	168099	1	10/25/2012 08:19	NP
Trichlorofluoromethane	BRL	5.0		ug/L	168099	1	10/25/2012 08:19	NP
Vinyl chloride	BRL	2.0		ug/L	168099	1	10/25/2012 08:19	NP
Xylenes, Total	BRL	5.0		ug/L	168099	1	10/25/2012 08:19	NP
Surr: 4-Bromofluorobenzene	84.3	64.6-123		%REC	168099	1	10/25/2012 08:19	NP
Surr: Dibromofluoromethane	82.7	76.6-133		%REC	168099	1	10/25/2012 08:19	NP
Surr: Toluene-d8	91.4	77.8-120		%REC	168099	1	10/25/2012 08:19	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: 26-Oct-12

Client:	AMEC E&I, Inc.	Client Sample ID:	MW-5 (DUP)
Project Name:	Imperial Cleaners	Collection Date:	10/17/2012 1:45:00 PM
Lab ID:	1210F65-012	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	168099	1	10/25/2012 08:49	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	168099	1	10/25/2012 08:49	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	168099	1	10/25/2012 08:49	NP
1,1-Dichloroethane	BRL	5.0		ug/L	168099	1	10/25/2012 08:49	NP
1,1-Dichloroethene	BRL	5.0		ug/L	168099	1	10/25/2012 08:49	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	168099	1	10/25/2012 08:49	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	168099	1	10/25/2012 08:49	NP
1,2-Dibromoethane	BRL	5.0		ug/L	168099	1	10/25/2012 08:49	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	168099	1	10/25/2012 08:49	NP
1,2-Dichloroethane	BRL	5.0		ug/L	168099	1	10/25/2012 08:49	NP
1,2-Dichloropropane	BRL	5.0		ug/L	168099	1	10/25/2012 08:49	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	168099	1	10/25/2012 08:49	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	168099	1	10/25/2012 08:49	NP
1,4-Dioxane	BRL	150		ug/L	168099	1	10/25/2012 08:49	NP
2-Butanone	BRL	50		ug/L	168099	1	10/25/2012 08:49	NP
2-Hexanone	BRL	10		ug/L	168099	1	10/25/2012 08:49	NP
4-Methyl-2-pentanone	BRL	10		ug/L	168099	1	10/25/2012 08:49	NP
Acetone	BRL	50		ug/L	168099	1	10/25/2012 08:49	NP
Benzene	BRL	5.0		ug/L	168099	1	10/25/2012 08:49	NP
Bromodichloromethane	BRL	5.0		ug/L	168099	1	10/25/2012 08:49	NP
Bromoform	BRL	5.0		ug/L	168099	1	10/25/2012 08:49	NP
Bromomethane	BRL	5.0		ug/L	168099	1	10/25/2012 08:49	NP
Carbon disulfide	BRL	5.0		ug/L	168099	1	10/25/2012 08:49	NP
Carbon tetrachloride	BRL	5.0		ug/L	168099	1	10/25/2012 08:49	NP
Chlorobenzene	BRL	5.0		ug/L	168099	1	10/25/2012 08:49	NP
Chloroethane	BRL	10		ug/L	168099	1	10/25/2012 08:49	NP
Chloroform	BRL	5.0		ug/L	168099	1	10/25/2012 08:49	NP
Chloromethane	BRL	10		ug/L	168099	1	10/25/2012 08:49	NP
cis-1,2-Dichloroethene	5.9	5.0		ug/L	168099	1	10/25/2012 08:49	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	168099	1	10/25/2012 08:49	NP
Cyclohexane	BRL	5.0		ug/L	168099	1	10/25/2012 08:49	NP
Dibromochloromethane	BRL	5.0		ug/L	168099	1	10/25/2012 08:49	NP
Dichlorodifluoromethane	BRL	10		ug/L	168099	1	10/25/2012 08:49	NP
Ethylbenzene	BRL	5.0		ug/L	168099	1	10/25/2012 08:49	NP
Freon-113	BRL	10		ug/L	168099	1	10/25/2012 08:49	NP
Isopropylbenzene	BRL	5.0		ug/L	168099	1	10/25/2012 08:49	NP
Methyl acetate	BRL	5.0		ug/L	168099	1	10/25/2012 08:49	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	168099	1	10/25/2012 08:49	NP
Methylcyclohexane	BRL	5.0		ug/L	168099	1	10/25/2012 08:49	NP
Methylene chloride	BRL	5.0		ug/L	168099	1	10/25/2012 08:49	NP
Styrene	BRL	5.0		ug/L	168099	1	10/25/2012 08:49	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: 26-Oct-12

Client: AMEC E&I, Inc.	Client Sample ID: MW-5 (DUP)
Project Name: Imperial Cleaners	Collection Date: 10/17/2012 1:45:00 PM
Lab ID: 1210F65-012	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
Tetrachloroethene	BRL	5.0		ug/L	168099	1	10/25/2012 08:49	NP
Toluene	BRL	5.0		ug/L	168099	1	10/25/2012 08:49	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	168099	1	10/25/2012 08:49	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	168099	1	10/25/2012 08:49	NP
Trichloroethene	BRL	5.0		ug/L	168099	1	10/25/2012 08:49	NP
Trichlorofluoromethane	BRL	5.0		ug/L	168099	1	10/25/2012 08:49	NP
Vinyl chloride	BRL	2.0		ug/L	168099	1	10/25/2012 08:49	NP
Xylenes, Total	BRL	5.0		ug/L	168099	1	10/25/2012 08:49	NP
Surr: 4-Bromofluorobenzene	84.4	64.6-123		%REC	168099	1	10/25/2012 08:49	NP
Surr: Dibromofluoromethane	82.4	76.6-133		%REC	168099	1	10/25/2012 08:49	NP
Surr: Toluene-d8	91.7	77.8-120		%REC	168099	1	10/25/2012 08:49	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: 26-Oct-12

Client:	AMEC E&I, Inc.	Client Sample ID:	TRIP BLANK
Project Name:	Imperial Cleaners	Collection Date:	10/18/2012
Lab ID:	1210F65-013	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	168099	1	10/23/2012 15:44	JT
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	168099	1	10/23/2012 15:44	JT
1,1,2-Trichloroethane	BRL	5.0		ug/L	168099	1	10/23/2012 15:44	JT
1,1-Dichloroethane	BRL	5.0		ug/L	168099	1	10/23/2012 15:44	JT
1,1-Dichloroethene	BRL	5.0		ug/L	168099	1	10/23/2012 15:44	JT
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	168099	1	10/23/2012 15:44	JT
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	168099	1	10/23/2012 15:44	JT
1,2-Dibromoethane	BRL	5.0		ug/L	168099	1	10/23/2012 15:44	JT
1,2-Dichlorobenzene	BRL	5.0		ug/L	168099	1	10/23/2012 15:44	JT
1,2-Dichloroethane	BRL	5.0		ug/L	168099	1	10/23/2012 15:44	JT
1,2-Dichloropropane	BRL	5.0		ug/L	168099	1	10/23/2012 15:44	JT
1,3-Dichlorobenzene	BRL	5.0		ug/L	168099	1	10/23/2012 15:44	JT
1,4-Dichlorobenzene	BRL	5.0		ug/L	168099	1	10/23/2012 15:44	JT
1,4-Dioxane	BRL	150		ug/L	168099	1	10/23/2012 15:44	JT
2-Butanone	BRL	50		ug/L	168099	1	10/23/2012 15:44	JT
2-Hexanone	BRL	10		ug/L	168099	1	10/23/2012 15:44	JT
4-Methyl-2-pentanone	BRL	10		ug/L	168099	1	10/23/2012 15:44	JT
Acetone	BRL	50		ug/L	168099	1	10/23/2012 15:44	JT
Benzene	BRL	5.0		ug/L	168099	1	10/23/2012 15:44	JT
Bromodichloromethane	BRL	5.0		ug/L	168099	1	10/23/2012 15:44	JT
Bromoform	BRL	5.0		ug/L	168099	1	10/23/2012 15:44	JT
Bromomethane	BRL	5.0		ug/L	168099	1	10/23/2012 15:44	JT
Carbon disulfide	BRL	5.0		ug/L	168099	1	10/23/2012 15:44	JT
Carbon tetrachloride	BRL	5.0		ug/L	168099	1	10/23/2012 15:44	JT
Chlorobenzene	BRL	5.0		ug/L	168099	1	10/23/2012 15:44	JT
Chloroethane	BRL	10		ug/L	168099	1	10/23/2012 15:44	JT
Chloroform	BRL	5.0		ug/L	168099	1	10/23/2012 15:44	JT
Chloromethane	BRL	10		ug/L	168099	1	10/23/2012 15:44	JT
cis-1,2-Dichloroethene	BRL	5.0		ug/L	168099	1	10/23/2012 15:44	JT
cis-1,3-Dichloropropene	BRL	5.0		ug/L	168099	1	10/23/2012 15:44	JT
Cyclohexane	BRL	5.0		ug/L	168099	1	10/23/2012 15:44	JT
Dibromochloromethane	BRL	5.0		ug/L	168099	1	10/23/2012 15:44	JT
Dichlorodifluoromethane	BRL	10		ug/L	168099	1	10/23/2012 15:44	JT
Ethylbenzene	BRL	5.0		ug/L	168099	1	10/23/2012 15:44	JT
Freon-113	BRL	10		ug/L	168099	1	10/23/2012 15:44	JT
Isopropylbenzene	BRL	5.0		ug/L	168099	1	10/23/2012 15:44	JT
Methyl acetate	BRL	5.0		ug/L	168099	1	10/23/2012 15:44	JT
Methyl tert-butyl ether	BRL	5.0		ug/L	168099	1	10/23/2012 15:44	JT
Methylcyclohexane	BRL	5.0		ug/L	168099	1	10/23/2012 15:44	JT
Methylene chloride	BRL	5.0		ug/L	168099	1	10/23/2012 15:44	JT
Styrene	BRL	5.0		ug/L	168099	1	10/23/2012 15:44	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

Client: AMEC E&I, Inc.	Client Sample ID: TRIP BLANK
Project Name: Imperial Cleaners	Collection Date: 10/18/2012
Lab ID: 1210F65-013	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
Tetrachloroethene	BRL	5.0		ug/L	168099	1	10/23/2012 15:44	JT
Toluene	BRL	5.0		ug/L	168099	1	10/23/2012 15:44	JT
trans-1,2-Dichloroethene	BRL	5.0		ug/L	168099	1	10/23/2012 15:44	JT
trans-1,3-Dichloropropene	BRL	5.0		ug/L	168099	1	10/23/2012 15:44	JT
Trichloroethene	BRL	5.0		ug/L	168099	1	10/23/2012 15:44	JT
Trichlorofluoromethane	BRL	5.0		ug/L	168099	1	10/23/2012 15:44	JT
Vinyl chloride	BRL	2.0		ug/L	168099	1	10/23/2012 15:44	JT
Xylenes, Total	BRL	5.0		ug/L	168099	1	10/23/2012 15:44	JT
Surr: 4-Bromofluorobenzene	95	64.6-123		%REC	168099	1	10/23/2012 15:44	JT
Surr: Dibromofluoromethane	100	76.6-133		%REC	168099	1	10/23/2012 15:44	JT
Surr: Toluene-d8	96.8	77.8-120		%REC	168099	1	10/23/2012 15:44	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

Client: AMEC E&I, Inc.	Client Sample ID: DW-1
Project Name: Imperial Cleaners	Collection Date: 10/17/2012 10:30:00 AM
Lab ID: 1210F65-014	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	168099	1	10/25/2012 09:20	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	168099	1	10/25/2012 09:20	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	168099	1	10/25/2012 09:20	NP
1,1-Dichloroethane	BRL	5.0		ug/L	168099	1	10/25/2012 09:20	NP
1,1-Dichloroethene	BRL	5.0		ug/L	168099	1	10/25/2012 09:20	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	168099	1	10/25/2012 09:20	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	168099	1	10/25/2012 09:20	NP
1,2-Dibromoethane	BRL	5.0		ug/L	168099	1	10/25/2012 09:20	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	168099	1	10/25/2012 09:20	NP
1,2-Dichloroethane	BRL	5.0		ug/L	168099	1	10/25/2012 09:20	NP
1,2-Dichloropropane	BRL	5.0		ug/L	168099	1	10/25/2012 09:20	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	168099	1	10/25/2012 09:20	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	168099	1	10/25/2012 09:20	NP
1,4-Dioxane	BRL	150		ug/L	168099	1	10/25/2012 09:20	NP
2-Butanone	BRL	50		ug/L	168099	1	10/25/2012 09:20	NP
2-Hexanone	BRL	10		ug/L	168099	1	10/25/2012 09:20	NP
4-Methyl-2-pentanone	BRL	10		ug/L	168099	1	10/25/2012 09:20	NP
Acetone	BRL	50		ug/L	168099	1	10/25/2012 09:20	NP
Benzene	BRL	5.0		ug/L	168099	1	10/25/2012 09:20	NP
Bromodichloromethane	BRL	5.0		ug/L	168099	1	10/25/2012 09:20	NP
Bromoform	BRL	5.0		ug/L	168099	1	10/25/2012 09:20	NP
Bromomethane	BRL	5.0		ug/L	168099	1	10/25/2012 09:20	NP
Carbon disulfide	BRL	5.0		ug/L	168099	1	10/25/2012 09:20	NP
Carbon tetrachloride	BRL	5.0		ug/L	168099	1	10/25/2012 09:20	NP
Chlorobenzene	BRL	5.0		ug/L	168099	1	10/25/2012 09:20	NP
Chloroethane	BRL	10		ug/L	168099	1	10/25/2012 09:20	NP
Chloroform	BRL	5.0		ug/L	168099	1	10/25/2012 09:20	NP
Chloromethane	BRL	10		ug/L	168099	1	10/25/2012 09:20	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	168099	1	10/25/2012 09:20	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	168099	1	10/25/2012 09:20	NP
Cyclohexane	BRL	5.0		ug/L	168099	1	10/25/2012 09:20	NP
Dibromochloromethane	BRL	5.0		ug/L	168099	1	10/25/2012 09:20	NP
Dichlorodifluoromethane	BRL	10		ug/L	168099	1	10/25/2012 09:20	NP
Ethylbenzene	BRL	5.0		ug/L	168099	1	10/25/2012 09:20	NP
Freon-113	BRL	10		ug/L	168099	1	10/25/2012 09:20	NP
Isopropylbenzene	BRL	5.0		ug/L	168099	1	10/25/2012 09:20	NP
Methyl acetate	BRL	5.0		ug/L	168099	1	10/25/2012 09:20	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	168099	1	10/25/2012 09:20	NP
Methylcyclohexane	BRL	5.0		ug/L	168099	1	10/25/2012 09:20	NP
Methylene chloride	BRL	5.0		ug/L	168099	1	10/25/2012 09:20	NP
Styrene	BRL	5.0		ug/L	168099	1	10/25/2012 09:20	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: 26-Oct-12

Client: AMEC E&I, Inc.	Client Sample ID: DW-1
Project Name: Imperial Cleaners	Collection Date: 10/17/2012 10:30:00 AM
Lab ID: 1210F65-014	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
Tetrachloroethene	BRL	5.0		ug/L	168099	1	10/25/2012 09:20	NP
Toluene	BRL	5.0		ug/L	168099	1	10/25/2012 09:20	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	168099	1	10/25/2012 09:20	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	168099	1	10/25/2012 09:20	NP
Trichloroethene	BRL	5.0		ug/L	168099	1	10/25/2012 09:20	NP
Trichlorofluoromethane	BRL	5.0		ug/L	168099	1	10/25/2012 09:20	NP
Vinyl chloride	BRL	2.0		ug/L	168099	1	10/25/2012 09:20	NP
Xylenes, Total	BRL	5.0		ug/L	168099	1	10/25/2012 09:20	NP
Surr: 4-Bromofluorobenzene	84.1	64.6-123		%REC	168099	1	10/25/2012 09:20	NP
Surr: Dibromofluoromethane	86.8	76.6-133		%REC	168099	1	10/25/2012 09:20	NP
Surr: Toluene-d8	94.9	77.8-120		%REC	168099	1	10/25/2012 09:20	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 AMEC

Work Order Number 1210F65

Checklist completed by BM Signature Date 10/18/12

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 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 BM

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.

Analytical Environmental Services, Inc

Date: 26-Oct-12

Client: AMEC E&I, Inc.
 Project: Imperial Cleaners
 Lab Order: 1210F65

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1210F65-001A	MW-2	10/18/2012 9:00:00AM	Groundwater	Volatile Organic Compounds by GC/MS	10/23/2012	10/23/2012	10/25/2012
1210F65-001B	MW-2	10/18/2012 9:00:00AM	Groundwater	GC Analysis of Gaseous Samples	10/24/2012	10/24/2012	10/24/2012
1210F65-001C	MW-2	10/18/2012 9:00:00AM	Groundwater	Alkalinity			10/22/2012
1210F65-001D	MW-2	10/18/2012 9:00:00AM	Groundwater	Sulfide by SW9030/9034	10/23/2012	10/23/2012	10/23/2012
1210F65-001E	MW-2	10/18/2012 9:00:00AM	Groundwater	ION SCAN			10/18/2012
1210F65-001F	MW-2	10/18/2012 9:00:00AM	Groundwater	Ferrous Iron			10/18/2012
1210F65-002A	MW-3	10/17/2012 12:20:00PM	Groundwater	Volatile Organic Compounds by GC/MS	10/23/2012	10/23/2012	10/23/2012
1210F65-003A	MW-4	10/17/2012 1:05:00PM	Groundwater	Volatile Organic Compounds by GC/MS	10/23/2012	10/23/2012	10/25/2012
1210F65-004A	MW-5	10/17/2012 1:48:00PM	Groundwater	Volatile Organic Compounds by GC/MS	10/23/2012	10/23/2012	10/23/2012
1210F65-004B	MW-5	10/17/2012 1:48:00PM	Groundwater	GC Analysis of Gaseous Samples	10/24/2012	10/24/2012	10/24/2012
1210F65-004C	MW-5	10/17/2012 1:48:00PM	Groundwater	Alkalinity			10/22/2012
1210F65-004D	MW-5	10/17/2012 1:48:00PM	Groundwater	Sulfide by SW9030/9034	10/23/2012	10/23/2012	10/23/2012
1210F65-004E	MW-5	10/17/2012 1:48:00PM	Groundwater	ION SCAN			10/18/2012
1210F65-004F	MW-5	10/17/2012 1:48:00PM	Groundwater	Ferrous Iron			10/18/2012
1210F65-005A	MW-7	10/17/2012 4:45:00PM	Groundwater	Volatile Organic Compounds by GC/MS	10/23/2012	10/23/2012	10/23/2012
1210F65-005A	MW-7	10/17/2012 4:45:00PM	Groundwater	Volatile Organic Compounds by GC/MS	10/23/2012	10/23/2012	10/25/2012
1210F65-005B	MW-7	10/17/2012 4:45:00PM	Groundwater	GC Analysis of Gaseous Samples	10/24/2012	10/24/2012	10/24/2012
1210F65-005C	MW-7	10/17/2012 4:45:00PM	Groundwater	Alkalinity			10/22/2012
1210F65-005D	MW-7	10/17/2012 4:45:00PM	Groundwater	Sulfide by SW9030/9034	10/23/2012	10/23/2012	10/23/2012
1210F65-005E	MW-7	10/17/2012 4:45:00PM	Groundwater	ION SCAN			10/18/2012
1210F65-005F	MW-7	10/17/2012 4:45:00PM	Groundwater	Ferrous Iron			10/18/2012
1210F65-006A	MW-11	10/18/2012 9:30:00AM	Groundwater	Volatile Organic Compounds by GC/MS	10/23/2012	10/23/2012	10/25/2012
1210F65-007A	MW-12	10/17/2012 4:10:00PM	Groundwater	Volatile Organic Compounds by GC/MS	10/23/2012	10/23/2012	10/23/2012
1210F65-008A	MW-16	10/17/2012 11:37:00AM	Groundwater	Volatile Organic Compounds by GC/MS	10/23/2012	10/23/2012	10/23/2012
1210F65-009A	SW-1	10/17/2012 4:15:00PM	Groundwater	Volatile Organic Compounds by GC/MS	10/23/2012	10/23/2012	10/24/2012
1210F65-010A	SW-2	10/17/2012 4:20:00PM	Groundwater	Volatile Organic Compounds by GC/MS	10/23/2012	10/23/2012	10/23/2012
1210F65-011A	SW-3	10/17/2012 4:30:00PM	Groundwater	Volatile Organic Compounds by GC/MS	10/23/2012	10/23/2012	10/25/2012
1210F65-012A	MW-5 (DUPLICATE)	10/17/2012 1:45:00PM	Groundwater	Volatile Organic Compounds by GC/MS	10/23/2012	10/23/2012	10/25/2012
1210F65-013A	TRIP BLANK	10/18/2012 12:00:00AM	Groundwater	Volatile Organic Compounds by GC/MS	10/23/2012	10/23/2012	10/23/2012

Client: AMEC E&I, Inc.
Project: Imperial Cleaners
Lab Order: 1210F65

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1210F65-014A	DW-1	10/17/2012 10:30:00AM	Groundwater	Volatile Organic Compounds by GC/MS		10/23/2012	10/25/2012

Analytical Environmental Services, Inc

Date: 26-Oct-12

Client: AMEC E&I, Inc.
 Project Name: Imperial Cleaners
 Workorder: 1210F65

ANALYTICAL QC SUMMARY REPORT

BatchID: 168087

Sample ID: MB-168087	Client ID:	Units: mg/L	Prep Date: 10/22/2012	Run No: 231539				
Sample Type: MBLK	Test Code: Sulfide by SW9030B/9034	BatchID: 168087	Analysis Date: 10/23/2012	Seq No: 4848463				
Analyte	Result	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfide	BRL	0	0	0	0	0	0	0

Sample ID: LCS-168087	Client ID:	Units: mg/L	Prep Date: 10/22/2012	Run No: 231539				
Sample Type: LCS	Test Code: Sulfide by SW9030B/9034	BatchID: 168087	Analysis Date: 10/23/2012	Seq No: 4848464				
Analyte	Result	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfide	381.6	100	40	120	0	0	0	0

Sample ID: 1210F12-001FMMS	Client ID:	Units: mg/L	Prep Date: 10/23/2012	Run No: 231539				
Sample Type: MS	Test Code: Sulfide by SW9030B/9034	BatchID: 168087	Analysis Date: 10/23/2012	Seq No: 4848467				
Analyte	Result	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfide	38.16	100	66.8	121	0	0	0	0

Sample ID: 1210F12-001FMMSD	Client ID:	Units: mg/L	Prep Date: 10/23/2012	Run No: 231539				
Sample Type: MSD	Test Code: Sulfide by SW9030B/9034	BatchID: 168087	Analysis Date: 10/23/2012	Seq No: 4848468				
Analyte	Result	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfide	37.76	99	66.8	121	38.16	1.05	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

Date: 26-Oct-12

Client: AMEC E&I, Inc.
 Project Name: Imperial Cleaners
 Workorder: 1210F65

ANALYTICAL QC SUMMARY REPORT

BatchID: 168099

Sample ID: MB-168099	Client ID:	Units: ug/L	Prep Date: 10/23/2012	Run No: 231508							
Sample Type: MBLK	Test Code: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 168099	Analysis Date: 10/23/2012	Seq No: 4848685							
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	0
1,1,2,2-Tetrachloroethane	BRL	5.0	0	0	0	0	0	0	0	0	0
1,1,2-Trichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	0
1,1-Dichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	0
1,1-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	0
1,2,4-Trichlorobenzene	BRL	5.0	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	0
1,2-Dibromoethane	BRL	5.0	0	0	0	0	0	0	0	0	0
1,2-Dichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	0
1,2-Dichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	0
1,2-Dichloropropane	BRL	5.0	0	0	0	0	0	0	0	0	0
1,3-Dichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	0
1,4-Dichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	0
1,4-Dioxane	BRL	150	0	0	0	0	0	0	0	0	0
2-Butanone	BRL	50	0	0	0	0	0	0	0	0	0
2-Hexanone	BRL	10	0	0	0	0	0	0	0	0	0
4-Methyl-2-pentanone	BRL	10	0	0	0	0	0	0	0	0	0
Acetone	BRL	50	0	0	0	0	0	0	0	0	0
Benzene	BRL	5.0	0	0	0	0	0	0	0	0	0
Bromodichloromethane	BRL	5.0	0	0	0	0	0	0	0	0	0
Bromoform	BRL	5.0	0	0	0	0	0	0	0	0	0
Bromomethane	BRL	5.0	0	0	0	0	0	0	0	0	0
Carbon disulfide	BRL	5.0	0	0	0	0	0	0	0	0	0
Carbon tetrachloride	BRL	5.0	0	0	0	0	0	0	0	0	0
Chlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	0
Chloroethane	BRL	10	0	0	0	0	0	0	0	0	0
Chloroform	BRL	5.0	0	0	0	0	0	0	0	0	0

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

Analytical Environmental Services, Inc

Date: 26-Oct-12

Client: AMEC E&I, Inc.
 Project Name: Imperial Cleaners
 Workorder: 1210F65

ANALYTICAL QC SUMMARY REPORT

BatchID: 168099

Sample ID: MB-168099	Client ID:	Units: ug/L	Prep Date: 10/23/2012	Run No: 231508							
Sample Type: MBLK	Test Code: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 168099	Analysis Date: 10/23/2012	Seq No: 4848685							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloromethane	BRL	10	0	0	0	0	0	0	0	0	0
cis-1,2-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	0
cis-1,3-Dichloropropene	BRL	5.0	0	0	0	0	0	0	0	0	0
Cyclohexane	BRL	5.0	0	0	0	0	0	0	0	0	0
Dibromochloromethane	BRL	5.0	0	0	0	0	0	0	0	0	0
Dichlorodifluoromethane	BRL	10	0	0	0	0	0	0	0	0	0
Ethylbenzene	BRL	5.0	0	0	0	0	0	0	0	0	0
Freon-113	BRL	10	0	0	0	0	0	0	0	0	0
Isopropylbenzene	BRL	5.0	0	0	0	0	0	0	0	0	0
Methyl acetate	BRL	5.0	0	0	0	0	0	0	0	0	0
Methyl tert-butyl ether	BRL	5.0	0	0	0	0	0	0	0	0	0
Methylcyclohexane	BRL	5.0	0	0	0	0	0	0	0	0	0
Methylene chloride	BRL	5.0	0	0	0	0	0	0	0	0	0
Styrene	BRL	5.0	0	0	0	0	0	0	0	0	0
Tetrachloroethene	BRL	5.0	0	0	0	0	0	0	0	0	0
Toluene	BRL	5.0	0	0	0	0	0	0	0	0	0
trans-1,2-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	0
trans-1,3-Dichloropropene	BRL	5.0	0	0	0	0	0	0	0	0	0
Trichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	0
Trichlorofluoromethane	BRL	5.0	0	0	0	0	0	0	0	0	0
Vinyl chloride	BRL	2.0	0	0	0	0	0	0	0	0	0
Xylenes, Total	BRL	5.0	0	0	0	0	0	0	0	0	0
Surr: 4-Bromofluorobenzene	49.43	0	50	0	98.9	64.6	123	0	0	0	0
Surr: Dibromofluoromethane	50.41	0	50	0	101	76.6	133	0	0	0	0
Surr: Toluene-d8	49.92	0	50	0	99.8	77.8	120	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		

Analytical Environmental Services, Inc

Date: 26-Oct-12

Client: AMEC E&I, Inc.
 Project Name: Imperial Cleaners
 Workorder: 1210F65

ANALYTICAL QC SUMMARY REPORT

BatchID: 168099

Sample ID: LCS-168099	Client ID:	Units: ug/L	Prep Date:	Run No: 231508				
Sample Type: LCS	Test Code: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 168099	Analysis Date: 10/23/2012	Seq No: 4848684				
Analyte	Result	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	66.26	133	60	140	0	0	0	
Benzene	60.18	120	70	130	0	0	0	
Chlorobenzene	53.12	106	70	130	0	0	0	
Toluene	59.09	118	70	130	0	0	0	
Trichloroethene	63.03	126	70	130	0	0	0	
Surr: 4-Bromofluorobenzene	52.99	106	64.6	123	0	0	0	
Surr: Dibromofluoromethane	50.91	102	76.6	133	0	0	0	
Surr: Toluene-d8	50.25	100	77.8	120	0	0	0	

Sample ID: 1210F65-005AMS	Client ID: MW-7	Units: ug/L	Prep Date:	Run No: 231508				
Sample Type: MS	Test Code: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 168099	Analysis Date: 10/23/2012	Seq No: 4849718				
Analyte	Result	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	3584	143	50.1	179	0	0	0	
Benzene	2846	114	61.2	150	0	0	0	
Chlorobenzene	2513	101	72.1	140	0	0	0	
Toluene	2766	111	58.7	154	0	0	0	
Trichloroethene	3287	117	68.3	149	0	0	0	
Surr: 4-Bromofluorobenzene	2639	106	64.6	123	0	0	0	
Surr: Dibromofluoromethane	2494	99.8	76.6	133	0	0	0	
Surr: Toluene-d8	2498	99.9	77.8	120	0	0	0	

Sample ID: 1210F65-005AMSD	Client ID: MW-7	Units: ug/L	Prep Date:	Run No: 231508				
Sample Type: MSD	Test Code: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 168099	Analysis Date: 10/23/2012	Seq No: 4849720				
Analyte	Result	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	3454	138	50.1	179	3584	3.71	23.3	
Benzene	2722	109	61.2	150	2846	4.44	19	

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

Analytical Environmental Services, Inc

Date: 26-Oct-12

Client: AMEC E&I, Inc.
 Project Name: Imperial Cleaners
 Workorder: 1210F65

ANALYTICAL QC SUMMARY REPORT

BatchID: 168099

Sample ID: 1210F65-005AMSD	Client ID: MW-7	Units: ug/L	Prep Date: 10/23/2012	Run No: 231508
Sample Type: MSD	Test Code: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 168099	Analysis Date: 10/23/2012	Seq No: 4849720

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorobenzene	2456	250	2500	0	98.3	72.1	140	2513	2.27	21.5	
Toluene	2624	250	2500	0	105	58.7	154	2766	5.29	20	
Trichloroethene	3132	250	2500	356.5	111	68.3	149	3287	4.85	17.7	
Surr: 4-Bromofluorobenzene	2738	0	2500	0	110	64.6	123	2639	0	0	
Surr: Dibromofluoromethane	2548	0	2500	0	102	76.6	133	2494	0	0	
Surr: Toluene-d8	2526	0	2500	0	101	77.8	120	2498	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: 26-Oct-12

Client: AMEC E&I, Inc.
 Project Name: Imperial Cleaners
 Workorder: 1210F65

ANALYTICAL QC SUMMARY REPORT

BatchID: 168144

Sample ID: MB-168144	Client ID:	Units: ug/L	Prep Date: 10/24/2012	Run No: 231646							
Sample Type: MBLK	TestCode: GC Analysis of Gaseous Samples SOP-RSK 175	BatchID: 168144	Analysis Date: 10/24/2012	Seq No: 4850864							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethane	BRL	9	0	0	0	0	0	0	0	0	0
Ethylene	BRL	7	0	0	0	0	0	0	0	0	0
Methane	BRL	4	0	0	0	0	0	0	0	0	0

Sample ID: LCS-168144	Client ID:	Units: ug/L	Prep Date: 10/24/2012	Run No: 231646							
Sample Type: LCS	TestCode: GC Analysis of Gaseous Samples SOP-RSK 175	BatchID: 168144	Analysis Date: 10/24/2012	Seq No: 4850867							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethane	132.0	9	200	0	66	37.9	115	0	0	0	0
Ethylene	87.24	7	200	0	43.6	26.6	115	0	0	0	0
Methane	137.4	4	200	0	68.7	38.4	115	0	0	0	0

Sample ID: LCSD-168144	Client ID:	Units: ug/L	Prep Date: 10/24/2012	Run No: 231646							
Sample Type: LCSD	TestCode: GC Analysis of Gaseous Samples SOP-RSK 175	BatchID: 168144	Analysis Date: 10/24/2012	Seq No: 4850869							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethane	137.1	9	200	0	68.5	37.9	115	132.0	3.75	20	20
Ethylene	90.83	7	200	0	45.4	26.6	115	87.24	4.03	20	20
Methane	143.4	4	200	0	71.7	38.4	115	137.4	4.26	20	20

Sample ID: 1210G60-002AMS	Client ID:	Units: ug/L	Prep Date: 10/24/2012	Run No: 231646							
Sample Type: MS	TestCode: GC Analysis of Gaseous Samples SOP-RSK 175	BatchID: 168144	Analysis Date: 10/24/2012	Seq No: 4850959							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethane	115.8	9	200	0	57.9	38.9	115	0	0	0	0
Ethylene	76.88	7	200	0	38.4	23.1	115	0	0	0	0
Methane	122.5	4	200	0	61.3	38.4	115	0	0	0	0

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

Analytical Environmental Services, Inc

Date: 26-Oct-12

Client: AMEC E&I, Inc.
 Project Name: Imperial Cleaners
 Workorder: 1210F65

ANALYTICAL QC SUMMARY REPORT

BatchID: 168144

Sample ID: 1210G60-00ZAMSD	Client ID:	Units: ug/L	Prep Date: 10/24/2012	Run No: 231646
Sample Type: MSD	Test Code: GC Analysis of Gaseous Samples	BatchID: 168144	Analysis Date: 10/24/2012	Seq No: 4850962
	SOP-RSK 175			

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Ethane	113.2	9	200	0	56.6	38.9	115	115.8	2.32	20	
Ethylene	75.19	7	200	0	37.6	23.1	115	76.88	2.22	20	
Methane	120.9	4	200	0	60.4	38.4	115	122.5	1.36	20	

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

Analytical Environmental Services, Inc

Date: 26-Oct-12

Client: AMEC E&I, Inc.
 Project Name: Imperial Cleaners
 Workorder: 1210F65

ANALYTICAL QC SUMMARY REPORT

BatchID: R231371

Sample ID: MB-R231271	Client ID:	Units: mg/L	Prep Date:	Run No: 231371							
Sample Type: MBLK	Test Code: ION SCAN SW9056A	BatchID: R231371	Analysis Date: 10/18/2012	Seq No: 4844647							
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	0
Nitrate	BRL	0.25	0	0	0	0	0	0	0	0	0
Nitrite	BRL	0.25	0	0	0	0	0	0	0	0	0
Sulfate	BRL	1.0	0	0	0	0	0	0	0	0	0

Sample ID: LCS-R231371	Client ID:	Units: mg/L	Prep Date:	Run No: 231371							
Sample Type: LCS	Test Code: ION SCAN SW9056A	BatchID: R231371	Analysis Date: 10/18/2012	Seq No: 4844643							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride	9.903	1.0	10	0	99	90	110	0	0	0	0
Nitrate	4.834	0.25	5	0	96.7	90	110	0	0	0	0
Nitrite	4.713	0.25	5	0	94.3	90	110	0	0	0	0
Sulfate	25.69	1.0	25	0	103	90	110	0	0	0	0

Sample ID: 1210F65-004EMS	Client ID: MW-5	Units: mg/L	Prep Date:	Run No: 231371							
Sample Type: MS	Test Code: ION SCAN SW9056A	BatchID: R231371	Analysis Date: 10/18/2012	Seq No: 4844663							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride	21.94	1.0	10	11.78	102	90	110	0	0	0	0
Nitrate	7.118	0.25	5	2.012	102	90	110	0	0	0	0
Nitrite	4.542	0.25	5	0	90.8	90	110	0	0	0	0
Sulfate	25.59	1.0	25	1.005	98.3	90	110	0	0	0	0

Sample ID: 1210F65-004EMSD	Client ID: MW-5	Units: mg/L	Prep Date:	Run No: 231371							
Sample Type: MSD	Test Code: ION SCAN SW9056A	BatchID: R231371	Analysis Date: 10/18/2012	Seq No: 4844667							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride	21.25	1.0	10	11.78	94.7	90	110	21.94	3.16	20	20
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Qualifiers: > Greater than Result value
 BRL Below reporting limit
 J Estimated value detected below Reporting Limit
 Rpt Lim Reporting Limit
 < Less than Result value
 E Estimated (value above quantitation range)
 N Analyte not NELAC certified
 S Spike Recovery outside limits due to matrix
 B Analyte detected in the associated method blank
 H Holding times for preparation or analysis exceeded
 R RPD outside limits due to matrix

Analytical Environmental Services, Inc

Date: 26-Oct-12

Client: AMEC E&I, Inc. **ANALYTICAL QC SUMMARY REPORT**
 Project Name: Imperial Cleaners
 Workorder: 1210F65
 BatchID: R231371

Sample ID: 1210F65-004EMSD Client ID: MW-5 Units: mg/L Run No: 231371
 Sample Type: MSD Test Code: ION SCAN SW9056A BatchID: R231371 Prep Date: Seq No: 4844667
 Analysis Date: 10/18/2012

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	6.960	0.25	5	2.012	99	90	110	7.118	2.24	20	
Nitrite	4.660	0.25	5	0	93.2	90	110	4.542	2.57	20	
Sulfate	24.97	1.0	25	1.005	95.9	90	110	25.59	2.45	20	

Qualifiers:

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

Analytical Environmental Services, Inc

Date: 26-Oct-12

Client: AMEC E&I, Inc.
 Project Name: Imperial Cleaners
 Workorder: 1210F65

ANALYTICAL QC SUMMARY REPORT

BatchID: R231396

Sample ID: MB-R231396	Client ID:	Units: mg/L	Prep Date:	Run No: 231396				
Sample Type: MBLK	TestCode: Alkalinity E310.2	BatchID: R231396	Analysis Date: 10/22/2012	Seq No: 4845400				
Analyte	Result	%REC	Low Limit	High Limit	RPD RefVal	%RPD	RPD Limit	Qual
Alkalinity, Total (As CaCO3)	BRL	0	0	0	0	0	0	0

Sample ID: LCS-R231396	Client ID:	Units: mg/L	Prep Date:	Run No: 231396				
Sample Type: LCS	TestCode: Alkalinity E310.2	BatchID: R231396	Analysis Date: 10/22/2012	Seq No: 4845401				
Analyte	Result	%REC	Low Limit	High Limit	RPD RefVal	%RPD	RPD Limit	Qual
Alkalinity, Total (As CaCO3)	250.0	100	75	125	0	0	0	0

Sample ID: 1210F65-001CDUP	Client ID: MW-2	Units: mg/L	Prep Date:	Run No: 231396				
Sample Type: DUP	TestCode: Alkalinity E310.2	BatchID: R231396	Analysis Date: 10/22/2012	Seq No: 4845613				
Analyte	Result	%REC	Low Limit	High Limit	RPD RefVal	%RPD	RPD Limit	Qual
Alkalinity, Total (As CaCO3)	111.0	0	0	0	112.0	0.897	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

Date: 26-Oct-12

Client: AMEC E&I, Inc.
 Project Name: Imperial Cleaners
 Workorder: 1210F65

ANALYTICAL QC SUMMARY REPORT

BatchID: R231645

Sample ID: MB-R231645	Client ID:	Ferrous Iron	SM3500-Fe-B	Units: mg/L	Prep Date:	Run No: 231645
Sample Type: MBLK	Test Code:			BatchID: R231645	Analysis Date: 10/18/2012	Seq No: 4850834
Analyte	Result	RPT Limit	SPK value	%REC	Low Limit	High Limit
Iron, as Ferrous (Fe+2)	BRL	0.100	0	0	0	0
			SPK Ref Val	%RPD	RPD Ref Val	RPD Limit
			0	0	0	0

Sample ID: LCS-R231645	Client ID:	Ferrous Iron	SM3500-Fe-B	Units: mg/L	Prep Date:	Run No: 231645
Sample Type: LCS	Test Code:			BatchID: R231645	Analysis Date: 10/18/2012	Seq No: 4850835
Analyte	Result	RPT Limit	SPK value	%REC	Low Limit	High Limit
Iron, as Ferrous (Fe+2)	0.4815	0.100	0.5	96.3	85	115
			SPK Ref Val	%RPD	RPD Ref Val	RPD Limit
			0	0	0	0

Sample ID: 1210F65-005FMS	Client ID: MW-7	Ferrous Iron	SM3500-Fe-B	Units: mg/L	Prep Date:	Run No: 231645
Sample Type: MS	Test Code:			BatchID: R231645	Analysis Date: 10/18/2012	Seq No: 4850839
Analyte	Result	RPT Limit	SPK value	%REC	Low Limit	High Limit
Iron, as Ferrous (Fe+2)	0.5112	0.100	0.5	102	80	120
			SPK Ref Val	%RPD	RPD Ref Val	RPD Limit
			0	0	0	0

Sample ID: 1210F65-005FMSD	Client ID: MW-7	Ferrous Iron	SM3500-Fe-B	Units: mg/L	Prep Date:	Run No: 231645
Sample Type: MSD	Test Code:			BatchID: R231645	Analysis Date: 10/18/2012	Seq No: 4850842
Analyte	Result	RPT Limit	SPK value	%REC	Low Limit	High Limit
Iron, as Ferrous (Fe+2)	0.5142	0.100	0.5	103	80	120
			SPK Ref Val	%RPD	RPD Ref Val	RPD Limit
			0	0	0.5112	0.585

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	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 B
FIELD DATA SHEETS

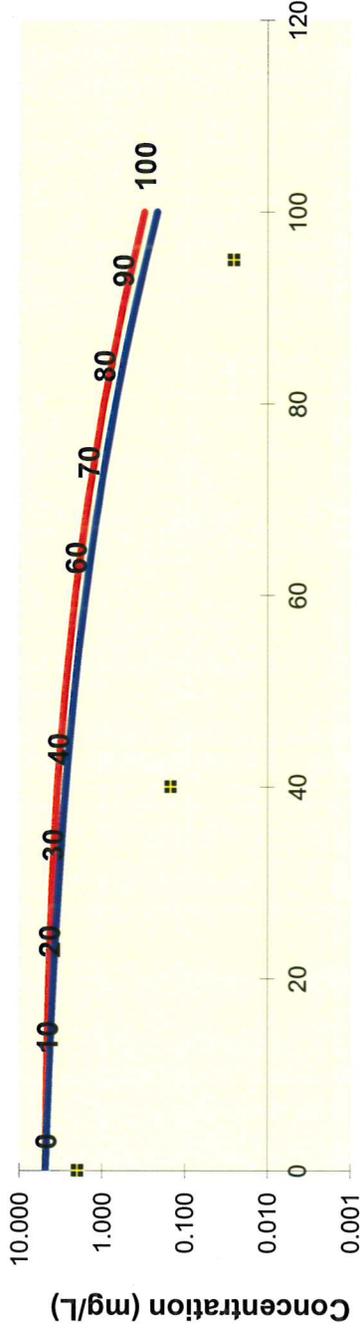
APPENDIX C
BIOCHLOR OUTPUT SHEETS

DISSOLVED CHLORINATED SOLVENT CONCENTRATIONS ALONG PLUME CENTERLINE (mg/L) at Z=0

PCE	Distance from Source (ft)										
	0	10	20	30	40	50	60	70	80	90	100
No Degradation	4.800	4.670	4.418	4.017	3.471	2.821	2.139	1.502	0.971	0.576	0.312
Biotransformation	4.8000	4.355	3.873	3.342	2.765	2.170	1.600	1.099	0.698	0.408	0.219

Monitoring Well Locations (ft)											
0	40	95									
Field Data from Site	2.000	0.150	0.026								

— No Degradation/Production
 — Sequential 1st Order Decay
 # Field Data from Site



- See PCE
- See TCE
- See DCE
- See VC
- See ETH

Distance From Source (ft.)

Time: 5.0 Years

Log
↔
Linear

Replay

Return to Input

To All

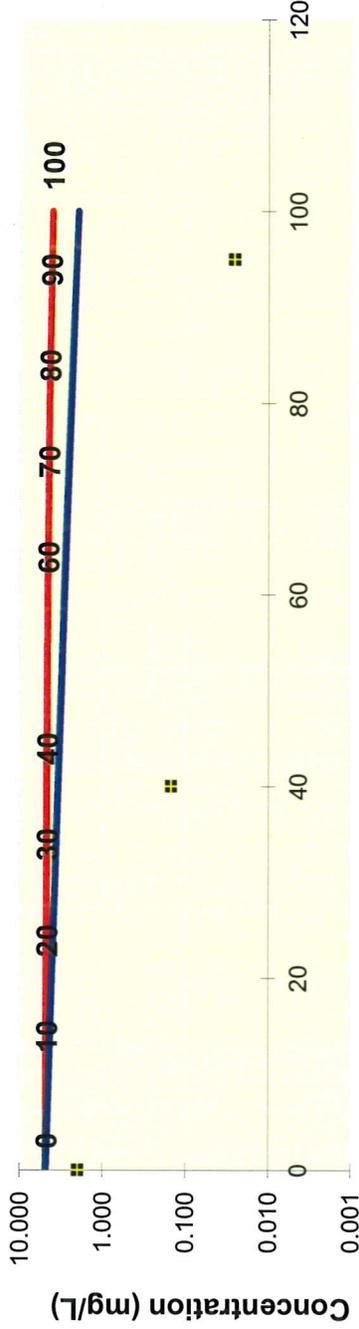
To Array

DISSOLVED CHLORINATED SOLVENT CONCENTRATIONS ALONG PLUME CENTERLINE (mg/L) at Z=0

PCE	Distance from Source (ft)										
	0	10	20	30	40	50	60	70	80	90	100
No Degradation	4.800	4.797	4.790	4.776	4.752	4.714	4.655	4.569	4.449	4.291	4.089
Biotransformation	4.8000	4.425	4.078	3.757	3.458	3.179	2.916	2.668	2.430	2.201	1.979

Monitoring Well Locations (ft)										
0	40	95								
Field Data from Site	2.000	0.150	0.026							

— No Degradation/Production
 — Sequential 1st Order Decay
 # Field Data from Site



- See PCE
- See TCE
- See DCE
- See VC
- See ETH

Distance From Source (ft.)

Time:

Log Linear

Replay

Return to Input

To All

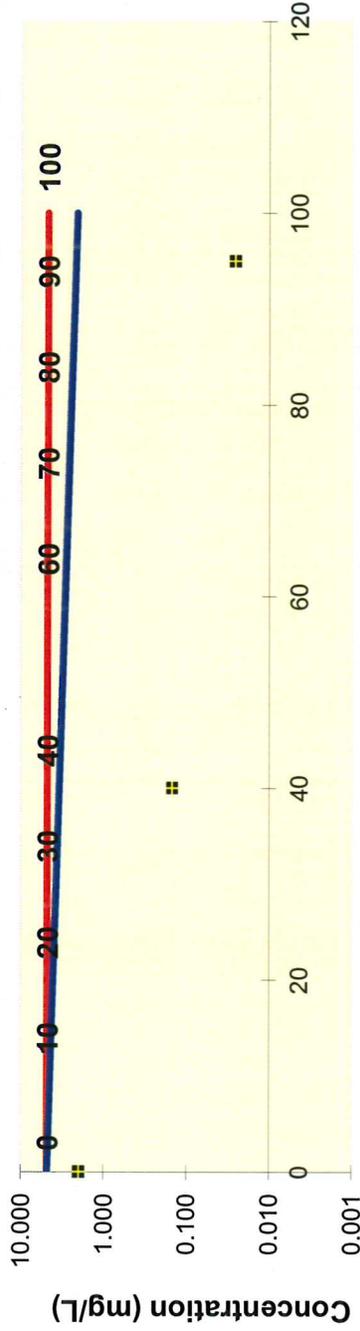
To Array

DISSOLVED CHLORINATED SOLVENT CONCENTRATIONS ALONG PLUME CENTERLINE (mg/L) at Z=0

PCE	Distance from Source (ft)										
	0	10	20	30	40	50	60	70	80	90	100
No Degradation	4.800	4.800	4.799	4.799	4.798	4.795	4.792	4.786	4.777	4.763	4.743
Biotransformation	4.8000	4.425	4.080	3.762	3.468	3.197	2.947	2.717	2.504	2.307	2.125

Monitoring Well Locations (ft)										
0	40	95								
Field Data from Site	2.000	0.150	0.026							

— No Degradation/Production — Sequential 1st Order Decay # Field Data from Site



- [See PCE](#)
- [See TCE](#)
- [See DCE](#)
- [See VC](#)
- [See ETH](#)

Distance From Source (ft.)

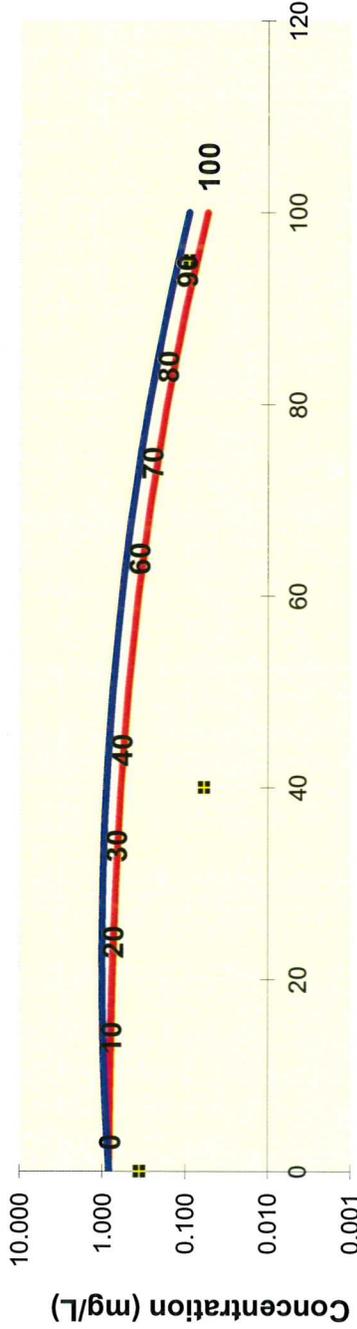
Time:

DISSOLVED CHLORINATED SOLVENT CONCENTRATIONS ALONG PLUME CENTERLINE (mg/L) at Z=0

TCE	Distance from Source (ft)										
	0	10	20	30	40	50	60	70	80	90	100
No Degradation	0.830	0.808	0.764	0.695	0.600	0.488	0.370	0.260	0.168	0.100	0.054
Biotransformation	0.8300	0.958	1.012	0.990	0.899	0.756	0.587	0.419	0.274	0.164	0.090

Monitoring Well Locations (ft)											
0	40	95									
Field Data from Site	0.360	0.060	0.092								

— No Degradation/Production
 — Sequential 1st Order Decay
 # Field Data from Site



- See PCE
- See TCE
- See DCE
- See VC
- See ETH

Distance From Source (ft.)

Replay

Time: 5.0 Years
 Log ↔ Linear

Return to Input

To All

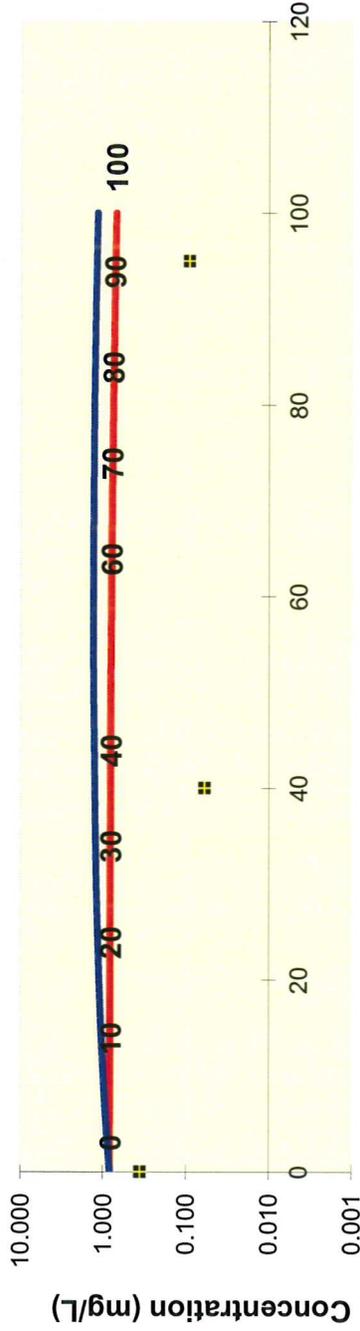
To Array

DISSOLVED CHLORINATED SOLVENT CONCENTRATIONS ALONG PLUME CENTERLINE (mg/L) at Z=0

TCE	Distance from Source (ft)										
	0	10	20	30	40	50	60	70	80	90	100
No Degradation	0.830	0.829	0.828	0.826	0.822	0.815	0.805	0.790	0.769	0.742	0.707
Biotransformation	0.8300	0.996	1.123	1.216	1.281	1.319	1.334	1.327	1.300	1.254	1.191

Monitoring Well Locations (ft)											
0	40	95									
Field Data from Site	0.360	0.060	0.092								

— No Degradation/Production
 — Sequential 1st Order Decay
 # Field Data from Site



- [See PCE](#)
- [See TCE](#)
- [See DCE](#)
- [See VC](#)
- [See ETH](#)

Distance From Source (ft.)

Time:

Log Linear

[Replay](#)

[Return to Input](#)

[To All](#)

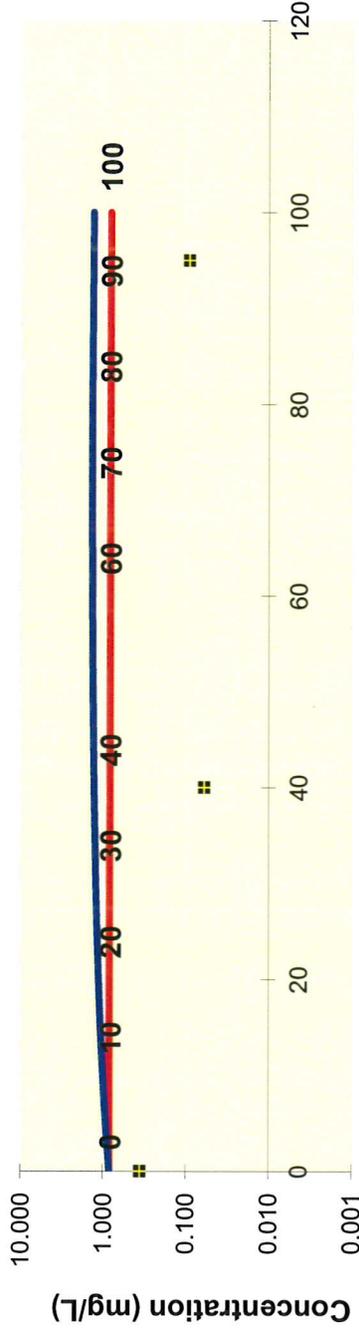
[To Array](#)

DISSOLVED CHLORINATED SOLVENT CONCENTRATIONS ALONG PLUME CENTERLINE (mg/L) at Z=0

TCE	Distance from Source (ft)										
	0	10	20	30	40	50	60	70	80	90	100
No Degradation	0.830	0.830	0.830	0.830	0.830	0.829	0.829	0.828	0.826	0.824	0.820
Biotransformation	0.8300	0.996	1.125	1.221	1.291	1.337	1.363	1.374	1.370	1.355	1.331

Monitoring Well Locations (ft)										
0	40	95								
Field Data from Site	0.360	0.060	0.092							

— No Degradation/Production — Sequential 1st Order Decay # Field Data from Site



- [See PCE](#)
- [See TCE](#)
- [See DCE](#)
- [See VC](#)
- [See ETH](#)

Distance From Source (ft.)

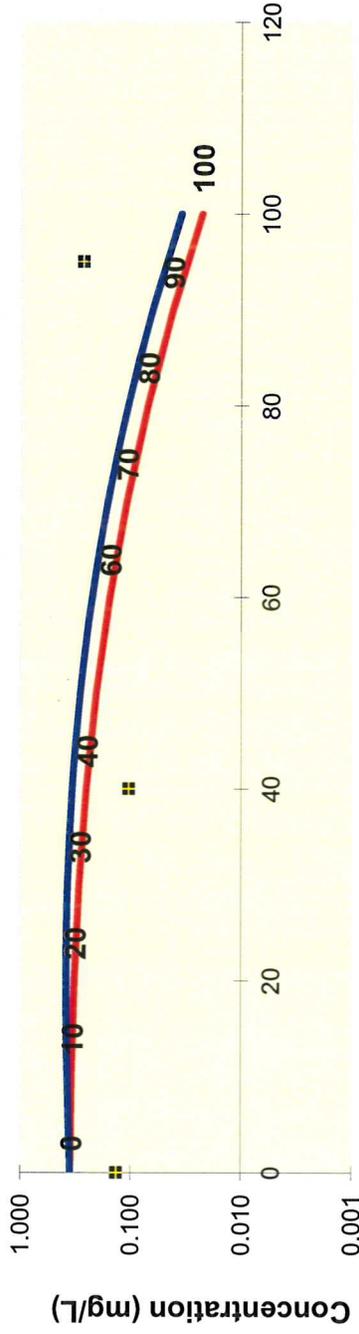
Time:

DISSOLVED CHLORINATED SOLVENT CONCENTRATIONS ALONG PLUME CENTERLINE (mg/L) at Z=0

DCE	Distance from Source (ft)										
	0	10	20	30	40	50	60	70	80	90	100
No Degradation	0.349	0.340	0.321	0.292	0.252	0.205	0.156	0.109	0.071	0.042	0.023
Biotransformation	0.3490	0.371	0.380	0.369	0.337	0.285	0.224	0.161	0.106	0.064	0.035

Monitoring Well Locations (ft)											
0	40	95									
Field Data from Site	0.135	0.105	0.273								

— No Degradation/Production — Sequential 1st Order Decay # Field Data from Site



- See PCE
- See TCE
- See DCE
- See VC
- See ETH

Distance From Source (ft.)

Time:

Log Linear

Replay

Return to Input

To All

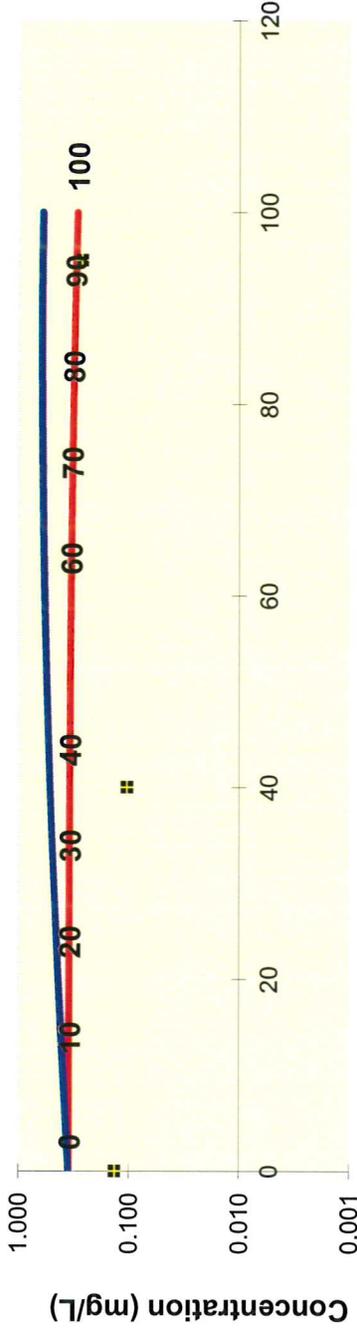
To Array

DISSOLVED CHLORINATED SOLVENT CONCENTRATIONS ALONG PLUME CENTERLINE (mg/L) at Z=0

DCE	Distance from Source (ft)										
	0	10	20	30	40	50	60	70	80	90	100
No Degradation	0.349	0.349	0.348	0.347	0.346	0.343	0.338	0.332	0.324	0.312	0.297
Biotransformation	0.3490	0.388	0.432	0.475	0.517	0.554	0.584	0.606	0.618	0.619	0.609

Monitoring Well Locations (ft)										
0	40	95								
Field Data from Site	0.135	0.105	0.273							

— No Degradation/Production
 — Sequential 1st Order Decay
 # Field Data from Site



- See PCE
- See TCE
- See DCE
- See VC
- See ETH

Distance From Source (ft.)

Time: 15.0 Years

Log \leftrightarrow Linear

Replay

Return to Input

To All

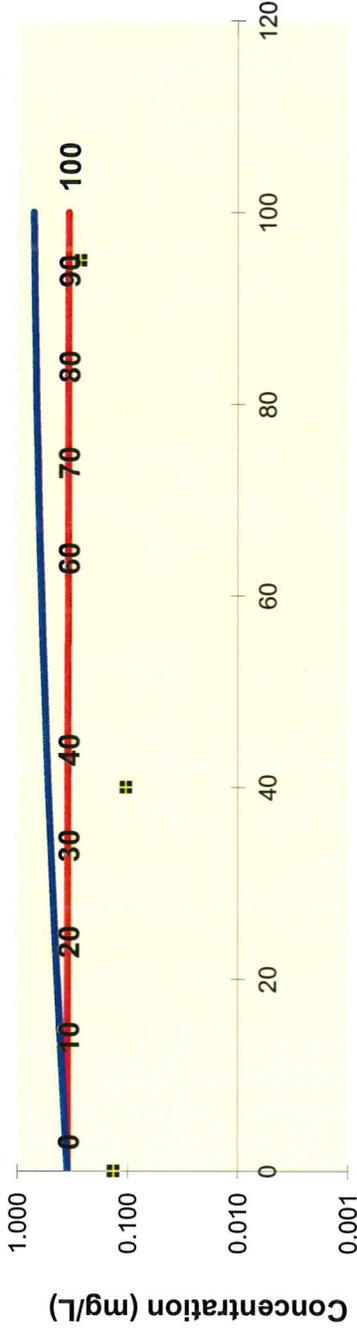
To Array

DISSOLVED CHLORINATED SOLVENT CONCENTRATIONS ALONG PLUME CENTERLINE (mg/L) at Z=0

DCE	Distance from Source (ft)										
	0	10	20	30	40	50	60	70	80	90	100
No Degradation	0.349	0.349	0.349	0.349	0.349	0.349	0.348	0.348	0.347	0.346	0.345
Biotransformation	0.3490	0.389	0.433	0.479	0.524	0.567	0.606	0.641	0.672	0.696	0.715

Monitoring Well Locations (ft)											
0	40	95									
Field Data from Site	0.135	0.105	0.273								

— No Degradation/Production
 — Sequential 1st Order Decay
 ■ Field Data from Site



- [See PCE](#)
- [See TCE](#)
- [See DCE](#)
- [See VC](#)
- [See ETH](#)

Distance From Source (ft.)

Time:

Log Linear

[Replay](#)

[Return to Input](#)

[To All](#)

[To Array](#)

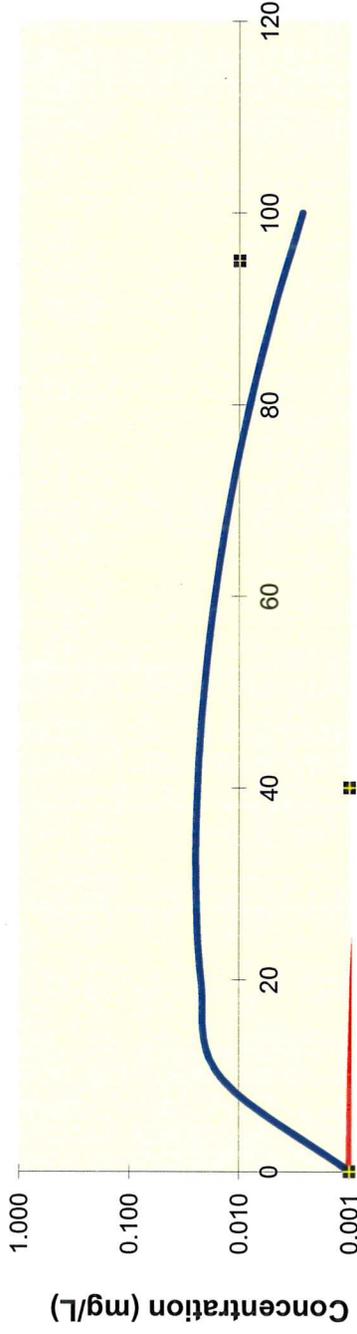
DISSOLVED CHLORINATED SOLVENT CONCENTRATIONS ALONG PLUME CENTERLINE (mg/L) at Z=0

VC	Distance from Source (ft)										
	0	10	20	30	40	50	60	70	80	90	100
No Degradation	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000
Biotransformation	0.0010	0.015	0.022	0.025	0.024	0.021	0.017	0.012	0.008	0.005	0.003

Monitoring Well Locations (ft)	
0	40
95	

Field Data from Site	
0.001	0.010

— No Degradation/Production
 — Sequential 1st Order Decay
 ■ Field Data from Site



- [See PCE](#)
- [See TCE](#)
- [See DCE](#)
- [See VC](#)
- [See ETH](#)

Distance From Source (ft.)

Time:

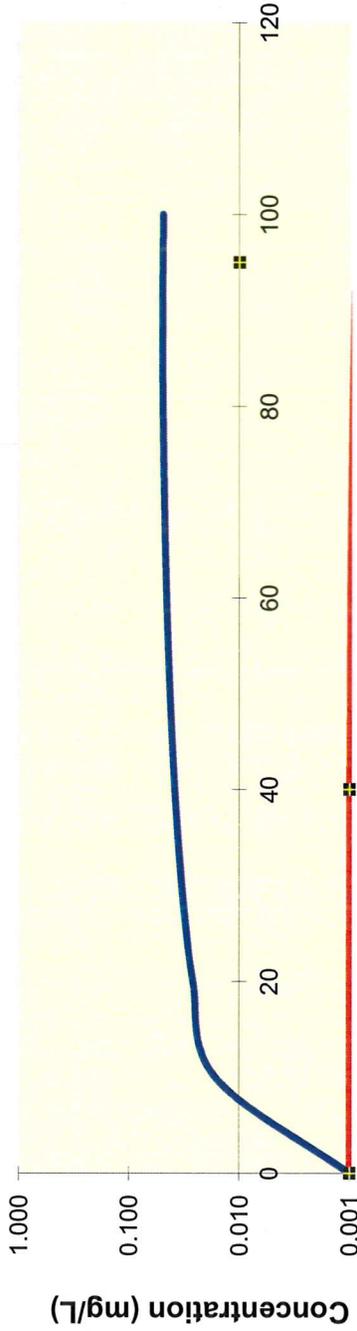
DISSOLVED CHLORINATED SOLVENT CONCENTRATIONS ALONG PLUME CENTERLINE (mg/L) at Z=0

VC	Distance from Source (ft)										
	0	10	20	30	40	50	60	70	80	90	100
No Degradation	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Biotransformation	0.0010	0.016	0.026	0.033	0.038	0.042	0.046	0.048	0.049	0.050	0.049

Monitoring Well Locations (ft)										
0	40	95								

Field Data from Site										
0.001	0.001	0.010								

— No Degradation/Production
 — Sequential 1st Order Decay
 ■ Field Data from Site



- [See PCE](#)
- [See TCE](#)
- [See DCE](#)
- [See VC](#)
- [See ETH](#)

Distance From Source (ft.)

Time:

Log Linear

[Replay](#)

[Return to Input](#)

[To All](#)

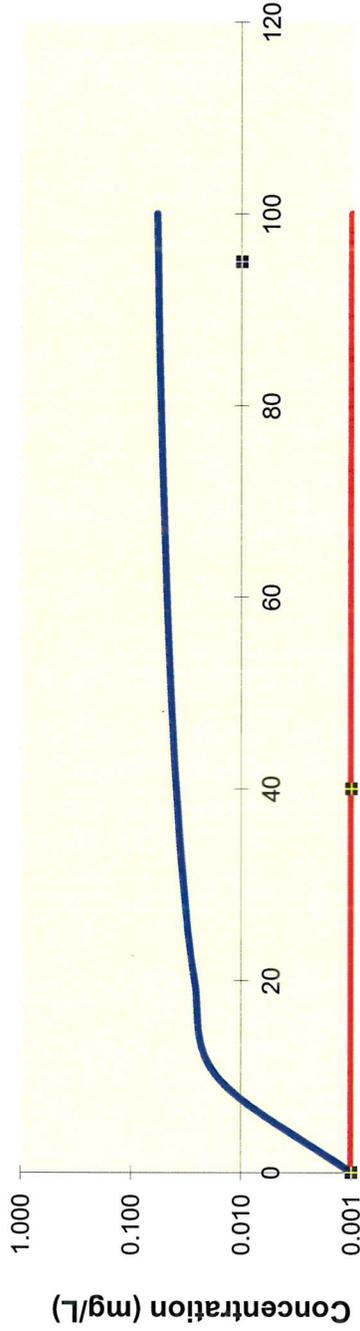
[To Array](#)

DISSOLVED CHLORINATED SOLVENT CONCENTRATIONS ALONG PLUME CENTERLINE (mg/L) at Z=0

VC	Distance from Source (ft)										
	0	10	20	30	40	50	60	70	80	90	100
No Degradation	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Biotransformation	0.0010	0.016	0.026	0.033	0.039	0.044	0.047	0.051	0.054	0.056	0.058

Monitoring Well Locations (ft)										
0	40	95								
Field Data from Site	0.001	0.001	0.010							

— No Degradation/Production
 — Sequential 1st Order Decay
 ■ Field Data from Site



- [See PCE](#)
- [See TCE](#)
- [See DCE](#)
- [See VC](#)
- [See ETH](#)

Distance From Source (ft.)

Time:

Log Linear

[Replay](#)

[Return to Input](#)

[To All](#)

[To Array](#)

APPENDIX D

REGISTERED PROFESSIONAL SUPPORTING DOCUMENTATION

Stephen R. Foley, P.G.
Summary of Hours and Services
Former Imperial Cleaners
HSI Site No. 10690
AMEC Project No. 6305-05-0319

Hours for post-approval Voluntary Remediation Plan implementation

- 1) Review of EPD's November 10, 2011 comments and preparation for additional sampling efforts, oversight of well installation, completion of February 2012 groundwater monitoring event and evaluation of groundwater monitoring data
62.8 hours invoiced between February 4 and February 24, 2012
- 2) Project oversight and evaluation of groundwater monitoring data
6 hours invoiced between February 14 and 28, 2012
- 3) Preparation of May 2012 Semi-Annual VRP Progress Report
18 hours invoiced between April 9 and May 10, 2012
- 4) Completion of July and October 2012 groundwater monitoring events and evaluation of groundwater monitoring data. Preparation of November 2012 Semi-Annual VRP Progress Report
44 hours invoiced between May 21, 2012 and November 7, 2012