January 23, 2015

Mr. Jonathan Callura
Environmental Protection Division
Hazardous Site Response Program
Floyd Tower East, Suite 1066
2 Martin Luther King, Jr. Blvd.
Atlanta, Georgia 30334

Subject: **5th VRP Semi-Annual Progress Report**
Legion Industries, Inc.
Waynesboro, Burke County, Georgia
HSI Site No. 10614
Amec Foster Wheeler Project No. 6121-09-0444

Dear Mr. Callura:

On behalf of Legion Industries, Inc. (Legion), Amec Foster Wheeler Environment & Infrastructure, Inc. (Amec Foster Wheeler) 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 Legion Industries, Inc. 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 Legion Industries, Inc. and Amec Foster Wheeler 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 Steve Foley or Chuck Ferry at (404) 873-4761 or by email at steve.foley@amecfw.com or chuck.ferry@amecfw.com.

Sincerely,

Amec Foster Wheeler Environment & Infrastructure, Inc.

Stephen R. Foley, P.G.
Senior Geologist

Charles T. Ferry, P.E.
Senior Principal Engineer

cc: Mr. Charles A. Brown, Legion Industries, Inc.

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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

STEPHEN ROBERT FOLEY
No. 001057
GEORGIA REGISTERED PROFESSIONAL GEOLOGIST

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5th SEMI-ANNUAL PROGRESS REPORT

VOLUNTARY REMEDIATION PROGRAM

LEGION INDUSTRIES, INC.
370 MILLS ROAD
WAYNESBORO, BURKE COUNTY, GEORGIA
HSI SITE NO. 10614

Prepared for Submission to:

Georgia Environmental Protection Division
Hazardous Waste Management Branch
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Prepared by:

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January 23, 2015

Amec Foster Wheeler Project No. 6121-09-0444

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1.0 PROJECT SUMMARY

The qualifying property (site) is located within Burke County tax parcel 073 022, addressed at 370 Mills Road Waynesboro, Georgia and is listed on the Hazardous Site Inventory (HSI) as Site No. 10614. The site covers a total of 10.54 acres and is developed with a single industrial building which covers approximately 75,000 square feet. The remainder of the site consists of small outbuildings, a gravel parking area and undeveloped grassed areas.

The site was first developed in the 1950s as a manufacturer of agricultural pesticides. In 1971, the facility was converted to the manufacture of commercial grade kitchen ware. This operation continues at the facility.

The EPD listed the site on the HSI due to the detection of a variety of volatile organic compounds (VOCs) in soil and groundwater. Subsequent assessments also identified pesticide compounds in soil and groundwater. The VOCs and pesticides constitute the constituents of concern (COCs) at this site.

The regulated substances identified in groundwater at the site include: 1,1-dichloroethane, 1,1,2-trichloroethane, 1,1-dichloroethene, 1,2,4-trichlorobenzene, 1,2-dichlorobenzene, 1,3-dichlorobenzene, 1,4-dichlorobenzene, benzene, chlorobenzene, cis-1,2-dichlorobenzene, isopropylbenzene, methylene chloride, naphthalene, tetrachloroethene, trans-1,2-dichloroethene, trichloroethene, vinyl chloride, xylenes, 4,4'-DDD, 4,4'-DDE, 4,4'-DDT, alpha-BHC, alpha chlordane, beta-BHC, delta-BHC, dieldrin, endrin, endrin ketone, gamma-BHC, gamma-chlordane and toxaphene.

Three areas of the site were identified where regulated constituents were detected in soil in excess of non-residential risk reduction standards (RRS). One such area was located inside the building, surrounding a former degreaser pit previously used in the 1970s. This area had previously been used as an outdoor pesticide storage area prior to occupancy of the site by Legion and its expansion of the building. Both VOCs and pesticides were detected in soil above the applicable risk reduction standards (RRS) in this area. The other two impacted areas were located just south of the building. Although previous testing in this area identified low concentrations of various VOCs and pesticides, only trichloroethene was detected above the applicable RRS in two borings (SS-8 and SS-12).

Amec Foster Wheeler prepared a Voluntary Remediation Program (VRP) application for the Legion Industries Plant site that was approved by the Georgia Environmental Protection Division (EPD) in a letter dated July 25, 2012. The 1st Semi-Annual VRP Progress Report was submitted on January 25, 2013 and presented additional soil analyses performed during the period.

Amec Foster Wheeler performed remediation of the contaminated soils by excavation and disposal at an off-site facility during the second semi-annual period. A chemical oxidant amendment was added at the base of the excavation before backfilling to aid in the in-situ oxidation of regulated constituents within the uppermost portion of the saturated zone. The soil removal activities were completed as proposed, including the oxidant amendment to the excavation, as described in the 2nd Semi-Annual VRP Progress Report dated July 25, 2013. Further soil remediation is not needed for the continued industrial use of the property. The 3rd and 4th Semi-Annual VRP Progress Reports included the results of groundwater monitoring events, with the addition of six new wells during the 4th event, and were submitted to EPD on January 31, 2014 and July 31, 2014, respectively.

The VIRP proposed continued groundwater assessment and characterization following completion of soil remediation. This report documents efforts during the 5th semi-annual period.

2.0 ADDITIONAL ASSESSMENT ACTIVITIES

The additional assessment activities completed during this fifth period included a semi-annual groundwater monitoring event and an update of the groundwater fate and transport model. Note that the groundwater modeling is an ongoing process and will continue to be refined in upcoming monitoring events.

2.1 GROUNDWATER SAMPLING AND ANALYSIS

The approved voluntary investigation and remediation plan (VIRP) included the sampling of groundwater from each existing monitoring well and one piezometer. Note that due to site-specific hydrogeology three well intervals have been identified on site. Wells MW-1, MW-3, MW-5, MW-6, MW-7, MW-9, MW-10, MW-11, MW-13, MW-15, MW-16, and MW-19 are shallow, wells MW-2, MW-14, MW-17, MW-18, PZ-2, PZ-4, PZ-5, and PZ-6 are intermediate depth and MW-4 and MW-12 are deep wells.

A total of nineteen wells were sampled during the current sampling event, including: MW-1, MW-2, MW-3, MW-4, MW-5, MW-6, MW-7, MW-9, MW-10, MW-11, MW-12, MW-13, MW-14, MW-15, MW-16, MW-17, MW-18, MW-19 and PZ-2. 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 in Appendix B. Well purging generally continued until the water quality parameters stabilized, turbidity was below 10 NTU and at least three well volumes of water had been removed. We note that, due to lower than normal groundwater levels, MW-5, MW-6. MW-9, MW-10, MW-11 and MW-19 went dry prior to three volumes of water being removed. These wells were sampled as soon as groundwater recovery was sufficient to allow sampling. Samples were collected 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. The samples were submitted to Pace Analytical Services, Inc. for testing.

2.2 GROUNDWATER ANALYSIS

All water samples were analyzed for VOCs using EPA Method 8260B and pesticides using EPA Method 8081A. The results of the monitoring event are summarized on the attached Table 1 and

on Figure 2, which include previous groundwater testing data obtained on site. Table 1 also lists the previously approved risk reduction standards (RRS) for each constituent for comparison. Complete laboratory analysis reports for this monitoring event can be found in Appendix A.

The laboratory results obtained during the current event indicated variability in VOC concentrations in groundwater throughout the site with some areas showing general increases and others showing decreases. VOC concentrations in the area within and immediately south of the building, near the impacted soil area that was excavated and treated with an oxidant amendment in 2013 showed notable increases in VOC concentrations in two wells, PZ-2 and MW-19. The highest TCE concentration of 41,600 µg/L was detected in PZ-2. This concentration remains below the historic high of 57,000 detected in 2009. The largest increases in MW-19 were found among the non-chlorinated VOCs, specifically xylene and ethylbenzene, although the vinyl chloride concentration did show a pronounced increase compared with the June 2014 data. The concentrations of chlorinated VOCs in MW-19 remained significantly below those observed in the area immediately south of the building. VOC concentrations in MW-4, MW-13 and MW-18, also located in the assumed source area remained relatively consistent compared to the June 2014 data; although, as with MW-19, the vinyl chloride concentration in MW-18 did increase.

In the western portion of the site, VOC concentrations in MW-1 and MW-7 were generally lower and those in MW-16 were substantially lower than in the previous sampling event. VOCs remained below detection limits in MW-9. VOC concentrations in MW-6 were slightly higher, although they remained below applicable RRS.

In the southern portion of the site, VOCs were not detected in MW-5 and only concentrations of cis-1,2-DCE and TCE were detected in MW-14. These concentrations were well below the RRS. MW-15, a shallow well located adjacent to MW-14 did exhibit an increase in both cis-1,2-DCE and TCE concentrations.

In the eastern portion of the site, VOC concentrations were typically very low and were generally consistent with the June 2014 testing results with the exception of MW-17, which exhibited increased concentrations of TCE and cis-1,2-DCE while VOC concentrations in MW-2 decreased. TCE was detected just above its reporting limit for the first time in MW-3 during the previous monitoring event. This constituent was not detected during the current event, but toluene was, again just above the reporting limit.

VOCs had not been previously detected in the two wells located farthest downgradient, north of the source area (MW-3 and MW-9). A lowered detection limit resulted in the intermittent detection of TCE and toluene at concentrations just above their reporting limits in MW-3, still well below the RRS.

Pesticide concentrations in groundwater remained relatively consistent with June 2014 testing results with some constituent concentrations slightly higher and others slightly lower than during the previous event. No large scale variations in pesticide concentrations were observed.

Pesticides were below detection limits in MW-3, MW-4, MW-5, MW-6, MW-7, MW-9, MW-10, MW-14 and MW-15 during the current sampling event. Pesticides were detected but did not exceed applicable RRS in MW-12. One or more pesticides were detected in excess of applicable RRS in MW-1, MW-2, MW-11, MW-13, MW-16, MW-17, MW-18 and MW-19.

2.3 WATER TABLE MEASUREMENTS

Recent water level measurements have been compared to the previous comprehensive monitoring event in 2009. In general, water levels within the shallow wells have dropped approximately 1.5 to 2 feet while water levels in the intermediate and deep wells have dropped a significant amount, typically 5 to 8 feet. The changes in the water surface elevations have been relatively consistent over the site and have not resulted in significant changes to the groundwater flow direction across the site in either the shallow or intermediate depths as illustrated on Figures 3 and 4.

2.4 CONTAMINANT FATE AND TRANSPORT MODELING

In order to begin to evaluate the risk that regulated constituents in groundwater could impact a potential receptor within 1,000 feet of the downgradient extent of the plume and to estimate the time required to achieve compliance with applicable RRS, Amec Foster Wheeler utilized the BIOCHLOR software to prepare a preliminary model of the fate and transport of the VOCs in groundwater on site. Because pesticides are less mobile in the subsurface environment and more than the VOCs, they were not modeled during this effort. Pesticides typically have a tendency to adsorb to soil particles, limiting their migration potential.

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 have been implemented and monitored natural attenuation (MNA) is the groundwater remedial option. Amec Foster Wheeler ran the BIOCHLOR model for a release of chlorinated solvents as these constituents are what the program is designed to address and because CVOCs also represent the most mobile components of the VOC plume.

The initial release of CVOCs to groundwater was assumed to have been initiated as early as 40 years ago when the kitchen ware manufacturing operation began in the 1970s, but the time frame may change based on future data and model updates. CVOCs are no longer utilized on site and soils impacted above applicable RRS in the source areas have been removed. As such, the release from this time forward is considered to be from a decaying source.

We note that the information submitted herein constitutes a preliminary estimate of groundwater plume migration and degradation. Future monitoring data from the current monitoring well network of 19 locations will be used to further refine, calibrate and verify the model. For modeling purposes, MW-13 has been assumed to represent the source location for the shallow aquifer and PZ-2 the source location for the intermediate depth aquifer. In each case the highest historic concentrations were utilized as the initial contaminant concentrations.

The model was developed by inputting measured parameters such as hydraulic conductivity, hydraulic gradient, soil organic carbon content, and groundwater VOC concentrations within the source area. Four soil samples collected from various depths were tested for total organic carbon content. The results ranged from non-detect at 706 mg/kg to 2,100 mg/kg with the shallowest samples exhibiting the highest carbon content and the deeper samples, the lowest. As such, a value of 2,100 mg/kg was utilized as a representative soil organic carbon content in the shallow aquifer and 720 mg/kg was utilized in the intermediate depth aquifer. Typical literature values for dispersion and biotransformation rates were inputs to the model and were adjusted until the constituent distribution curves reasonably matched the groundwater conditions measured at the downgradient well locations (specifically, all CVOCs below detection limits in MW-9 and current concentrations in MW-2, MW-3, MW-16 and MW-17). Those same input parameters were then utilized in longer duration models to predict concentrations of CVOC constituents over time.

As illustrated on the attached outputs from the BIOCHLOR model, the model predicts that after approximately 40 years (i.e. now) groundwater emanating from the MW-13 and PZ-2 locations closely match conditions currently observed in downgradient wells. A 60-year model run was

utilized. The results of the modeling indicate that the downgradient extent of the shallow plume should not migrate beyond the Legion north property boundary at concentrations in excess of applicable RRS. The intermediate depth plume may slightly exceed the RRS for vinyl chloride at the eastern property boundary but is not predicted to exceed the RRS at a distance of greater than 500 feet from the source area. Model inputs will continue to be adjusted and predictions refined regarding future migration and potential for impact to downgradient receptors with the acquisition of new data during subsequent monitoring events.

A digital copy of the model program, along with the input parameter values inserted, is attached as a compact disk in Appendix C.

3.0 ADJACENT PROPERTY ACCESS

Legion is aware that access to adjacent properties affected by the groundwater contaminant plume above applicable RRS may be necessary to complete the aquifer characterization. As discussed in the previous Progress Report, Helena Chemical Company (Helena), located west of Davis Road, issued a letter dated December 9, 2013 refusing access to its property. Based on the recent results in MW-7 located between David Road and the fence bordering Helena's property, no VOC or pesticide concentrations exceed applicable RRS. Therefore, access to the Helena property for delineation of the plume to the west is not considered necessary.

Groundwater testing results in the eastern portion of the site indicate that there is a reasonable possibility that the shallow and intermediate depth aquifers have been impacted beyond the eastern boundary of the site. The adjacent property is a narrow strip of land which was previously owned by Legion and which is currently owned by the Burke County Development Authority (BCDA). Shallow wells MW-10 and MW-11 are located on the BCDA property and MW-11 exhibited exceedances of applicable RRS for three pesticides only. Farther to the east is a large property owned by Synergy Group, LLC (Synergy, formerly Sunbeam Outdoor Products). The Synergy facility is occupied by a very large building located near the BCDA eastern property boundary, providing little room to install a well east or northeast of MW-11 for delineation purposes. No downgradient receptors are located in the area east-northeast of the site. The pesticides in groundwater on the BCDA parcel are relatively immobile and modeling indicates the chlorinated solvent plume will not migrate a significant distance. For these reasons, in our opinion, it is not practicable to install delineation wells on the Synergy property.

The Waynesboro By-Pass, located within a 200-foot wide right-of-way, borders the site to the north, beyond which is a large tract of undeveloped property owned by Hawkins Gregory and the Cox Joint Trust. The preliminary groundwater fate and transport model indicates that groundwater impacts will not migrate off site to the north, so access to this property is not necessary in our opinion.

4.0 CONCLUSIONS AND RECOMMENDATIONS

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

- Current groundwater monitoring results compared to previous monitoring events indicate some significant fluctuations in concentrations of VOCs in MW-1, MW-18, MW-19 and PZ-2, three of which are located near the assumed source area. Based on the prevalence of TCE degradation products (DCE and vinyl chloride), it appears that reductive dechlorination of the TCE plume is continuing. Of note in this regard are significant elevations in vinyl chloride concentrations in MW-18, MW-19 and PZ-2.

- Further delineation of VOC concentrations south, west and north of the site is not warranted. Further delineation of VOC impacts to the east is impracticable due to the nearby Synergy Group building.

- Pesticide concentrations have remained generally consistent with recent results, either rising or falling only slightly. Due to the nature of pesticides in the subsurface, significant migration is not expected and degradation is unlikely in the short term. However, the removal of source area of impacted soils is predicted to have a long term beneficial effect on the groundwater condition.

- VOC concentrations in well MW-7 have fluctuated and are slightly lower than observed in June 2014. Based on recent data, MW-7 may serve as a delineation well. Pesticides have not been detected in this well.

- Based on the data obtained to date and the preliminary groundwater fate and transport modeling results, migration of the shallow or intermediate depth plumes beyond 1,000 feet from the site boundaries is not predicted to occur. In fact, plume migration above the maximum contaminant level of any VOC more than 200 feet beyond the site boundaries is not calculated to occur within the next 20 years. Consequently, it follows that migration of VOCs to Brier Creek, which is located approximately 2.3 miles north the site, will not occur in the future. These predictions will continue to be updated with future analytical data from the expanded monitoring well network.

5.0 NEXT SUBMITTAL

As required by EPD, semi-annual progress reports must be submitted to EPD every January 25th and July 25th throughout the duration of the project. A report for the sixth semi-annual period will be submitted by July 25, 2015 and will include the following activities:

- Semi-annual groundwater monitoring over the sixth period will be continued. If access to the neighboring property can be obtained, additional delineation wells may be installed on the Synergy Group, LLC property. These results would 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 July 2015.

- The sixth Semi-Annual VRP Progress Report will include trend graphs for the wells with COCs that exceed MCLs.

- A model sensitivity analysis for the migration pathway of each input parameter will be performed in the sixth period.

Table 1 - Cumulative Summary of Groundwater Testing Results

Constituent	Risk Reduction Standards		MW-1							MW-2						MW-3							MW-4					
Date	Type 3	Type 4	4/25/2001	8/3/2001	2/19/2002	12/11/2009	12/31/2013	6/16/2014	12/17/2014	11/29/2001	2/19/2002	12/11/2009	12/30/2013	6/16/2014	12/16/2014	4/25/2001	12/13/2001	2/19/2002	12/11/2009	12/30/2013	6/16/2014	12/16/2014	2/19/2002	3/11/2009	12/10/2009	12/30/2013	6/18/2014	12/17/2014
VOCs, ug/L																												
1,1-Dichloroethane	4,000	46	NT	NT	NT	<5.0	<5.0	<1.0	<10	NT	NT	<5.0	<5.0	<1.0	<1.0	NT	NT	NT	<5.0	<5.0	<1.0	<1.0	NT	<5.0	<5.0	NS	<1.0	<1.0
1,1-Dichloroethene	7	523	NT	NT	<5.0	<5.0	<5.0	**2.2**	<10	<20	<10	<5.0	<5.0	<1.0	<1.0	NT	<5.0	<5.0	<5.0	<5.0	<1.0	<1.0	<5.0	<5.0	<5.0	NS	<1.0	<1.0
1,2-Dichlorobenzene	600	548	NT	NT	NT	<5.0	<5.0	<1.0	<10	NT	NT	<5.0	<5.0	<1.0	<1.0	NT	NT	NT	<5.0	<5.0	<1.0	<1.0	NT	<5.0	<5.0	NS	<1.0	<1.0
1,3-Dichlorobenzene	600	548	NT	NT	NT	<5.0	<5.0	<1.0	<10	NT	NT	<5.0	<5.0	<1.0	<1.0	NT	NT	NT	<5.0	<5.0	<1.0	<1.0	NT	<5.0	<5.0	NS	<1.0	<1.0
1,4-Dichlorobenzene	70	519	NT	NT	NT	<5.0	<5.0	**1.2**	<10	NT	NT	<5.0	<5.0	**3.0**	**1.6**	NT	NT	NT	<5.0	<5.0	<1.0	<1.0	NT	<5.0	<5.0	NS	<1.0	<1.0
1,2,4-Trichlorobenzene	70	5.79	NT	NT	NT	<5.0	<5.0	<1.0	<10	NT	NT	<5.0	<5.0	<1.0	<1.0	NT	NT	NT	<5.0	<5.0	<1.0	<1.0	NT	<5.0	<5.0	NS	<1.0	<1.0
1,1,2-Trichloroethane	5	4.6	NT	NT	NT	<5.0	<5.0	<1.0	<10	NT	NT	<5.0	<5.0	<1.0	<1.0	NT	NT	NT	<5.0	<5.0	<1.0	<1.0	NT	NT	<5.0	NS	<1.0	<1.0
Benzene	5	8.8	NT	NT	NT	<5.0	<5.0	<1.0	<10	NT	NT	<5.0	<5.0	**3.9**	**3.4**	NT	NT	NT	<5.0	<5.0	<1.0	<1.0	NT	<5.0	<5.0	NS	<1.0	<1.0
Chlorobenzene	100	130	NT	NT	NT	<5.0	<5.0	**1.4**	<10	NT	NT	**10**	**8.6**	**11.8**	**10.2**	NT	NT	NT	<5.0	<5.0	<1.0	<1.0	NT	NT	<5.0	NS	<1.0	<1.0
Chloroform	80	3	NT	NT	NT	<5.0	<5.0	<1.0	<10	NT	NT	<5.0	<5.0	<5.0	<5.0	NT	NT	NT	<5.0	<5.0	<1.0	<1.0	NT	NT	<5.0	NS	<1.0	<1.0
Chloromethane			NT	NT	NT	<5.0	<5.0	<1.0	<10	NT	NT	<5.0	<5.0	<5.0	<5.0	NT	NT	NT	<5.0	<5.0	<1.0	<1.0	NT	NT	<5.0	NS	<1.0	<1.0
Cis-1,2-Dichloroethene	70	200	NT	NT	**180**	**820**	**145**	**902**	**709**	**480**	**270**	**430**	**101**	**160**	**77.2**	NT	<5.0	<5.0	<5.0	<5.0	<1.0	<1.0	**15**	<5.0	<5.0	NS	**5.1**	**3.2**
Ethylbenzene	700	29	NT	NT	NT	<5.0	<5.0	<1.0	<10	NT	NT	<5.0	<5.0	**2.5**	**1.4**	NT	NT	NT	<5.0	<5.0	<1.0	<1.0	NT	<5.0	<5.0	NS	<1.0	<1.0
Isopropylbenzene	5	1,000	NT	NT	NT	<5.0	<5.0	<1.0	<10	NT	NT	<5.0	<5.0	<1.0	<1.0	NT	NT	NT	<5.0	<5.0	<1.0	<1.0	NT	<5.0	<5.0	NS	<1.0	<1.0
Isopropyltoluene			NT	NT	NT	<5.0	<5.0	<1.0	<10	NT	NT	<5.0	<5.0	<1.0	**1.6**	NT	NT	NT	<5.0	<5.0	<1.0	<1.0	NT	<5.0	<5.0	NS	<1.0	<1.0
Methylene Chloride	5	0.122	NT	NT	NT	<5.0	<5.0	<2.0	<20	NT	NT	<5.0	<5.0	<2.0	<2.0	NT	NT	NT	<5.0	<5.0	<2.0	<2.0	NT	<5.0	<5.0	NS	<2.0	<2.0
Naphthalene	20	2.4	NT	NT	NT	<5.0	<5.0	<1.0	<10	NT	NT	<5.0	<5.0	**10.5**	<1.0	NT	NT	NT	<5.0	<5.0	<1.0	<1.0	NT	<5.0	<5.0	NS	<1.0	<1.0
Tetrachloroethene	5	98	NT	NT	NT	<5.0	<5.0	**1.2**	<10	NT	NT	<5.0	<5.0	<1.0	<1.0	NT	NT	NT	<5.0	<5.0	<1.0	<1.0	NT	NT	<5.0	NS	<1.0	<1.0
Toluene	1000	5200	NT	NT	NT	<5.0	<5.0	<1.0	<10	NT	NT	<5.0	<5.0	<1.0	<1.0	NT	NT	NT	<5.0	<5.0	<1.0	**1.2**	NT	NT	<5.0	NS	<1.0	<1.0
Trans-1,2-Dichloroethene	100	160	NT	NT	<5.0	<5.0	<5.0	**2.9**	<10	<20	<10	<5.0	<5.0	**1.1**	<1.0	NT	<5.0	<5.0	<5.0	<5.0	<1.0	<1.0	<5.0	<5.0	<5.0	NS	<1.0	<1.0
Trichloroethene	5	38	**350**	**180**	**140**	**860**	**193**	**788**	**612**	**25**	**14**	**5.6**	<5.0	**2.1**	<1.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0	<1.0	**11**	<5.0	<5.0	NS	**7.8**	**1.7**
Vinyl Chloride	2	3.3	NT	NT	<10	**5**	<5.0	**160**	<10	<40	<20	**350**	**107**	**159**	**88.1**	NT	<10	<10	<2.0	<2.0	<1.0	<1.0	<10	<10	<2.0	NS	<1.0	<1.0
Xylenes	10,000	290	NT	NT	NT	<5.0	<5.0	<1.0	<10	NT	NT	**18**	<10	**6.1**	**2.3**	NT	NT	NT	<5.0	<5.0	<2.0	<2.0	NT	NT	<5.0	NS	<2.0	<2.0
Pesticides, ug/L																												
4,4'-DDD	0.1	12	NT	NT	NT	<0.10	<0.05	<0.05	<0.05	NT	NT	<0.10	<1.0	<1.0	<1.2	NT	NT	NT	<0.10	<0.10	<0.05	<0.05	NT	NT	<0.10	NS	<0.05	<0.05
4,4'-DDE	0.1	84	NT	NT	NT	<0.10	<0.05	<0.05	<0.05	NT	NT	<0.10	<1.0	<1.0	<1.2	NT	NT	NT	<0.05	<0.05	<0.05	<0.05	NT	NT	<0.05	NS	<0.05	<0.05
4,4'-DDT	0.1	8.4	NT	NT	NT	<0.10	<0.05	<0.05	<0.05	NT	NT	<0.10	<1.0	<1.0	<1.2	NT	NT	NT	<0.05	<0.05	<0.05	<0.05	NT	NT	<0.05	NS	<0.05	<0.05
Alpha-BHC	0.05	0.45	NT	NT	NT	**0.052**	**<0.05**	<0.05	<0.05	NT	NT	**2**	**6.4**	**5.3**	**7.3**	NT	NT	NT	<0.05	<0.05	<0.05	<0.05	NT	NT	<0.05	NS	<0.05	<0.05
Beta-BHC	0.05	1.6	NT	NT	NT	**0.073**	**0.057**	**0.11**	**0.082**	NT	NT	**0.49**	**1.5**	<1.0	**1.4**	NT	NT	NT	<0.05	<0.05	<0.05	<0.05	NT	NT	<0.05	NS	<0.05	<0.05
Delta-BHC	0.05	1.6	NT	NT	NT	<0.05	<0.05	<0.05	<0.05	NT	NT	**1.8**	**8**	**8.1**	**8.7**	NT	NT	NT	<0.05	<0.05	<0.05	<0.05	NT	NT	<0.05	NS	<0.05	<0.05
Dieldrin	0.1	0.18	NT	NT	NT	<0.10	0.076	**0.12**	**0.058**	NT	NT	**0.5**	<1.0	**1.8**	<1.2	NT	NT	NT	<0.10	<0.10	<0.05	<0.05	NT	NT	<0.10	NS	<0.05	<0.05
Endosulfan II	2	610	NT	NT	NT	<0.10	0.076	<0.05	<0.05	NT	NT	<0.10	<0.10	<0.10	<1.2	NT	NT	NT	<0.10	<0.10	<0.05	<0.05	NT	NT	<0.10	NS	<0.05	<0.05
Endrin	2	31	NT	NT	NT	<0.10	<0.05	<0.05	<0.05	NT	NT	<0.10	<1.0	<1.0	<1.2	NT	NT	NT	<0.10	<0.10	<0.05	<0.05	NT	NT	<0.10	NS	<0.05	<0.05
Endrin Ketone	0.1	ND	NT	NT	NT	**0.13**	**0.1**	**0.24**	**0.17**	NT	NT	**0.31**	<1.0	<1.0	<1.2	NT	NT	NT	<0.10	<0.10	<0.05	<0.05	NT	NT	<0.10	NS	<0.05	<0.05
Gamma-BHC	0.2	2.6	NT	NT	NT	<0.05	<0.05	<0.05	<0.05	NT	NT	**1.1**	**2.3**	**1.9**	**2.5**	NT	NT	NT	<0.05	<0.05	<0.05	<0.05	NT	NT	<0.05	NS	<0.05	<0.05
Chlordane	2	8.2	NT	NT	NT	<0.05	<0.2	<0.2	<0.2	NT	NT	**2.22**	<4.0	<4.0	<5.0	NT	NT	NT	<0.2	<0.2	<0.2	<0.2	NT	NT	<0.05	NS	<0.2	<0.2
Toxaphene	5	2.6	NT	NT	NT	<5.0	<0.2	<0.2	<0.2	NT	NT	<5.0	<4.0	<4.0	<5.0	NT	NT	NT	<0.2	<0.2	<0.2	<0.2	NT	NT	<5.0	NS	<0.2	<0.2
Chlorinated Herbicides			NT	NT	NT	BRL	NT	NT	NT	NT	NT	BRL	NT	NT	NT	NT	NT	NT	BRL	NT	NT	NT	NT	NT	BRL	NS	NT	NT

709 Most recent result exceeds higher of Type 3 or Type 4 RRS

NT - Not Tested

ug/L - micrograms per liter (parts per billion)

Table 1 - Cumulative Summary of Groundwater Testing Results

Constituent	Risk Reduction Standards		MW-5					MW-6					MW-7							MW-8	MW-9				
Date	Type 3	Type 4	2/19/2002	12/11/2009	12/30/2013	6/18/2014	12/18/2014	2/19/2002	3/11/2002	12/11/2009	12/31/2013	12/18/2014	2/19/2002	3/11/2002	12/11/2009	12/31/2013	Dup	6/18/2014	12/18/2014	2/19/2002	2/19/2002	12/11/2009	12/30/2013	6/16/2014	12/18/2014
VOCs, ug/L																									
1,1-Dichloroethane	4,000	46	NT	NT	<5.0	<1.0	<1.0	NT	NT	<5.0	<5.0	<1.0	NT	NT	NS	<5.0	<5.0	<1.0	<1.0	<5.0	NT	<5.0	<5.0	<1.0	<1.0
1,1-Dichloroethene	7	523	<5.0	<5.0	<5.0	<1.0	<1.0	<5.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0	NS	<5.0	<5.0	<1.0	<1.0	<5.0	<5.0	<5.0	<5.0	<1.0	<1.0
1,2-Dichlorobenzene	600	548	NT	NT	<5.0	<1.0	<1.0	NT	NT	<5.0	<5.0	<1.0	NT	NT	NS	<5.0	<5.0	<1.0	<1.0	<5.0	NT	<5.0	<5.0	<1.0	<1.0
1,3-Dichlorobenzene	600	548	NT	NT	<5.0	<1.0	<1.0	NT	NT	<5.0	<5.0	<1.0	NT	NT	NS	<5.0	<5.0	<1.0	<1.0	<5.0	NT	<5.0	<5.0	<1.0	<1.0
1,4-Dichlorobenzene	70	519	NT	NT	<5.0	<1.0	<1.0	NT	NT	<5.0	<5.0	<1.0	NT	NT	NS	<5.0	<5.0	<1.0	<1.0	<5.0	NT	<5.0	<5.0	<1.0	<1.0
1,2,4-Trichlorobenzene	70	5.79	NT	NT	<5.0	<1.0	<1.0	NT	NT	<5.0	<5.0	<1.0	NT	NT	NS	<5.0	<5.0	<1.0	<1.0	<5.0	NT	<5.0	<5.0	<1.0	<1.0
1,1,2-Trichloroethane	5	4.6	NT	<5.0	<5.0	<1.0	<1.0	NT	NT	<5.0	<5.0	<1.0	NT	NT	NS	<5.0	<5.0	<1.0	<1.0	<5.0	NT	<5.0	<5.0	<1.0	<1.0
Benzene	5	8.8	NT	NT	<5.0	<1.0	<1.0	NT	NT	<5.0	<5.0	<1.0	NT	NT	NS	<5.0	<5.0	<1.0	<1.0	<5.0	NT	<5.0	<5.0	<1.0	<1.0
Chlorobenzene	100	130	NT	<5.0	<5.0	<1.0	<1.0	NT	NT	<5.0	<5.0	<1.0	NT	NT	NS	<5.0	<5.0	<1.0	<1.0	<5.0	NT	<5.0	<5.0	<1.0	<1.0
Chloroform	80	3	NT	<5.0	<5.0	<1.0	<1.0	NT	NT	<5.0	<5.0	<1.0	NT	NT	NS	<5.0	<5.0	<1.0	<1.0	<5.0	NT	<5.0	<5.0	<1.0	<1.0
Chloromethane			NT	<5.0	<5.0	<1.0	<1.0	NT	NT	<5.0	<5.0	<1.0	NT	NT	NS	<5.0	<5.0	<1.0	<1.0	<5.0	NT	<5.0	<5.0	<1.0	<1.0
Cis-1,2-Dichloroethene	70	200	<5.0	<5.0	<5.0	<1.0	<1.0	**10**	**6**	<5.0	<5.0	**5.3**	**130**	**110**	NS	**5.5**	**7.6**	**17.4**	**11.5**	<5.0	<5.0	<5.0	<5.0	<1.0	<1.0
Ethylbenzene	700	29	NT	NT	<5.0	<1.0	<1.0	NT	NT	<5.0	<5.0	<1.0	NT	NT	NS	<5.0	<5.0	<1.0	<1.0	<5.0	NT	<5.0	<5.0	<1.0	<1.0
Isopropylbenzene	5	1,000	NT	NT	<5.0	<1.0	<1.0	NT	NT	<5.0	<5.0	<1.0	NT	NT	NS	<5.0	<5.0	<1.0	<1.0	<5.0	NT	<5.0	<5.0	<1.0	<1.0
Isopropyltoluene			NT	NT	<5.0	<1.0	<1.0	NT	NT	<5.0	<5.0	<1.0	NT	NT	NS	<5.0	<5.0	<1.0	<1.0	<5.0	NT	<5.0	<5.0	<1.0	<1.0
Methylene Chloride	5	0.122	NT	NT	<5.0	<2.0	<2.0	NT	NT	<5.0	<5.0	<2.0	NT	NT	NS	<5.0	<5.0	<2.0	<2.0	<5.0	NT	<5.0	<5.0	<2.0	<2.0
Naphthalene	20	2.4	NT	NT	<5.0	<1.0	<1.0	NT	NT	<5.0	<5.0	<1.0	NT	NT	NS	<5.0	<5.0	<1.0	<1.0	<5.0	NT	<5.0	<5.0	<1.0	<1.0
Tetrachloroethene	5	98	NT	<5.0	<5.0	<1.0	<1.0	NT	NT	<5.0	<5.0	<1.0	NT	NT	NS	<5.0	<5.0	<1.0	<1.0	<5.0	NT	<5.0	<5.0	<1.0	<1.0
Toluene	1000	5200	NT	<5.0	<5.0	<1.0	<1.0	NT	NT	<5.0	<5.0	<1.0	NT	NT	NS	<5.0	<5.0	<1.0	<1.0	<5.0	NT	<5.0	<5.0	<1.0	<1.0
Trans-1,2-Dichloroethene	100	160	<5.0	<5.0	<5.0	<1.0	<1.0	<5.0	<5.0	<5.0	<5.0	<1.0	NT	<5.0	NS	<5.0	<5.0	<1.0	<1.0	<5.0	<5.0	<5.0	<5.0	<1.0	<1.0
Trichloroethene	5	38	<5.0	<5.0	<5.0	<1.0	<1.0	**17**	**11**	**14**	<5.0	**4.2**	**59**	66	NS	**7.1**	**8.7**	<1.0	**10.4**	<5.0	<5.0	<5.0	<5.0	<1.0	<1.0
Vinyl Chloride	2	3.3	<10	<2.0	<2.0	<1.0	<1.0	<10	<10	<2.0	<2.0	<1.0	NT	<10	NS	<5.0	<5.0	<1.0	<1.0	<2.0	<10	<2.0	<2.0	<1.0	<1.0
Xylenes	10,000	290	NT	<5.0	<5.0	<2.0	<2.0	NT	NT	<5.0	<5.0	<2.0	NT	NT	NS	<5.0	<5.0	<2.0	<2.0	<5.0	NT	<5.0	<5.0	<2.0	<2.0
Pesticides, ug/L																									
4,4'-DDD	0.1	12	NT	<0.10	<0.10	<0.05	<0.05	NT	NT	<0.10	<0.10	<0.05	NT	NT	NS	<0.10	<0.10	<0.05	<0.05	<0.10	NT	**0.2**	**0.42**	**0.13**	<0.05
4,4'-DDE	0.1	84	NT	<0.05	<0.05	<0.05	<0.05	NT	NT	<0.05	<0.05	<0.05	NT	NT	NS	<0.05	<0.05	<0.05	<0.05	NT	NT	**0.31**	**0.23**	**0.16**	<0.05
4,4'-DDT	0.1	8.4	NT	<0.05	<0.05	<0.05	<0.05	NT	NT	<0.05	<0.05	<0.05	NT	NT	NS	<0.05	<0.05	<0.05	<0.05	NT	NT	<0.05	<0.05	<0.05	<0.05
Alpha-BHC	0.05	0.45	NT	<0.05	<0.05	<0.05	<0.05	NT	NT	<0.05	<0.05	<0.05	NT	NT	NS	<0.05	<0.05	<0.05	<0.05	NT	NT	<0.05	<0.05	<0.05	<0.05
Beta-BHC	0.05	1.6	NT	<0.05	<0.05	<0.05	<0.05	NT	NT	<0.05	<0.05	<0.05	NT	NT	NS	<0.05	<0.05	<0.05	<0.05	NT	NT	<0.05	<0.05	<0.05	<0.05
Delta-BHC	0.05	1.6	NT	<0.05	<0.05	<0.05	<0.05	NT	NT	<0.05	<0.05	<0.05	NT	NT	NS	<0.05	<0.05	<0.05	<0.05	NT	NT	<0.05	<0.05	<0.05	<0.05
Dieldrin	0.1	0.18	NT	<0.10	<0.10	<0.05	<0.05	NT	NT	<0.10	<0.10	<0.05	NT	NT	NS	<0.10	<0.10	<0.05	<0.05	NT	NT	<0.10	<0.10	<0.05	<0.05
Endosulfan II	2	610	NT	<0.10	<0.10	<0.05	<0.05	NT	NT	<0.10	<0.10	<0.05	NT	NT	NS	<0.10	<0.10	<0.05	<0.05	NT	NT	<0.10	<0.10	<0.05	<0.05
Endrin	2	31	NT	<0.05	<0.05	<0.05	<0.05	NT	NT	<0.05	<0.05	<0.05	NT	NT	NS	<0.05	<0.05	<0.05	<0.05	NT	NT	<0.05	<0.05	<0.05	<0.05
Endrin Ketone	0.1	ND	NT	<0.10	<0.10	<0.05	<0.05	NT	NT	<0.10	<0.10	<0.05	NT	NT	NS	<0.10	<0.10	<0.05	<0.05	NT	NT	<0.10	<0.10	<0.05	<0.05
Gamma-BHC	0.2	2.6	NT	<0.05	<0.05	<0.05	<0.05	NT	NT	<0.05	<0.05	<0.05	NT	NT	NS	<0.05	<0.05	<0.05	<0.05	NT	NT	<0.05	<0.05	<0.05	<0.05
Chlordane	2	8.2	NT	<0.05	<0.05	<0.2	<0.2	NT	NT	<0.05	<0.05	<0.2	NT	NT	NS	<0.05	<0.05	<0.2	<0.2	NT	NT	<0.05	<0.05	<0.2	<0.2
Toxaphene	5	2.6	NT	<5.0	<0.2	<0.2	<0.2	NT	NT	<5.0	**0.26**	<0.2	NT	NT	NS	<0.05	<0.05	<0.2	<0.2	NT	NT	<0.05	<0.05	<0.2	<0.2
Chlorinated Herbicides			NT	BRL	NT	NT	NT	NT	NT	BRL	NT		NT	NT	NS	BRL	NT	NT	NT	NT	NT	BRL	NT	NT	NT

709 Most recent result excee

NT - Not Tested

ug/L - micrograms per liter (parts per billion)

Table 1 - Cumulative Summary of Groundwater Testing Results

Constituent	Risk Reduction Standards		MW-10						MW-11					MW-12					MW-13					MW-14			MW-15	
Date	Type 3	Type 4	2/19/2002	3/11/2002	1/28/2010	12/31/2013	6/19/014	12/18/2014	2/19/2002	1/28/2010	12/31/2013	6/18/2014	12/18/2014	1/28/2010	12/30/2010	6/18/2014	DUP	12/16/2014	1/28/2010	12/30/2013	6/18/2014	12/17/2014	DUP	6/19/2014	12/18/2014	DUP	6/18/2014	12/17/2014
VOCs, ug/L																												
1,1-Dichloroethane	4,000	46	NT	NT	<5.0	NS	<1.0	<1.0	NT	<5.0	NS	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	**19**	**7.6**	<20	<20	<50	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	7	523	<5.0	<5.0	<5.0	NS	<1.0	<1.0	<5.0	<5.0	NS	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	**11**	**5.3**	<20	<20	<50	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	600	548	NT	NT	<5.0	NS	<1.0	<1.0	NT	<5.0	NS	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	**12**	**7.8**	<20	<20	<50	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichlorobenzene	600	548	NT	NT	<5.0	NS	<1.0	<1.0	NT	<5.0	NS	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	<5.0	<5.0	<20	<20	<50	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	70	519	NT	NT	<5.0	NS	<1.0	<1.0	NT	<5.0	NS	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	**50**	**42.4**	**47**	**41.1**	<50	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4-Trichlorobenzene	70	5.79	NT	NT	<5.0	NS	<1.0	<1.0	NT	<5.0	NS	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	**51**	**22**	**32**	<20	<50	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	5	4.6	NT	NT	<5.0	NS	<1.0	<1.0	NT	<5.0	NS	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	<5.0	<5.0	<20	<20	<50	<1.0	<1.0	<1.0	<1.0	<1.0
Benzene	5	8.8	NT	NT	<5.0	NS	<1.0	<1.0	NT	<5.0	NS	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	<5.0	**14.6**	<20	<20	<50	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorobenzene	100	130	NT	NT	<5.0	NS	<1.0	<1.0	NT	<5.0	NS	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	**65**	**44.7**	**48.1**	**36.4**	<50	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroform	80	3	NT	NT	<5.0	NS	<1.0	<1.0	NT	<5.0	NS	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	<5.0	<5.0	<20	<20	<20	<1.0	<1.0	<1.0	**1.1**	<1.0
Chloromethane			NT	NT	<5.0	NS	<1.0	<1.0	NT	<5.0	NS	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	<5.0	<5.0	<20	<20	<20	<1.0	<1.0	<1.0	<1.0	<1.0
Cis-1,2-Dichloroethene	70	200	<5.0	<5.0	<5.0	NS	<1.0	<1.0	<5.0	<5.0	NS	<1.0	**6.2**	<5.0	<5.0	**2.1**	**2.4**	**3.4**	**2,900**	**1,260**	**1,120**	**1,710**	**1,850**	**1.67**	**3**	**2.1**	**1.1**	**62**
Ethylbenzene	700	29	NT	NT	<5.0	NS	<1.0	<1.0	NT	<5.0	NS	<1.0	<1.0	<5.0	**8.3**	**12.4**	**13.2**	<1.0	<5.0	<5.0	<20	<20	<50	<1.0	<1.0	<1.0	<1.0	<1.0
Isopropylbenzene	5	1,000	NT	NT	<5.0	NS	<1.0	<1.0	NT	<5.0	NS	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	**7.3**	**5.2**	<20	<20	<50	<1.0	<1.0	<1.0	<1.0	<1.0
Isopropyltoluene			NT	NT	<5.0	NS	<1.0	<1.0	NT	<5.0	NS	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	<5.0	<5.0	<20	<20	<50	<1.0	<1.0	<1.0	<1.0	<1.0
Methylene Chloride	5	0.122	NT	NT	<5.0	NS	<2.0	<2.0	NT	<5.0	NS	<2.0	<2.0	<5.0	<5.0	<2.0	<2.0	<2.0	**5.4**	<5.0	<40	<40	<100	<2.0	<2.0	<2.0	<2.0	<2.0
Naphthalene	20	2.4	NT	NT	<5.0	NS	<1.0	<1.0	NT	<5.0	NS	**1.0**	**3.4**	<5.0	<5.0	<1.0	<1.0	<1.0	<5.0	<5.0	<20	<20	<50	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene	5	98	NT	NT	<5.0	NS	<1.0	<1.0	NT	<5.0	NS	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	**19**	**11.4**	<20	<20	<50	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	1000	5200	NT	NT	<5.0	NS	<1.0	<1.0	NT	<5.0	NS	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	<5.0	<5.0	<20	<20	<50	<1.0	<1.0	<1.0	<1.0	<1.0
Trans-1,2-Dichloroethene	100	160	<5.0	<5.0	<5.0	NS	<1.0	<1.0	<5.0	<5.0	NS	<1.0	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	**6.0**	**32.4**	<20	<20	<50	<1.0	<1.0	<1.0	<1.0	<1.0
Trichloroethene	5	38	**16**	**11**	<5.0	NS	<1.0	**1.0**	<5.0	<5.0	NS	<1.0	**5.7**	<5.0	<5.0	<1.0	<1.0	**21.2**	**8,200**	**4,320**	**2,710**	**4,770**	**4,460**	<1.0	**4**	**2.8**	<1.0	**62.8**
Vinyl Chloride	2	3.3	<10	<10	<2.0	NS	<1.0	<1.0	<10	<2.0	NS	<1.0	<1.0	<2.0	<2.0	<1.0	<1.0	<1.0	**3,300**	**933**	**657**	**516**	**588**	<1.0	<1.0	<1.0	<1.0	<1.0
Xylenes	10,000	290	NT	NT	<5.0	NS	<2.0	<2.0	NT	<5.0	NS	<2.0	<2.0	<5.0	<5.0	<2.0	<2.0	<2.0	**9.8**	<10	<20	<20	<50	<2.0	<2.0	<2.0	<2.0	<2.0
Pesticides, ug/L																												
4,4'-DDD	0.1	12	NT	NT	<0.10	NS	<0.05	<0.05	NT	<0.10	NS	<0.5	**0.54**	<0.10	<0.05	<0.05	<0.05	<0.05	**2.9**	**4.2**	**3.8**	**3.2**	**3.9**	<0.05	<0.05	<0.05	<0.05	<0.05
4,4'-DDE	0.1	84	NT	NT	<0.05	NS	<0.05	<0.05	NT	<0.10	NS	<0.5	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<1.0	**2.3**	<1.0	<1.0	<0.05	<0.05	<0.05	<0.05	<0.05
4,4'-DDT	0.1	8.4	NT	NT	<0.10	NS	<0.05	<0.05	NT	**0.15**	NS	<0.5	<0.2	<0.10	<0.05	<0.05	<0.05	<0.05	**2.4**	**8.4**	**7.6**	**6.9**	**8.4**	<0.05	<0.05	<0.05	<0.05	<0.05
Alpha-BHC	0.05	0.45	NT	NT	<0.05	NS	<0.05	<0.05	NT	**0.33**	NS	**0.79**	**1**	**0.11**	**0.11**	<0.05	<0.05	**0.073**	<0.05	<1.0	<1.0	<1.0	<1.0	<0.05	<0.05	<0.05	<0.05	<0.05
Beta-BHC	0.05	1.6	NT	NT	<0.05	NS	<0.05	<0.05	NT	**0.11**	NS	<0.5	**0.52**	<0.05	<0.05	<0.05	<0.05	<0.05	**3.7**	**4.3**	**4.2**	**3.7**	**4.4**	<0.05	<0.05	<0.05	<0.05	<0.05
Delta-BHC	0.05	1.6	NT	NT	<0.05	NS	<0.05	<0.05	NT	**0.35**	NS	**0.79**	**1.2**	**0.08**	**0.076**	**0.055**	**0.072**	**0.058**	**2.3**	**2.5**	**1.9**	**1.9**	**2.2**	<0.05	<0.05	<0.05	<0.05	<0.05
Dieldrin	0.1	0.18	NT	NT	<0.10	NS	<0.05	<0.05	NT	**0.72**	NS	**1.3**	**0.72**	<0.10	<0.10	<0.10	<0.05	<0.05	<0.05	<1.0	<1.0	<1.0	<1.0	<0.05	<0.05	<0.05	<0.05	<0.05
Endosulfan II	2	610	NT	NT	<0.10	NS	<0.05	<0.05	NT	**0.4**	NS	<0.5	<0.2	<0.10	<0.10	<0.10	<0.05	<0.05	<0.05	<1.0	<1.0	<1.0	<1.0	<0.05	<0.05	<0.05	<0.05	<0.05
Endrin	2	31	NT	NT	<0.05	NS	<0.05	<0.05	NT	<0.05	NS	<0.5	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	**7.3**	**8.0**	**6.0**	**4.5**	**5.6**	<0.05	<0.05	<0.05	<0.05	<0.05
Endrin Ketone	0.1	ND	NT	NT	<0.10	NS	<0.05	<0.05	NT	**2.3**	NS	**3**	**2.4**	<0.10	<0.10	<0.10	<0.05	<0.05	**3.3**	**4.9**	**4.0**	**4.3**	**5.1**	<0.05	<0.05	<0.05	<0.05	<0.05
Gamma-BHC	0.2	2.6	NT	NT	<0.05	NS	<0.05	<0.05	NT	**0.22**	NS	<0.5	**0.42**	**0.25**	**0.29**	**0.13**	**0.16**	**0.2**	**2.0**	**1.8**	**1.5**	**1.5**	**1.5**	<0.05	<0.05	<0.05	<0.05	<0.05
Chlordane	2	8.2	NT	NT	<0.05	NS	<0.2	<0.2	NT	<0.05	NS	<2.0	<0.8	<0.05	<0.05	<0.05	<0.2	<0.2	<0.05	<4.0	<4.0	<4.0	<4.0	<0.2	<0.2	<0.2	<0.2	<0.2
Toxaphene	5	2.6	NT	NT	<5.0	NS	<0.2	<0.2	NT	<5.0	NS	<2.0	<0.8	<5.0	<0.05	<0.05	<0.2	<0.2	**44**	<4.0	<4.0	<4.0	<4.0	<0.2	<0.2	<0.2	<0.2	<0.2
Chlorinated Herbicides			NT	NT	BRL	NS	NT	NT	NT	BRL	NS	NT	NT	BRL	BRL	NT	NT	NT	BRL	NT	NT	NT	NT	NT	NT	NT	NT	NT

709 Most recent result excee

NT - Not Tested

ug/L - micrograms per liter (parts per billion)

Table 1 - Cumulative Summary of Groundwater Testing Results

Constituent	Risk Reduction Standards		MW-16		MW-17		MW-18		MW-19		PZ-2							SW-1	SW-2
Date	Type 3	Type 4	6/18/2014	12/17/2014	6/18/2014	12/16/2014	6/19/2014	12/17/2014	6/19/2014	12/18/2014	8/3/2001	9/25/2001	11/29/2001	12/10/2009	12/30/2013	6/18/2014	12/17/2014	12/11/2009	12/11/2009
VOCs, ug/L																			
1,1-Dichloroethane	4,000	46	<5.0	<1.0	<5.0	<5.0	4	<50	<1.0	<5.0	NT	NT	NT	<5.0	<5.0	<100	<100	<5.0	<5.0
1,1-Dichloroethene	7	523	<5.0	<1.0	<5.0	<5.0	1.7	<50	<1.0	<5.0	NT	NT	<1,000	14	9.7	<100	<100	<5.0	<5.0
1,2-Dichlorobenzene	600	548	<5.0	<1.0	<5.0	<5.0	3.2	<50	<1.0	<5.0	NT	NT	NT	<5.0	<5.0	<100	<100	<5.0	<5.0
1,3-Dichlorobenzene	600	548	<5.0	<1.0	<5.0	<5.0	1	<50	<1.0	<5.0	NT	NT	NT	<5.0	<5.0	<100	<100	<5.0	<5.0
1,4-Dichlorobenzene	70	519	5.9	2.1	<5.0	<5.0	11.5	<50	<1.0	<5.0	NT	NT	NT	<5.0	<5.0	<100	<100	<5.0	<5.0
1,2,4-Trichlorobenzene	70	5.79	<5.0	<1.0	<5.0	<5.0	7.7	<50	<1.0	<5.0	NT	NT	NT	<5.0	<5.0	<100	<100	<5.0	<5.0
1,1,2-Trichloroethane	5	4.6	<5.0	<1.0	<5.0	<5.0	1.6	<50	<1.0	<5.0	NT	NT	NT	21	9.9	<100	<100	<5.0	<5.0
Benzene	5	8.8	10	3.7	<5.0	<5.0	4.1	<50	<1.0	6.3	NT	NT	NT	<5.0	<5.0	<100	<100	<5.0	<5.0
Chlorobenzene	100	130	45.3	11.7	<5.0	<5.0	15.4	<50	<1.0	14.1	NT	NT	NT	6.9	<5.0	<100	<100	<5.0	<5.0
Chloroform	80	3	<5.0	<5.0	<5.0	<5.0	<1.0	<50	<1.0	<5.0	NT	NT	NT	<5.0	<5.0	<100	<100	<5.0	<5.0
Chloromethane			<5.0	<5.0	<5.0	<5.0	<1.0	<50	<1.0	<5.0	NT	NT	NT	<5.0	<5.0	<100	<100	<5.0	<5.0
Cis-1,2-Dichloroethene	70	200	1.4	<1.0	803	993	2,530	1,710	127	205	NT	NT	20,000	8,000	3,660	3,340	5,380	<5.0	<5.0
Ethylbenzene	700	29	657	1.7	<5.0	<5.0	<1.0	<50	311	2,330	NT	NT	NT	<5.0	<5.0	<100	<100	<5.0	<5.0
Isopropylbenzene	5	1,000	<5.0	<1.0	<5.0	<5.0	<1.0	<50	<1.0	<5.0	NT	NT	NT	<5.0	<5.0	<100	<100	<5.0	<5.0
Isopropyltoluene			<5.0	<1.0	<5.0	<5.0	<1.0	<50	<1.0	6.2	NT	NT	NT	<5.0	<5.0	<100	<100	<5.0	<5.0
Methylene Chloride	5	0.122	<5.0	<2.0	<5.0	<5.0	5.4	<250	<1.0	<5.0	NT	NT	NT	<5.0	<5.0	<100	<100	<5.0	<5.0
Naphthalene	20	2.4	174	2.0	6.1	5.4	3.5	5.4	10	63.8	NT	NT	NT	<5.0	<5.0	<100	<100	<5.0	<5.0
Tetrachloroethene	5	98	<5.0	<1.0	<5.0	<5.0	3.5	<50	<1.0	<5.0	NT	NT	NT	130	27.8	<100	<100	<5.0	<5.0
Toluene	1000	5200	4.2	<1.0	<5.0	<5.0	<1.0	<50	12.1	50.6	NT	NT	NT	<5.0	<5.0	<100	<100	<5.0	<5.0
Trans-1,2-Dichloroethene	100	160	<5.0	<1.0	<5.0	<5.0	3.6	<50	<5.0	<5.0	NT	NT	<1,000	17	80.3	<100	<100	<5.0	<5.0
Trichloroethene	5	38	<5.0	<1.0	926	2340	3,220	3,590	62.3	<5.0	7,200	7,800	3,300	57,000	18,700	10,300	41,600	<5.0	<5.0
Vinyl Chloride	2	3.3	46.9	12.5	33	20.1	181	838	5.1	113	NT	NT	6,800	2,200	<1,000	305	1,220	<2.0	<2.0
Xylenes	10,000	290	928	1.1	<10.0	<10.0	2.4	<100	2,120	10,900	NT	NT	NT	5.4	<5.0	<200	<100	<5.0	<5.0
Pesticides, ug/L																			
4,4'-DDD	0.1	12	<0.25	<0.25	<0.10	<0.05	<0.25	<0.2	4.9	7.4	NT	NT	NT	0.13	0.18	1.7	2.2	<0.10	<0.10
4,4'-DDE	0.1	84	<0.25	<0.25	<0.10	<0.05	<0.25	<0.2	<1.0	<1.0	NT	NT	NT	<0.05	0.13	<0.2	<0.25	<0.10	<0.10
4,4'-DDT	0.1	8.4	<0.25	<0.25	<0.10	0.13	<0.25	<0.2	1.6	1.6	NT	NT	NT	<0.1	<0.05	0.5	0.55	<0.10	<0.10
Alpha-BHC	0.05	0.45	<0.25	<0.25	0.21	0.35	0.4	0.23	<1.0	4	NT	NT	NT	0.53	0.2	0.33	0.35	<0.10	<0.10
Beta-BHC	0.05	1.6	0.48	0.48	1.0	1.2	1.9	0.45	1.6	4.9	NT	NT	NT	0.71	0.5	0.41	0.52	<0.05	<0.05
Delta-BHC	0.05	1.6	2.4	1.8	0.45	0.47	1.2	0.45	1.3	8.3	NT	NT	NT	1.1	0.61	0.75	0.78	<0.10	<0.10
Dieldrin	0.1	0.18	<0.25	<0.25	0.22	0.17	<0.25	<0.2	5.4	4.4	NT	NT	NT	<0.1	<0.05	0.52	0.43	<0.10	<0.10
Endosulfan II	2	610	<0.25	<0.25	<0.10	<0.10	<0.25	<0.2	<1.0	<1.0	NT	NT	NT	<0.1	<0.05	<0.2	<0.25	<0.10	<0.10
Endrin	2	31	<0.25	<0.25	0.28	0.4	1.2	0.51	5.1	2.6	NT	NT	NT	<0.1	<0.05	0.28	<0.25	<0.10	<0.10
Endrin Ketone	0.1	ND	<0.25	<0.25	0.26	0.65	1.8	0.73	4.4	5.3	NT	NT	NT	1.3	0.1	0.54	0.44	<0.10	<0.10
Gamma-BHC	0.2	2.6	<0.25	<0.25	<0.10	0.078	1.1	0.3	1.2	4.4	NT	NT	NT	0.83	0.24	0.44	0.41	<0.05	<0.05
Chlordane	2	8.2	<1.0	<1.0	<0.4	<0.2	<1.0	<0.8	<4.0	<4.0	NT	NT	NT	<0.1	<5.0	<5.0	<1.0	<0.05	<0.05
Toxaphene	5	2.6	<1.0	<1.0	<0.4	<0.2	<1.0	<0.8	<4.0	<4.0	NT	NT	NT	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0
Chlorinated Herbicides			BRL	BRL	NT	NT	NT	NT	NT	NT	NT	NT	NT	BRL	NT	NT	NT	BRL	BRL

709 Most recent result excee

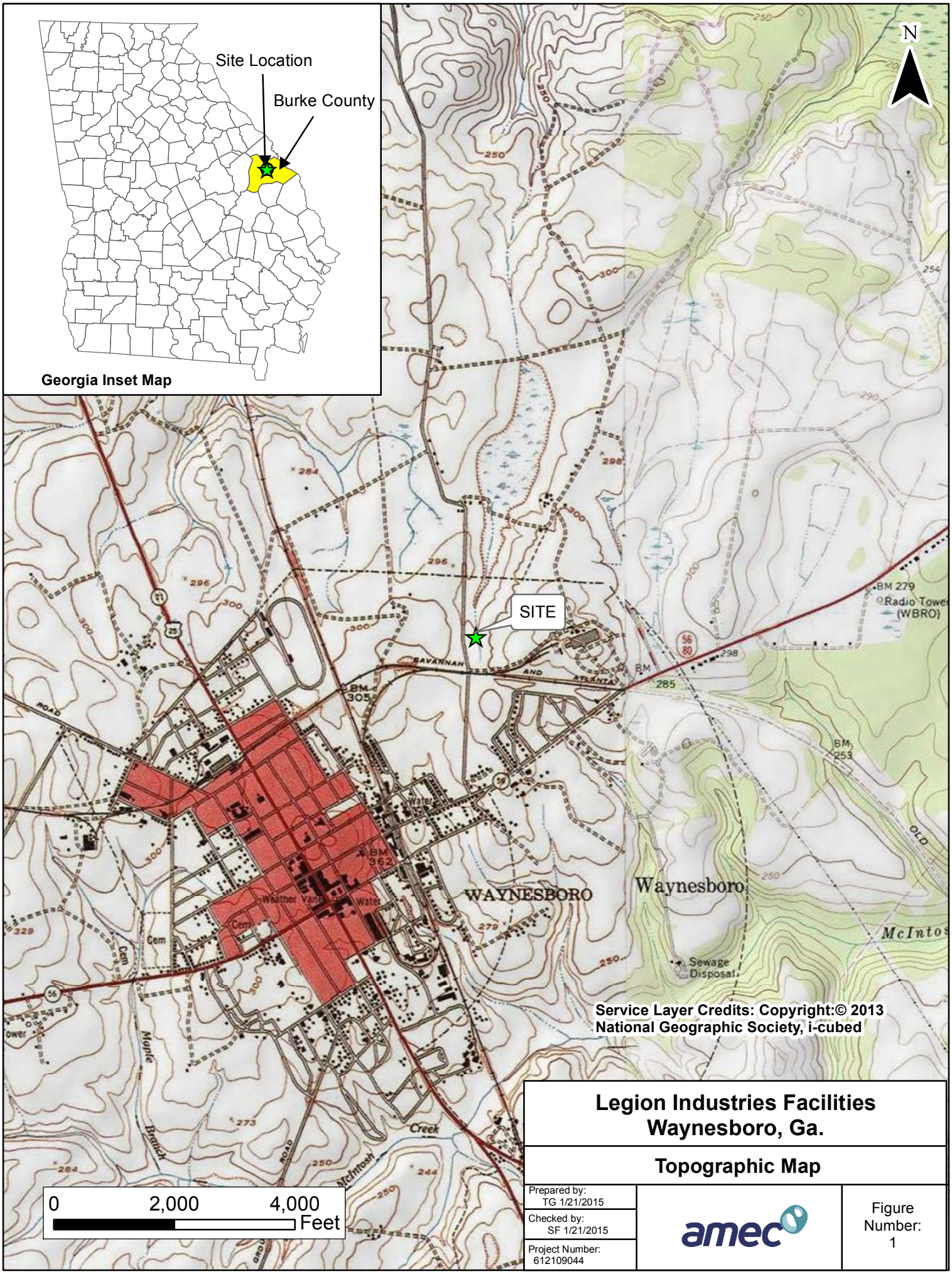
NT - Not Tested

ug/L - micrograms per liter (parts per billion)

Table 2 – Well Construction and Water Elevation Data

Well No.	Top of Casing Elevation, Ft.	Screened Interval, Ft.	Depth to Water, Ft.	Groundwater Elevation, Ft.
MW-1	297.51	3 - 8	6.38	291.13
MW-2 (I)	298.47	16 - 21	16.82	281.65
MW-3	294.85	7 - 12	10.18	284.67
MW-4 (deep)	298.33	56 - 66	35.90	262.43
MW-5	302.92	3 - 13	12.50	290.42
MW-6	299.16	3 - 13	8.58	290.58
MW-7	294.54	3 -13	4.38	290.16
MW-8 (destroyed)	NA	NA	NA	NA
MW-9	294.26	3 - 13	10.02	284.24
MW-10	301.04	15 – 25	13.65	287.39
MW-11	299.86	6 - 16	11.24	288.62
MW-12 (deep)	299.89	54 - 64	36.85	263.04
MW-13	298.64	3 - 13	7.75	290.89
MW-14 (I)	298.99	17 - 22	14.88	284.11
MW-15	298.79	3 - 8	8.04	290.75
MW-16	297.25	3 - 8	7.25	290.00
MW-17 (I)	297.83	20-25	11.45	286.38
MW-18 (I)	298.71	20-25	13.95	284.76
MW-19	297.12	5-10	6.38	290.74
PZ-2 (I)	298.82	30 – 35	9.82	289.00
PZ-4 (I)	292.60	19 - 24	10.57	282.03
PZ-5 (I)	293.54	17 – 22	11.60	281.94
PZ-6 (I)	295.06	17 – 22	5.05	290.01

(I) – Intermediate depth well screen

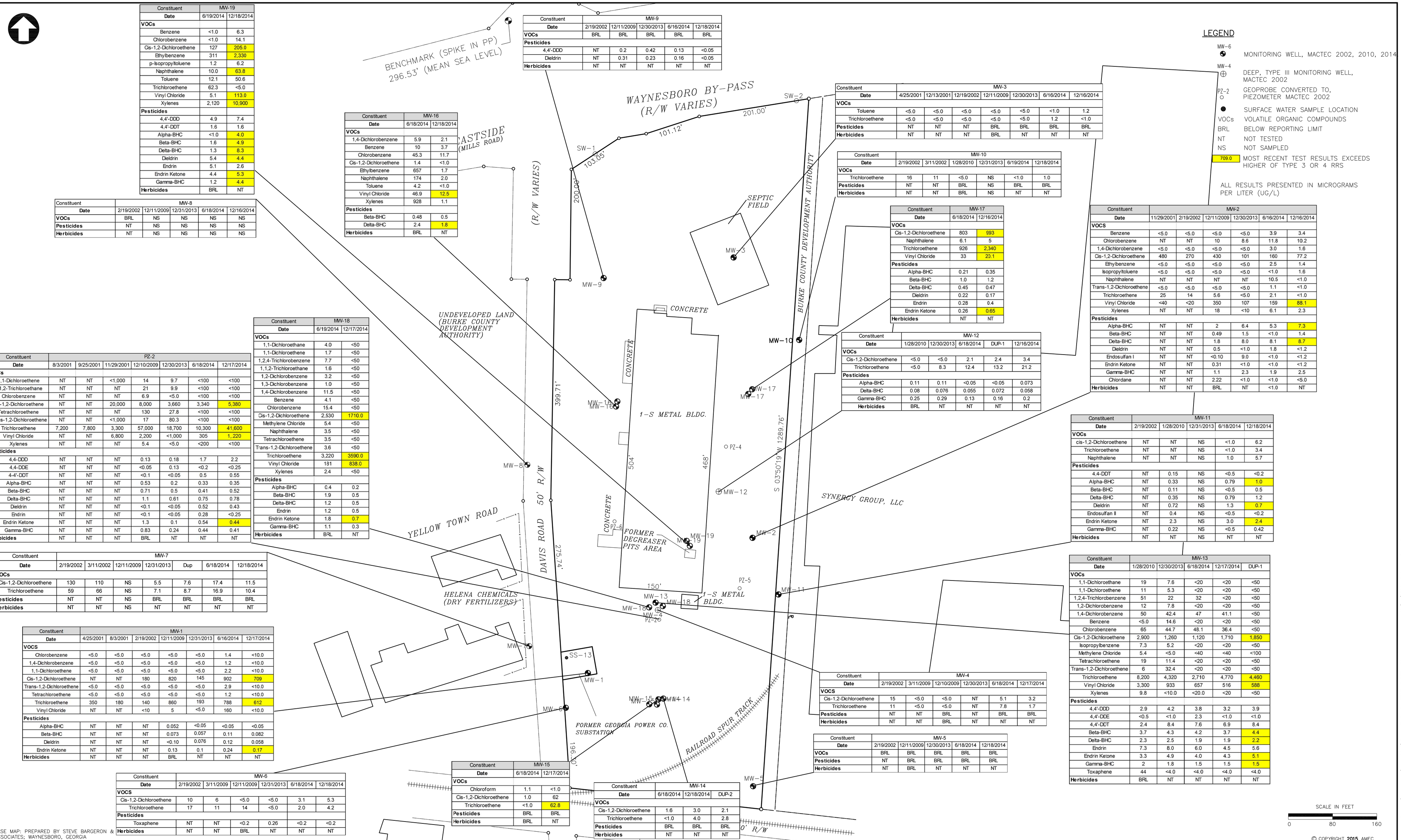


Legion Industries Facilities
Waynesboro, Ga.

Topographic Map

Prepared by: TG 1/21/2015	amec	Figure Number: 1
Checked by: SF 1/21/2015		
Project Number: 612109044		

Document Path: G:\Legion Industries\mxd\Topo.mxd



LEGEND

- MW-6 — MONITORING WELL, MACTEC 2002, 2010, 2014
- MW-4 — DEEP, TYPE III MONITORING WELL, MACTEC 2002
- PZ-2 — GEOPROBE CONVERTED TO, PIEZOMETER MACTEC 2002
- SURFACE WATER SAMPLE LOCATION
- VOCs — VOLATILE ORGANIC COMPOUNDS
- BRL — BELOW REPORTING LIMIT
- NT — NOT TESTED
- NS — NOT SAMPLED
- 709.0 — MOST RECENT TEST RESULTS EXCEEDS HIGHER OF TYPE 3 OR 4 RRS

ALL RESULTS PRESENTED IN MICROGRAMS PER LITER (UG/L)

Constituent	MW-19	
Date	6/19/2014	12/18/2014
VOCs		
Benzene	<1.0	6.3
Chlorobenzene	<1.0	14.1
Cis-1,2-Dichloroethene	127	205.0
Ethylbenzene	311	2,330
p-Isopropyltoluene	1.2	6.2
Naphthalene	10.0	63.8
Toluene	12.1	50.6
Trichloroethene	62.3	<5.0
Vinyl Chloride	5.1	113.0
Xylenes	2,120	10,900
Pesticides		
4,4'-DDD	4.9	7.4
4,4'-DDT	1.6	1.6
Alpha-BHC	<1.0	4.0
Beta-BHC	1.6	4.9
Delta-BHC	1.3	8.3
Dieldrin	5.4	4.4
Endrin	5.1	2.6
Endrin Ketone	4.4	5.3
Gamma-BHC	1.2	4.4
Herbicides	BRL	NT

Constituent	MW-9				
Date	2/19/2002	12/11/2009	12/30/2013	6/16/2014	12/18/2014
VOCs	BRL	BRL	BRL	BRL	BRL
Pesticides					
4,4'-DDD	NT	0.2	0.42	0.13	<0.05
Dieldrin	NT	0.31	0.23	0.16	<0.05
Herbicides	NT	NT	NT	NT	NT

Constituent	MW-16	
Date	6/18/2014	12/18/2014
VOCs		
1,4-Dichlorobenzene	5.9	2.1
Benzene	10	3.7
Chlorobenzene	45.3	11.7
Cis-1,2-Dichloroethene	1.4	<1.0
Ethylbenzene	657	1.7
Naphthalene	174	2.0
Toluene	4.2	<1.0
Vinyl Chloride	46.9	12.5
Xylenes	928	1.1
Pesticides		
Beta-BHC	0.48	0.5
Delta-BHC	2.4	1.8
Herbicides	BRL	NT

Constituent	MW-8				
Date	2/19/2002	12/11/2009	12/31/2013	6/18/2014	12/16/2014
VOCs	BRL	NS	NS	NS	NS
Pesticides	NT	NS	NS	NS	NS
Herbicides	NT	NS	NS	NS	NS

Constituent	MW-3						
Date	4/25/2001	12/13/2001	12/19/2002	12/11/2009	12/30/2013	6/16/2014	12/16/2014
VOCs							
Toluene	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0	1.2
Trichloroethene	<5.0	<5.0	<5.0	<5.0	<5.0	1.2	<1.0
Pesticides	NT	NT	NT	BRL	BRL	BRL	BRL
Herbicides	NT	NT	NT	BRL	NT	NT	NT

Constituent	MW-10					
Date	2/19/2002	3/11/2002	1/28/2010	12/31/2013	6/19/2014	12/18/2014
VOCs						
Trichloroethene	16	11	<5.0	NS	<1.0	1.0
Pesticides	NT	NT	BRL	NS	BRL	BRL
Herbicides	NT	NT	BRL	NS	NT	NT

Constituent	MW-17	
Date	6/18/2014	12/16/2014
VOCs		
Cis-1,2-Dichloroethene	803	593
Naphthalene	6.1	5
Trichloroethene	926	2,340
Vinyl Chloride	33	23.1
Pesticides		
Alpha-BHC	0.21	0.35
Beta-BHC	1.0	1.2
Delta-BHC	0.45	0.47
Dieldrin	0.22	0.17
Endrin	0.28	0.4
Endrin Ketone	0.26	0.65
Herbicides	NT	NT

Constituent	MW-2					
Date	11/29/2001	2/19/2002	12/11/2009	12/30/2013	6/16/2014	12/16/2014
VOCS						
Benzene	<5.0	<5.0	<5.0	<5.0	3.9	3.4
Chlorobenzene	NT	NT	10	8.6	11.8	10.2
1,4-Dichlorobenzene	<5.0	<5.0	<5.0	<5.0	3.0	1.6
Cis-1,2-Dichloroethene	480	270	430	101	160	77.2
Ethylbenzene	<5.0	<5.0	<5.0	<5.0	2.5	1.4
Isopropyltoluene	<5.0	<5.0	<5.0	<5.0	<1.0	1.6
Naphthalene	NT	NT	NT	NT	10.5	<1.0
Trans-1,2-Dichloroethene	<5.0	<5.0	<5.0	<5.0	1.1	<1.0
Trichloroethene	25	14	5.6	<5.0	2.1	<1.0
Vinyl Chloride	<40	<20	350	107	159	88.1
Xylenes	NT	NT	18	<10	6.1	2.3
Pesticides						
Alpha-BHC	NT	NT	2	6.4	5.3	7.3
Beta-BHC	NT	NT	0.49	1.5	<1.0	1.4
Delta-BHC	NT	NT	1.8	8.0	8.1	8.7
Dieldrin	NT	NT	0.5	<1.0	1.8	<1.2
Endosulfan I	NT	NT	<0.10	9.0	<1.0	<1.2
Endrin Ketone	NT	NT	0.31	<1.0	<1.0	<1.2
Gamma-BHC	NT	NT	1.1	2.3	1.9	2.5
Chlordane	NT	NT	2.22	<1.0	<1.0	<5.0
Herbicides	NT	NT	BRL	NT	<1.0	NT

Constituent	MW-12				
Date	1/28/2010	12/30/2013	6/18/2014	DUP-1	12/16/2014
VOCs					
Cis-1,2-Dichloroethene	<5.0	<5.0	2.1	2.4	3.4
Trichloroethene	<5.0	8.3	12.4	13.2	21.2
Pesticides					
Alpha-BHC	0.11	0.11	<0.05	<0.05	0.073
Delta-BHC	0.08	0.076	0.055	0.072	0.058
Gamma-BHC	0.25	0.29	0.13	0.16	0.2
Herbicides	BRL	NT	NT	NT	NT

Constituent	MW-11				
Date	2/19/2002	1/28/2010	12/31/2013	6/18/2014	12/18/2014
VOCs					
cis-1,2-Dichloroethene	NT	NT	NS	<1.0	6.2
Trichloroethene	NT	NT	NS	<1.0	3.4
Naphthalene	NT	NT	NS	1.0	5.7
Pesticides					
4,4-DDT	NT	0.15	NS	<0.5	<0.2
Alpha-BHC	NT	0.33	NS	0.79	1.0
Beta-BHC	NT	0.11	NS	<0.5	0.5
Delta-BHC	NT	0.35	NS	0.79	1.2
Dieldrin	NT	0.72	NS	1.3	0.7
Endosulfan II	NT	0.4	NS	<0.5	<0.2
Endrin Ketone	NT	2.3	NS	3.0	2.4
Gamma-BHC	NT	0.22	NS	<0.5	0.42
Herbicides	NT	NT	NS	NT	NT

Constituent	MW-18	
Date	6/19/2014	12/17/2014
VOCs		
1,1-Dichloroethane	4.0	<50
1,1-Dichloroethene	1.7	<50
1,2,4-Trichlorobenzene	7.7	<50
1,1,2-Trichloroethane	1.6	<50
1,2-Dichlorobenzene	3.2	<50
1,3-Dichlorobenzene	1.0	<50
1,4-Dichlorobenzene	11.5	<50
Benzene	4.1	<50
Chlorobenzene	15.4	<50
Cis-1,2-Dichloroethene	2,530	1710.0
Methylene Chloride	5.4	<50
Naphthalene	3.5	<50
Tetrachloroethene	3.5	<50
Trans-1,2-Dichloroethene	3.6	<50
Trichloroethene	3,220	3590.0
Vinyl Chloride	181	838.0
Xylenes	2.4	<50
Pesticides		
Alpha-BHC	0.4	0.2
Beta-BHC	1.9	0.5
Delta-BHC	1.2	0.5
Endrin	1.2	0.5
Endrin Ketone	1.8	0.7
Gamma-BHC	1.1	0.3
Herbicides	BRL	NT

Constituent	PZ-2						
Date	8/3/2001	9/25/2001	11/29/2001	12/10/2009	12/30/2013	6/18/2014	12/17/2014
VOCs							
1,1-Dichloroethene	NT	NT	<1,000	14	9.7	<100	<100
1,1,2-Trichloroethane	NT	NT	NT	21	9.9	<100	<100
Chlorobenzene	NT	NT	NT	6.9	<5.0	<100	<100
Cis-1,2-Dichloroethene	NT	NT	20,000	8,000	3,660	3,340	5,380
Tetrachloroethene	NT	NT	NT	130	27.8	<100	<100
Trans-1,2-Dichloroethene	NT	NT	<1,000	17	80.3	<100	<100
Trichloroethene	7,200	7,800	3,300	57,000	18,700	10,300	41,600
Vinyl Chloride	NT	NT	6,800	2,200	<1,000	305	1,220
Xylenes	NT	NT	NT	5.4	<5.0	<200	<100
Pesticides							
4,4-DDD	NT	NT	NT	0.13	0.18	1.7	2.2
4,4-DDE	NT	NT	NT	<0.05	0.13	<0.2	<0.25
4-4'-DDT	NT	NT	NT	<0.1	<0.05	0.5	0.55
Alpha-BHC	NT	NT	NT	0.53	0.2	0.33	0.35
Beta-BHC	NT	NT	NT	0.71	0.5	0.41	0.52
Delta-BHC	NT	NT	NT	1.1	0.61	0.75	0.78
Dieldrin	NT	NT	NT	<0.1	<0.05	0.52	0.43
Endrin	NT	NT	NT	<0.1	<0.05	0.28	<0.25
Endrin Ketone	NT	NT	NT	1.3	0.1	0.54	0.44
Gamma-BHC	NT	NT	NT	0.83	0.24	0.44	0.41
Herbicides	NT	NT	NT	BRL	NT	NT	NT

Constituent	MW-13				
Date	1/28/2010	12/30/2013	6/18/2014	12/17/2014	DUP-1
VOCs					
1,1-Dichloroethane	19	7.6	<20	<20	<50
1,1-Dichloroethene	11	5.3	<20	<20	<50
1,2,4-Trichlorobenzene	51	22	32	<20	<50
1,2-Dichlorobenzene	12	7.8	<20	<20	<50
1,4-Dichlorobenzene	50	42.4	47	41.1	<50
Benzene	<5.0	14.6	<20	<20	<50
Chlorobenzene	65	44.7	48.1	36.4	<50
Cis-1,2-Dichloroethene	2,900	1,260	1,120	1,710	1,850
Isopropylbenzene	7.3	5.2	<20	<20	<50
Methylene Chloride	5.4	<5.0	<40	<40	<100
Tetrachloroethene	19	11.4	<20	<20	<50
Trans-1,2-Dichloroethene	6	32.4	<20	<20	<50
Trichloroethene	8,200	4,320	2,710	4,770	4,460
Vinyl Chloride	3,300	933	657	516	588
Xylenes	9.8	<10.0	<20.0	<20	<50
Pesticides					
4,4'-DDD	2.9	4.2	3.8	3.2	3.9
4,4'-DDE	<0.5	<1.0	2.3	<1.0	<1.0
4,4'-DDT	2.4	8.4	7.6	6.9	8.4
Beta-BHC	3.7	4.3	4.2	3.7	4.4
Delta-BHC	2.3	2.5	1.9	1.9	2.2
Endrin	7.3	8.0	6.0	4.5	5.6
Endrin Ketone	3.3	4.9	4.0	4.3	5.1
Gamma-BHC	2	1.8	1.5	1.5	1.5
Toxaphene	44	<4.0	<4.0	<4.0	<4.0
Herbicides	BRL	NT	NT	NT	NT

Constituent	MW-7						
Date	2/19/2002	3/11/2002	12/11/2009	12/31/2013	Dup	6/18/2014	12/18/2014
VOCs							
Cis-1,2-Dichloroethene	130	110	NS	5.5	7.6	17.4	11.5
Trichloroethene	59	66	NS	7.1	8.7	16.9	10.4
Pesticides	NT	NT	NS	BRL	BRL	BRL	BRL
Herbicides	NT	NT	NS	NT	NT	NT	NT

Constituent	MW-1						
Date	4/25/2001	8/3/2001	2/19/2002	12/11/2009	12/31/2013	6/16/2014	12/17/2014
VOCS							
Chlorobenzene	<5.0	<5.0	<5.0	<5.0	<5.0	1.4	<10.0
1,4-Dichlorobenzene	<5.0	<5.0	<5.0	<5.0	<5.0	1.2	<10.0
1,1-Dichloroethene	<5.0	<5.0	<5.0	<5.0	<5.0	2.2	<10.0
Cis-1,2-Dichloroethene	NT	NT	180	820	145	902	709
Trans-1,2-Dichloroethene	<5.0	<5.0	<5.0	<5.0	<5.0	2.9	<10.0
Tetrachloroethene	<5.0	<5.0	<5.0	<5.0	<5.0	1.2	<10.0
Trichloroethene	350	180	140	860	193	788	612
Vinyl Chloride	NT	NT	<10	5	<5.0	160	<10.0
Pesticides							
Alpha-BHC	NT	NT	NT	0.052	<0.05	<0.05	<0.05
Beta-BHC	NT	NT	NT	0.073	0.057	0.11	0.082
Dieldrin	NT	NT	NT	<0.10	0.076	0.12	0.058
Endrin Ketone	NT	NT	NT	0.13	0.1	0.24	0.17
Herbicides	NT	NT	NT	BRL	NT	NT	NT

Constituent	MW-4					
Date	2/19/2002	3/11/2009	12/10/2009	12/30/2013	6/18/2014	12/17/2014
VOCS						
Cis-1,2-Dichloroethene	15	<5.0	<5.0	NT	5.1	3.2
Trichloroethene	11	<5.0	<5.0	NT	7.8	1.7
Pesticides	NT	NT	BRL	NT	BRL	BRL
Herbicides	NT	NT	BRL	NT	NT	NT

Constituent	MW-5				
Date	2/19/2002	12/11/2009	12/30/2013	6/18/2014	12/18/2014
VOCs	BRL	BRL	BRL	BRL	BRL
Pesticides	NT	BRL	BRL	BRL	BRL
Herbicides	NT	BRL	NT	NT	NT

Constituent	MW-6					
Date	2/19/2002	3/11/2009	12/11/2009	12/31/2013	6/18/2014	12/18/2014
VOCS						
Cis-1,2-Dichloroethene	10	6	<5.0	<5.0	3.1	5.3
Trichloroethene	17	11	14	<5.0	2.0	4.2
Pesticides						
Toxaphene	NT	NT	<0.2	0.26	<0.2	<0.2
Herbicides	NT	NT	BRL	NT	NT	NT

Constituent	MW-15	
Date	6/18/2014	12/17/2014
VOCs		
Chloroform	1.1	<1.0
Cis-1,2-Dichloroethene	1.0	62
Trichloroethene	<1.0	62.8
Pesticides	BRL	BRL
Herbicides	BRL	NT

Constituent	MW-14		
Date	6/18/2014	12/18/2014	DUP-2
VOCs			
Cis-1,2-Dichloroethene	1.6	3.0	2.1
Trichloroethene	<1.0	4.0	2.8
Pesticides	BRL	BRL	BRL
Herbicides	NT	NT	NT

BASE MAP: PREPARED BY STEVE BARGERON & ASSOCIATES; WAYNESBORO, GEORGIA

SCALE IN FEET
0 80 160

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REV	DATE	BY	SUB	APP	DESCRIPTION	REV	DATE	BY	SUB	APP	DESCRIPTION

DESIGNED S. FOLEY
DRAWN T. GLADSTONE
CHECKED S. FOLEY
IN CHARGE C. FERRY
DATE 1/6/2015

LEGION INDUSTRIES FACILITY

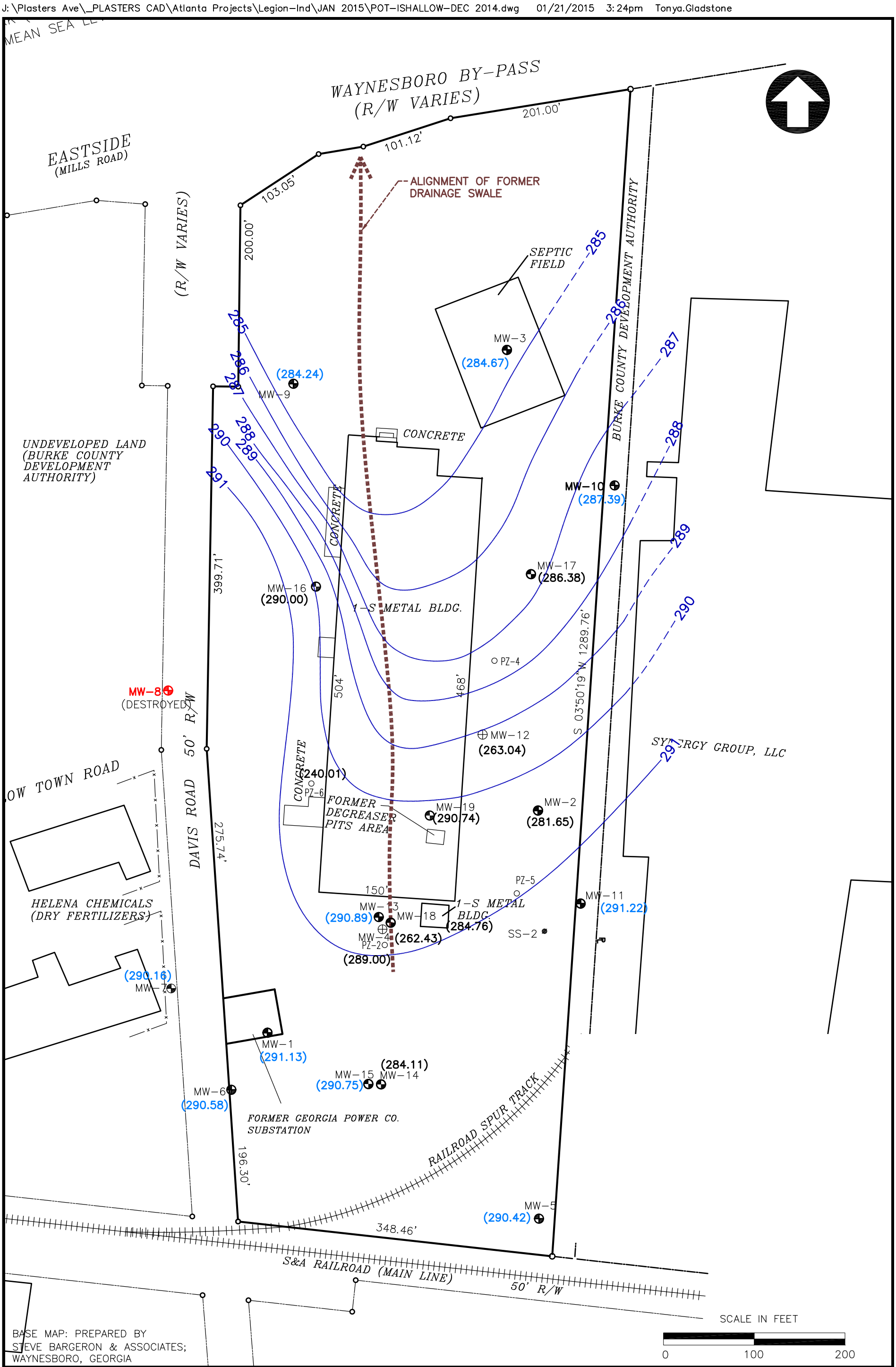
WAYNESBORO, GEORGIA

AMEC Environment & Infrastructure, Inc.
1075 BIG SHANTY ROAD, NW, SUITE 100
KENNESAW, GEORGIA 30144 (770) 421-3400

CUMULATIVE SUMMARY OF GROUNDWATER TESTING RESULTS

SCALE: AS SHOWN
CONTRACT: 6121-09-0444
DWG. NO.: FIG 2
REV
PAGE NO

J:\Plasters Ave_PLASTERS CAD\Atlanta Projects\Legion-Ind\JAN 2015\CUMULATIVE GW TESTING RESULTS.dwg - Layout1 01/21/2015 5:01pm Tonya.Gladstone



LEGION INDUSTRIES FACILITY
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POTENTIOMETRIC SURFACE MAP
SHALLOW DEPTH
DECEMBER 16, 2014

JOB NO. 6121-09-0444 FIGURE 3

PREPARED BY/DATE TG 1/19/2015 CHECKED BY/DATE SF 1/19/2015

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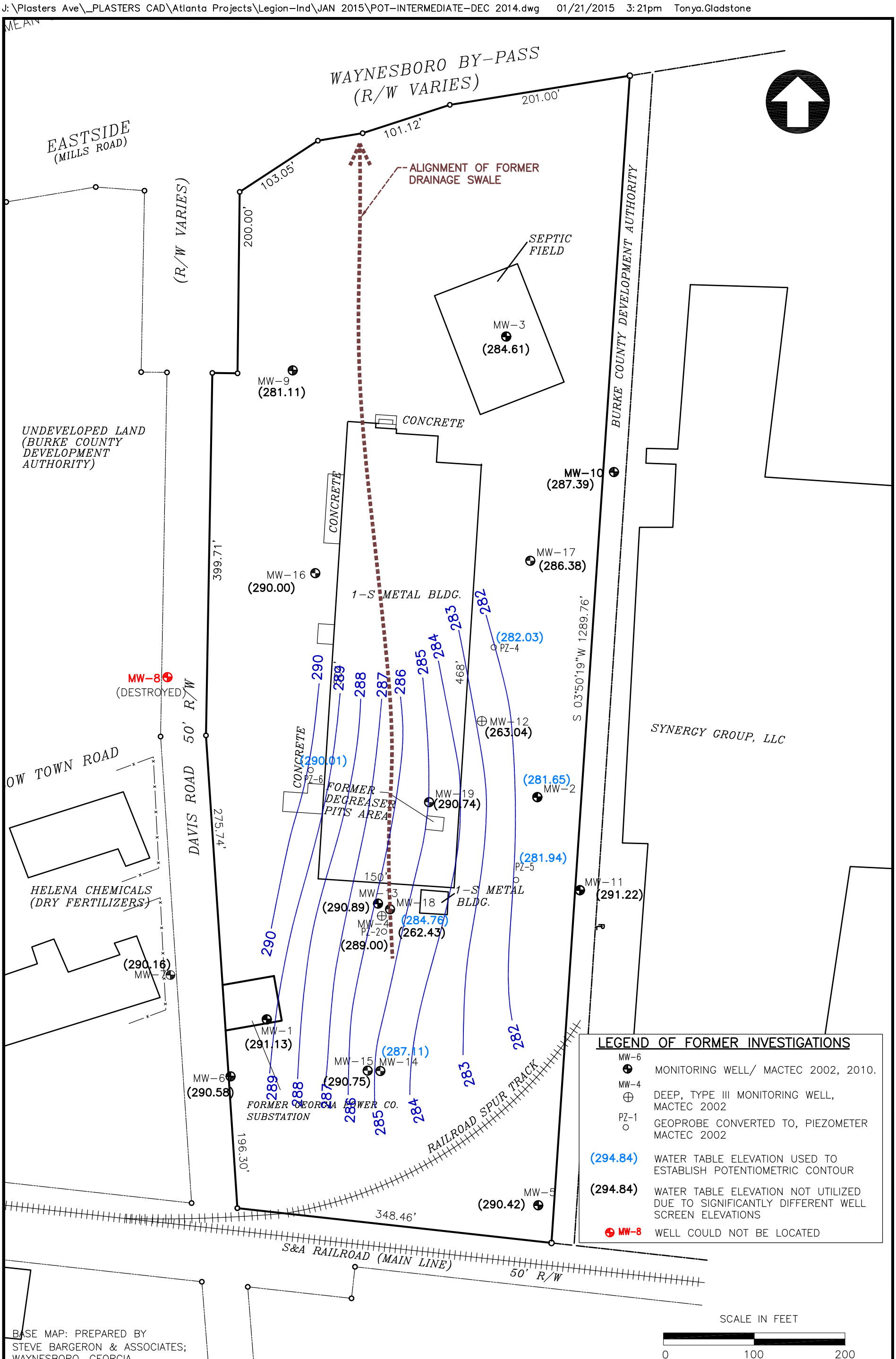

BASE MAP: PREPARED BY STEVE BARGERON & ASSOCIATES; WAYNESBORO, GEORGIA

LEGION INDUSTRIES FACILITY
WAYNESBORO, GEORGIA

AMEC Environment & Infrastructure, Inc.
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KENNESAW, GEORGIA 30144 (770) 421-3400

POTENTIOMETRIC SURFACE MAP
INTERMEDIATE DEPTH
DECEMBER 16, 2014

JOB NO. 6121-09-0444 FIGURE 4

PREPARED BY/DATE TG 1/19/2015 CHECKED BY/DATE SF 1/19/2015

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

December 29, 2014

Steve Foley
AMEC Environment & Infrastruct
396 Plasters Avenue
Atlanta, GA 30324

RE: Project: Legion Industries 6121-08-0484
Pace Project No.: 92230159

Dear Steve Foley:
Enclosed are the analytical results for sample(s) received by the laboratory on December 17, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kevin Godwin
kevin.godwin@pacelabs.com
Project Manager

Enclosures

cc: Chuck Ferry, AMEC Environment & Infrastruct

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CERTIFICATIONS

Project:	Legion Industries 6121-08-0484
Pace Project No.:	92230159

Charlotte Certification IDs

9800 Kincey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
West Virginia Certification #: 357
Virginia/VELAP Certification #: 460221

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SAMPLE ANALYTE COUNT

Project: Legion Industries 6121-08-0484
Pace Project No.: 92230159

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92230159001	**MW-2**	EPA 8081	RES	24	PASI-C
		EPA 8260	GAW	63	PASI-C
92230159002	**MW-17**	EPA 8081	RES	24	PASI-C
		EPA 8260	GAW	63	PASI-C
92230159003	**MW-3**	EPA 8081	RES	24	PASI-C
		EPA 8260	GAW	63	PASI-C
92230159004	**MW-12**	EPA 8081	RES	24	PASI-C
		EPA 8260	GAW	63	PASI-C
92230159005	**Trip Blank**	EPA 8260	GAW	63	PASI-C

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SUMMARY OF DETECTION

Project: Legion Industries 6121-08-0484
Pace Project No.: 92230159

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92230159001	**MW-2**					
EPA 8081	alpha-BHC	7.3	ug/L	1.2	12/24/14 17:42	
EPA 8081	beta-BHC	1.4	ug/L	1.2	12/24/14 17:42	
EPA 8081	delta-BHC	8.7	ug/L	1.2	12/24/14 17:42	
EPA 8081	gamma-BHC (Lindane)	2.5	ug/L	1.2	12/24/14 17:42	
EPA 8260	Benzene	3.4	ug/L	1.0	12/23/14 15:29	
EPA 8260	Chlorobenzene	10.2	ug/L	1.0	12/23/14 15:29	
EPA 8260	1,4-Dichlorobenzene	1.6	ug/L	1.0	12/23/14 15:29	
EPA 8260	cis-1,2-Dichloroethene	77.2	ug/L	1.0	12/23/14 15:29	
EPA 8260	Ethylbenzene	1.4	ug/L	1.0	12/23/14 15:29	
EPA 8260	p-Isopropyltoluene	1.6	ug/L	1.0	12/23/14 15:29	
EPA 8260	Vinyl chloride	88.1	ug/L	1.0	12/23/14 15:29	
EPA 8260	Xylene (Total)	2.3	ug/L	2.0	12/23/14 15:29	
EPA 8260	o-Xylene	2.3	ug/L	1.0	12/23/14 15:29	
92230159002	**MW-17**					
EPA 8081	alpha-BHC	0.35	ug/L	0.050	12/23/14 18:16	
EPA 8081	beta-BHC	1.2	ug/L	0.10	12/24/14 18:00	
EPA 8081	delta-BHC	0.47	ug/L	0.050	12/23/14 18:16	
EPA 8081	gamma-BHC (Lindane)	0.098	ug/L	0.050	12/23/14 18:16	
EPA 8081	4,4'-DDT	0.13	ug/L	0.050	12/23/14 18:16	
EPA 8081	Dieldrin	0.17	ug/L	0.050	12/23/14 18:16	
EPA 8081	Endrin	0.40	ug/L	0.050	12/23/14 18:16	
EPA 8081	Endrin ketone	0.65	ug/L	0.050	12/23/14 18:16	
EPA 8260	cis-1,2-Dichloroethene	993	ug/L	5.0	12/23/14 14:56	
EPA 8260	Naphthalene	5.4	ug/L	5.0	12/23/14 14:56	
EPA 8260	Trichloroethene	2340	ug/L	20.0	12/28/14 21:17	
EPA 8260	Vinyl chloride	20.1	ug/L	5.0	12/23/14 14:56	
92230159003	**MW-3**					
EPA 8260	Toluene	1.2	ug/L	1.0	12/23/14 07:39	
92230159004	**MW-12**					
EPA 8081	alpha-BHC	0.073	ug/L	0.050	12/23/14 18:51	
EPA 8081	delta-BHC	0.058	ug/L	0.050	12/23/14 18:51	
EPA 8081	gamma-BHC (Lindane)	0.20	ug/L	0.050	12/23/14 18:51	
EPA 8260	cis-1,2-Dichloroethene	3.4	ug/L	1.0	12/23/14 07:56	
EPA 8260	Trichloroethene	21.2	ug/L	1.0	12/23/14 07:56	

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PROJECT NARRATIVE

Project: Legion Industries 6121-08-0484
Pace Project No.: 92230159

Method: **EPA 8081**
Description: 8081 Organochlorine Pesticides
Client: AMEC Environment & Infrastructure
Date: December 29, 2014

General Information:
4 samples were analyzed for EPA 8081. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3510 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

QC Batch: OEXT/31889

S4: Surrogate recovery not evaluated against control limits due to sample dilution.

- MW-2 (Lab ID: 92230159001)
  - Tetrachloro-m-xylene (S)

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: OEXT/31889

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

- MW-2 (Lab ID: 92230159001)
  - Tetrachloro-m-xylene (S)

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PROJECT NARRATIVE

Project: Legion Industries 6121-08-0484
Pace Project No.: 92230159

Method: **EPA 8260**
Description: 8260 MSV Low Level
Client: AMEC Environment & Infrastructure
Date: December 29, 2014

General Information:
5 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: MSV/29791

L0: Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
- LCS (Lab ID: 1358252)
  - Dichlorodifluoromethane

QC Batch: MSV/29792

L0: Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
- LCS (Lab ID: 1358256)
  - Dichlorodifluoromethane

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MSV/29791

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92230130003

M0: Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
- MS (Lab ID: 1358253)
  - Bromomethane
  - Chloroethane
  - Dichlorodifluoromethane
  - Trichlorofluoromethane

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PROJECT NARRATIVE

Project: Legion Industries 6121-08-0484
Pace Project No.: 92230159

Method: **EPA 8260**
Description: 8260 MSV Low Level
Client: AMEC Environment & Infrastructure
Date: December 29, 2014

QC Batch: MSV/29792

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92230130009

M0: Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

- MS (Lab ID: 1358257)
  - Bromomethane
  - Chloroethane
  - Dichlorodifluoromethane
  - Trichlorofluoromethane

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: Legion Industries 6121-08-0484
Pace Project No.: 92230159

Sample: MW-2 **Lab ID: 92230159001** Collected: 12/16/14 11:05 Received: 12/17/14 15:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8081 Organochlorine Pesticides	Analytical Method: EPA 8081 Preparation Method: EPA 3510							
Aldrin	ND	ug/L	1.2	25	12/23/14 08:14	12/24/14 17:42	309-00-2	
alpha-BHC	**7.3**	ug/L	1.2	25	12/23/14 08:14	12/24/14 17:42	319-84-6	
beta-BHC	**1.4**	ug/L	1.2	25	12/23/14 08:14	12/24/14 17:42	319-85-7	
delta-BHC	**8.7**	ug/L	1.2	25	12/23/14 08:14	12/24/14 17:42	319-86-8	
gamma-BHC (Lindane)	**2.5**	ug/L	1.2	25	12/23/14 08:14	12/24/14 17:42	58-89-9	
Chlordane (Technical)	ND	ug/L	5.0	25	12/23/14 08:14	12/24/14 17:42	57-74-9	
4,4'-DDD	ND	ug/L	1.2	25	12/23/14 08:14	12/24/14 17:42	72-54-8	
4,4'-DDE	ND	ug/L	1.2	25	12/23/14 08:14	12/24/14 17:42	72-55-9	
4,4'-DDT	ND	ug/L	1.2	25	12/23/14 08:14	12/24/14 17:42	50-29-3	
Dieldrin	ND	ug/L	1.2	25	12/23/14 08:14	12/24/14 17:42	60-57-1	
Endosulfan I	ND	ug/L	1.2	25	12/23/14 08:14	12/24/14 17:42	959-98-8	
Endosulfan II	ND	ug/L	1.2	25	12/23/14 08:14	12/24/14 17:42	33213-65-9	
Endosulfan sulfate	ND	ug/L	1.2	25	12/23/14 08:14	12/24/14 17:42	1031-07-8	
Endrin	ND	ug/L	1.2	25	12/23/14 08:14	12/24/14 17:42	72-20-8	
Endrin aldehyde	ND	ug/L	1.2	25	12/23/14 08:14	12/24/14 17:42	7421-93-4	
Endrin ketone	ND	ug/L	1.2	25	12/23/14 08:14	12/24/14 17:42	53494-70-5	
Heptachlor	ND	ug/L	1.2	25	12/23/14 08:14	12/24/14 17:42	76-44-8	
Heptachlor epoxide	ND	ug/L	1.2	25	12/23/14 08:14	12/24/14 17:42	1024-57-3	
Hexachlorobenzene	ND	ug/L	1.2	25	12/23/14 08:14	12/24/14 17:42	118-74-1	
Methoxychlor	ND	ug/L	3.8	25	12/23/14 08:14	12/24/14 17:42	72-43-5	
Mirex	ND	ug/L	3.8	25	12/23/14 08:14	12/24/14 17:42	2385-85-5	
Toxaphene	ND	ug/L	5.0	25	12/23/14 08:14	12/24/14 17:42	8001-35-2	
Surrogates								
Tetrachloro-m-xylene (S)	0	%	20-130	25	12/23/14 08:14	12/24/14 17:42	877-09-8	D3,S4
Decachlorobiphenyl (S)	0	%	20-130	25	12/23/14 08:14	12/24/14 17:42	2051-24-3	
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		12/23/14 15:29	67-64-1	
Benzene	**3.4**	ug/L	1.0	1		12/23/14 15:29	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		12/23/14 15:29	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		12/23/14 15:29	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		12/23/14 15:29	75-27-4	
Bromoform	ND	ug/L	1.0	1		12/23/14 15:29	75-25-2	
Bromomethane	ND	ug/L	2.0	1		12/23/14 15:29	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		12/23/14 15:29	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		12/23/14 15:29	56-23-5	
Chlorobenzene	**10.2**	ug/L	1.0	1		12/23/14 15:29	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/23/14 15:29	75-00-3	
Chloroform	ND	ug/L	1.0	1		12/23/14 15:29	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/23/14 15:29	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		12/23/14 15:29	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		12/23/14 15:29	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		12/23/14 15:29	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		12/23/14 15:29	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		12/23/14 15:29	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		12/23/14 15:29	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		12/23/14 15:29	95-50-1	

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ANALYTICAL RESULTS

Project: Legion Industries 6121-08-0484
Pace Project No.: 92230159

Sample: MW-2 **Lab ID: 92230159001** Collected: 12/16/14 11:05 Received: 12/17/14 15:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
1,3-Dichlorobenzene	ND	ug/L	1.0	1		12/23/14 15:29	541-73-1	
1,4-Dichlorobenzene	**1.6**	ug/L	1.0	1		12/23/14 15:29	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		12/23/14 15:29	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		12/23/14 15:29	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		12/23/14 15:29	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		12/23/14 15:29	75-35-4	
cis-1,2-Dichloroethene	**77.2**	ug/L	1.0	1		12/23/14 15:29	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/23/14 15:29	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		12/23/14 15:29	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		12/23/14 15:29	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		12/23/14 15:29	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		12/23/14 15:29	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		12/23/14 15:29	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		12/23/14 15:29	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		12/23/14 15:29	108-20-3	
Ethylbenzene	**1.4**	ug/L	1.0	1		12/23/14 15:29	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		12/23/14 15:29	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		12/23/14 15:29	591-78-6	
p-Isopropyltoluene	**1.6**	ug/L	1.0	1		12/23/14 15:29	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		12/23/14 15:29	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		12/23/14 15:29	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		12/23/14 15:29	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		12/23/14 15:29	91-20-3	
Styrene	ND	ug/L	1.0	1		12/23/14 15:29	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		12/23/14 15:29	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		12/23/14 15:29	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		12/23/14 15:29	127-18-4	
Toluene	ND	ug/L	1.0	1		12/23/14 15:29	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		12/23/14 15:29	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		12/23/14 15:29	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		12/23/14 15:29	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		12/23/14 15:29	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		12/23/14 15:29	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/23/14 15:29	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		12/23/14 15:29	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		12/23/14 15:29	108-05-4	
Vinyl chloride	**88.1**	ug/L	1.0	1		12/23/14 15:29	75-01-4	
Xylene (Total)	**2.3**	ug/L	2.0	1		12/23/14 15:29	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		12/23/14 15:29	179601-23-1	
o-Xylene	**2.3**	ug/L	1.0	1		12/23/14 15:29	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	88	%	70-130	1		12/23/14 15:29	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	70-130	1		12/23/14 15:29	17060-07-0	
Toluene-d8 (S)	97	%	70-130	1		12/23/14 15:29	2037-26-5	

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ANALYTICAL RESULTS

Project: Legion Industries 6121-08-0484
Pace Project No.: 92230159

Sample: MW-17 **Lab ID: 92230159002** Collected: 12/16/14 15:20 Received: 12/17/14 15:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8081 Organochlorine Pesticides	Analytical Method: EPA 8081 Preparation Method: EPA 3510							
Aldrin	ND	ug/L	0.050	1	12/23/14 08:14	12/23/14 18:16	309-00-2	
alpha-BHC	**0.35**	ug/L	0.050	1	12/23/14 08:14	12/23/14 18:16	319-84-6	
beta-BHC	**1.2**	ug/L	0.10	2	12/23/14 08:14	12/24/14 18:00	319-85-7	
delta-BHC	**0.47**	ug/L	0.050	1	12/23/14 08:14	12/23/14 18:16	319-86-8	
gamma-BHC (Lindane)	**0.098**	ug/L	0.050	1	12/23/14 08:14	12/23/14 18:16	58-89-9	
Chlordane (Technical)	ND	ug/L	0.20	1	12/23/14 08:14	12/23/14 18:16	57-74-9	
4,4'-DDD	ND	ug/L	0.050	1	12/23/14 08:14	12/23/14 18:16	72-54-8	
4,4'-DDE	ND	ug/L	0.050	1	12/23/14 08:14	12/23/14 18:16	72-55-9	
4,4'-DDT	**0.13**	ug/L	0.050	1	12/23/14 08:14	12/23/14 18:16	50-29-3	
Dieldrin	**0.17**	ug/L	0.050	1	12/23/14 08:14	12/23/14 18:16	60-57-1	
Endosulfan I	ND	ug/L	0.050	1	12/23/14 08:14	12/23/14 18:16	959-98-8	
Endosulfan II	ND	ug/L	0.050	1	12/23/14 08:14	12/23/14 18:16	33213-65-9	
Endosulfan sulfate	ND	ug/L	0.050	1	12/23/14 08:14	12/23/14 18:16	1031-07-8	
Endrin	**0.40**	ug/L	0.050	1	12/23/14 08:14	12/23/14 18:16	72-20-8	
Endrin aldehyde	ND	ug/L	0.050	1	12/23/14 08:14	12/23/14 18:16	7421-93-4	
Endrin ketone	**0.65**	ug/L	0.050	1	12/23/14 08:14	12/23/14 18:16	53494-70-5	
Heptachlor	ND	ug/L	0.050	1	12/23/14 08:14	12/23/14 18:16	76-44-8	
Heptachlor epoxide	ND	ug/L	0.050	1	12/23/14 08:14	12/23/14 18:16	1024-57-3	
Hexachlorobenzene	ND	ug/L	0.050	1	12/23/14 08:14	12/23/14 18:16	118-74-1	
Methoxychlor	ND	ug/L	0.15	1	12/23/14 08:14	12/23/14 18:16	72-43-5	
Mirex	ND	ug/L	0.15	1	12/23/14 08:14	12/23/14 18:16	2385-85-5	
Toxaphene	ND	ug/L	0.20	1	12/23/14 08:14	12/23/14 18:16	8001-35-2	
Surrogates								
Tetrachloro-m-xylene (S)	37	%	20-130	1	12/23/14 08:14	12/23/14 18:16	877-09-8	
Decachlorobiphenyl (S)	22	%	20-130	1	12/23/14 08:14	12/23/14 18:16	2051-24-3	
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	125	5		12/23/14 14:56	67-64-1	
Benzene	ND	ug/L	5.0	5		12/23/14 14:56	71-43-2	
Bromobenzene	ND	ug/L	5.0	5		12/23/14 14:56	108-86-1	
Bromochloromethane	ND	ug/L	5.0	5		12/23/14 14:56	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	5		12/23/14 14:56	75-27-4	
Bromoform	ND	ug/L	5.0	5		12/23/14 14:56	75-25-2	
Bromomethane	ND	ug/L	10.0	5		12/23/14 14:56	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	5		12/23/14 14:56	78-93-3	
Carbon tetrachloride	ND	ug/L	5.0	5		12/23/14 14:56	56-23-5	
Chlorobenzene	ND	ug/L	5.0	5		12/23/14 14:56	108-90-7	
Chloroethane	ND	ug/L	5.0	5		12/23/14 14:56	75-00-3	
Chloroform	ND	ug/L	5.0	5		12/23/14 14:56	67-66-3	
Chloromethane	ND	ug/L	5.0	5		12/23/14 14:56	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	5		12/23/14 14:56	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	5		12/23/14 14:56	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	10.0	5		12/23/14 14:56	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	5		12/23/14 14:56	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	5		12/23/14 14:56	106-93-4	
Dibromomethane	ND	ug/L	5.0	5		12/23/14 14:56	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	5		12/23/14 14:56	95-50-1	

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ANALYTICAL RESULTS

Project: Legion Industries 6121-08-0484
Pace Project No.: 92230159

Sample: MW-17 **Lab ID: 92230159002** Collected: 12/16/14 15:20 Received: 12/17/14 15:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
1,3-Dichlorobenzene	ND	ug/L	5.0	5		12/23/14 14:56	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	5		12/23/14 14:56	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	5		12/23/14 14:56	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	5		12/23/14 14:56	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	5		12/23/14 14:56	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	5		12/23/14 14:56	75-35-4	
cis-1,2-Dichloroethene	**993**	ug/L	5.0	5		12/23/14 14:56	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	5		12/23/14 14:56	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	5		12/23/14 14:56	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	5		12/23/14 14:56	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	5		12/23/14 14:56	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	5		12/23/14 14:56	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	5		12/23/14 14:56	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	5		12/23/14 14:56	10061-02-6	
Diisopropyl ether	ND	ug/L	5.0	5		12/23/14 14:56	108-20-3	
Ethylbenzene	ND	ug/L	5.0	5		12/23/14 14:56	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	5		12/23/14 14:56	87-68-3	
2-Hexanone	ND	ug/L	25.0	5		12/23/14 14:56	591-78-6	
p-Isopropyltoluene	ND	ug/L	5.0	5		12/23/14 14:56	99-87-6	
Methylene Chloride	ND	ug/L	10.0	5		12/23/14 14:56	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	5		12/23/14 14:56	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	5.0	5		12/23/14 14:56	1634-04-4	
Naphthalene	**5.4**	ug/L	5.0	5		12/23/14 14:56	91-20-3	
Styrene	ND	ug/L	5.0	5		12/23/14 14:56	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	5		12/23/14 14:56	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	5		12/23/14 14:56	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	5		12/23/14 14:56	127-18-4	
Toluene	ND	ug/L	5.0	5		12/23/14 14:56	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	5		12/23/14 14:56	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	5		12/23/14 14:56	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	5		12/23/14 14:56	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	5		12/23/14 14:56	79-00-5	
Trichloroethene	**2340**	ug/L	20.0	20		12/28/14 21:17	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	5		12/23/14 14:56	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	5		12/23/14 14:56	96-18-4	
Vinyl acetate	ND	ug/L	10.0	5		12/23/14 14:56	108-05-4	
Vinyl chloride	**20.1**	ug/L	5.0	5		12/23/14 14:56	75-01-4	
Xylene (Total)	ND	ug/L	10.0	5		12/23/14 14:56	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	5		12/23/14 14:56	179601-23-1	
o-Xylene	ND	ug/L	5.0	5		12/23/14 14:56	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	88	%	70-130	5		12/23/14 14:56	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130	5		12/23/14 14:56	17060-07-0	
Toluene-d8 (S)	103	%	70-130	5		12/23/14 14:56	2037-26-5	

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ANALYTICAL RESULTS

Project: Legion Industries 6121-08-0484
Pace Project No.: 92230159

Sample: MW-3 **Lab ID: 92230159003** Collected: 12/16/14 16:35 Received: 12/17/14 15:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8081 Organochlorine Pesticides	Analytical Method: EPA 8081 Preparation Method: EPA 3510							
Aldrin	ND	ug/L	0.050	1	12/23/14 08:14	12/23/14 18:33	309-00-2	
alpha-BHC	ND	ug/L	0.050	1	12/23/14 08:14	12/23/14 18:33	319-84-6	
beta-BHC	ND	ug/L	0.050	1	12/23/14 08:14	12/23/14 18:33	319-85-7	
delta-BHC	ND	ug/L	0.050	1	12/23/14 08:14	12/23/14 18:33	319-86-8	
gamma-BHC (Lindane)	ND	ug/L	0.050	1	12/23/14 08:14	12/23/14 18:33	58-89-9	
Chlordane (Technical)	ND	ug/L	0.20	1	12/23/14 08:14	12/23/14 18:33	57-74-9	
4,4'-DDD	ND	ug/L	0.050	1	12/23/14 08:14	12/23/14 18:33	72-54-8	
4,4'-DDE	ND	ug/L	0.050	1	12/23/14 08:14	12/23/14 18:33	72-55-9	
4,4'-DDT	ND	ug/L	0.050	1	12/23/14 08:14	12/23/14 18:33	50-29-3	
Dieldrin	ND	ug/L	0.050	1	12/23/14 08:14	12/23/14 18:33	60-57-1	
Endosulfan I	ND	ug/L	0.050	1	12/23/14 08:14	12/23/14 18:33	959-98-8	
Endosulfan II	ND	ug/L	0.050	1	12/23/14 08:14	12/23/14 18:33	33213-65-9	
Endosulfan sulfate	ND	ug/L	0.050	1	12/23/14 08:14	12/23/14 18:33	1031-07-8	
Endrin	ND	ug/L	0.050	1	12/23/14 08:14	12/23/14 18:33	72-20-8	
Endrin aldehyde	ND	ug/L	0.050	1	12/23/14 08:14	12/23/14 18:33	7421-93-4	
Endrin ketone	ND	ug/L	0.050	1	12/23/14 08:14	12/23/14 18:33	53494-70-5	
Heptachlor	ND	ug/L	0.050	1	12/23/14 08:14	12/23/14 18:33	76-44-8	
Heptachlor epoxide	ND	ug/L	0.050	1	12/23/14 08:14	12/23/14 18:33	1024-57-3	
Hexachlorobenzene	ND	ug/L	0.050	1	12/23/14 08:14	12/23/14 18:33	118-74-1	
Methoxychlor	ND	ug/L	0.15	1	12/23/14 08:14	12/23/14 18:33	72-43-5	
Mirex	ND	ug/L	0.15	1	12/23/14 08:14	12/23/14 18:33	2385-85-5	
Toxaphene	ND	ug/L	0.20	1	12/23/14 08:14	12/23/14 18:33	8001-35-2	
Surrogates								
Tetrachloro-m-xylene (S)	42	%	20-130	1	12/23/14 08:14	12/23/14 18:33	877-09-8	
Decachlorobiphenyl (S)	53	%	20-130	1	12/23/14 08:14	12/23/14 18:33	2051-24-3	
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		12/23/14 07:39	67-64-1	
Benzene	ND	ug/L	1.0	1		12/23/14 07:39	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		12/23/14 07:39	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		12/23/14 07:39	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		12/23/14 07:39	75-27-4	
Bromoform	ND	ug/L	1.0	1		12/23/14 07:39	75-25-2	
Bromomethane	ND	ug/L	2.0	1		12/23/14 07:39	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		12/23/14 07:39	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		12/23/14 07:39	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		12/23/14 07:39	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/23/14 07:39	75-00-3	
Chloroform	ND	ug/L	1.0	1		12/23/14 07:39	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/23/14 07:39	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		12/23/14 07:39	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		12/23/14 07:39	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		12/23/14 07:39	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		12/23/14 07:39	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		12/23/14 07:39	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		12/23/14 07:39	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		12/23/14 07:39	95-50-1	

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ANALYTICAL RESULTS

Project: Legion Industries 6121-08-0484
Pace Project No.: 92230159

Sample: MW-3 **Lab ID: 92230159003** Collected: 12/16/14 16:35 Received: 12/17/14 15:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
1,3-Dichlorobenzene	ND	ug/L	1.0	1		12/23/14 07:39	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		12/23/14 07:39	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		12/23/14 07:39	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		12/23/14 07:39	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		12/23/14 07:39	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		12/23/14 07:39	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		12/23/14 07:39	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/23/14 07:39	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		12/23/14 07:39	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		12/23/14 07:39	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		12/23/14 07:39	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		12/23/14 07:39	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		12/23/14 07:39	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		12/23/14 07:39	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		12/23/14 07:39	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		12/23/14 07:39	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		12/23/14 07:39	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		12/23/14 07:39	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		12/23/14 07:39	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		12/23/14 07:39	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		12/23/14 07:39	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		12/23/14 07:39	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		12/23/14 07:39	91-20-3	
Styrene	ND	ug/L	1.0	1		12/23/14 07:39	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		12/23/14 07:39	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		12/23/14 07:39	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		12/23/14 07:39	127-18-4	
Toluene	**1.2**	ug/L	1.0	1		12/23/14 07:39	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		12/23/14 07:39	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		12/23/14 07:39	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		12/23/14 07:39	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		12/23/14 07:39	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		12/23/14 07:39	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/23/14 07:39	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		12/23/14 07:39	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		12/23/14 07:39	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		12/23/14 07:39	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		12/23/14 07:39	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		12/23/14 07:39	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		12/23/14 07:39	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	89	%	70-130	1		12/23/14 07:39	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130	1		12/23/14 07:39	17060-07-0	
Toluene-d8 (S)	95	%	70-130	1		12/23/14 07:39	2037-26-5	

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ANALYTICAL RESULTS

Project: Legion Industries 6121-08-0484
Pace Project No.: 92230159

Sample: MW-12 **Lab ID: 92230159004** Collected: 12/16/14 17:50 Received: 12/17/14 15:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8081 Organochlorine Pesticides	Analytical Method: EPA 8081 Preparation Method: EPA 3510							
Aldrin	ND	ug/L	0.050	1	12/23/14 08:14	12/23/14 18:51	309-00-2	
alpha-BHC	**0.073**	ug/L	0.050	1	12/23/14 08:14	12/23/14 18:51	319-84-6	
beta-BHC	ND	ug/L	0.050	1	12/23/14 08:14	12/23/14 18:51	319-85-7	
delta-BHC	**0.058**	ug/L	0.050	1	12/23/14 08:14	12/23/14 18:51	319-86-8	
gamma-BHC (Lindane)	**0.20**	ug/L	0.050	1	12/23/14 08:14	12/23/14 18:51	58-89-9	
Chlordane (Technical)	ND	ug/L	0.20	1	12/23/14 08:14	12/23/14 18:51	57-74-9	
4,4'-DDD	ND	ug/L	0.050	1	12/23/14 08:14	12/23/14 18:51	72-54-8	
4,4'-DDE	ND	ug/L	0.050	1	12/23/14 08:14	12/23/14 18:51	72-55-9	
4,4'-DDT	ND	ug/L	0.050	1	12/23/14 08:14	12/23/14 18:51	50-29-3	
Dieldrin	ND	ug/L	0.050	1	12/23/14 08:14	12/23/14 18:51	60-57-1	
Endosulfan I	ND	ug/L	0.050	1	12/23/14 08:14	12/23/14 18:51	959-98-8	
Endosulfan II	ND	ug/L	0.050	1	12/23/14 08:14	12/23/14 18:51	33213-65-9	
Endosulfan sulfate	ND	ug/L	0.050	1	12/23/14 08:14	12/23/14 18:51	1031-07-8	
Endrin	ND	ug/L	0.050	1	12/23/14 08:14	12/23/14 18:51	72-20-8	
Endrin aldehyde	ND	ug/L	0.050	1	12/23/14 08:14	12/23/14 18:51	7421-93-4	
Endrin ketone	ND	ug/L	0.050	1	12/23/14 08:14	12/23/14 18:51	53494-70-5	
Heptachlor	ND	ug/L	0.050	1	12/23/14 08:14	12/23/14 18:51	76-44-8	
Heptachlor epoxide	ND	ug/L	0.050	1	12/23/14 08:14	12/23/14 18:51	1024-57-3	
Hexachlorobenzene	ND	ug/L	0.050	1	12/23/14 08:14	12/23/14 18:51	118-74-1	
Methoxychlor	ND	ug/L	0.15	1	12/23/14 08:14	12/23/14 18:51	72-43-5	
Mirex	ND	ug/L	0.15	1	12/23/14 08:14	12/23/14 18:51	2385-85-5	
Toxaphene	ND	ug/L	0.20	1	12/23/14 08:14	12/23/14 18:51	8001-35-2	
Surrogates								
Tetrachloro-m-xylene (S)	76	%	20-130	1	12/23/14 08:14	12/23/14 18:51	877-09-8	
Decachlorobiphenyl (S)	86	%	20-130	1	12/23/14 08:14	12/23/14 18:51	2051-24-3	
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		12/23/14 07:56	67-64-1	
Benzene	ND	ug/L	1.0	1		12/23/14 07:56	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		12/23/14 07:56	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		12/23/14 07:56	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		12/23/14 07:56	75-27-4	
Bromoform	ND	ug/L	1.0	1		12/23/14 07:56	75-25-2	
Bromomethane	ND	ug/L	2.0	1		12/23/14 07:56	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		12/23/14 07:56	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		12/23/14 07:56	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		12/23/14 07:56	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/23/14 07:56	75-00-3	
Chloroform	ND	ug/L	1.0	1		12/23/14 07:56	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/23/14 07:56	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		12/23/14 07:56	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		12/23/14 07:56	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		12/23/14 07:56	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		12/23/14 07:56	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		12/23/14 07:56	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		12/23/14 07:56	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		12/23/14 07:56	95-50-1	

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ANALYTICAL RESULTS

Project: Legion Industries 6121-08-0484
Pace Project No.: 92230159

Sample: MW-12 **Lab ID: 92230159004** Collected: 12/16/14 17:50 Received: 12/17/14 15:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
1,3-Dichlorobenzene	ND	ug/L	1.0	1		12/23/14 07:56	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		12/23/14 07:56	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		12/23/14 07:56	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		12/23/14 07:56	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		12/23/14 07:56	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		12/23/14 07:56	75-35-4	
cis-1,2-Dichloroethene	**3.4**	ug/L	1.0	1		12/23/14 07:56	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/23/14 07:56	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		12/23/14 07:56	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		12/23/14 07:56	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		12/23/14 07:56	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		12/23/14 07:56	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		12/23/14 07:56	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		12/23/14 07:56	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		12/23/14 07:56	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		12/23/14 07:56	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		12/23/14 07:56	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		12/23/14 07:56	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		12/23/14 07:56	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		12/23/14 07:56	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		12/23/14 07:56	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		12/23/14 07:56	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		12/23/14 07:56	91-20-3	
Styrene	ND	ug/L	1.0	1		12/23/14 07:56	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		12/23/14 07:56	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		12/23/14 07:56	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		12/23/14 07:56	127-18-4	
Toluene	ND	ug/L	1.0	1		12/23/14 07:56	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		12/23/14 07:56	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		12/23/14 07:56	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		12/23/14 07:56	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		12/23/14 07:56	79-00-5	
Trichloroethene	**21.2**	ug/L	1.0	1		12/23/14 07:56	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/23/14 07:56	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		12/23/14 07:56	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		12/23/14 07:56	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		12/23/14 07:56	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		12/23/14 07:56	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		12/23/14 07:56	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		12/23/14 07:56	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	89	%	70-130	1		12/23/14 07:56	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130	1		12/23/14 07:56	17060-07-0	
Toluene-d8 (S)	97	%	70-130	1		12/23/14 07:56	2037-26-5	

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ANALYTICAL RESULTS

Project: Legion Industries 6121-08-0484
Pace Project No.: 92230159

Sample: Trip Blank **Lab ID: 92230159005** Collected: 12/16/14 00:00 Received: 12/17/14 15:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		12/23/14 08:12	67-64-1	
Benzene	ND	ug/L	1.0	1		12/23/14 08:12	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		12/23/14 08:12	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		12/23/14 08:12	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		12/23/14 08:12	75-27-4	
Bromoform	ND	ug/L	1.0	1		12/23/14 08:12	75-25-2	
Bromomethane	ND	ug/L	2.0	1		12/23/14 08:12	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		12/23/14 08:12	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		12/23/14 08:12	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		12/23/14 08:12	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/23/14 08:12	75-00-3	
Chloroform	ND	ug/L	1.0	1		12/23/14 08:12	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/23/14 08:12	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		12/23/14 08:12	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		12/23/14 08:12	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		12/23/14 08:12	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		12/23/14 08:12	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		12/23/14 08:12	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		12/23/14 08:12	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		12/23/14 08:12	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		12/23/14 08:12	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		12/23/14 08:12	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		12/23/14 08:12	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		12/23/14 08:12	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		12/23/14 08:12	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		12/23/14 08:12	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		12/23/14 08:12	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/23/14 08:12	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		12/23/14 08:12	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		12/23/14 08:12	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		12/23/14 08:12	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		12/23/14 08:12	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		12/23/14 08:12	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		12/23/14 08:12	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		12/23/14 08:12	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		12/23/14 08:12	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		12/23/14 08:12	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		12/23/14 08:12	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		12/23/14 08:12	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		12/23/14 08:12	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		12/23/14 08:12	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		12/23/14 08:12	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		12/23/14 08:12	91-20-3	
Styrene	ND	ug/L	1.0	1		12/23/14 08:12	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		12/23/14 08:12	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		12/23/14 08:12	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		12/23/14 08:12	127-18-4	

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ANALYTICAL RESULTS

Project: Legion Industries 6121-08-0484
Pace Project No.: 92230159

Sample: Trip Blank **Lab ID: 92230159005** Collected: 12/16/14 00:00 Received: 12/17/14 15:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Toluene	ND	ug/L	1.0	1		12/23/14 08:12	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		12/23/14 08:12	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		12/23/14 08:12	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		12/23/14 08:12	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		12/23/14 08:12	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		12/23/14 08:12	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/23/14 08:12	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		12/23/14 08:12	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		12/23/14 08:12	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		12/23/14 08:12	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		12/23/14 08:12	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		12/23/14 08:12	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		12/23/14 08:12	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	89	%	70-130	1		12/23/14 08:12	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	70-130	1		12/23/14 08:12	17060-07-0	
Toluene-d8 (S)	95	%	70-130	1		12/23/14 08:12	2037-26-5	

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QUALITY CONTROL DATA

Project: Legion Industries 6121-08-0484
Pace Project No.: 92230159

QC Batch: MSV/29791 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92230159003, 92230159004, 92230159005

METHOD BLANK: 1358251 Matrix: Water
Associated Lab Samples: 92230159003, 92230159004, 92230159005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	12/23/14 07:05	
1,1,1-Trichloroethane	ug/L	ND	1.0	12/23/14 07:05	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	12/23/14 07:05	
1,1,2-Trichloroethane	ug/L	ND	1.0	12/23/14 07:05	
1,1-Dichloroethane	ug/L	ND	1.0	12/23/14 07:05	
1,1-Dichloroethene	ug/L	ND	1.0	12/23/14 07:05	
1,1-Dichloropropene	ug/L	ND	1.0	12/23/14 07:05	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	12/23/14 07:05	
1,2,3-Trichloropropane	ug/L	ND	1.0	12/23/14 07:05	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	12/23/14 07:05	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.0	12/23/14 07:05	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	12/23/14 07:05	
1,2-Dichlorobenzene	ug/L	ND	1.0	12/23/14 07:05	
1,2-Dichloroethane	ug/L	ND	1.0	12/23/14 07:05	
1,2-Dichloropropane	ug/L	ND	1.0	12/23/14 07:05	
1,3-Dichlorobenzene	ug/L	ND	1.0	12/23/14 07:05	
1,3-Dichloropropane	ug/L	ND	1.0	12/23/14 07:05	
1,4-Dichlorobenzene	ug/L	ND	1.0	12/23/14 07:05	
2,2-Dichloropropane	ug/L	ND	1.0	12/23/14 07:05	
2-Butanone (MEK)	ug/L	ND	5.0	12/23/14 07:05	
2-Chlorotoluene	ug/L	ND	1.0	12/23/14 07:05	
2-Hexanone	ug/L	ND	5.0	12/23/14 07:05	
4-Chlorotoluene	ug/L	ND	1.0	12/23/14 07:05	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	12/23/14 07:05	
Acetone	ug/L	ND	25.0	12/23/14 07:05	
Benzene	ug/L	ND	1.0	12/23/14 07:05	
Bromobenzene	ug/L	ND	1.0	12/23/14 07:05	
Bromochloromethane	ug/L	ND	1.0	12/23/14 07:05	
Bromodichloromethane	ug/L	ND	1.0	12/23/14 07:05	
Bromoform	ug/L	ND	1.0	12/23/14 07:05	
Bromomethane	ug/L	ND	2.0	12/23/14 07:05	
Carbon tetrachloride	ug/L	ND	1.0	12/23/14 07:05	
Chlorobenzene	ug/L	ND	1.0	12/23/14 07:05	
Chloroethane	ug/L	ND	1.0	12/23/14 07:05	
Chloroform	ug/L	ND	1.0	12/23/14 07:05	
Chloromethane	ug/L	ND	1.0	12/23/14 07:05	
cis-1,2-Dichloroethene	ug/L	ND	1.0	12/23/14 07:05	
cis-1,3-Dichloropropene	ug/L	ND	1.0	12/23/14 07:05	
Dibromochloromethane	ug/L	ND	1.0	12/23/14 07:05	
Dibromomethane	ug/L	ND	1.0	12/23/14 07:05	
Dichlorodifluoromethane	ug/L	ND	1.0	12/23/14 07:05	

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QUALITY CONTROL DATA

Project: Legion Industries 6121-08-0484
Pace Project No.: 92230159

METHOD BLANK: 1358251 Matrix: Water
Associated Lab Samples: 92230159003, 92230159004, 92230159005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diisopropyl ether	ug/L	ND	1.0	12/23/14 07:05	
Ethylbenzene	ug/L	ND	1.0	12/23/14 07:05	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	12/23/14 07:05	
m&p-Xylene	ug/L	ND	2.0	12/23/14 07:05	
Methyl-tert-butyl ether	ug/L	ND	1.0	12/23/14 07:05	
Methylene Chloride	ug/L	ND	2.0	12/23/14 07:05	
Naphthalene	ug/L	ND	1.0	12/23/14 07:05	
o-Xylene	ug/L	ND	1.0	12/23/14 07:05	
p-Isopropyltoluene	ug/L	ND	1.0	12/23/14 07:05	
Styrene	ug/L	ND	1.0	12/23/14 07:05	
Tetrachloroethene	ug/L	ND	1.0	12/23/14 07:05	
Toluene	ug/L	ND	1.0	12/23/14 07:05	
trans-1,2-Dichloroethene	ug/L	ND	1.0	12/23/14 07:05	
trans-1,3-Dichloropropene	ug/L	ND	1.0	12/23/14 07:05	
Trichloroethene	ug/L	ND	1.0	12/23/14 07:05	
Trichlorofluoromethane	ug/L	ND	1.0	12/23/14 07:05	
Vinyl acetate	ug/L	ND	2.0	12/23/14 07:05	
Vinyl chloride	ug/L	ND	1.0	12/23/14 07:05	
Xylene (Total)	ug/L	ND	2.0	12/23/14 07:05	
1,2-Dichloroethane-d4 (S)	%	100	70-130	12/23/14 07:05	
4-Bromofluorobenzene (S)	%	96	70-130	12/23/14 07:05	
Toluene-d8 (S)	%	95	70-130	12/23/14 07:05	

LABORATORY CONTROL SAMPLE: 1358252

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	53.5	107	70-130	
1,1,1-Trichloroethane	ug/L	50	56.5	113	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	51.2	102	70-130	
1,1,2-Trichloroethane	ug/L	50	53.2	106	70-130	
1,1-Dichloroethane	ug/L	50	56.7	113	70-130	
1,1-Dichloroethene	ug/L	50	56.1	112	70-132	
1,1-Dichloropropene	ug/L	50	56.5	113	70-130	
1,2,3-Trichlorobenzene	ug/L	50	52.7	105	70-135	
1,2,3-Trichloropropane	ug/L	50	52.3	105	70-130	
1,2,4-Trichlorobenzene	ug/L	50	54.0	108	70-134	
1,2-Dibromo-3-chloropropane	ug/L	50	51.4	103	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	54.8	110	70-130	
1,2-Dichlorobenzene	ug/L	50	54.5	109	70-130	
1,2-Dichloroethane	ug/L	50	54.1	108	70-130	
1,2-Dichloropropane	ug/L	50	53.2	106	70-130	
1,3-Dichlorobenzene	ug/L	50	54.6	109	70-130	
1,3-Dichloropropane	ug/L	50	53.0	106	70-130	
1,4-Dichlorobenzene	ug/L	50	54.8	110	70-130	

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QUALITY CONTROL DATA

Project: Legion Industries 6121-08-0484
Pace Project No.: 92230159

LABORATORY CONTROL SAMPLE: 1358252

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,2-Dichloropropane	ug/L	50	47.5	95	58-145	
2-Butanone (MEK)	ug/L	100	95.4	95	70-145	
2-Chlorotoluene	ug/L	50	48.4	97	70-130	
2-Hexanone	ug/L	100	92.2	92	70-144	
4-Chlorotoluene	ug/L	50	53.7	107	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	93.9	94	70-140	
Acetone	ug/L	100	95.8	96	50-175	
Benzene	ug/L	50	53.3	107	70-130	
Bromobenzene	ug/L	50	53.5	107	70-130	
Bromochloromethane	ug/L	50	49.7	99	70-130	
Bromodichloromethane	ug/L	50	51.4	103	70-130	
Bromoform	ug/L	50	49.5	99	70-130	
Bromomethane	ug/L	50	37.1	74	54-130	
Carbon tetrachloride	ug/L	50	55.7	111	70-132	
Chlorobenzene	ug/L	50	54.4	109	70-130	
Chloroethane	ug/L	50	52.4	105	64-134	
Chloroform	ug/L	50	56.3	113	70-130	
Chloromethane	ug/L	50	44.4	89	64-130	
cis-1,2-Dichloroethene	ug/L	50	55.3	111	70-131	
cis-1,3-Dichloropropene	ug/L	50	51.8	104	70-130	
Dibromochloromethane	ug/L	50	55.2	110	70-130	
Dibromomethane	ug/L	50	53.0	106	70-131	
Dichlorodifluoromethane	ug/L	50	74.2	148	56-130	L0
Diisopropyl ether	ug/L	50	48.3	97	70-130	
Ethylbenzene	ug/L	50	52.5	105	70-130	
Hexachloro-1,3-butadiene	ug/L	50	44.9	90	70-130	
m&p-Xylene	ug/L	100	104	104	70-130	
Methyl-tert-butyl ether	ug/L	50	49.8	100	70-130	
Methylene Chloride	ug/L	50	52.9	106	63-130	
Naphthalene	ug/L	50	51.7	103	70-138	
o-Xylene	ug/L	50	50.5	101	70-130	
p-Isopropyltoluene	ug/L	50	52.9	106	70-130	
Styrene	ug/L	50	52.2	104	70-130	
Tetrachloroethene	ug/L	50	52.5	105	70-130	
Toluene	ug/L	50	52.9	106	70-130	
trans-1,2-Dichloroethene	ug/L	50	57.0	114	70-130	
trans-1,3-Dichloropropene	ug/L	50	51.7	103	70-132	
Trichloroethene	ug/L	50	53.0	106	70-130	
Trichlorofluoromethane	ug/L	50	64.9	130	62-133	
Vinyl acetate	ug/L	100	96.1	96	66-157	
Vinyl chloride	ug/L	50	52.6	105	50-150	
Xylene (Total)	ug/L	150	154	103	70-130	
1,2-Dichloroethane-d4 (S)	%			102	70-130	
4-Bromofluorobenzene (S)	%			96	70-130	
Toluene-d8 (S)	%			98	70-130	

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QUALITY CONTROL DATA

Project: Legion Industries 6121-08-0484
Pace Project No.: 92230159

MATRIX SPIKE SAMPLE: 1358253

Parameter	Units	92230130003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20.9	105	70-130	
1,1,1-Trichloroethane	ug/L	ND	20	25.0	125	70-130	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20.4	102	70-130	
1,1,2-Trichloroethane	ug/L	ND	20	20.8	104	70-130	
1,1-Dichloroethane	ug/L	ND	20	25.0	125	70-130	
1,1-Dichloroethene	ug/L	ND	20	25.8	129	70-166	
1,1-Dichloropropene	ug/L	ND	20	25.2	126	70-130	
1,2,3-Trichlorobenzene	ug/L	ND	20	18.9	94	70-130	
1,2,3-Trichloropropane	ug/L	ND	20	21.5	108	70-130	
1,2,4-Trichlorobenzene	ug/L	ND	20	19.7	98	70-130	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	18.1	91	70-130	
1,2-Dibromoethane (EDB)	ug/L	ND	20	21.2	106	70-130	
1,2-Dichlorobenzene	ug/L	ND	20	21.5	108	70-130	
1,2-Dichloroethane	ug/L	ND	20	22.9	114	70-130	
1,2-Dichloropropane	ug/L	ND	20	21.4	107	70-130	
1,3-Dichlorobenzene	ug/L	ND	20	21.9	109	70-130	
1,3-Dichloropropane	ug/L	ND	20	21.4	107	70-130	
1,4-Dichlorobenzene	ug/L	ND	20	21.8	109	70-130	
2,2-Dichloropropane	ug/L	ND	20	18.1	90	70-130	
2-Butanone (MEK)	ug/L	ND	40	36.3	91	70-130	
2-Chlorotoluene	ug/L	ND	20	20.6	103	70-130	
2-Hexanone	ug/L	ND	40	36.0	90	70-130	
4-Chlorotoluene	ug/L	ND	20	22.6	113	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	40	37.0	93	70-130	
Acetone	ug/L	ND	40	42.1	104	70-130	
Benzene	ug/L	ND	20	23.3	117	70-148	
Bromobenzene	ug/L	ND	20	22.1	110	70-130	
Bromochloromethane	ug/L	ND	20	22.4	112	70-130	
Bromodichloromethane	ug/L	ND	20	20.4	102	70-130	
Bromoform	ug/L	ND	20	16.5	82	70-130	
Bromomethane	ug/L	ND	20	4.6	23	70-130	M0
Carbon tetrachloride	ug/L	ND	20	23.3	116	70-130	
Chlorobenzene	ug/L	ND	20	22.2	110	70-146	
Chloroethane	ug/L	ND	20	28.4	142	70-130	M0
Chloroform	ug/L	ND	20	24.9	124	70-130	
Chloromethane	ug/L	ND	20	18.6	93	70-130	
cis-1,2-Dichloroethene	ug/L	ND	20	23.6	118	70-130	
cis-1,3-Dichloropropene	ug/L	ND	20	19.4	97	70-130	
Dibromochloromethane	ug/L	ND	20	19.3	96	70-130	
Dibromomethane	ug/L	ND	20	20.1	101	70-130	
Dichlorodifluoromethane	ug/L	ND	20	33.5	168	70-130	M0
Diisopropyl ether	ug/L	ND	20	20.0	100	70-130	
Ethylbenzene	ug/L	ND	20	22.6	113	70-130	
Hexachloro-1,3-butadiene	ug/L	ND	20	21.3	107	70-130	
m&p-Xylene	ug/L	ND	40	44.7	111	70-130	
Methyl-tert-butyl ether	ug/L	ND	20	20.6	103	70-130	
Methylene Chloride	ug/L	ND	20	21.6	108	70-130	

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QUALITY CONTROL DATA

Project: Legion Industries 6121-08-0484
Pace Project No.: 92230159

MATRIX SPIKE SAMPLE: 1358253

Parameter	Units	92230130003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Naphthalene	ug/L	ND	20	18.5	92	70-130	
o-Xylene	ug/L	ND	20	20.7	104	70-130	
p-Isopropyltoluene	ug/L	ND	20	20.8	104	70-130	
Styrene	ug/L	ND	20	20.7	104	70-130	
Tetrachloroethene	ug/L	ND	20	20.9	104	70-130	
Toluene	ug/L	ND	20	22.8	113	70-155	
trans-1,2-Dichloroethene	ug/L	ND	20	23.7	118	70-130	
trans-1,3-Dichloropropene	ug/L	ND	20	19.4	97	70-130	
Trichloroethene	ug/L	ND	20	21.8	109	69-151	
Trichlorofluoromethane	ug/L	ND	20	29.3	146	70-130	M0
Vinyl acetate	ug/L	ND	40	30.3	76	70-130	
Vinyl chloride	ug/L	ND	20	21.9	109	70-130	
1,2-Dichloroethane-d4 (S)	%				106	70-130	
4-Bromofluorobenzene (S)	%				90	70-130	
Toluene-d8 (S)	%				101	70-130	

SAMPLE DUPLICATE: 1358254

Parameter	Units	92230130004 Result	Dup Result	RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	ND		
1,1,1-Trichloroethane	ug/L	ND	ND		
1,1,2,2-Tetrachloroethane	ug/L	ND	ND		
1,1,2-Trichloroethane	ug/L	ND	ND		
1,1-Dichloroethane	ug/L	ND	ND		
1,1-Dichloroethene	ug/L	ND	ND		
1,1-Dichloropropene	ug/L	ND	ND		
1,2,3-Trichlorobenzene	ug/L	ND	ND		
1,2,3-Trichloropropane	ug/L	ND	ND		
1,2,4-Trichlorobenzene	ug/L	ND	ND		
1,2-Dibromo-3-chloropropane	ug/L	ND	ND		
1,2-Dibromoethane (EDB)	ug/L	ND	ND		
1,2-Dichlorobenzene	ug/L	ND	ND		
1,2-Dichloroethane	ug/L	ND	ND		
1,2-Dichloropropane	ug/L	ND	ND		
1,3-Dichlorobenzene	ug/L	ND	ND		
1,3-Dichloropropane	ug/L	ND	ND		
1,4-Dichlorobenzene	ug/L	ND	ND		
2,2-Dichloropropane	ug/L	ND	ND		
2-Butanone (MEK)	ug/L	ND	ND		
2-Chlorotoluene	ug/L	ND	ND		
2-Hexanone	ug/L	ND	ND		
4-Chlorotoluene	ug/L	ND	ND		
4-Methyl-2-pentanone (MIBK)	ug/L	ND	ND		
Acetone	ug/L	ND	ND		
Benzene	ug/L	ND	ND		

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QUALITY CONTROL DATA

Project: Legion Industries 6121-08-0484
Pace Project No.: 92230159

SAMPLE DUPLICATE: 1358254

Parameter	Units	92230130004 Result	Dup Result	RPD	Qualifiers
Bromobenzene	ug/L	ND	ND		
Bromochloromethane	ug/L	ND	ND		
Bromodichloromethane	ug/L	ND	ND		
Bromoform	ug/L	ND	ND		
Bromomethane	ug/L	ND	ND		
Carbon tetrachloride	ug/L	ND	ND		
Chlorobenzene	ug/L	ND	ND		
Chloroethane	ug/L	ND	ND		
Chloroform	ug/L	ND	ND		
Chloromethane	ug/L	ND	ND		
cis-1,2-Dichloroethene	ug/L	ND	.31J		
cis-1,3-Dichloropropene	ug/L	ND	ND		
Dibromochloromethane	ug/L	ND	ND		
Dibromomethane	ug/L	ND	ND		
Dichlorodifluoromethane	ug/L	ND	ND		
Diisopropyl ether	ug/L	ND	ND		
Ethylbenzene	ug/L	ND	ND		
Hexachloro-1,3-butadiene	ug/L	ND	ND		
m&p-Xylene	ug/L	ND	ND		
Methyl-tert-butyl ether	ug/L	ND	ND		
Methylene Chloride	ug/L	ND	ND		
Naphthalene	ug/L	ND	ND		
o-Xylene	ug/L	ND	ND		
p-Isopropyltoluene	ug/L	ND	ND		
Styrene	ug/L	ND	ND		
Tetrachloroethene	ug/L	ND	.6J		
Toluene	ug/L	ND	ND		
trans-1,2-Dichloroethene	ug/L	ND	ND		
trans-1,3-Dichloropropene	ug/L	ND	ND		
Trichloroethene	ug/L	ND	ND		
Trichlorofluoromethane	ug/L	ND	ND		
Vinyl acetate	ug/L	ND	ND		
Vinyl chloride	ug/L	ND	ND		
Xylene (Total)	ug/L	ND	ND		
1,2-Dichloroethane-d4 (S)	%	105	106	1	
4-Bromofluorobenzene (S)	%	89	89	0	
Toluene-d8 (S)	%	96	96	1	

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QUALITY CONTROL DATA

Project: Legion Industries 6121-08-0484
Pace Project No.: 92230159

QC Batch: MSV/29792 | Analysis Method: EPA 8260
QC Batch Method: EPA 8260 | Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92230159001, 92230159002

METHOD BLANK: 1358255 | Matrix: Water
Associated Lab Samples: 92230159001, 92230159002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	12/23/14 07:22	
1,1,1-Trichloroethane	ug/L	ND	1.0	12/23/14 07:22	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	12/23/14 07:22	
1,1,2-Trichloroethane	ug/L	ND	1.0	12/23/14 07:22	
1,1-Dichloroethane	ug/L	ND	1.0	12/23/14 07:22	
1,1-Dichloroethene	ug/L	ND	1.0	12/23/14 07:22	
1,1-Dichloropropene	ug/L	ND	1.0	12/23/14 07:22	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	12/23/14 07:22	
1,2,3-Trichloropropane	ug/L	ND	1.0	12/23/14 07:22	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	12/23/14 07:22	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.0	12/23/14 07:22	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	12/23/14 07:22	
1,2-Dichlorobenzene	ug/L	ND	1.0	12/23/14 07:22	
1,2-Dichloroethane	ug/L	ND	1.0	12/23/14 07:22	
1,2-Dichloropropane	ug/L	ND	1.0	12/23/14 07:22	
1,3-Dichlorobenzene	ug/L	ND	1.0	12/23/14 07:22	
1,3-Dichloropropane	ug/L	ND	1.0	12/23/14 07:22	
1,4-Dichlorobenzene	ug/L	ND	1.0	12/23/14 07:22	
2,2-Dichloropropane	ug/L	ND	1.0	12/23/14 07:22	
2-Butanone (MEK)	ug/L	ND	5.0	12/23/14 07:22	
2-Chlorotoluene	ug/L	ND	1.0	12/23/14 07:22	
2-Hexanone	ug/L	ND	5.0	12/23/14 07:22	
4-Chlorotoluene	ug/L	ND	1.0	12/23/14 07:22	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	12/23/14 07:22	
Acetone	ug/L	ND	25.0	12/23/14 07:22	
Benzene	ug/L	ND	1.0	12/23/14 07:22	
Bromobenzene	ug/L	ND	1.0	12/23/14 07:22	
Bromochloromethane	ug/L	ND	1.0	12/23/14 07:22	
Bromodichloromethane	ug/L	ND	1.0	12/23/14 07:22	
Bromoform	ug/L	ND	1.0	12/23/14 07:22	
Bromomethane	ug/L	ND	2.0	12/23/14 07:22	
Carbon tetrachloride	ug/L	ND	1.0	12/23/14 07:22	
Chlorobenzene	ug/L	ND	1.0	12/23/14 07:22	
Chloroethane	ug/L	ND	1.0	12/23/14 07:22	
Chloroform	ug/L	ND	1.0	12/23/14 07:22	
Chloromethane	ug/L	ND	1.0	12/23/14 07:22	
cis-1,2-Dichloroethene	ug/L	ND	1.0	12/23/14 07:22	
cis-1,3-Dichloropropene	ug/L	ND	1.0	12/23/14 07:22	
Dibromochloromethane	ug/L	ND	1.0	12/23/14 07:22	
Dibromomethane	ug/L	ND	1.0	12/23/14 07:22	
Dichlorodifluoromethane	ug/L	ND	1.0	12/23/14 07:22	

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QUALITY CONTROL DATA

Project: Legion Industries 6121-08-0484
Pace Project No.: 92230159

METHOD BLANK: 1358255 Matrix: Water
Associated Lab Samples: 92230159001, 92230159002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diisopropyl ether	ug/L	ND	1.0	12/23/14 07:22	
Ethylbenzene	ug/L	ND	1.0	12/23/14 07:22	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	12/23/14 07:22	
m&p-Xylene	ug/L	ND	2.0	12/23/14 07:22	
Methyl-tert-butyl ether	ug/L	ND	1.0	12/23/14 07:22	
Methylene Chloride	ug/L	ND	2.0	12/23/14 07:22	
Naphthalene	ug/L	ND	1.0	12/23/14 07:22	
o-Xylene	ug/L	ND	1.0	12/23/14 07:22	
p-Isopropyltoluene	ug/L	ND	1.0	12/23/14 07:22	
Styrene	ug/L	ND	1.0	12/23/14 07:22	
Tetrachloroethene	ug/L	ND	1.0	12/23/14 07:22	
Toluene	ug/L	ND	1.0	12/23/14 07:22	
trans-1,2-Dichloroethene	ug/L	ND	1.0	12/23/14 07:22	
trans-1,3-Dichloropropene	ug/L	ND	1.0	12/23/14 07:22	
Trichloroethene	ug/L	ND	1.0	12/23/14 07:22	
Trichlorofluoromethane	ug/L	ND	1.0	12/23/14 07:22	
Vinyl acetate	ug/L	ND	2.0	12/23/14 07:22	
Vinyl chloride	ug/L	ND	1.0	12/23/14 07:22	
Xylene (Total)	ug/L	ND	2.0	12/23/14 07:22	
1,2-Dichloroethane-d4 (S)	%	99	70-130	12/23/14 07:22	
4-Bromofluorobenzene (S)	%	98	70-130	12/23/14 07:22	
Toluene-d8 (S)	%	97	70-130	12/23/14 07:22	

LABORATORY CONTROL SAMPLE: 1358256

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	54.2	108	70-130	
1,1,1-Trichloroethane	ug/L	50	59.0	118	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	52.8	106	70-130	
1,1,2-Trichloroethane	ug/L	50	55.9	112	70-130	
1,1-Dichloroethane	ug/L	50	59.0	118	70-130	
1,1-Dichloroethene	ug/L	50	60.4	121	70-132	
1,1-Dichloropropene	ug/L	50	58.8	118	70-130	
1,2,3-Trichlorobenzene	ug/L	50	53.3	107	70-135	
1,2,3-Trichloropropane	ug/L	50	53.9	108	70-130	
1,2,4-Trichlorobenzene	ug/L	50	54.4	109	70-134	
1,2-Dibromo-3-chloropropane	ug/L	50	54.1	108	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	57.0	114	70-130	
1,2-Dichlorobenzene	ug/L	50	56.5	113	70-130	
1,2-Dichloroethane	ug/L	50	56.2	112	70-130	
1,2-Dichloropropane	ug/L	50	56.0	112	70-130	
1,3-Dichlorobenzene	ug/L	50	55.6	111	70-130	
1,3-Dichloropropane	ug/L	50	54.4	109	70-130	
1,4-Dichlorobenzene	ug/L	50	56.5	113	70-130	

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QUALITY CONTROL DATA

Project: Legion Industries 6121-08-0484
Pace Project No.: 92230159

LABORATORY CONTROL SAMPLE: 1358256

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,2-Dichloropropane	ug/L	50	51.7	103	58-145	
2-Butanone (MEK)	ug/L	100	100	100	70-145	
2-Chlorotoluene	ug/L	50	50.1	100	70-130	
2-Hexanone	ug/L	100	94.1	94	70-144	
4-Chlorotoluene	ug/L	50	54.7	109	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	98.6	99	70-140	
Acetone	ug/L	100	101	101	50-175	
Benzene	ug/L	50	55.6	111	70-130	
Bromobenzene	ug/L	50	55.5	111	70-130	
Bromochloromethane	ug/L	50	53.4	107	70-130	
Bromodichloromethane	ug/L	50	54.3	109	70-130	
Bromoform	ug/L	50	52.3	105	70-130	
Bromomethane	ug/L	50	38.0	76	54-130	
Carbon tetrachloride	ug/L	50	56.2	112	70-132	
Chlorobenzene	ug/L	50	55.5	111	70-130	
Chloroethane	ug/L	50	49.5	99	64-134	
Chloroform	ug/L	50	59.7	119	70-130	
Chloromethane	ug/L	50	46.3	93	64-130	
cis-1,2-Dichloroethene	ug/L	50	58.2	116	70-131	
cis-1,3-Dichloropropene	ug/L	50	54.4	109	70-130	
Dibromochloromethane	ug/L	50	56.3	113	70-130	
Dibromomethane	ug/L	50	56.5	113	70-131	
Dichlorodifluoromethane	ug/L	50	73.8	148	56-130	L0
Diisopropyl ether	ug/L	50	52.1	104	70-130	
Ethylbenzene	ug/L	50	52.7	105	70-130	
Hexachloro-1,3-butadiene	ug/L	50	44.5	89	70-130	
m&p-Xylene	ug/L	100	104	104	70-130	
Methyl-tert-butyl ether	ug/L	50	51.6	103	70-130	
Methylene Chloride	ug/L	50	55.8	112	63-130	
Naphthalene	ug/L	50	52.9	106	70-138	
o-Xylene	ug/L	50	51.8	104	70-130	
p-Isopropyltoluene	ug/L	50	53.2	106	70-130	
Styrene	ug/L	50	53.7	107	70-130	
Tetrachloroethene	ug/L	50	53.9	108	70-130	
Toluene	ug/L	50	55.1	110	70-130	
trans-1,2-Dichloroethene	ug/L	50	59.8	120	70-130	
trans-1,3-Dichloropropene	ug/L	50	54.1	108	70-132	
Trichloroethene	ug/L	50	55.1	110	70-130	
Trichlorofluoromethane	ug/L	50	65.0	130	62-133	
Vinyl acetate	ug/L	100	98.7	99	66-157	
Vinyl chloride	ug/L	50	53.5	107	50-150	
Xylene (Total)	ug/L	150	156	104	70-130	
1,2-Dichloroethane-d4 (S)	%			100	70-130	
4-Bromofluorobenzene (S)	%			95	70-130	
Toluene-d8 (S)	%			99	70-130	

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QUALITY CONTROL DATA

Project: Legion Industries 6121-08-0484
Pace Project No.: 92230159

MATRIX SPIKE SAMPLE: 1358257

Parameter	Units	92230130009 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20.8	104	70-130	
1,1,1-Trichloroethane	ug/L	ND	20	25.9	129	70-130	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	21.2	106	70-130	
1,1,2-Trichloroethane	ug/L	ND	20	21.5	108	70-130	
1,1-Dichloroethane	ug/L	ND	20	27.0	127	70-130	
1,1-Dichloroethene	ug/L	ND	20	26.5	133	70-166	
1,1-Dichloropropene	ug/L	ND	20	25.4	127	70-130	
1,2,3-Trichlorobenzene	ug/L	ND	20	20.0	100	70-130	
1,2,3-Trichloropropane	ug/L	ND	20	21.7	108	70-130	
1,2,4-Trichlorobenzene	ug/L	ND	20	20.9	105	70-130	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	18.4	92	70-130	
1,2-Dibromoethane (EDB)	ug/L	ND	20	21.8	109	70-130	
1,2-Dichlorobenzene	ug/L	ND	20	21.9	110	70-130	
1,2-Dichloroethane	ug/L	ND	20	23.2	116	70-130	
1,2-Dichloropropane	ug/L	ND	20	22.0	110	70-130	
1,3-Dichlorobenzene	ug/L	ND	20	22.2	111	70-130	
1,3-Dichloropropane	ug/L	ND	20	22.5	112	70-130	
1,4-Dichlorobenzene	ug/L	ND	20	22.2	111	70-130	
2,2-Dichloropropane	ug/L	ND	20	18.6	93	70-130	
2-Butanone (MEK)	ug/L	ND	40	37.5	94	70-130	
2-Chlorotoluene	ug/L	ND	20	20.8	104	70-130	
2-Hexanone	ug/L	ND	40	37.8	94	70-130	
4-Chlorotoluene	ug/L	ND	20	22.9	114	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	40	37.3	93	70-130	
Acetone	ug/L	ND	40	42.8	107	70-130	
Benzene	ug/L	ND	20	25.3	122	70-148	
Bromobenzene	ug/L	ND	20	22.2	111	70-130	
Bromochloromethane	ug/L	ND	20	22.5	113	70-130	
Bromodichloromethane	ug/L	ND	20	21.1	106	70-130	
Bromoform	ug/L	ND	20	16.8	84	70-130	
Bromomethane	ug/L	ND	20	7.5	38	70-130	M0
Carbon tetrachloride	ug/L	ND	20	24.2	121	70-130	
Chlorobenzene	ug/L	10.4	20	33.2	114	70-146	
Chloroethane	ug/L	ND	20	27.5	138	70-130	M0
Chloroform	ug/L	ND	20	26.0	130	70-130	
Chloromethane	ug/L	ND	20	19.6	98	70-130	
cis-1,2-Dichloroethene	ug/L	ND	20	24.6	123	70-130	
cis-1,3-Dichloropropene	ug/L	ND	20	19.7	98	70-130	
Dibromochloromethane	ug/L	ND	20	19.7	99	70-130	
Dibromomethane	ug/L	ND	20	20.2	101	70-130	
Dichlorodifluoromethane	ug/L	ND	20	34.0	170	70-130	M0
Diisopropyl ether	ug/L	ND	20	20.9	105	70-130	
Ethylbenzene	ug/L	ND	20	22.5	113	70-130	
Hexachloro-1,3-butadiene	ug/L	ND	20	22.7	114	70-130	
m&p-Xylene	ug/L	ND	40	44.6	111	70-130	
Methyl-tert-butyl ether	ug/L	ND	20	21.2	106	70-130	
Methylene Chloride	ug/L	ND	20	22.5	113	70-130	

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Legion Industries 6121-08-0484
Pace Project No.: 92230159

MATRIX SPIKE SAMPLE: 1358257

Parameter	Units	92230130009 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Naphthalene	ug/L	ND	20	19.5	98	70-130	
o-Xylene	ug/L	ND	20	21.4	106	70-130	
p-Isopropyltoluene	ug/L	ND	20	21.2	106	70-130	
Styrene	ug/L	ND	20	21.1	105	70-130	
Tetrachloroethene	ug/L	ND	20	21.5	106	70-130	
Toluene	ug/L	ND	20	22.9	114	70-155	
trans-1,2-Dichloroethene	ug/L	ND	20	25.6	128	70-130	
trans-1,3-Dichloropropene	ug/L	ND	20	19.8	99	70-130	
Trichloroethene	ug/L	ND	20	22.6	113	69-151	
Trichlorofluoromethane	ug/L	ND	20	30.7	154	70-130	M0
Vinyl acetate	ug/L	ND	40	32.2	80	70-130	
Vinyl chloride	ug/L	12.2	20	37.0	124	70-130	
1,2-Dichloroethane-d4 (S)	%				103	70-130	
4-Bromofluorobenzene (S)	%				90	70-130	
Toluene-d8 (S)	%				100	70-130	

SAMPLE DUPLICATE: 1358258

Parameter	Units	92230130010 Result	Dup Result	RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	ND		
1,1,1-Trichloroethane	ug/L	ND	ND		
1,1,2,2-Tetrachloroethane	ug/L	ND	ND		
1,1,2-Trichloroethane	ug/L	ND	ND		
1,1-Dichloroethane	ug/L	ND	ND		
1,1-Dichloroethene	ug/L	ND	ND		
1,1-Dichloropropene	ug/L	ND	ND		
1,2,3-Trichlorobenzene	ug/L	ND	ND		
1,2,3-Trichloropropane	ug/L	ND	ND		
1,2,4-Trichlorobenzene	ug/L	ND	ND		
1,2-Dibromo-3-chloropropane	ug/L	ND	ND		
1,2-Dibromoethane (EDB)	ug/L	ND	ND		
1,2-Dichlorobenzene	ug/L	ND	ND		
1,2-Dichloroethane	ug/L	ND	ND		
1,2-Dichloropropane	ug/L	ND	ND		
1,3-Dichlorobenzene	ug/L	ND	ND		
1,3-Dichloropropane	ug/L	ND	ND		
1,4-Dichlorobenzene	ug/L	ND	ND		
2,2-Dichloropropane	ug/L	ND	ND		
2-Butanone (MEK)	ug/L	ND	ND		
2-Chlorotoluene	ug/L	ND	ND		
2-Hexanone	ug/L	ND	ND		
4-Chlorotoluene	ug/L	ND	ND		
4-Methyl-2-pentanone (MIBK)	ug/L	ND	ND		
Acetone	ug/L	ND	ND		
Benzene	ug/L	12.9	12.4	4	

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QUALITY CONTROL DATA

Project: Legion Industries 6121-08-0484
Pace Project No.: 92230159

SAMPLE DUPLICATE: 1358258

Parameter	Units	92230130010 Result	Dup Result	RPD	Qualifiers
Bromobenzene	ug/L	ND	ND		
Bromochloromethane	ug/L	ND	ND		
Bromodichloromethane	ug/L	ND	ND		
Bromoform	ug/L	ND	ND		
Bromomethane	ug/L	ND	ND		
Carbon tetrachloride	ug/L	ND	ND		
Chlorobenzene	ug/L	48.1	48.6	1	
Chloroethane	ug/L	ND	ND		
Chloroform	ug/L	ND	ND		
Chloromethane	ug/L	ND	ND		
cis-1,2-Dichloroethene	ug/L	9.9	9.5	4	
cis-1,3-Dichloropropene	ug/L	ND	ND		
Dibromochloromethane	ug/L	ND	ND		
Dibromomethane	ug/L	ND	ND		
Dichlorodifluoromethane	ug/L	ND	ND		
Diisopropyl ether	ug/L	ND	.27J		
Ethylbenzene	ug/L	2.9	3.0	4	
Hexachloro-1,3-butadiene	ug/L	ND	ND		
m&p-Xylene	ug/L	10.1	10.1	0	
Methyl-tert-butyl ether	ug/L	ND	ND		
Methylene Chloride	ug/L	ND	ND		
Naphthalene	ug/L	ND	ND		
o-Xylene	ug/L	1.4	1.3	6	
p-Isopropyltoluene	ug/L	ND	ND		
Styrene	ug/L	ND	ND		
Tetrachloroethene	ug/L	ND	ND		
Toluene	ug/L	1.3	1.4	6	
trans-1,2-Dichloroethene	ug/L	ND	ND		
trans-1,3-Dichloropropene	ug/L	ND	ND		
Trichloroethene	ug/L	ND	ND		
Trichlorofluoromethane	ug/L	ND	ND		
Vinyl acetate	ug/L	ND	ND		
Vinyl chloride	ug/L	2.6	2.7	6	
Xylene (Total)	ug/L	11.5	11.4	1	
1,2-Dichloroethane-d4 (S)	%	104	104	0	
4-Bromofluorobenzene (S)	%	89	88	2	
Toluene-d8 (S)	%	100	98	2	

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QUALITY CONTROL DATA

Project: Legion Industries 6121-08-0484
Pace Project No.: 92230159

QC Batch: OEXT/31889 | Analysis Method: EPA 8081
QC Batch Method: EPA 3510 | Analysis Description: 8081A GCS Pesticides
Associated Lab Samples: 92230159001, 92230159002, 92230159003, 92230159004

METHOD BLANK: 1358234 | Matrix: Water
Associated Lab Samples: 92230159001, 92230159002, 92230159003, 92230159004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
4,4'-DDD	ug/L	ND	0.050	12/23/14 17:23	
4,4'-DDE	ug/L	ND	0.050	12/23/14 17:23	
4,4'-DDT	ug/L	ND	0.050	12/23/14 17:23	
Aldrin	ug/L	ND	0.050	12/23/14 17:23	
alpha-BHC	ug/L	ND	0.050	12/23/14 17:23	
beta-BHC	ug/L	ND	0.050	12/23/14 17:23	
Chlordane (Technical)	ug/L	ND	0.20	12/23/14 17:23	
delta-BHC	ug/L	ND	0.050	12/23/14 17:23	
Dieldrin	ug/L	ND	0.050	12/23/14 17:23	
Endosulfan I	ug/L	ND	0.050	12/23/14 17:23	
Endosulfan II	ug/L	ND	0.050	12/23/14 17:23	
Endosulfan sulfate	ug/L	ND	0.050	12/23/14 17:23	
Endrin	ug/L	ND	0.050	12/23/14 17:23	
Endrin aldehyde	ug/L	ND	0.050	12/23/14 17:23	
Endrin ketone	ug/L	ND	0.050	12/23/14 17:23	
gamma-BHC (Lindane)	ug/L	ND	0.050	12/23/14 17:23	
Heptachlor	ug/L	ND	0.050	12/23/14 17:23	
Heptachlor epoxide	ug/L	ND	0.050	12/23/14 17:23	
Hexachlorobenzene	ug/L	ND	0.050	12/23/14 17:23	
Methoxychlor	ug/L	ND	0.15	12/23/14 17:23	
Mirex	ug/L	ND	0.15	12/23/14 17:23	
Toxaphene	ug/L	ND	0.20	12/23/14 17:23	
Decachlorobiphenyl (S)	%	95	20-130	12/23/14 17:23	
Tetrachloro-m-xylene (S)	%	76	20-130	12/23/14 17:23	

LABORATORY CONTROL SAMPLE: 1358235

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4,4'-DDD	ug/L	.25	0.27	108	20-150	
4,4'-DDE	ug/L	.25	0.22	89	20-150	
4,4'-DDT	ug/L	.25	0.27	111	20-150	
Aldrin	ug/L	.25	0.17	68	20-150	
alpha-BHC	ug/L	.25	0.26	106	20-150	
beta-BHC	ug/L	.25	0.28	113	20-150	
delta-BHC	ug/L	.25	0.29	118	20-150	
Dieldrin	ug/L	.25	0.26	103	20-150	
Endosulfan I	ug/L	.25	0.29	117	20-150	
Endosulfan II	ug/L	.25	0.28	113	20-150	
Endosulfan sulfate	ug/L	.25	0.28	115	20-150	
Endrin	ug/L	.25	0.30	122	20-150	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Legion Industries 6121-08-0484
Pace Project No.: 92230159

LABORATORY CONTROL SAMPLE: 1358235

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Endrin aldehyde	ug/L	.25	0.24	98	20-150	
Endrin ketone	ug/L	.25	0.27	111	20-150	
gamma-BHC (Lindane)	ug/L	.25	0.27	110	20-150	
Heptachlor	ug/L	.25	0.22	88	20-150	
Heptachlor epoxide	ug/L	.25	0.26	106	20-150	
Hexachlorobenzene	ug/L	.25	0.21	83	20-150	
Methoxychlor	ug/L	.74	0.84	113	20-150	
Mirex	ug/L	.74	0.79	107	20-150	
Decachlorobiphenyl (S)	%			39	20-130	
Tetrachloro-m-xylene (S)	%			97	20-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1358236 1358237

Parameter	Units	92229727001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
4,4'-DDD	ug/L	ND	.5	.5	0.41	0.46	83	93	20-150	12	
4,4'-DDE	ug/L	ND	.5	.5	0.34	0.41	70	83	20-150	18	
4,4'-DDT	ug/L	ND	.5	.5	0.38	0.46	78	93	20-150	18	
Aldrin	ug/L	ND	.5	.5	0.29	0.34	59	69	20-150	15	
alpha-BHC	ug/L	ND	.5	.5	0.38	0.36	77	74	20-150	5	
beta-BHC	ug/L	ND	.5	.5	0.49	0.46	100	92	20-150	8	
delta-BHC	ug/L	ND	.5	.5	0.48	0.48	96	96	20-150	0	
Dieldrin	ug/L	ND	.5	.5	0.39	0.38	80	77	20-150	3	
Endosulfan I	ug/L	ND	.5	.5	0.43	0.43	86	86	20-150	0	
Endosulfan II	ug/L	ND	.5	.5	0.46	0.48	94	96	20-150	3	
Endosulfan sulfate	ug/L	ND	.5	.5	0.48	0.50	96	102	20-150	5	
Endrin	ug/L	ND	.5	.5	0.42	0.44	84	88	20-150	4	
Endrin aldehyde	ug/L	ND	.5	.5	0.42	0.41	85	82	20-150	4	
Endrin ketone	ug/L	ND	.5	.5	0.44	0.48	89	96	20-150	8	
gamma-BHC (Lindane)	ug/L	ND	.5	.5	0.41	0.41	83	83	20-150	0	
Heptachlor	ug/L	ND	.5	.5	0.38	0.47	76	94	20-150	22	
Heptachlor epoxide	ug/L	ND	.5	.5	0.40	0.39	81	79	20-150	3	
Hexachlorobenzene	ug/L	ND	.5	.5	0.29	0.30	59	61	20-150	4	
Methoxychlor	ug/L	ND	1.5	1.5	1.3	1.5	87	101	20-150	15	
Mirex	ug/L	ND	1.5	1.5	1.3	1.4	88	94	20-150	7	
Decachlorobiphenyl (S)	%						87	91	20-130		
Tetrachloro-m-xylene (S)	%						73	70	20-130		

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QUALIFIERS

Project: Legion Industries 6121-08-0484
Pace Project No.: 92230159

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Acid preservation may not be appropriate for 2-Chloroethylvinyl ether, Styrene, and Vinyl chloride.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-C	Pace Analytical Services - Charlotte

ANALYTE QUALIFIERS

D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
L0	Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
S4	Surrogate recovery not evaluated against control limits due to sample dilution.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Legion Industries 6121-08-0484
Pace Project No.: 92230159

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92230159001	**MW-2**	EPA 3510	OEXT/31889	EPA 8081	GCSV/19904
92230159002	**MW-17**	EPA 3510	OEXT/31889	EPA 8081	GCSV/19904
92230159003	**MW-3**	EPA 3510	OEXT/31889	EPA 8081	GCSV/19904
92230159004	**MW-12**	EPA 3510	OEXT/31889	EPA 8081	GCSV/19904
92230159001	**MW-2**	EPA 8260	MSV/29792		
92230159002	**MW-17**	EPA 8260	MSV/29792		
92230159003	**MW-3**	EPA 8260	MSV/29791		
92230159004	**MW-12**	EPA 8260	MSV/29791		
92230159005	**Trip Blank**	EPA 8260	MSV/29791		

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Pace Analytical® www.pacelabs.com	Document Name: **Sample Condition Upon Receipt (SCUR)**	Document Revised: June 10, 2014 Page 1 of 2
	Document No.: F-ASV-CS-003-rev.14	Issuing Authorities: Pace Asheville Quality Office

Client Name: Amec

Courier (Circle): Fed Ex UPS USPS Client Commercial Pace Other_____

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other_____

Thermometer Used: IR Gun#3 -130265963 **Type of Ice:** Wet Blue None ☑ Samples on ice, cooling process has begun

IR Gun #4 SN:140290365 Other:_____

Temp Correction Factor: Add / Subtract 0.0 C

Corrected Cooler Temp.: 12/3.6 C **Biological Tissue is Frozen:** Yes No N/A

Temp should be above freezing to 6°C

Date and Initials of person examining contents: RDB 12/17/14

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: WT		
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☐No	
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☑No ☐N/A	15.
Trip Blank Present:	☑Yes ☐No ☐N/A	16.
Trip Blank Custody Seals Present	☑Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased):_____		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

SCURF Review: JB **Date:** 12/17/14

SRF Review: AMB **Date:** 12-18-14

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

WO#: 92230159

92230159

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

1783474

Section A Required Client Information

Company: AMEC E&I
Address: 2677 BUFORD HWY
ATLANTA, GA 30324
Email To: STEVE.FOLEY@AMEC.COM
Phone: 404-817-0152 Fax:
Requested Due Date/TAT: 1 WK

Section B Required Project Information

Report To: STEVE FOLEY
Copy To:
Purchase Order No.:
Project Name: LEGION INDUSTRIES
Project Number: 6121-08-0444

Section C Invoice Information

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER HIRA

Site Location STATE: GA

Section D Required Client Information

Matrix Codes MATRIX / CODE: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Tissue TS, Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N): N, N

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start Date	Composite Start Time	Composite End/Grab Date	Composite End/Grab Time	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test ‡ VOCs, 8260 B	RESTRICTED	Residual Chlorine (Y/N)	Pace Project No./Lab I.D. 92230159
1	MW-2	WT	G			12/16/14	1105		4	2			2					X	X		001
2	MW-17	↓	↓			↓	1520		4	2			2					X	X		002
3	MW-3						1635		4	2			2					X	X		003
4	MW-19						1850		4	2			2					X	X		004
5	TRIP BLANK								2				2					X			005
6																					
7																					
8																					
9																					
10																					
11																					
12																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	SKR AMEC	12/17/14	0700	[illegible]	12/17/14	1535	3.6	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: STEPHEN R. FOLEY

SIGNATURE of SAMPLER: SKR DATE Signed (MM/DD/YY): 12/16/14

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

ORIGINAL

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

January 03, 2015

Steve Foley
AMEC Environment & Infrastruct
396 Plasters Avenue
Atlanta, GA 30324

RE: Project: Legion Industries6121-09-0444
Pace Project No.: 92230389

Dear Steve Foley:
Enclosed are the analytical results for sample(s) received by the laboratory on December 18, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kevin Godwin
kevin.godwin@pacelabs.com
Project Manager

Enclosures

cc: Chuck Ferry, AMEC Environment & Infrastruct

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CERTIFICATIONS

Project:	Legion Industries6121-09-0444
Pace Project No.:	92230389

Charlotte Certification IDs

9800 Kincey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
West Virginia Certification #: 357
Virginia/VELAP Certification #: 460221

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SAMPLE ANALYTE COUNT

Project: Legion Industries6121-09-0444
Pace Project No.: 92230389

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92230389001	**MW-1**	EPA 8081	RES	24	PASI-C
		EPA 8260	GAW	63	PASI-C
92230389002	**MW-16**	EPA 8081	RES	24	PASI-C
		EPA 8260	JDW1	63	PASI-C
92230389003	**MW-18**	EPA 8081	RES	24	PASI-C
		EPA 8260	GAW	63	PASI-C
92230389004	**PZ-2**	EPA 8081	RES	24	PASI-C
		EPA 8260	GAW	63	PASI-C
92230389005	**MW-13**	EPA 8081	RES	24	PASI-C
		EPA 8260	GAW	63	PASI-C
92230389007	**MW-15**	EPA 8081	RES	24	PASI-C
		EPA 8260	GAW	63	PASI-C
92230389008	**MW-4**	EPA 8081	RES	24	PASI-C
		EPA 8260	GAW	63	PASI-C
92230389009	**Trip Blank**	EPA 8260	GAW	63	PASI-C
92230389010	**DUP**	EPA 8081	RES	24	PASI-C
		EPA 8260	JDW1	63	PASI-C

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SUMMARY OF DETECTION

Project: Legion Industries6121-09-0444
Pace Project No.: 92230389

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92230389001	**MW-1**					
EPA 8081	beta-BHC	0.082	ug/L	0.050	12/24/14 18:53	
EPA 8081	Dieldrin	0.058	ug/L	0.050	12/24/14 18:53	
EPA 8081	Endrin ketone	0.17	ug/L	0.050	12/24/14 18:53	
EPA 8260	cis-1,2-Dichloroethene	709	ug/L	10.0	12/24/14 09:45	
EPA 8260	Trichloroethene	612	ug/L	10.0	12/24/14 09:45	
92230389002	**MW-16**					
EPA 8081	beta-BHC	0.48	ug/L	0.25	12/29/14 12:15	
EPA 8081	delta-BHC	1.8	ug/L	0.25	12/29/14 12:15	
EPA 8260	Benzene	3.7	ug/L	1.0	12/29/14 18:08	
EPA 8260	Chlorobenzene	11.7	ug/L	1.0	12/29/14 18:08	
EPA 8260	Chloromethane	7.8	ug/L	1.0	12/29/14 18:08	
EPA 8260	1,4-Dichlorobenzene	2.1	ug/L	1.0	12/29/14 18:08	
EPA 8260	Ethylbenzene	1.7	ug/L	1.0	12/29/14 18:08	
EPA 8260	Naphthalene	2.0	ug/L	1.0	12/29/14 18:08	
EPA 8260	Vinyl chloride	12.5	ug/L	1.0	12/29/14 18:08	
EPA 8260	o-Xylene	1.1	ug/L	1.0	12/29/14 18:08	
92230389003	**MW-18**					
EPA 8081	alpha-BHC	0.23	ug/L	0.20	12/29/14 12:32	
EPA 8081	beta-BHC	0.45	ug/L	0.20	12/29/14 12:32	
EPA 8081	delta-BHC	0.45	ug/L	0.20	12/29/14 12:32	
EPA 8081	gamma-BHC (Lindane)	0.30	ug/L	0.20	12/29/14 12:32	
EPA 8081	Endrin	0.51	ug/L	0.20	12/29/14 12:32	
EPA 8081	Endrin ketone	0.73	ug/L	0.20	12/29/14 12:32	
EPA 8260	cis-1,2-Dichloroethene	1710	ug/L	50.0	12/24/14 10:19	
EPA 8260	Trichloroethene	3590	ug/L	50.0	12/24/14 10:19	
EPA 8260	Vinyl chloride	838	ug/L	50.0	12/24/14 10:19	
92230389004	**PZ-2**					
EPA 8081	alpha-BHC	0.35	ug/L	0.25	12/29/14 12:50	
EPA 8081	beta-BHC	0.52	ug/L	0.25	12/29/14 12:50	
EPA 8081	delta-BHC	0.78	ug/L	0.25	12/29/14 12:50	
EPA 8081	gamma-BHC (Lindane)	0.41	ug/L	0.25	12/29/14 12:50	
EPA 8081	4,4'-DDD	2.2	ug/L	0.25	12/29/14 12:50	
EPA 8081	4,4'-DDT	0.55	ug/L	0.25	12/29/14 12:50	
EPA 8081	Dieldrin	0.43	ug/L	0.25	12/29/14 12:50	
EPA 8081	Endrin ketone	0.44	ug/L	0.25	12/29/14 12:50	
EPA 8260	cis-1,2-Dichloroethene	5380	ug/L	100	12/24/14 10:36	
EPA 8260	Trichloroethene	41600	ug/L	250	12/28/14 20:27	
EPA 8260	Vinyl chloride	1220	ug/L	100	12/24/14 10:36	
92230389005	**MW-13**					
EPA 8081	beta-BHC	3.7	ug/L	1.0	12/29/14 13:08	
EPA 8081	delta-BHC	1.9	ug/L	1.0	12/29/14 13:08	
EPA 8081	gamma-BHC (Lindane)	1.5	ug/L	1.0	12/29/14 13:08	
EPA 8081	4,4'-DDD	3.2	ug/L	1.0	12/29/14 13:08	
EPA 8081	4,4'-DDT	6.9	ug/L	1.0	12/29/14 13:08	
EPA 8081	Endrin	4.5	ug/L	1.0	12/29/14 13:08	

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SUMMARY OF DETECTION

Project: Legion Industries6121-09-0444
Pace Project No.: 92230389

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92230389005	**MW-13**					
EPA 8081	Endrin ketone	4.3	ug/L	1.0	12/29/14 13:08	
EPA 8260	Chlorobenzene	36.4	ug/L	20.0	12/24/14 10:52	
EPA 8260	1,4-Dichlorobenzene	41.1	ug/L	20.0	12/24/14 10:52	
EPA 8260	cis-1,2-Dichloroethene	1710	ug/L	20.0	12/24/14 10:52	
EPA 8260	Trichloroethene	4770	ug/L	50.0	12/28/14 20:43	
EPA 8260	Vinyl chloride	516	ug/L	20.0	12/24/14 10:52	
92230389007	**MW-15**					
EPA 8260	cis-1,2-Dichloroethene	62.0	ug/L	1.0	12/24/14 05:50	
EPA 8260	Trichloroethene	62.8	ug/L	1.0	12/24/14 05:50	
92230389008	**MW-4**					
EPA 8260	cis-1,2-Dichloroethene	3.2	ug/L	1.0	12/24/14 08:38	
EPA 8260	Trichloroethene	1.7	ug/L	1.0	12/24/14 08:38	
92230389010	**DUP**					
EPA 8081	beta-BHC	4.4	ug/L	1.0	12/29/14 13:25	
EPA 8081	delta-BHC	2.2	ug/L	1.0	12/29/14 13:25	
EPA 8081	gamma-BHC (Lindane)	1.5	ug/L	1.0	12/29/14 13:25	
EPA 8081	4,4'-DDD	3.9	ug/L	1.0	12/29/14 13:25	
EPA 8081	4,4'-DDT	8.4	ug/L	1.0	12/29/14 13:25	
EPA 8081	Endrin	5.6	ug/L	1.0	12/29/14 13:25	
EPA 8081	Endrin ketone	5.1	ug/L	1.0	12/29/14 13:25	
EPA 8260	cis-1,2-Dichloroethene	1850	ug/L	50.0	12/31/14 01:15	
EPA 8260	Trichloroethene	4460	ug/L	50.0	12/31/14 01:15	
EPA 8260	Vinyl chloride	588	ug/L	50.0	12/31/14 01:15	

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PROJECT NARRATIVE

Project: Legion Industries6121-09-0444
Pace Project No.: 92230389

Method: **EPA 8081**
Description: 8081 Organochlorine Pesticides
Client: AMEC Environment & Infrastructure
Date: January 03, 2015

General Information:
8 samples were analyzed for EPA 8081. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3510 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

QC Batch: OEXT/31889

S4: Surrogate recovery not evaluated against control limits due to sample dilution.

- DUP (Lab ID: 92230389010)
  - Tetrachloro-m-xylene (S)
- MW-13 (Lab ID: 92230389005)
  - Tetrachloro-m-xylene (S)
- MW-16 (Lab ID: 92230389002)
  - Tetrachloro-m-xylene (S)
- PZ-2 (Lab ID: 92230389004)
  - Tetrachloro-m-xylene (S)

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: Legion Industries6121-09-0444
Pace Project No.: 92230389

Method: **EPA 8081**
Description: 8081 Organochlorine Pesticides
Client: AMEC Environment & Infrastructure
Date: January 03, 2015

Analyte Comments:

QC Batch: OEXT/31889

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

- DUP (Lab ID: 92230389010)
  - Tetrachloro-m-xylene (S)
- MW-13 (Lab ID: 92230389005)
  - Tetrachloro-m-xylene (S)
- MW-16 (Lab ID: 92230389002)
  - Tetrachloro-m-xylene (S)
- MW-18 (Lab ID: 92230389003)
  - Tetrachloro-m-xylene (S)
- PZ-2 (Lab ID: 92230389004)
  - Tetrachloro-m-xylene (S)

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PROJECT NARRATIVE

Project: Legion Industries6121-09-0444
Pace Project No.: 92230389

Method: **EPA 8260**
Description: 8260 MSV Low Level
Client: AMEC Environment & Infrastructure
Date: January 03, 2015

General Information:
9 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: MSV/29809

L3: Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.

- LCS (Lab ID: 1359394)
  - Dichlorodifluoromethane
  - Trichlorofluoromethane

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MSV/29809

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92230389007

M0: Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

- MS (Lab ID: 1359395)
  - Bromomethane
  - Trichlorofluoromethane
  - cis-1,2-Dichloroethene

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PROJECT NARRATIVE

Project: Legion Industries6121-09-0444
Pace Project No.: 92230389

Method: **EPA 8260**
Description: 8260 MSV Low Level
Client: AMEC Environment & Infrastructure
Date: January 03, 2015

QC Batch: MSV/29833

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92230268008

M0: Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

- MS (Lab ID: 1360498)
  - Bromomethane
  - Chloroethane
  - Chloromethane
  - Dichlorodifluoromethane

QC Batch: MSV/29858

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92230600006

M0: Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

- MS (Lab ID: 1361108)
  - Bromomethane
  - Chloroethane

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: Legion Industries6121-09-0444
Pace Project No.: 92230389

Sample: MW-1 **Lab ID: 92230389001** Collected: 12/17/14 09:28 Received: 12/18/14 15:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8081 Organochlorine Pesticides	Analytical Method: EPA 8081 Preparation Method: EPA 3510							
Aldrin	ND	ug/L	0.050	1	12/23/14 08:14	12/24/14 18:53	309-00-2	
alpha-BHC	ND	ug/L	0.050	1	12/23/14 08:14	12/24/14 18:53	319-84-6	
beta-BHC	**0.082**	ug/L	0.050	1	12/23/14 08:14	12/24/14 18:53	319-85-7	
delta-BHC	ND	ug/L	0.050	1	12/23/14 08:14	12/24/14 18:53	319-86-8	
gamma-BHC (Lindane)	ND	ug/L	0.050	1	12/23/14 08:14	12/24/14 18:53	58-89-9	
Chlordane (Technical)	ND	ug/L	0.20	1	12/23/14 08:14	12/24/14 18:53	57-74-9	
4,4'-DDD	ND	ug/L	0.050	1	12/23/14 08:14	12/24/14 18:53	72-54-8	
4,4'-DDE	ND	ug/L	0.050	1	12/23/14 08:14	12/24/14 18:53	72-55-9	
4,4'-DDT	ND	ug/L	0.050	1	12/23/14 08:14	12/24/14 18:53	50-29-3	
Dieldrin	**0.058**	ug/L	0.050	1	12/23/14 08:14	12/24/14 18:53	60-57-1	
Endosulfan I	ND	ug/L	0.050	1	12/23/14 08:14	12/24/14 18:53	959-98-8	
Endosulfan II	ND	ug/L	0.050	1	12/23/14 08:14	12/24/14 18:53	33213-65-9	
Endosulfan sulfate	ND	ug/L	0.050	1	12/23/14 08:14	12/24/14 18:53	1031-07-8	
Endrin	ND	ug/L	0.050	1	12/23/14 08:14	12/24/14 18:53	72-20-8	
Endrin aldehyde	ND	ug/L	0.050	1	12/23/14 08:14	12/24/14 18:53	7421-93-4	
Endrin ketone	**0.17**	ug/L	0.050	1	12/23/14 08:14	12/24/14 18:53	53494-70-5	
Heptachlor	ND	ug/L	0.050	1	12/23/14 08:14	12/24/14 18:53	76-44-8	
Heptachlor epoxide	ND	ug/L	0.050	1	12/23/14 08:14	12/24/14 18:53	1024-57-3	
Hexachlorobenzene	ND	ug/L	0.050	1	12/23/14 08:14	12/24/14 18:53	118-74-1	
Methoxychlor	ND	ug/L	0.15	1	12/23/14 08:14	12/24/14 18:53	72-43-5	
Mirex	ND	ug/L	0.15	1	12/23/14 08:14	12/24/14 18:53	2385-85-5	
Toxaphene	ND	ug/L	0.20	1	12/23/14 08:14	12/24/14 18:53	8001-35-2	
Surrogates								
Tetrachloro-m-xylene (S)	54	%	20-130	1	12/23/14 08:14	12/24/14 18:53	877-09-8	
Decachlorobiphenyl (S)	54	%	20-130	1	12/23/14 08:14	12/24/14 18:53	2051-24-3	
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	250	10		12/24/14 09:45	67-64-1	
Benzene	ND	ug/L	10.0	10		12/24/14 09:45	71-43-2	
Bromobenzene	ND	ug/L	10.0	10		12/24/14 09:45	108-86-1	
Bromochloromethane	ND	ug/L	10.0	10		12/24/14 09:45	74-97-5	
Bromodichloromethane	ND	ug/L	10.0	10		12/24/14 09:45	75-27-4	
Bromoform	ND	ug/L	10.0	10		12/24/14 09:45	75-25-2	
Bromomethane	ND	ug/L	20.0	10		12/24/14 09:45	74-83-9	
2-Butanone (MEK)	ND	ug/L	50.0	10		12/24/14 09:45	78-93-3	
Carbon tetrachloride	ND	ug/L	10.0	10		12/24/14 09:45	56-23-5	
Chlorobenzene	ND	ug/L	10.0	10		12/24/14 09:45	108-90-7	
Chloroethane	ND	ug/L	10.0	10		12/24/14 09:45	75-00-3	
Chloroform	ND	ug/L	10.0	10		12/24/14 09:45	67-66-3	
Chloromethane	ND	ug/L	10.0	10		12/24/14 09:45	74-87-3	
2-Chlorotoluene	ND	ug/L	10.0	10		12/24/14 09:45	95-49-8	
4-Chlorotoluene	ND	ug/L	10.0	10		12/24/14 09:45	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	20.0	10		12/24/14 09:45	96-12-8	
Dibromochloromethane	ND	ug/L	10.0	10		12/24/14 09:45	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	10.0	10		12/24/14 09:45	106-93-4	
Dibromomethane	ND	ug/L	10.0	10		12/24/14 09:45	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	10.0	10		12/24/14 09:45	95-50-1	

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ANALYTICAL RESULTS

Project: Legion Industries6121-09-0444
Pace Project No.: 92230389

Sample: MW-1 **Lab ID: 92230389001** Collected: 12/17/14 09:28 Received: 12/18/14 15:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
1,3-Dichlorobenzene	ND	ug/L	10.0	10		12/24/14 09:45	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	10		12/24/14 09:45	106-46-7	
Dichlorodifluoromethane	ND	ug/L	10.0	10		12/24/14 09:45	75-71-8	
1,1-Dichloroethane	ND	ug/L	10.0	10		12/24/14 09:45	75-34-3	
1,2-Dichloroethane	ND	ug/L	10.0	10		12/24/14 09:45	107-06-2	
1,1-Dichloroethene	ND	ug/L	10.0	10		12/24/14 09:45	75-35-4	
cis-1,2-Dichloroethene	**709**	ug/L	10.0	10		12/24/14 09:45	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	10.0	10		12/24/14 09:45	156-60-5	
1,2-Dichloropropane	ND	ug/L	10.0	10		12/24/14 09:45	78-87-5	
1,3-Dichloropropane	ND	ug/L	10.0	10		12/24/14 09:45	142-28-9	
2,2-Dichloropropane	ND	ug/L	10.0	10		12/24/14 09:45	594-20-7	
1,1-Dichloropropene	ND	ug/L	10.0	10		12/24/14 09:45	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	10.0	10		12/24/14 09:45	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	10.0	10		12/24/14 09:45	10061-02-6	
Diisopropyl ether	ND	ug/L	10.0	10		12/24/14 09:45	108-20-3	
Ethylbenzene	ND	ug/L	10.0	10		12/24/14 09:45	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	10		12/24/14 09:45	87-68-3	
2-Hexanone	ND	ug/L	50.0	10		12/24/14 09:45	591-78-6	
p-Isopropyltoluene	ND	ug/L	10.0	10		12/24/14 09:45	99-87-6	
Methylene Chloride	ND	ug/L	20.0	10		12/24/14 09:45	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	50.0	10		12/24/14 09:45	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	10.0	10		12/24/14 09:45	1634-04-4	
Naphthalene	ND	ug/L	10.0	10		12/24/14 09:45	91-20-3	
Styrene	ND	ug/L	10.0	10		12/24/14 09:45	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	10.0	10		12/24/14 09:45	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	10.0	10		12/24/14 09:45	79-34-5	
Tetrachloroethene	ND	ug/L	10.0	10		12/24/14 09:45	127-18-4	
Toluene	ND	ug/L	10.0	10		12/24/14 09:45	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	10.0	10		12/24/14 09:45	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	10		12/24/14 09:45	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	10.0	10		12/24/14 09:45	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	10.0	10		12/24/14 09:45	79-00-5	
Trichloroethene	**612**	ug/L	10.0	10		12/24/14 09:45	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	10		12/24/14 09:45	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	10.0	10		12/24/14 09:45	96-18-4	
Vinyl acetate	ND	ug/L	20.0	10		12/24/14 09:45	108-05-4	
Vinyl chloride	ND	ug/L	10.0	10		12/24/14 09:45	75-01-4	
Xylene (Total)	ND	ug/L	20.0	10		12/24/14 09:45	1330-20-7	
m&p-Xylene	ND	ug/L	20.0	10		12/24/14 09:45	179601-23-1	
o-Xylene	ND	ug/L	10.0	10		12/24/14 09:45	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	88	%	70-130	10		12/24/14 09:45	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130	10		12/24/14 09:45	17060-07-0	
Toluene-d8 (S)	98	%	70-130	10		12/24/14 09:45	2037-26-5	

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ANALYTICAL RESULTS

Project: Legion Industries6121-09-0444
Pace Project No.: 92230389

Sample: MW-16 **Lab ID: 92230389002** Collected: 12/17/14 10:30 Received: 12/18/14 15:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8081 Organochlorine Pesticides	Analytical Method: EPA 8081 Preparation Method: EPA 3510							
Aldrin	ND	ug/L	0.25	5	12/23/14 08:14	12/29/14 12:15	309-00-2	
alpha-BHC	ND	ug/L	0.25	5	12/23/14 08:14	12/29/14 12:15	319-84-6	
beta-BHC	**0.48**	ug/L	0.25	5	12/23/14 08:14	12/29/14 12:15	319-85-7	
delta-BHC	**1.8**	ug/L	0.25	5	12/23/14 08:14	12/29/14 12:15	319-86-8	
gamma-BHC (Lindane)	ND	ug/L	0.25	5	12/23/14 08:14	12/29/14 12:15	58-89-9	
Chlordane (Technical)	ND	ug/L	1.0	5	12/23/14 08:14	12/29/14 12:15	57-74-9	
4,4'-DDD	ND	ug/L	0.25	5	12/23/14 08:14	12/29/14 12:15	72-54-8	
4,4'-DDE	ND	ug/L	0.25	5	12/23/14 08:14	12/29/14 12:15	72-55-9	
4,4'-DDT	ND	ug/L	0.25	5	12/23/14 08:14	12/29/14 12:15	50-29-3	
Dieldrin	ND	ug/L	0.25	5	12/23/14 08:14	12/29/14 12:15	60-57-1	
Endosulfan I	ND	ug/L	0.25	5	12/23/14 08:14	12/29/14 12:15	959-98-8	
Endosulfan II	ND	ug/L	0.25	5	12/23/14 08:14	12/29/14 12:15	33213-65-9	
Endosulfan sulfate	ND	ug/L	0.25	5	12/23/14 08:14	12/29/14 12:15	1031-07-8	
Endrin	ND	ug/L	0.25	5	12/23/14 08:14	12/29/14 12:15	72-20-8	
Endrin aldehyde	ND	ug/L	0.25	5	12/23/14 08:14	12/29/14 12:15	7421-93-4	
Endrin ketone	ND	ug/L	0.25	5	12/23/14 08:14	12/29/14 12:15	53494-70-5	
Heptachlor	ND	ug/L	0.25	5	12/23/14 08:14	12/29/14 12:15	76-44-8	
Heptachlor epoxide	ND	ug/L	0.25	5	12/23/14 08:14	12/29/14 12:15	1024-57-3	
Hexachlorobenzene	ND	ug/L	0.25	5	12/23/14 08:14	12/29/14 12:15	118-74-1	
Methoxychlor	ND	ug/L	0.75	5	12/23/14 08:14	12/29/14 12:15	72-43-5	
Mirex	ND	ug/L	0.75	5	12/23/14 08:14	12/29/14 12:15	2385-85-5	
Toxaphene	ND	ug/L	1.0	5	12/23/14 08:14	12/29/14 12:15	8001-35-2	
Surrogates								
Tetrachloro-m-xylene (S)	0	%	20-130	5	12/23/14 08:14	12/29/14 12:15	877-09-8	D3,S4
Decachlorobiphenyl (S)	0	%	20-130	5	12/23/14 08:14	12/29/14 12:15	2051-24-3	
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		12/29/14 18:08	67-64-1	
Benzene	**3.7**	ug/L	1.0	1		12/29/14 18:08	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		12/29/14 18:08	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		12/29/14 18:08	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		12/29/14 18:08	75-27-4	
Bromoform	ND	ug/L	1.0	1		12/29/14 18:08	75-25-2	
Bromomethane	ND	ug/L	2.0	1		12/29/14 18:08	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		12/29/14 18:08	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		12/29/14 18:08	56-23-5	
Chlorobenzene	**11.7**	ug/L	1.0	1		12/29/14 18:08	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/29/14 18:08	75-00-3	
Chloroform	ND	ug/L	1.0	1		12/29/14 18:08	67-66-3	
Chloromethane	**7.8**	ug/L	1.0	1		12/29/14 18:08	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		12/29/14 18:08	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		12/29/14 18:08	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		12/29/14 18:08	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		12/29/14 18:08	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		12/29/14 18:08	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		12/29/14 18:08	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		12/29/14 18:08	95-50-1	

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ANALYTICAL RESULTS

Project: Legion Industries6121-09-0444
Pace Project No.: 92230389

Sample: MW-16 **Lab ID: 92230389002** Collected: 12/17/14 10:30 Received: 12/18/14 15:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
1,3-Dichlorobenzene	ND	ug/L	1.0	1		12/29/14 18:08	541-73-1	
1,4-Dichlorobenzene	**2.1**	ug/L	1.0	1		12/29/14 18:08	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		12/29/14 18:08	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		12/29/14 18:08	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		12/29/14 18:08	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		12/29/14 18:08	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		12/29/14 18:08	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/29/14 18:08	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		12/29/14 18:08	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		12/29/14 18:08	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		12/29/14 18:08	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		12/29/14 18:08	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		12/29/14 18:08	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		12/29/14 18:08	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		12/29/14 18:08	108-20-3	
Ethylbenzene	**1.7**	ug/L	1.0	1		12/29/14 18:08	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		12/29/14 18:08	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		12/29/14 18:08	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		12/29/14 18:08	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		12/29/14 18:08	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		12/29/14 18:08	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		12/29/14 18:08	1634-04-4	
Naphthalene	**2.0**	ug/L	1.0	1		12/29/14 18:08	91-20-3	
Styrene	ND	ug/L	1.0	1		12/29/14 18:08	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		12/29/14 18:08	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		12/29/14 18:08	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		12/29/14 18:08	127-18-4	
Toluene	ND	ug/L	1.0	1		12/29/14 18:08	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		12/29/14 18:08	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		12/29/14 18:08	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		12/29/14 18:08	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		12/29/14 18:08	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		12/29/14 18:08	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/29/14 18:08	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		12/29/14 18:08	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		12/29/14 18:08	108-05-4	
Vinyl chloride	**12.5**	ug/L	1.0	1		12/29/14 18:08	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		12/29/14 18:08	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		12/29/14 18:08	179601-23-1	
o-Xylene	**1.1**	ug/L	1.0	1		12/29/14 18:08	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	101	%	70-130	1		12/29/14 18:08	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	70-130	1		12/29/14 18:08	17060-07-0	
Toluene-d8 (S)	99	%	70-130	1		12/29/14 18:08	2037-26-5	

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ANALYTICAL RESULTS

Project: Legion Industries6121-09-0444
Pace Project No.: 92230389

Sample: MW-18 **Lab ID: 92230389003** Collected: 12/17/14 13:00 Received: 12/18/14 15:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8081 Organochlorine Pesticides	Analytical Method: EPA 8081 Preparation Method: EPA 3510							
Aldrin	ND	ug/L	0.20	4	12/23/14 08:14	12/29/14 12:32	309-00-2	
alpha-BHC	**0.23**	ug/L	0.20	4	12/23/14 08:14	12/29/14 12:32	319-84-6	
beta-BHC	**0.45**	ug/L	0.20	4	12/23/14 08:14	12/29/14 12:32	319-85-7	
delta-BHC	**0.45**	ug/L	0.20	4	12/23/14 08:14	12/29/14 12:32	319-86-8	
gamma-BHC (Lindane)	**0.30**	ug/L	0.20	4	12/23/14 08:14	12/29/14 12:32	58-89-9	
Chlordane (Technical)	ND	ug/L	0.80	4	12/23/14 08:14	12/29/14 12:32	57-74-9	
4,4'-DDD	ND	ug/L	0.20	4	12/23/14 08:14	12/29/14 12:32	72-54-8	
4,4'-DDE	ND	ug/L	0.20	4	12/23/14 08:14	12/29/14 12:32	72-55-9	
4,4'-DDT	ND	ug/L	0.20	4	12/23/14 08:14	12/29/14 12:32	50-29-3	
Dieldrin	ND	ug/L	0.20	4	12/23/14 08:14	12/29/14 12:32	60-57-1	
Endosulfan I	ND	ug/L	0.20	4	12/23/14 08:14	12/29/14 12:32	959-98-8	
Endosulfan II	ND	ug/L	0.20	4	12/23/14 08:14	12/29/14 12:32	33213-65-9	
Endosulfan sulfate	ND	ug/L	0.20	4	12/23/14 08:14	12/29/14 12:32	1031-07-8	
Endrin	**0.51**	ug/L	0.20	4	12/23/14 08:14	12/29/14 12:32	72-20-8	
Endrin aldehyde	ND	ug/L	0.20	4	12/23/14 08:14	12/29/14 12:32	7421-93-4	
Endrin ketone	**0.73**	ug/L	0.20	4	12/23/14 08:14	12/29/14 12:32	53494-70-5	
Heptachlor	ND	ug/L	0.20	4	12/23/14 08:14	12/29/14 12:32	76-44-8	
Heptachlor epoxide	ND	ug/L	0.20	4	12/23/14 08:14	12/29/14 12:32	1024-57-3	
Hexachlorobenzene	ND	ug/L	0.20	4	12/23/14 08:14	12/29/14 12:32	118-74-1	
Methoxychlor	ND	ug/L	0.60	4	12/23/14 08:14	12/29/14 12:32	72-43-5	
Mirex	ND	ug/L	0.60	4	12/23/14 08:14	12/29/14 12:32	2385-85-5	
Toxaphene	ND	ug/L	0.80	4	12/23/14 08:14	12/29/14 12:32	8001-35-2	
Surrogates								
Tetrachloro-m-xylene (S)	56	%	20-130	4	12/23/14 08:14	12/29/14 12:32	877-09-8	D3
Decachlorobiphenyl (S)	96	%	20-130	4	12/23/14 08:14	12/29/14 12:32	2051-24-3	
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	1250	50		12/24/14 10:19	67-64-1	
Benzene	ND	ug/L	50.0	50		12/24/14 10:19	71-43-2	
Bromobenzene	ND	ug/L	50.0	50		12/24/14 10:19	108-86-1	
Bromochloromethane	ND	ug/L	50.0	50		12/24/14 10:19	74-97-5	
Bromodichloromethane	ND	ug/L	50.0	50		12/24/14 10:19	75-27-4	
Bromoform	ND	ug/L	50.0	50		12/24/14 10:19	75-25-2	
Bromomethane	ND	ug/L	100	50		12/24/14 10:19	74-83-9	
2-Butanone (MEK)	ND	ug/L	250	50		12/24/14 10:19	78-93-3	
Carbon tetrachloride	ND	ug/L	50.0	50		12/24/14 10:19	56-23-5	
Chlorobenzene	ND	ug/L	50.0	50		12/24/14 10:19	108-90-7	
Chloroethane	ND	ug/L	50.0	50		12/24/14 10:19	75-00-3	
Chloroform	ND	ug/L	50.0	50		12/24/14 10:19	67-66-3	
Chloromethane	ND	ug/L	50.0	50		12/24/14 10:19	74-87-3	
2-Chlorotoluene	ND	ug/L	50.0	50		12/24/14 10:19	95-49-8	
4-Chlorotoluene	ND	ug/L	50.0	50		12/24/14 10:19	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	100	50		12/24/14 10:19	96-12-8	
Dibromochloromethane	ND	ug/L	50.0	50		12/24/14 10:19	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	50.0	50		12/24/14 10:19	106-93-4	
Dibromomethane	ND	ug/L	50.0	50		12/24/14 10:19	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	50.0	50		12/24/14 10:19	95-50-1	

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ANALYTICAL RESULTS

Project: Legion Industries6121-09-0444
Pace Project No.: 92230389

Sample: MW-18 **Lab ID: 92230389003** Collected: 12/17/14 13:00 Received: 12/18/14 15:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
1,3-Dichlorobenzene	ND	ug/L	50.0	50		12/24/14 10:19	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	50.0	50		12/24/14 10:19	106-46-7	
Dichlorodifluoromethane	ND	ug/L	50.0	50		12/24/14 10:19	75-71-8	
1,1-Dichloroethane	ND	ug/L	50.0	50		12/24/14 10:19	75-34-3	
1,2-Dichloroethane	ND	ug/L	50.0	50		12/24/14 10:19	107-06-2	
1,1-Dichloroethene	ND	ug/L	50.0	50		12/24/14 10:19	75-35-4	
cis-1,2-Dichloroethene	**1710**	ug/L	50.0	50		12/24/14 10:19	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	50.0	50		12/24/14 10:19	156-60-5	
1,2-Dichloropropane	ND	ug/L	50.0	50		12/24/14 10:19	78-87-5	
1,3-Dichloropropane	ND	ug/L	50.0	50		12/24/14 10:19	142-28-9	
2,2-Dichloropropane	ND	ug/L	50.0	50		12/24/14 10:19	594-20-7	
1,1-Dichloropropene	ND	ug/L	50.0	50		12/24/14 10:19	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	50.0	50		12/24/14 10:19	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	50.0	50		12/24/14 10:19	10061-02-6	
Diisopropyl ether	ND	ug/L	50.0	50		12/24/14 10:19	108-20-3	
Ethylbenzene	ND	ug/L	50.0	50		12/24/14 10:19	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	50.0	50		12/24/14 10:19	87-68-3	
2-Hexanone	ND	ug/L	250	50		12/24/14 10:19	591-78-6	
p-Isopropyltoluene	ND	ug/L	50.0	50		12/24/14 10:19	99-87-6	
Methylene Chloride	ND	ug/L	100	50		12/24/14 10:19	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	250	50		12/24/14 10:19	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	50.0	50		12/24/14 10:19	1634-04-4	
Naphthalene	ND	ug/L	50.0	50		12/24/14 10:19	91-20-3	
Styrene	ND	ug/L	50.0	50		12/24/14 10:19	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	50.0	50		12/24/14 10:19	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	50.0	50		12/24/14 10:19	79-34-5	
Tetrachloroethene	ND	ug/L	50.0	50		12/24/14 10:19	127-18-4	
Toluene	ND	ug/L	50.0	50		12/24/14 10:19	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	50.0	50		12/24/14 10:19	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	50.0	50		12/24/14 10:19	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	50.0	50		12/24/14 10:19	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	50.0	50		12/24/14 10:19	79-00-5	
Trichloroethene	**3590**	ug/L	50.0	50		12/24/14 10:19	79-01-6	
Trichlorofluoromethane	ND	ug/L	50.0	50		12/24/14 10:19	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	50.0	50		12/24/14 10:19	96-18-4	
Vinyl acetate	ND	ug/L	100	50		12/24/14 10:19	108-05-4	
Vinyl chloride	**838**	ug/L	50.0	50		12/24/14 10:19	75-01-4	
Xylene (Total)	ND	ug/L	100	50		12/24/14 10:19	1330-20-7	
m&p-Xylene	ND	ug/L	100	50		12/24/14 10:19	179601-23-1	
o-Xylene	ND	ug/L	50.0	50		12/24/14 10:19	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	90	%	70-130	50		12/24/14 10:19	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	70-130	50		12/24/14 10:19	17060-07-0	
Toluene-d8 (S)	99	%	70-130	50		12/24/14 10:19	2037-26-5	

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ANALYTICAL RESULTS

Project: Legion Industries6121-09-0444
Pace Project No.: 92230389

Sample: PZ-2 **Lab ID: 92230389004** Collected: 12/17/14 13:20 Received: 12/18/14 15:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8081 Organochlorine Pesticides	Analytical Method: EPA 8081 Preparation Method: EPA 3510							
Aldrin	ND	ug/L	0.25	5	12/23/14 08:14	12/29/14 12:50	309-00-2	
alpha-BHC	**0.35**	ug/L	0.25	5	12/23/14 08:14	12/29/14 12:50	319-84-6	
beta-BHC	**0.52**	ug/L	0.25	5	12/23/14 08:14	12/29/14 12:50	319-85-7	
delta-BHC	**0.78**	ug/L	0.25	5	12/23/14 08:14	12/29/14 12:50	319-86-8	
gamma-BHC (Lindane)	**0.41**	ug/L	0.25	5	12/23/14 08:14	12/29/14 12:50	58-89-9	
Chlordane (Technical)	ND	ug/L	1.0	5	12/23/14 08:14	12/29/14 12:50	57-74-9	
4,4'-DDD	**2.2**	ug/L	0.25	5	12/23/14 08:14	12/29/14 12:50	72-54-8	
4,4'-DDE	ND	ug/L	0.25	5	12/23/14 08:14	12/29/14 12:50	72-55-9	
4,4'-DDT	**0.55**	ug/L	0.25	5	12/23/14 08:14	12/29/14 12:50	50-29-3	
Dieldrin	**0.43**	ug/L	0.25	5	12/23/14 08:14	12/29/14 12:50	60-57-1	
Endosulfan I	ND	ug/L	0.25	5	12/23/14 08:14	12/29/14 12:50	959-98-8	
Endosulfan II	ND	ug/L	0.25	5	12/23/14 08:14	12/29/14 12:50	33213-65-9	
Endosulfan sulfate	ND	ug/L	0.25	5	12/23/14 08:14	12/29/14 12:50	1031-07-8	
Endrin	ND	ug/L	0.25	5	12/23/14 08:14	12/29/14 12:50	72-20-8	
Endrin aldehyde	ND	ug/L	0.25	5	12/23/14 08:14	12/29/14 12:50	7421-93-4	
Endrin ketone	**0.44**	ug/L	0.25	5	12/23/14 08:14	12/29/14 12:50	53494-70-5	
Heptachlor	ND	ug/L	0.25	5	12/23/14 08:14	12/29/14 12:50	76-44-8	
Heptachlor epoxide	ND	ug/L	0.25	5	12/23/14 08:14	12/29/14 12:50	1024-57-3	
Hexachlorobenzene	ND	ug/L	0.25	5	12/23/14 08:14	12/29/14 12:50	118-74-1	
Methoxychlor	ND	ug/L	0.75	5	12/23/14 08:14	12/29/14 12:50	72-43-5	
Mirex	ND	ug/L	0.75	5	12/23/14 08:14	12/29/14 12:50	2385-85-5	
Toxaphene	ND	ug/L	1.0	5	12/23/14 08:14	12/29/14 12:50	8001-35-2	
Surrogates								
Tetrachloro-m-xylene (S)	0	%	20-130	5	12/23/14 08:14	12/29/14 12:50	877-09-8	D3,S4
Decachlorobiphenyl (S)	0	%	20-130	5	12/23/14 08:14	12/29/14 12:50	2051-24-3	
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	2500	100		12/24/14 10:36	67-64-1	
Benzene	ND	ug/L	100	100		12/24/14 10:36	71-43-2	
Bromobenzene	ND	ug/L	100	100		12/24/14 10:36	108-86-1	
Bromochloromethane	ND	ug/L	100	100		12/24/14 10:36	74-97-5	
Bromodichloromethane	ND	ug/L	100	100		12/24/14 10:36	75-27-4	
Bromoform	ND	ug/L	100	100		12/24/14 10:36	75-25-2	
Bromomethane	ND	ug/L	200	100		12/24/14 10:36	74-83-9	
2-Butanone (MEK)	ND	ug/L	500	100		12/24/14 10:36	78-93-3	
Carbon tetrachloride	ND	ug/L	100	100		12/24/14 10:36	56-23-5	
Chlorobenzene	ND	ug/L	100	100		12/24/14 10:36	108-90-7	
Chloroethane	ND	ug/L	100	100		12/24/14 10:36	75-00-3	
Chloroform	ND	ug/L	100	100		12/24/14 10:36	67-66-3	
Chloromethane	ND	ug/L	100	100		12/24/14 10:36	74-87-3	
2-Chlorotoluene	ND	ug/L	100	100		12/24/14 10:36	95-49-8	
4-Chlorotoluene	ND	ug/L	100	100		12/24/14 10:36	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	200	100		12/24/14 10:36	96-12-8	
Dibromochloromethane	ND	ug/L	100	100		12/24/14 10:36	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	100	100		12/24/14 10:36	106-93-4	
Dibromomethane	ND	ug/L	100	100		12/24/14 10:36	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	100	100		12/24/14 10:36	95-50-1	

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ANALYTICAL RESULTS

Project: Legion Industries6121-09-0444
Pace Project No.: 92230389

Sample: PZ-2 **Lab ID: 92230389004** Collected: 12/17/14 13:20 Received: 12/18/14 15:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
1,3-Dichlorobenzene	ND	ug/L	100	100		12/24/14 10:36	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	100	100		12/24/14 10:36	106-46-7	
Dichlorodifluoromethane	ND	ug/L	100	100		12/24/14 10:36	75-71-8	
1,1-Dichloroethane	ND	ug/L	100	100		12/24/14 10:36	75-34-3	
1,2-Dichloroethane	ND	ug/L	100	100		12/24/14 10:36	107-06-2	
1,1-Dichloroethene	ND	ug/L	100	100		12/24/14 10:36	75-35-4	
cis-1,2-Dichloroethene	**5380**	ug/L	100	100		12/24/14 10:36	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	100	100		12/24/14 10:36	156-60-5	
1,2-Dichloropropane	ND	ug/L	100	100		12/24/14 10:36	78-87-5	
1,3-Dichloropropane	ND	ug/L	100	100		12/24/14 10:36	142-28-9	
2,2-Dichloropropane	ND	ug/L	100	100		12/24/14 10:36	594-20-7	
1,1-Dichloropropene	ND	ug/L	100	100		12/24/14 10:36	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	100	100		12/24/14 10:36	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	100	100		12/24/14 10:36	10061-02-6	
Diisopropyl ether	ND	ug/L	100	100		12/24/14 10:36	108-20-3	
Ethylbenzene	ND	ug/L	100	100		12/24/14 10:36	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	100	100		12/24/14 10:36	87-68-3	
2-Hexanone	ND	ug/L	500	100		12/24/14 10:36	591-78-6	
p-Isopropyltoluene	ND	ug/L	100	100		12/24/14 10:36	99-87-6	
Methylene Chloride	ND	ug/L	200	100		12/24/14 10:36	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	500	100		12/24/14 10:36	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	100	100		12/24/14 10:36	1634-04-4	
Naphthalene	ND	ug/L	100	100		12/24/14 10:36	91-20-3	
Styrene	ND	ug/L	100	100		12/24/14 10:36	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	100	100		12/24/14 10:36	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	100	100		12/24/14 10:36	79-34-5	
Tetrachloroethene	ND	ug/L	100	100		12/24/14 10:36	127-18-4	
Toluene	ND	ug/L	100	100		12/24/14 10:36	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	100	100		12/24/14 10:36	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	100	100		12/24/14 10:36	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	100	100		12/24/14 10:36	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	100	100		12/24/14 10:36	79-00-5	
Trichloroethene	**41600**	ug/L	250	250		12/28/14 20:27	79-01-6	
Trichlorofluoromethane	ND	ug/L	100	100		12/24/14 10:36	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	100	100		12/24/14 10:36	96-18-4	
Vinyl acetate	ND	ug/L	200	100		12/24/14 10:36	108-05-4	
Vinyl chloride	**1220**	ug/L	100	100		12/24/14 10:36	75-01-4	
Xylene (Total)	ND	ug/L	200	100		12/24/14 10:36	1330-20-7	
m&p-Xylene	ND	ug/L	200	100		12/24/14 10:36	179601-23-1	
o-Xylene	ND	ug/L	100	100		12/24/14 10:36	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	89	%	70-130	100		12/24/14 10:36	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130	100		12/24/14 10:36	17060-07-0	
Toluene-d8 (S)	104	%	70-130	100		12/24/14 10:36	2037-26-5	

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ANALYTICAL RESULTS

Project: Legion Industries6121-09-0444
Pace Project No.: 92230389

Sample: MW-13 **Lab ID: 92230389005** Collected: 12/17/14 14:45 Received: 12/18/14 15:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8081 Organochlorine Pesticides	Analytical Method: EPA 8081 Preparation Method: EPA 3510							
Aldrin	ND	ug/L	1.0	20	12/23/14 08:14	12/29/14 13:08	309-00-2	
alpha-BHC	ND	ug/L	1.0	20	12/23/14 08:14	12/29/14 13:08	319-84-6	
beta-BHC	**3.7**	ug/L	1.0	20	12/23/14 08:14	12/29/14 13:08	319-85-7	
delta-BHC	**1.9**	ug/L	1.0	20	12/23/14 08:14	12/29/14 13:08	319-86-8	
gamma-BHC (Lindane)	**1.5**	ug/L	1.0	20	12/23/14 08:14	12/29/14 13:08	58-89-9	
Chlordane (Technical)	ND	ug/L	4.0	20	12/23/14 08:14	12/29/14 13:08	57-74-9	
4,4'-DDD	**3.2**	ug/L	1.0	20	12/23/14 08:14	12/29/14 13:08	72-54-8	
4,4'-DDE	ND	ug/L	1.0	20	12/23/14 08:14	12/29/14 13:08	72-55-9	
4,4'-DDT	**6.9**	ug/L	1.0	20	12/23/14 08:14	12/29/14 13:08	50-29-3	
Dieldrin	ND	ug/L	1.0	20	12/23/14 08:14	12/29/14 13:08	60-57-1	
Endosulfan I	ND	ug/L	1.0	20	12/23/14 08:14	12/29/14 13:08	959-98-8	
Endosulfan II	ND	ug/L	1.0	20	12/23/14 08:14	12/29/14 13:08	33213-65-9	
Endosulfan sulfate	ND	ug/L	1.0	20	12/23/14 08:14	12/29/14 13:08	1031-07-8	
Endrin	**4.5**	ug/L	1.0	20	12/23/14 08:14	12/29/14 13:08	72-20-8	
Endrin aldehyde	ND	ug/L	1.0	20	12/23/14 08:14	12/29/14 13:08	7421-93-4	
Endrin ketone	**4.3**	ug/L	1.0	20	12/23/14 08:14	12/29/14 13:08	53494-70-5	
Heptachlor	ND	ug/L	1.0	20	12/23/14 08:14	12/29/14 13:08	76-44-8	
Heptachlor epoxide	ND	ug/L	1.0	20	12/23/14 08:14	12/29/14 13:08	1024-57-3	
Hexachlorobenzene	ND	ug/L	1.0	20	12/23/14 08:14	12/29/14 13:08	118-74-1	
Methoxychlor	ND	ug/L	3.0	20	12/23/14 08:14	12/29/14 13:08	72-43-5	
Mirex	ND	ug/L	3.0	20	12/23/14 08:14	12/29/14 13:08	2385-85-5	
Toxaphene	ND	ug/L	4.0	20	12/23/14 08:14	12/29/14 13:08	8001-35-2	
Surrogates								
Tetrachloro-m-xylene (S)	0	%	20-130	20	12/23/14 08:14	12/29/14 13:08	877-09-8	D3,S4
Decachlorobiphenyl (S)	0	%	20-130	20	12/23/14 08:14	12/29/14 13:08	2051-24-3	
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	500	20		12/24/14 10:52	67-64-1	
Benzene	ND	ug/L	20.0	20		12/24/14 10:52	71-43-2	
Bromobenzene	ND	ug/L	20.0	20		12/24/14 10:52	108-86-1	
Bromochloromethane	ND	ug/L	20.0	20		12/24/14 10:52	74-97-5	
Bromodichloromethane	ND	ug/L	20.0	20		12/24/14 10:52	75-27-4	
Bromoform	ND	ug/L	20.0	20		12/24/14 10:52	75-25-2	
Bromomethane	ND	ug/L	40.0	20		12/24/14 10:52	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	20		12/24/14 10:52	78-93-3	
Carbon tetrachloride	ND	ug/L	20.0	20		12/24/14 10:52	56-23-5	
Chlorobenzene	**36.4**	ug/L	20.0	20		12/24/14 10:52	108-90-7	
Chloroethane	ND	ug/L	20.0	20		12/24/14 10:52	75-00-3	
Chloroform	ND	ug/L	20.0	20		12/24/14 10:52	67-66-3	
Chloromethane	ND	ug/L	20.0	20		12/24/14 10:52	74-87-3	
2-Chlorotoluene	ND	ug/L	20.0	20		12/24/14 10:52	95-49-8	
4-Chlorotoluene	ND	ug/L	20.0	20		12/24/14 10:52	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	40.0	20		12/24/14 10:52	96-12-8	
Dibromochloromethane	ND	ug/L	20.0	20		12/24/14 10:52	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	20.0	20		12/24/14 10:52	106-93-4	
Dibromomethane	ND	ug/L	20.0	20		12/24/14 10:52	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	20.0	20		12/24/14 10:52	95-50-1	

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ANALYTICAL RESULTS

Project: Legion Industries6121-09-0444
Pace Project No.: 92230389

Sample: MW-13 **Lab ID: 92230389005** Collected: 12/17/14 14:45 Received: 12/18/14 15:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
1,3-Dichlorobenzene	ND	ug/L	20.0	20		12/24/14 10:52	541-73-1	
1,4-Dichlorobenzene	**41.1**	ug/L	20.0	20		12/24/14 10:52	106-46-7	
Dichlorodifluoromethane	ND	ug/L	20.0	20		12/24/14 10:52	75-71-8	
1,1-Dichloroethane	ND	ug/L	20.0	20		12/24/14 10:52	75-34-3	
1,2-Dichloroethane	ND	ug/L	20.0	20		12/24/14 10:52	107-06-2	
1,1-Dichloroethene	ND	ug/L	20.0	20		12/24/14 10:52	75-35-4	
cis-1,2-Dichloroethene	**1710**	ug/L	20.0	20		12/24/14 10:52	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	20.0	20		12/24/14 10:52	156-60-5	
1,2-Dichloropropane	ND	ug/L	20.0	20		12/24/14 10:52	78-87-5	
1,3-Dichloropropane	ND	ug/L	20.0	20		12/24/14 10:52	142-28-9	
2,2-Dichloropropane	ND	ug/L	20.0	20		12/24/14 10:52	594-20-7	
1,1-Dichloropropene	ND	ug/L	20.0	20		12/24/14 10:52	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	20.0	20		12/24/14 10:52	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	20.0	20		12/24/14 10:52	10061-02-6	
Diisopropyl ether	ND	ug/L	20.0	20		12/24/14 10:52	108-20-3	
Ethylbenzene	ND	ug/L	20.0	20		12/24/14 10:52	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	20.0	20		12/24/14 10:52	87-68-3	
2-Hexanone	ND	ug/L	100	20		12/24/14 10:52	591-78-6	
p-Isopropyltoluene	ND	ug/L	20.0	20		12/24/14 10:52	99-87-6	
Methylene Chloride	ND	ug/L	40.0	20		12/24/14 10:52	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	20		12/24/14 10:52	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	20.0	20		12/24/14 10:52	1634-04-4	
Naphthalene	ND	ug/L	20.0	20		12/24/14 10:52	91-20-3	
Styrene	ND	ug/L	20.0	20		12/24/14 10:52	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	20.0	20		12/24/14 10:52	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	20.0	20		12/24/14 10:52	79-34-5	
Tetrachloroethene	ND	ug/L	20.0	20		12/24/14 10:52	127-18-4	
Toluene	ND	ug/L	20.0	20		12/24/14 10:52	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	20.0	20		12/24/14 10:52	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	20.0	20		12/24/14 10:52	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	20.0	20		12/24/14 10:52	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	20.0	20		12/24/14 10:52	79-00-5	
Trichloroethene	**4770**	ug/L	50.0	50		12/28/14 20:43	79-01-6	
Trichlorofluoromethane	ND	ug/L	20.0	20		12/24/14 10:52	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	20.0	20		12/24/14 10:52	96-18-4	
Vinyl acetate	ND	ug/L	40.0	20		12/24/14 10:52	108-05-4	
Vinyl chloride	**516**	ug/L	20.0	20		12/24/14 10:52	75-01-4	
Xylene (Total)	ND	ug/L	40.0	20		12/24/14 10:52	1330-20-7	
m&p-Xylene	ND	ug/L	40.0	20		12/24/14 10:52	179601-23-1	
o-Xylene	ND	ug/L	20.0	20		12/24/14 10:52	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	90	%	70-130	20		12/24/14 10:52	460-00-4	
1,2-Dichloroethane-d4 (S)	110	%	70-130	20		12/24/14 10:52	17060-07-0	
Toluene-d8 (S)	102	%	70-130	20		12/24/14 10:52	2037-26-5	

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ANALYTICAL RESULTS

Project: Legion Industries6121-09-0444
Pace Project No.: 92230389

Sample: MW-15 **Lab ID: 92230389007** Collected: 12/17/14 17:10 Received: 12/18/14 15:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8081 Organochlorine Pesticides	Analytical Method: EPA 8081 Preparation Method: EPA 3510							
Aldrin	ND	ug/L	0.050	1	12/23/14 08:14	12/24/14 20:20	309-00-2	
alpha-BHC	ND	ug/L	0.050	1	12/23/14 08:14	12/24/14 20:20	319-84-6	
beta-BHC	ND	ug/L	0.050	1	12/23/14 08:14	12/24/14 20:20	319-85-7	
delta-BHC	ND	ug/L	0.050	1	12/23/14 08:14	12/24/14 20:20	319-86-8	
gamma-BHC (Lindane)	ND	ug/L	0.050	1	12/23/14 08:14	12/24/14 20:20	58-89-9	
Chlordane (Technical)	ND	ug/L	0.20	1	12/23/14 08:14	12/24/14 20:20	57-74-9	
4,4'-DDD	ND	ug/L	0.050	1	12/23/14 08:14	12/24/14 20:20	72-54-8	
4,4'-DDE	ND	ug/L	0.050	1	12/23/14 08:14	12/24/14 20:20	72-55-9	
4,4'-DDT	ND	ug/L	0.050	1	12/23/14 08:14	12/24/14 20:20	50-29-3	
Dieldrin	ND	ug/L	0.050	1	12/23/14 08:14	12/24/14 20:20	60-57-1	
Endosulfan I	ND	ug/L	0.050	1	12/23/14 08:14	12/24/14 20:20	959-98-8	
Endosulfan II	ND	ug/L	0.050	1	12/23/14 08:14	12/24/14 20:20	33213-65-9	
Endosulfan sulfate	ND	ug/L	0.050	1	12/23/14 08:14	12/24/14 20:20	1031-07-8	
Endrin	ND	ug/L	0.050	1	12/23/14 08:14	12/24/14 20:20	72-20-8	
Endrin aldehyde	ND	ug/L	0.050	1	12/23/14 08:14	12/24/14 20:20	7421-93-4	
Endrin ketone	ND	ug/L	0.050	1	12/23/14 08:14	12/24/14 20:20	53494-70-5	
Heptachlor	ND	ug/L	0.050	1	12/23/14 08:14	12/24/14 20:20	76-44-8	
Heptachlor epoxide	ND	ug/L	0.050	1	12/23/14 08:14	12/24/14 20:20	1024-57-3	
Hexachlorobenzene	ND	ug/L	0.050	1	12/23/14 08:14	12/24/14 20:20	118-74-1	
Methoxychlor	ND	ug/L	0.15	1	12/23/14 08:14	12/24/14 20:20	72-43-5	
Mirex	ND	ug/L	0.15	1	12/23/14 08:14	12/24/14 20:20	2385-85-5	
Toxaphene	ND	ug/L	0.20	1	12/23/14 08:14	12/24/14 20:20	8001-35-2	
Surrogates								
Tetrachloro-m-xylene (S)	60	%	20-130	1	12/23/14 08:14	12/24/14 20:20	877-09-8	
Decachlorobiphenyl (S)	93	%	20-130	1	12/23/14 08:14	12/24/14 20:20	2051-24-3	
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		12/24/14 05:50	67-64-1	
Benzene	ND	ug/L	1.0	1		12/24/14 05:50	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		12/24/14 05:50	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		12/24/14 05:50	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		12/24/14 05:50	75-27-4	
Bromoform	ND	ug/L	1.0	1		12/24/14 05:50	75-25-2	
Bromomethane	ND	ug/L	2.0	1		12/24/14 05:50	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		12/24/14 05:50	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		12/24/14 05:50	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		12/24/14 05:50	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/24/14 05:50	75-00-3	
Chloroform	ND	ug/L	1.0	1		12/24/14 05:50	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/24/14 05:50	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		12/24/14 05:50	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		12/24/14 05:50	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		12/24/14 05:50	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		12/24/14 05:50	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		12/24/14 05:50	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		12/24/14 05:50	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		12/24/14 05:50	95-50-1	

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ANALYTICAL RESULTS

Project: Legion Industries6121-09-0444
Pace Project No.: 92230389

Sample: MW-15 **Lab ID: 92230389007** Collected: 12/17/14 17:10 Received: 12/18/14 15:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
1,3-Dichlorobenzene	ND	ug/L	1.0	1		12/24/14 05:50	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		12/24/14 05:50	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		12/24/14 05:50	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		12/24/14 05:50	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		12/24/14 05:50	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		12/24/14 05:50	75-35-4	
cis-1,2-Dichloroethene	**62.0**	ug/L	1.0	1		12/24/14 05:50	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/24/14 05:50	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		12/24/14 05:50	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		12/24/14 05:50	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		12/24/14 05:50	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		12/24/14 05:50	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		12/24/14 05:50	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		12/24/14 05:50	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		12/24/14 05:50	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		12/24/14 05:50	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		12/24/14 05:50	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		12/24/14 05:50	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		12/24/14 05:50	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		12/24/14 05:50	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		12/24/14 05:50	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		12/24/14 05:50	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		12/24/14 05:50	91-20-3	
Styrene	ND	ug/L	1.0	1		12/24/14 05:50	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		12/24/14 05:50	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		12/24/14 05:50	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		12/24/14 05:50	127-18-4	
Toluene	ND	ug/L	1.0	1		12/24/14 05:50	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		12/24/14 05:50	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		12/24/14 05:50	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		12/24/14 05:50	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		12/24/14 05:50	79-00-5	
Trichloroethene	**62.8**	ug/L	1.0	1		12/24/14 05:50	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/24/14 05:50	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		12/24/14 05:50	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		12/24/14 05:50	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		12/24/14 05:50	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		12/24/14 05:50	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		12/24/14 05:50	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		12/24/14 05:50	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	90	%	70-130	1		12/24/14 05:50	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	70-130	1		12/24/14 05:50	17060-07-0	
Toluene-d8 (S)	98	%	70-130	1		12/24/14 05:50	2037-26-5	

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ANALYTICAL RESULTS

Project: Legion Industries6121-09-0444
Pace Project No.: 92230389

Sample: MW-4 **Lab ID: 92230389008** Collected: 12/17/14 18:30 Received: 12/18/14 15:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8081 Organochlorine Pesticides	Analytical Method: EPA 8081 Preparation Method: EPA 3510							
Aldrin	ND	ug/L	0.050	1	12/23/14 08:14	12/24/14 20:38	309-00-2	
alpha-BHC	ND	ug/L	0.050	1	12/23/14 08:14	12/24/14 20:38	319-84-6	
beta-BHC	ND	ug/L	0.050	1	12/23/14 08:14	12/24/14 20:38	319-85-7	
delta-BHC	ND	ug/L	0.050	1	12/23/14 08:14	12/24/14 20:38	319-86-8	
gamma-BHC (Lindane)	ND	ug/L	0.050	1	12/23/14 08:14	12/24/14 20:38	58-89-9	
Chlordane (Technical)	ND	ug/L	0.20	1	12/23/14 08:14	12/24/14 20:38	57-74-9	
4,4'-DDD	ND	ug/L	0.050	1	12/23/14 08:14	12/24/14 20:38	72-54-8	
4,4'-DDE	ND	ug/L	0.050	1	12/23/14 08:14	12/24/14 20:38	72-55-9	
4,4'-DDT	ND	ug/L	0.050	1	12/23/14 08:14	12/24/14 20:38	50-29-3	
Dieldrin	ND	ug/L	0.050	1	12/23/14 08:14	12/24/14 20:38	60-57-1	
Endosulfan I	ND	ug/L	0.050	1	12/23/14 08:14	12/24/14 20:38	959-98-8	
Endosulfan II	ND	ug/L	0.050	1	12/23/14 08:14	12/24/14 20:38	33213-65-9	
Endosulfan sulfate	ND	ug/L	0.050	1	12/23/14 08:14	12/24/14 20:38	1031-07-8	
Endrin	ND	ug/L	0.050	1	12/23/14 08:14	12/24/14 20:38	72-20-8	
Endrin aldehyde	ND	ug/L	0.050	1	12/23/14 08:14	12/24/14 20:38	7421-93-4	
Endrin ketone	ND	ug/L	0.050	1	12/23/14 08:14	12/24/14 20:38	53494-70-5	
Heptachlor	ND	ug/L	0.050	1	12/23/14 08:14	12/24/14 20:38	76-44-8	
Heptachlor epoxide	ND	ug/L	0.050	1	12/23/14 08:14	12/24/14 20:38	1024-57-3	
Hexachlorobenzene	ND	ug/L	0.050	1	12/23/14 08:14	12/24/14 20:38	118-74-1	
Methoxychlor	ND	ug/L	0.15	1	12/23/14 08:14	12/24/14 20:38	72-43-5	
Mirex	ND	ug/L	0.15	1	12/23/14 08:14	12/24/14 20:38	2385-85-5	
Toxaphene	ND	ug/L	0.20	1	12/23/14 08:14	12/24/14 20:38	8001-35-2	
Surrogates								
Tetrachloro-m-xylene (S)	71	%	20-130	1	12/23/14 08:14	12/24/14 20:38	877-09-8	
Decachlorobiphenyl (S)	76	%	20-130	1	12/23/14 08:14	12/24/14 20:38	2051-24-3	
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		12/24/14 08:38	67-64-1	
Benzene	ND	ug/L	1.0	1		12/24/14 08:38	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		12/24/14 08:38	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		12/24/14 08:38	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		12/24/14 08:38	75-27-4	
Bromoform	ND	ug/L	1.0	1		12/24/14 08:38	75-25-2	
Bromomethane	ND	ug/L	2.0	1		12/24/14 08:38	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		12/24/14 08:38	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		12/24/14 08:38	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		12/24/14 08:38	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/24/14 08:38	75-00-3	
Chloroform	ND	ug/L	1.0	1		12/24/14 08:38	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/24/14 08:38	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		12/24/14 08:38	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		12/24/14 08:38	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		12/24/14 08:38	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		12/24/14 08:38	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		12/24/14 08:38	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		12/24/14 08:38	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		12/24/14 08:38	95-50-1	

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ANALYTICAL RESULTS

Project: Legion Industries6121-09-0444
Pace Project No.: 92230389

Sample: MW-4 **Lab ID: 92230389008** Collected: 12/17/14 18:30 Received: 12/18/14 15:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
1,3-Dichlorobenzene	ND	ug/L	1.0	1		12/24/14 08:38	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		12/24/14 08:38	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		12/24/14 08:38	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		12/24/14 08:38	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		12/24/14 08:38	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		12/24/14 08:38	75-35-4	
cis-1,2-Dichloroethene	**3.2**	ug/L	1.0	1		12/24/14 08:38	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/24/14 08:38	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		12/24/14 08:38	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		12/24/14 08:38	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		12/24/14 08:38	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		12/24/14 08:38	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		12/24/14 08:38	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		12/24/14 08:38	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		12/24/14 08:38	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		12/24/14 08:38	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		12/24/14 08:38	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		12/24/14 08:38	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		12/24/14 08:38	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		12/24/14 08:38	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		12/24/14 08:38	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		12/24/14 08:38	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		12/24/14 08:38	91-20-3	
Styrene	ND	ug/L	1.0	1		12/24/14 08:38	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		12/24/14 08:38	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		12/24/14 08:38	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		12/24/14 08:38	127-18-4	
Toluene	ND	ug/L	1.0	1		12/24/14 08:38	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		12/24/14 08:38	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		12/24/14 08:38	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		12/24/14 08:38	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		12/24/14 08:38	79-00-5	
Trichloroethene	**1.7**	ug/L	1.0	1		12/24/14 08:38	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/24/14 08:38	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		12/24/14 08:38	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		12/24/14 08:38	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		12/24/14 08:38	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		12/24/14 08:38	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		12/24/14 08:38	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		12/24/14 08:38	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	88	%	70-130	1		12/24/14 08:38	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	70-130	1		12/24/14 08:38	17060-07-0	
Toluene-d8 (S)	98	%	70-130	1		12/24/14 08:38	2037-26-5	

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(704)875-9092

ANALYTICAL RESULTS

Project: Legion Industries6121-09-0444
Pace Project No.: 92230389

Sample: Trip Blank **Lab ID: 92230389009** Collected: 12/17/14 00:00 Received: 12/18/14 15:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		12/24/14 06:07	67-64-1	
Benzene	ND	ug/L	1.0	1		12/24/14 06:07	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		12/24/14 06:07	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		12/24/14 06:07	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		12/24/14 06:07	75-27-4	
Bromoform	ND	ug/L	1.0	1		12/24/14 06:07	75-25-2	
Bromomethane	ND	ug/L	2.0	1		12/24/14 06:07	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		12/24/14 06:07	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		12/24/14 06:07	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		12/24/14 06:07	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/24/14 06:07	75-00-3	
Chloroform	ND	ug/L	1.0	1		12/24/14 06:07	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/24/14 06:07	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		12/24/14 06:07	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		12/24/14 06:07	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		12/24/14 06:07	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		12/24/14 06:07	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		12/24/14 06:07	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		12/24/14 06:07	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		12/24/14 06:07	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		12/24/14 06:07	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		12/24/14 06:07	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		12/24/14 06:07	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		12/24/14 06:07	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		12/24/14 06:07	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		12/24/14 06:07	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		12/24/14 06:07	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/24/14 06:07	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		12/24/14 06:07	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		12/24/14 06:07	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		12/24/14 06:07	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		12/24/14 06:07	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		12/24/14 06:07	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		12/24/14 06:07	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		12/24/14 06:07	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		12/24/14 06:07	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		12/24/14 06:07	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		12/24/14 06:07	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		12/24/14 06:07	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		12/24/14 06:07	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		12/24/14 06:07	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		12/24/14 06:07	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		12/24/14 06:07	91-20-3	
Styrene	ND	ug/L	1.0	1		12/24/14 06:07	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		12/24/14 06:07	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		12/24/14 06:07	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		12/24/14 06:07	127-18-4	

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ANALYTICAL RESULTS

Project: Legion Industries6121-09-0444
Pace Project No.: 92230389

Sample: Trip Blank **Lab ID: 92230389009** Collected: 12/17/14 00:00 Received: 12/18/14 15:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Toluene	ND	ug/L	1.0	1		12/24/14 06:07	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		12/24/14 06:07	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		12/24/14 06:07	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		12/24/14 06:07	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		12/24/14 06:07	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		12/24/14 06:07	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/24/14 06:07	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		12/24/14 06:07	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		12/24/14 06:07	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		12/24/14 06:07	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		12/24/14 06:07	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		12/24/14 06:07	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		12/24/14 06:07	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	92	%	70-130	1		12/24/14 06:07	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	70-130	1		12/24/14 06:07	17060-07-0	
Toluene-d8 (S)	96	%	70-130	1		12/24/14 06:07	2037-26-5	

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ANALYTICAL RESULTS

Project: Legion Industries6121-09-0444
Pace Project No.: 92230389

Sample: DUP **Lab ID: 92230389010** Collected: 12/17/14 00:00 Received: 12/18/14 15:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8081 Organochlorine Pesticides	Analytical Method: EPA 8081 Preparation Method: EPA 3510							
Aldrin	ND	ug/L	1.0	20	12/23/14 08:14	12/29/14 13:25	309-00-2	
alpha-BHC	ND	ug/L	1.0	20	12/23/14 08:14	12/29/14 13:25	319-84-6	
beta-BHC	**4.4**	ug/L	1.0	20	12/23/14 08:14	12/29/14 13:25	319-85-7	
delta-BHC	**2.2**	ug/L	1.0	20	12/23/14 08:14	12/29/14 13:25	319-86-8	
gamma-BHC (Lindane)	**1.5**	ug/L	1.0	20	12/23/14 08:14	12/29/14 13:25	58-89-9	
Chlordane (Technical)	ND	ug/L	4.0	20	12/23/14 08:14	12/29/14 13:25	57-74-9	
4,4'-DDD	**3.9**	ug/L	1.0	20	12/23/14 08:14	12/29/14 13:25	72-54-8	
4,4'-DDE	ND	ug/L	1.0	20	12/23/14 08:14	12/29/14 13:25	72-55-9	
4,4'-DDT	**8.4**	ug/L	1.0	20	12/23/14 08:14	12/29/14 13:25	50-29-3	
Dieldrin	ND	ug/L	1.0	20	12/23/14 08:14	12/29/14 13:25	60-57-1	
Endosulfan I	ND	ug/L	1.0	20	12/23/14 08:14	12/29/14 13:25	959-98-8	
Endosulfan II	ND	ug/L	1.0	20	12/23/14 08:14	12/29/14 13:25	33213-65-9	
Endosulfan sulfate	ND	ug/L	1.0	20	12/23/14 08:14	12/29/14 13:25	1031-07-8	
Endrin	**5.6**	ug/L	1.0	20	12/23/14 08:14	12/29/14 13:25	72-20-8	
Endrin aldehyde	ND	ug/L	1.0	20	12/23/14 08:14	12/29/14 13:25	7421-93-4	
Endrin ketone	**5.1**	ug/L	1.0	20	12/23/14 08:14	12/29/14 13:25	53494-70-5	
Heptachlor	ND	ug/L	1.0	20	12/23/14 08:14	12/29/14 13:25	76-44-8	
Heptachlor epoxide	ND	ug/L	1.0	20	12/23/14 08:14	12/29/14 13:25	1024-57-3	
Hexachlorobenzene	ND	ug/L	1.0	20	12/23/14 08:14	12/29/14 13:25	118-74-1	
Methoxychlor	ND	ug/L	3.0	20	12/23/14 08:14	12/29/14 13:25	72-43-5	
Mirex	ND	ug/L	3.0	20	12/23/14 08:14	12/29/14 13:25	2385-85-5	
Toxaphene	ND	ug/L	4.0	20	12/23/14 08:14	12/29/14 13:25	8001-35-2	
Surrogates								
Tetrachloro-m-xylene (S)	0	%	20-130	20	12/23/14 08:14	12/29/14 13:25	877-09-8	D3,S4
Decachlorobiphenyl (S)	0	%	20-130	20	12/23/14 08:14	12/29/14 13:25	2051-24-3	
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	1250	50		12/31/14 01:15	67-64-1	
Benzene	ND	ug/L	50.0	50		12/31/14 01:15	71-43-2	
Bromobenzene	ND	ug/L	50.0	50		12/31/14 01:15	108-86-1	
Bromochloromethane	ND	ug/L	50.0	50		12/31/14 01:15	74-97-5	
Bromodichloromethane	ND	ug/L	50.0	50		12/31/14 01:15	75-27-4	
Bromoform	ND	ug/L	50.0	50		12/31/14 01:15	75-25-2	
Bromomethane	ND	ug/L	100	50		12/31/14 01:15	74-83-9	
2-Butanone (MEK)	ND	ug/L	250	50		12/31/14 01:15	78-93-3	
Carbon tetrachloride	ND	ug/L	50.0	50		12/31/14 01:15	56-23-5	
Chlorobenzene	ND	ug/L	50.0	50		12/31/14 01:15	108-90-7	
Chloroethane	ND	ug/L	50.0	50		12/31/14 01:15	75-00-3	
Chloroform	ND	ug/L	50.0	50		12/31/14 01:15	67-66-3	
Chloromethane	ND	ug/L	50.0	50		12/31/14 01:15	74-87-3	
2-Chlorotoluene	ND	ug/L	50.0	50		12/31/14 01:15	95-49-8	
4-Chlorotoluene	ND	ug/L	50.0	50		12/31/14 01:15	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	100	50		12/31/14 01:15	96-12-8	
Dibromochloromethane	ND	ug/L	50.0	50		12/31/14 01:15	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	50.0	50		12/31/14 01:15	106-93-4	
Dibromomethane	ND	ug/L	50.0	50		12/31/14 01:15	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	50.0	50		12/31/14 01:15	95-50-1	

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ANALYTICAL RESULTS

Project: Legion Industries6121-09-0444
Pace Project No.: 92230389

Sample: DUP **Lab ID: 92230389010** Collected: 12/17/14 00:00 Received: 12/18/14 15:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
1,3-Dichlorobenzene	ND	ug/L	50.0	50		12/31/14 01:15	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	50.0	50		12/31/14 01:15	106-46-7	
Dichlorodifluoromethane	ND	ug/L	50.0	50		12/31/14 01:15	75-71-8	
1,1-Dichloroethane	ND	ug/L	50.0	50		12/31/14 01:15	75-34-3	
1,2-Dichloroethane	ND	ug/L	50.0	50		12/31/14 01:15	107-06-2	
1,1-Dichloroethene	ND	ug/L	50.0	50		12/31/14 01:15	75-35-4	
cis-1,2-Dichloroethene	**1850**	ug/L	50.0	50		12/31/14 01:15	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	50.0	50		12/31/14 01:15	156-60-5	
1,2-Dichloropropane	ND	ug/L	50.0	50		12/31/14 01:15	78-87-5	
1,3-Dichloropropane	ND	ug/L	50.0	50		12/31/14 01:15	142-28-9	
2,2-Dichloropropane	ND	ug/L	50.0	50		12/31/14 01:15	594-20-7	
1,1-Dichloropropene	ND	ug/L	50.0	50		12/31/14 01:15	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	50.0	50		12/31/14 01:15	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	50.0	50		12/31/14 01:15	10061-02-6	
Diisopropyl ether	ND	ug/L	50.0	50		12/31/14 01:15	108-20-3	
Ethylbenzene	ND	ug/L	50.0	50		12/31/14 01:15	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	50.0	50		12/31/14 01:15	87-68-3	
2-Hexanone	ND	ug/L	250	50		12/31/14 01:15	591-78-6	
p-Isopropyltoluene	ND	ug/L	50.0	50		12/31/14 01:15	99-87-6	
Methylene Chloride	ND	ug/L	100	50		12/31/14 01:15	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	250	50		12/31/14 01:15	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	50.0	50		12/31/14 01:15	1634-04-4	
Naphthalene	ND	ug/L	50.0	50		12/31/14 01:15	91-20-3	
Styrene	ND	ug/L	50.0	50		12/31/14 01:15	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	50.0	50		12/31/14 01:15	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	50.0	50		12/31/14 01:15	79-34-5	
Tetrachloroethene	ND	ug/L	50.0	50		12/31/14 01:15	127-18-4	
Toluene	ND	ug/L	50.0	50		12/31/14 01:15	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	50.0	50		12/31/14 01:15	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	50.0	50		12/31/14 01:15	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	50.0	50		12/31/14 01:15	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	50.0	50		12/31/14 01:15	79-00-5	
Trichloroethene	**4460**	ug/L	50.0	50		12/31/14 01:15	79-01-6	
Trichlorofluoromethane	ND	ug/L	50.0	50		12/31/14 01:15	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	50.0	50		12/31/14 01:15	96-18-4	
Vinyl acetate	ND	ug/L	100	50		12/31/14 01:15	108-05-4	
Vinyl chloride	**588**	ug/L	50.0	50		12/31/14 01:15	75-01-4	
Xylene (Total)	ND	ug/L	100	50		12/31/14 01:15	1330-20-7	
m&p-Xylene	ND	ug/L	100	50		12/31/14 01:15	179601-23-1	
o-Xylene	ND	ug/L	50.0	50		12/31/14 01:15	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	102	%	70-130	50		12/31/14 01:15	460-00-4	
1,2-Dichloroethane-d4 (S)	119	%	70-130	50		12/31/14 01:15	17060-07-0	
Toluene-d8 (S)	98	%	70-130	50		12/31/14 01:15	2037-26-5	

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QUALITY CONTROL DATA

Project: Legion Industries6121-09-0444
Pace Project No.: 92230389

QC Batch: MSV/29809 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92230389001, 92230389003, 92230389004, 92230389005, 92230389007, 92230389008, 92230389009

METHOD BLANK: 1359393 Matrix: Water
Associated Lab Samples: 92230389001, 92230389003, 92230389004, 92230389005, 92230389007, 92230389008, 92230389009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	12/24/14 01:21	
1,1,1-Trichloroethane	ug/L	ND	1.0	12/24/14 01:21	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	12/24/14 01:21	
1,1,2-Trichloroethane	ug/L	ND	1.0	12/24/14 01:21	
1,1-Dichloroethane	ug/L	ND	1.0	12/24/14 01:21	
1,1-Dichloroethene	ug/L	ND	1.0	12/24/14 01:21	
1,1-Dichloropropene	ug/L	ND	1.0	12/24/14 01:21	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	12/24/14 01:21	
1,2,3-Trichloropropane	ug/L	ND	1.0	12/24/14 01:21	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	12/24/14 01:21	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.0	12/24/14 01:21	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	12/24/14 01:21	
1,2-Dichlorobenzene	ug/L	ND	1.0	12/24/14 01:21	
1,2-Dichloroethane	ug/L	ND	1.0	12/24/14 01:21	
1,2-Dichloropropane	ug/L	ND	1.0	12/24/14 01:21	
1,3-Dichlorobenzene	ug/L	ND	1.0	12/24/14 01:21	
1,3-Dichloropropane	ug/L	ND	1.0	12/24/14 01:21	
1,4-Dichlorobenzene	ug/L	ND	1.0	12/24/14 01:21	
2,2-Dichloropropane	ug/L	ND	1.0	12/24/14 01:21	
2-Butanone (MEK)	ug/L	ND	5.0	12/24/14 01:21	
2-Chlorotoluene	ug/L	ND	1.0	12/24/14 01:21	
2-Hexanone	ug/L	ND	5.0	12/24/14 01:21	
4-Chlorotoluene	ug/L	ND	1.0	12/24/14 01:21	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	12/24/14 01:21	
Acetone	ug/L	ND	25.0	12/24/14 01:21	
Benzene	ug/L	ND	1.0	12/24/14 01:21	
Bromobenzene	ug/L	ND	1.0	12/24/14 01:21	
Bromochloromethane	ug/L	ND	1.0	12/24/14 01:21	
Bromodichloromethane	ug/L	ND	1.0	12/24/14 01:21	
Bromoform	ug/L	ND	1.0	12/24/14 01:21	
Bromomethane	ug/L	ND	2.0	12/24/14 01:21	
Carbon tetrachloride	ug/L	ND	1.0	12/24/14 01:21	
Chlorobenzene	ug/L	ND	1.0	12/24/14 01:21	
Chloroethane	ug/L	ND	1.0	12/24/14 01:21	
Chloroform	ug/L	ND	1.0	12/24/14 01:21	
Chloromethane	ug/L	ND	1.0	12/24/14 01:21	
cis-1,2-Dichloroethene	ug/L	ND	1.0	12/24/14 01:21	
cis-1,3-Dichloropropene	ug/L	ND	1.0	12/24/14 01:21	
Dibromochloromethane	ug/L	ND	1.0	12/24/14 01:21	
Dibromomethane	ug/L	ND	1.0	12/24/14 01:21	
Dichlorodifluoromethane	ug/L	ND	1.0	12/24/14 01:21	

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QUALITY CONTROL DATA

Project: Legion Industries6121-09-0444
Pace Project No.: 92230389

METHOD BLANK: 1359393 Matrix: Water
Associated Lab Samples: 92230389001, 92230389003, 92230389004, 92230389005, 92230389007, 92230389008, 92230389009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diisopropyl ether	ug/L	ND	1.0	12/24/14 01:21	
Ethylbenzene	ug/L	ND	1.0	12/24/14 01:21	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	12/24/14 01:21	
m&p-Xylene	ug/L	ND	2.0	12/24/14 01:21	
Methyl-tert-butyl ether	ug/L	ND	1.0	12/24/14 01:21	
Methylene Chloride	ug/L	ND	2.0	12/24/14 01:21	
Naphthalene	ug/L	ND	1.0	12/24/14 01:21	
o-Xylene	ug/L	ND	1.0	12/24/14 01:21	
p-Isopropyltoluene	ug/L	ND	1.0	12/24/14 01:21	
Styrene	ug/L	ND	1.0	12/24/14 01:21	
Tetrachloroethene	ug/L	ND	1.0	12/24/14 01:21	
Toluene	ug/L	ND	1.0	12/24/14 01:21	
trans-1,2-Dichloroethene	ug/L	ND	1.0	12/24/14 01:21	
trans-1,3-Dichloropropene	ug/L	ND	1.0	12/24/14 01:21	
Trichloroethene	ug/L	ND	1.0	12/24/14 01:21	
Trichlorofluoromethane	ug/L	ND	1.0	12/24/14 01:21	
Vinyl acetate	ug/L	ND	2.0	12/24/14 01:21	
Vinyl chloride	ug/L	ND	1.0	12/24/14 01:21	
Xylene (Total)	ug/L	ND	2.0	12/24/14 01:21	
1,2-Dichloroethane-d4 (S)	%	105	70-130	12/24/14 01:21	
4-Bromofluorobenzene (S)	%	97	70-130	12/24/14 01:21	
Toluene-d8 (S)	%	96	70-130	12/24/14 01:21	

LABORATORY CONTROL SAMPLE: 1359394

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	54.6	109	70-130	
1,1,1-Trichloroethane	ug/L	50	61.2	122	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	52.1	104	70-130	
1,1,2-Trichloroethane	ug/L	50	54.4	109	70-130	
1,1-Dichloroethane	ug/L	50	60.3	121	70-130	
1,1-Dichloroethene	ug/L	50	59.2	118	70-132	
1,1-Dichloropropene	ug/L	50	62.5	125	70-130	
1,2,3-Trichlorobenzene	ug/L	50	53.1	106	70-135	
1,2,3-Trichloropropane	ug/L	50	51.8	104	70-130	
1,2,4-Trichlorobenzene	ug/L	50	54.4	109	70-134	
1,2-Dibromo-3-chloropropane	ug/L	50	51.4	103	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	56.4	113	70-130	
1,2-Dichlorobenzene	ug/L	50	55.3	111	70-130	
1,2-Dichloroethane	ug/L	50	59.4	119	70-130	
1,2-Dichloropropane	ug/L	50	56.1	112	70-130	
1,3-Dichlorobenzene	ug/L	50	55.8	112	70-130	
1,3-Dichloropropane	ug/L	50	55.3	111	70-130	
1,4-Dichlorobenzene	ug/L	50	55.6	111	70-130	

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QUALITY CONTROL DATA

Project: Legion Industries6121-09-0444
Pace Project No.: 92230389

LABORATORY CONTROL SAMPLE: 1359394

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,2-Dichloropropane	ug/L	50	59.4	119	58-145	
2-Butanone (MEK)	ug/L	100	101	101	70-145	
2-Chlorotoluene	ug/L	50	51.3	103	70-130	
2-Hexanone	ug/L	100	90.7	91	70-144	
4-Chlorotoluene	ug/L	50	55.1	110	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	96.1	96	70-140	
Acetone	ug/L	100	100	100	50-175	
Benzene	ug/L	50	57.1	114	70-130	
Bromobenzene	ug/L	50	55.7	111	70-130	
Bromochloromethane	ug/L	50	52.0	104	70-130	
Bromodichloromethane	ug/L	50	56.4	113	70-130	
Bromoform	ug/L	50	50.0	100	70-130	
Bromomethane	ug/L	50	31.7	63	54-130	
Carbon tetrachloride	ug/L	50	57.4	115	70-132	
Chlorobenzene	ug/L	50	55.7	111	70-130	
Chloroethane	ug/L	50	52.9	106	64-134	
Chloroform	ug/L	50	61.4	123	70-130	
Chloromethane	ug/L	50	42.1	84	64-130	
cis-1,2-Dichloroethene	ug/L	50	60.3	121	70-131	
cis-1,3-Dichloropropene	ug/L	50	56.9	114	70-130	
Dibromochloromethane	ug/L	50	55.8	112	70-130	
Dibromomethane	ug/L	50	54.9	110	70-131	
Dichlorodifluoromethane	ug/L	50	70.4	141	56-130	L3
Diisopropyl ether	ug/L	50	53.5	107	70-130	
Ethylbenzene	ug/L	50	54.4	109	70-130	
Hexachloro-1,3-butadiene	ug/L	50	44.3	89	70-130	
m&p-Xylene	ug/L	100	106	106	70-130	
Methyl-tert-butyl ether	ug/L	50	53.5	107	70-130	
Methylene Chloride	ug/L	50	57.9	116	63-130	
Naphthalene	ug/L	50	50.7	101	70-138	
o-Xylene	ug/L	50	51.7	103	70-130	
p-Isopropyltoluene	ug/L	50	53.1	106	70-130	
Styrene	ug/L	50	52.6	105	70-130	
Tetrachloroethene	ug/L	50	53.7	107	70-130	
Toluene	ug/L	50	56.1	112	70-130	
trans-1,2-Dichloroethene	ug/L	50	60.9	122	70-130	
trans-1,3-Dichloropropene	ug/L	50	55.8	112	70-132	
Trichloroethene	ug/L	50	54.9	110	70-130	
Trichlorofluoromethane	ug/L	50	69.1	138	62-133	L3
Vinyl acetate	ug/L	100	104	104	66-157	
Vinyl chloride	ug/L	50	52.6	105	50-150	
Xylene (Total)	ug/L	150	158	105	70-130	
1,2-Dichloroethane-d4 (S)	%			102	70-130	
4-Bromofluorobenzene (S)	%			95	70-130	
Toluene-d8 (S)	%			101	70-130	

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QUALITY CONTROL DATA

Project: Legion Industries6121-09-0444
Pace Project No.: 92230389

MATRIX SPIKE SAMPLE: 1359395

Parameter	Units	92230389007 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20.6	103	70-130	
1,1,1-Trichloroethane	ug/L	ND	20	25.1	126	70-130	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	21.0	105	70-130	
1,1,2-Trichloroethane	ug/L	ND	20	21.8	109	70-130	
1,1-Dichloroethane	ug/L	ND	20	25.1	125	70-130	
1,1-Dichloroethene	ug/L	ND	20	25.0	125	70-166	
1,1-Dichloropropene	ug/L	ND	20	25.4	127	70-130	
1,2,3-Trichlorobenzene	ug/L	ND	20	19.4	97	70-130	
1,2,3-Trichloropropane	ug/L	ND	20	21.1	105	70-130	
1,2,4-Trichlorobenzene	ug/L	ND	20	20.3	102	70-130	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	16.9	85	70-130	
1,2-Dibromoethane (EDB)	ug/L	ND	20	21.5	108	70-130	
1,2-Dichlorobenzene	ug/L	ND	20	21.8	109	70-130	
1,2-Dichloroethane	ug/L	ND	20	23.2	116	70-130	
1,2-Dichloropropane	ug/L	ND	20	22.7	114	70-130	
1,3-Dichlorobenzene	ug/L	ND	20	22.3	111	70-130	
1,3-Dichloropropane	ug/L	ND	20	22.0	110	70-130	
1,4-Dichlorobenzene	ug/L	ND	20	22.3	111	70-130	
2,2-Dichloropropane	ug/L	ND	20	19.2	96	70-130	
2-Butanone (MEK)	ug/L	ND	40	37.1	93	70-130	
2-Chlorotoluene	ug/L	ND	20	20.7	103	70-130	
2-Hexanone	ug/L	ND	40	37.1	93	70-130	
4-Chlorotoluene	ug/L	ND	20	23.2	116	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	40	38.5	96	70-130	
Acetone	ug/L	ND	40	43.2	108	70-130	
Benzene	ug/L	ND	20	24.7	124	70-148	
Bromobenzene	ug/L	ND	20	22.5	113	70-130	
Bromochloromethane	ug/L	ND	20	22.5	113	70-130	
Bromodichloromethane	ug/L	ND	20	20.6	103	70-130	
Bromoform	ug/L	ND	20	16.1	81	70-130	
Bromomethane	ug/L	ND	20	12.7	64	70-130	M0
Carbon tetrachloride	ug/L	ND	20	23.8	119	70-130	
Chlorobenzene	ug/L	ND	20	22.7	113	70-146	
Chloroethane	ug/L	ND	20	24.9	125	70-130	
Chloroform	ug/L	ND	20	24.8	124	70-130	
Chloromethane	ug/L	ND	20	16.8	84	70-130	
cis-1,2-Dichloroethene	ug/L	62.0	20	88.1	131	70-130	M0
cis-1,3-Dichloropropene	ug/L	ND	20	20.7	103	70-130	
Dibromochloromethane	ug/L	ND	20	19.1	96	70-130	
Dibromomethane	ug/L	ND	20	20.8	104	70-130	
Dichlorodifluoromethane	ug/L	ND	20	21.6	108	70-130	
Diisopropyl ether	ug/L	ND	20	20.6	103	70-130	
Ethylbenzene	ug/L	ND	20	22.6	113	70-130	
Hexachloro-1,3-butadiene	ug/L	ND	20	23.0	115	70-130	
m&p-Xylene	ug/L	ND	40	45.3	113	70-130	
Methyl-tert-butyl ether	ug/L	ND	20	20.7	104	70-130	
Methylene Chloride	ug/L	ND	20	22.2	111	70-130	

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QUALITY CONTROL DATA

Project: Legion Industries6121-09-0444
Pace Project No.: 92230389

MATRIX SPIKE SAMPLE: 1359395

Parameter	Units	92230389007 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Naphthalene	ug/L	ND	20	18.7	93	70-130	
o-Xylene	ug/L	ND	20	21.1	105	70-130	
p-Isopropyltoluene	ug/L	ND	20	21.7	108	70-130	
Styrene	ug/L	ND	20	20.6	103	70-130	
Tetrachloroethene	ug/L	ND	20	21.2	106	70-130	
Toluene	ug/L	ND	20	23.4	117	70-155	
trans-1,2-Dichloroethene	ug/L	ND	20	24.6	122	70-130	
trans-1,3-Dichloropropene	ug/L	ND	20	20.6	103	70-130	
Trichloroethene	ug/L	62.8	20	93.0	151	69-151	
Trichlorofluoromethane	ug/L	ND	20	28.3	141	70-130	M0
Vinyl acetate	ug/L	ND	40	32.1	80	70-130	
Vinyl chloride	ug/L	ND	20	20.9	104	70-130	
1,2-Dichloroethane-d4 (S)	%				99	70-130	
4-Bromofluorobenzene (S)	%				91	70-130	
Toluene-d8 (S)	%				102	70-130	

SAMPLE DUPLICATE: 1359396

Parameter	Units	92230560002 Result	Dup Result	RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	ND		
1,1,1-Trichloroethane	ug/L	ND	ND		
1,1,2,2-Tetrachloroethane	ug/L	ND	ND		
1,1,2-Trichloroethane	ug/L	ND	ND		
1,1-Dichloroethane	ug/L	ND	ND		
1,1-Dichloroethene	ug/L	ND	ND		
1,1-Dichloropropene	ug/L	ND	ND		
1,2,3-Trichlorobenzene	ug/L	ND	ND		
1,2,3-Trichloropropane	ug/L	ND	10.3		
1,2,4-Trichlorobenzene	ug/L	ND	ND		
1,2-Dibromo-3-chloropropane	ug/L	ND	ND		
1,2-Dibromoethane (EDB)	ug/L	ND	ND		
1,2-Dichlorobenzene	ug/L	ND	ND		
1,2-Dichloroethane	ug/L	ND	.39J		
1,2-Dichloropropane	ug/L	ND	ND		
1,3-Dichlorobenzene	ug/L	ND	ND		
1,3-Dichloropropane	ug/L	ND	ND		
1,4-Dichlorobenzene	ug/L	ND	ND		
2,2-Dichloropropane	ug/L	ND	ND		
2-Butanone (MEK)	ug/L	ND	ND		
2-Chlorotoluene	ug/L	ND	ND		
2-Hexanone	ug/L	ND	ND		
4-Chlorotoluene	ug/L	ND	ND		
4-Methyl-2-pentanone (MIBK)	ug/L	ND	ND		
Acetone	ug/L	ND	ND		
Benzene	ug/L	ND	ND		

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QUALITY CONTROL DATA

Project: Legion Industries6121-09-0444
Pace Project No.: 92230389

SAMPLE DUPLICATE: 1359396

Parameter	Units	92230560002 Result	Dup Result	RPD	Qualifiers
Bromobenzene	ug/L	ND	ND		
Bromochloromethane	ug/L	ND	ND		
Bromodichloromethane	ug/L	ND	ND		
Bromoform	ug/L	ND	ND		
Bromomethane	ug/L	ND	ND		
Carbon tetrachloride	ug/L	ND	ND		
Chlorobenzene	ug/L	ND	ND		
Chloroethane	ug/L	ND	ND		
Chloroform	ug/L	1.1	1.0	6	
Chloromethane	ug/L	ND	ND		
cis-1,2-Dichloroethene	ug/L	ND	ND		
cis-1,3-Dichloropropene	ug/L	ND	ND		
Dibromochloromethane	ug/L	ND	ND		
Dibromomethane	ug/L	ND	ND		
Dichlorodifluoromethane	ug/L	ND	ND		
Diisopropyl ether	ug/L	ND	ND		
Ethylbenzene	ug/L	ND	ND		
Hexachloro-1,3-butadiene	ug/L	ND	ND		
m&p-Xylene	ug/L	ND	ND		
Methyl-tert-butyl ether	ug/L	ND	ND		
Methylene Chloride	ug/L	ND	ND		
Naphthalene	ug/L	ND	ND		
o-Xylene	ug/L	ND	ND		
p-Isopropyltoluene	ug/L	ND	ND		
Styrene	ug/L	ND	ND		
Tetrachloroethene	ug/L	ND	ND		
Toluene	ug/L	ND	ND		
trans-1,2-Dichloroethene	ug/L	ND	ND		
trans-1,3-Dichloropropene	ug/L	ND	ND		
Trichloroethene	ug/L	ND	ND		
Trichlorofluoromethane	ug/L	ND	ND		
Vinyl acetate	ug/L	ND	ND		
Vinyl chloride	ug/L	ND	ND		
Xylene (Total)	ug/L	ND	ND		
1,2-Dichloroethane-d4 (S)	%	105	104	0	
4-Bromofluorobenzene (S)	%	88	88	0	
Toluene-d8 (S)	%	98	96	2	

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QUALITY CONTROL DATA

Project: Legion Industries6121-09-0444
Pace Project No.: 92230389

QC Batch: MSV/29833 | Analysis Method: EPA 8260
QC Batch Method: EPA 8260 | Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92230389002

METHOD BLANK: 1360496 | Matrix: Water
Associated Lab Samples: 92230389002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	12/29/14 17:00	
1,1,1-Trichloroethane	ug/L	ND	1.0	12/29/14 17:00	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	12/29/14 17:00	
1,1,2-Trichloroethane	ug/L	ND	1.0	12/29/14 17:00	
1,1-Dichloroethane	ug/L	ND	1.0	12/29/14 17:00	
1,1-Dichloroethene	ug/L	ND	1.0	12/29/14 17:00	
1,1-Dichloropropene	ug/L	ND	1.0	12/29/14 17:00	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	12/29/14 17:00	
1,2,3-Trichloropropane	ug/L	ND	1.0	12/29/14 17:00	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	12/29/14 17:00	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.0	12/29/14 17:00	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	12/29/14 17:00	
1,2-Dichlorobenzene	ug/L	ND	1.0	12/29/14 17:00	
1,2-Dichloroethane	ug/L	ND	1.0	12/29/14 17:00	
1,2-Dichloropropane	ug/L	ND	1.0	12/29/14 17:00	
1,3-Dichlorobenzene	ug/L	ND	1.0	12/29/14 17:00	
1,3-Dichloropropane	ug/L	ND	1.0	12/29/14 17:00	
1,4-Dichlorobenzene	ug/L	ND	1.0	12/29/14 17:00	
2,2-Dichloropropane	ug/L	ND	1.0	12/29/14 17:00	
2-Butanone (MEK)	ug/L	ND	5.0	12/29/14 17:00	
2-Chlorotoluene	ug/L	ND	1.0	12/29/14 17:00	
2-Hexanone	ug/L	ND	5.0	12/29/14 17:00	
4-Chlorotoluene	ug/L	ND	1.0	12/29/14 17:00	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	12/29/14 17:00	
Acetone	ug/L	ND	25.0	12/29/14 17:00	
Benzene	ug/L	ND	1.0	12/29/14 17:00	
Bromobenzene	ug/L	ND	1.0	12/29/14 17:00	
Bromochloromethane	ug/L	ND	1.0	12/29/14 17:00	
Bromodichloromethane	ug/L	ND	1.0	12/29/14 17:00	
Bromoform	ug/L	ND	1.0	12/29/14 17:00	
Bromomethane	ug/L	ND	2.0	12/29/14 17:00	
Carbon tetrachloride	ug/L	ND	1.0	12/29/14 17:00	
Chlorobenzene	ug/L	ND	1.0	12/29/14 17:00	
Chloroethane	ug/L	ND	1.0	12/29/14 17:00	
Chloroform	ug/L	ND	1.0	12/29/14 17:00	
Chloromethane	ug/L	ND	1.0	12/29/14 17:00	
cis-1,2-Dichloroethene	ug/L	ND	1.0	12/29/14 17:00	
cis-1,3-Dichloropropene	ug/L	ND	1.0	12/29/14 17:00	
Dibromochloromethane	ug/L	ND	1.0	12/29/14 17:00	
Dibromomethane	ug/L	ND	1.0	12/29/14 17:00	
Dichlorodifluoromethane	ug/L	ND	1.0	12/29/14 17:00	

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QUALITY CONTROL DATA

Project: Legion Industries6121-09-0444
Pace Project No.: 92230389

METHOD BLANK: 1360496 Matrix: Water
Associated Lab Samples: 92230389002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diisopropyl ether	ug/L	ND	1.0	12/29/14 17:00	
Ethylbenzene	ug/L	ND	1.0	12/29/14 17:00	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	12/29/14 17:00	
m&p-Xylene	ug/L	ND	2.0	12/29/14 17:00	
Methyl-tert-butyl ether	ug/L	ND	1.0	12/29/14 17:00	
Methylene Chloride	ug/L	ND	2.0	12/29/14 17:00	
Naphthalene	ug/L	ND	1.0	12/29/14 17:00	
o-Xylene	ug/L	ND	1.0	12/29/14 17:00	
p-Isopropyltoluene	ug/L	ND	1.0	12/29/14 17:00	
Styrene	ug/L	ND	1.0	12/29/14 17:00	
Tetrachloroethene	ug/L	ND	1.0	12/29/14 17:00	
Toluene	ug/L	ND	1.0	12/29/14 17:00	
trans-1,2-Dichloroethene	ug/L	ND	1.0	12/29/14 17:00	
trans-1,3-Dichloropropene	ug/L	ND	1.0	12/29/14 17:00	
Trichloroethene	ug/L	ND	1.0	12/29/14 17:00	
Trichlorofluoromethane	ug/L	ND	1.0	12/29/14 17:00	
Vinyl acetate	ug/L	ND	2.0	12/29/14 17:00	
Vinyl chloride	ug/L	ND	1.0	12/29/14 17:00	
Xylene (Total)	ug/L	ND	2.0	12/29/14 17:00	
1,2-Dichloroethane-d4 (S)	%	102	70-130	12/29/14 17:00	
4-Bromofluorobenzene (S)	%	102	70-130	12/29/14 17:00	
Toluene-d8 (S)	%	99	70-130	12/29/14 17:00	

LABORATORY CONTROL SAMPLE: 1360497

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	54.4	109	70-130	
1,1,1-Trichloroethane	ug/L	50	56.9	114	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	50.0	100	70-130	
1,1,2-Trichloroethane	ug/L	50	53.7	107	70-130	
1,1-Dichloroethane	ug/L	50	57.9	116	70-130	
1,1-Dichloroethene	ug/L	50	58.0	116	70-132	
1,1-Dichloropropene	ug/L	50	58.9	118	70-130	
1,2,3-Trichlorobenzene	ug/L	50	48.7	97	70-135	
1,2,3-Trichloropropane	ug/L	50	46.6	93	70-130	
1,2,4-Trichlorobenzene	ug/L	50	51.4	103	70-134	
1,2-Dibromo-3-chloropropane	ug/L	50	49.0	98	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	54.9	110	70-130	
1,2-Dichlorobenzene	ug/L	50	51.6	103	70-130	
1,2-Dichloroethane	ug/L	50	52.0	104	70-130	
1,2-Dichloropropane	ug/L	50	53.4	107	70-130	
1,3-Dichlorobenzene	ug/L	50	51.8	104	70-130	
1,3-Dichloropropane	ug/L	50	52.0	104	70-130	
1,4-Dichlorobenzene	ug/L	50	51.3	103	70-130	

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QUALITY CONTROL DATA

Project: Legion Industries6121-09-0444
Pace Project No.: 92230389

LABORATORY CONTROL SAMPLE: 1360497

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,2-Dichloropropane	ug/L	50	59.7	119	58-145	
2-Butanone (MEK)	ug/L	100	89.5	90	70-145	
2-Chlorotoluene	ug/L	50	51.9	104	70-130	
2-Hexanone	ug/L	100	91.7	92	70-144	
4-Chlorotoluene	ug/L	50	51.3	103	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	97.1	97	70-140	
Acetone	ug/L	100	89.9	90	50-175	
Benzene	ug/L	50	55.6	111	70-130	
Bromobenzene	ug/L	50	52.6	105	70-130	
Bromochloromethane	ug/L	50	60.2	120	70-130	
Bromodichloromethane	ug/L	50	55.9	112	70-130	
Bromoform	ug/L	50	49.3	99	70-130	
Bromomethane	ug/L	50	60.5	121	54-130	
Carbon tetrachloride	ug/L	50	56.8	114	70-132	
Chlorobenzene	ug/L	50	51.9	104	70-130	
Chloroethane	ug/L	50	64.1	128	64-134	
Chloroform	ug/L	50	55.1	110	70-130	
Chloromethane	ug/L	50	62.0	124	64-130	
cis-1,2-Dichloroethene	ug/L	50	57.8	116	70-131	
cis-1,3-Dichloropropene	ug/L	50	56.1	112	70-130	
Dibromochloromethane	ug/L	50	51.4	103	70-130	
Dibromomethane	ug/L	50	52.4	105	70-131	
Dichlorodifluoromethane	ug/L	50	65.1	130	56-130	
Diisopropyl ether	ug/L	50	52.0	104	70-130	
Ethylbenzene	ug/L	50	51.4	103	70-130	
Hexachloro-1,3-butadiene	ug/L	50	46.8	94	70-130	
m&p-Xylene	ug/L	100	100	100	70-130	
Methyl-tert-butyl ether	ug/L	50	51.7	103	70-130	
Methylene Chloride	ug/L	50	56.9	114	63-130	
Naphthalene	ug/L	50	49.2	98	70-138	
o-Xylene	ug/L	50	51.4	103	70-130	
p-Isopropyltoluene	ug/L	50	51.8	104	70-130	
Styrene	ug/L	50	55.1	110	70-130	
Tetrachloroethene	ug/L	50	51.2	102	70-130	
Toluene	ug/L	50	53.8	108	70-130	
trans-1,2-Dichloroethene	ug/L	50	59.4	119	70-130	
trans-1,3-Dichloropropene	ug/L	50	57.6	115	70-132	
Trichloroethene	ug/L	50	52.4	105	70-130	
Trichlorofluoromethane	ug/L	50	57.1	114	62-133	
Vinyl acetate	ug/L	100	105	105	66-157	
Vinyl chloride	ug/L	50	57.3	115	50-150	
Xylene (Total)	ug/L	150	151	101	70-130	
1,2-Dichloroethane-d4 (S)	%			94	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	
Toluene-d8 (S)	%			101	70-130	

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QUALITY CONTROL DATA

Project: Legion Industries6121-09-0444
Pace Project No.: 92230389

MATRIX SPIKE SAMPLE: 1360498

Parameter	Units	92230268008 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	200	222	111	70-130	
1,1,1-Trichloroethane	ug/L	ND	200	237	118	70-130	
1,1,2,2-Tetrachloroethane	ug/L	ND	200	216	108	70-130	
1,1,2-Trichloroethane	ug/L	ND	200	224	112	70-130	
1,1-Dichloroethane	ug/L	ND	200	239	119	70-130	
1,1-Dichloroethene	ug/L	ND	200	247	124	70-166	
1,1-Dichloropropene	ug/L	ND	200	252	126	70-130	
1,2,3-Trichlorobenzene	ug/L	ND	200	211	105	70-130	
1,2,3-Trichloropropane	ug/L	ND	200	207	103	70-130	
1,2,4-Trichlorobenzene	ug/L	ND	200	217	108	70-130	
1,2-Dibromo-3-chloropropane	ug/L	ND	200	203	102	70-130	
1,2-Dibromoethane (EDB)	ug/L	ND	200	224	112	70-130	
1,2-Dichlorobenzene	ug/L	ND	200	214	107	70-130	
1,2-Dichloroethane	ug/L	ND	200	210	105	70-130	
1,2-Dichloropropane	ug/L	ND	200	222	111	70-130	
1,3-Dichlorobenzene	ug/L	ND	200	217	109	70-130	
1,3-Dichloropropane	ug/L	ND	200	219	109	70-130	
1,4-Dichlorobenzene	ug/L	ND	200	216	108	70-130	
2,2-Dichloropropane	ug/L	ND	200	242	121	70-130	
2-Butanone (MEK)	ug/L	ND	400	419	100	70-130	
2-Chlorotoluene	ug/L	ND	200	223	112	70-130	
2-Hexanone	ug/L	ND	400	419	105	70-130	
4-Chlorotoluene	ug/L	ND	200	216	108	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	400	425	106	70-130	
Acetone	ug/L	ND	400	479	106	70-130	
Benzene	ug/L	367	200	602	117	70-148	
Bromobenzene	ug/L	ND	200	218	109	70-130	
Bromochloromethane	ug/L	ND	200	241	121	70-130	
Bromodichloromethane	ug/L	ND	200	223	111	70-130	
Bromoform	ug/L	ND	200	205	103	70-130	
Bromomethane	ug/L	ND	200	270	135	70-130	M0
Carbon tetrachloride	ug/L	ND	200	233	116	70-130	
Chlorobenzene	ug/L	ND	200	222	111	70-146	
Chloroethane	ug/L	ND	200	285	143	70-130	M0
Chloroform	ug/L	ND	200	228	114	70-130	
Chloromethane	ug/L	ND	200	263	132	70-130	M0
cis-1,2-Dichloroethene	ug/L	ND	200	241	121	70-130	
cis-1,3-Dichloropropene	ug/L	ND	200	224	112	70-130	
Dibromochloromethane	ug/L	ND	200	211	106	70-130	
Dibromomethane	ug/L	ND	200	214	107	70-130	
Dichlorodifluoromethane	ug/L	ND	200	273	137	70-130	M0
Diisopropyl ether	ug/L	83.7	200	297	107	70-130	
Ethylbenzene	ug/L	131	200	359	114	70-130	
Hexachloro-1,3-butadiene	ug/L	ND	200	259	130	70-130	
m&p-Xylene	ug/L	342	400	801	115	70-130	
Methyl-tert-butyl ether	ug/L	315	200	517	101	70-130	
Methylene Chloride	ug/L	ND	200	242	121	70-130	

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QUALITY CONTROL DATA

Project: Legion Industries6121-09-0444
Pace Project No.: 92230389

MATRIX SPIKE SAMPLE: 1360498

Parameter	Units	92230268008 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Naphthalene	ug/L	10.6	200	236	113	70-130	
o-Xylene	ug/L	144	200	368	112	70-130	
p-Isopropyltoluene	ug/L	ND	200	228	114	70-130	
Styrene	ug/L	ND	200	238	118	70-130	
Tetrachloroethene	ug/L	ND	200	228	114	70-130	
Toluene	ug/L	1030	200	1200	89	70-155	
trans-1,2-Dichloroethene	ug/L	ND	200	248	124	70-130	
trans-1,3-Dichloropropene	ug/L	ND	200	223	112	70-130	
Trichloroethene	ug/L	ND	200	226	113	69-151	
Trichlorofluoromethane	ug/L	ND	200	243	121	70-130	
Vinyl acetate	ug/L	ND	400	433	108	70-130	
Vinyl chloride	ug/L	ND	200	237	118	70-130	
1,2-Dichloroethane-d4 (S)	%				91	70-130	
4-Bromofluorobenzene (S)	%				105	70-130	
Toluene-d8 (S)	%				101	70-130	

SAMPLE DUPLICATE: 1360499

Parameter	Units	92230324004 Result	Dup Result	RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	ND		
1,1,1-Trichloroethane	ug/L	ND	ND		
1,1,2,2-Tetrachloroethane	ug/L	ND	ND		
1,1,2-Trichloroethane	ug/L	ND	ND		
1,1-Dichloroethane	ug/L	ND	ND		
1,1-Dichloroethene	ug/L	ND	ND		
1,1-Dichloropropene	ug/L	ND	ND		
1,2,3-Trichlorobenzene	ug/L	ND	ND		
1,2,3-Trichloropropane	ug/L	ND	ND		
1,2,4-Trichlorobenzene	ug/L	ND	ND		
1,2-Dibromo-3-chloropropane	ug/L	ND	ND		
1,2-Dibromoethane (EDB)	ug/L	ND	ND		
1,2-Dichlorobenzene	ug/L	ND	ND		
1,2-Dichloroethane	ug/L	ND	ND		
1,2-Dichloropropane	ug/L	ND	ND		
1,3-Dichlorobenzene	ug/L	ND	ND		
1,3-Dichloropropane	ug/L	ND	ND		
1,4-Dichlorobenzene	ug/L	ND	ND		
2,2-Dichloropropane	ug/L	ND	ND		
2-Butanone (MEK)	ug/L	ND	40.1J		
2-Chlorotoluene	ug/L	ND	ND		
2-Hexanone	ug/L	ND	ND		
4-Chlorotoluene	ug/L	ND	ND		
4-Methyl-2-pentanone (MIBK)	ug/L	ND	ND		
Acetone	ug/L	ND	107J		
Benzene	ug/L	110	106	3	

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QUALITY CONTROL DATA

Project: Legion Industries6121-09-0444
Pace Project No.: 92230389

SAMPLE DUPLICATE: 1360499

Parameter	Units	92230324004 Result	Dup Result	RPD	Qualifiers
Bromobenzene	ug/L	ND	ND		
Bromochloromethane	ug/L	ND	ND		
Bromodichloromethane	ug/L	ND	ND		
Bromoform	ug/L	ND	ND		
Bromomethane	ug/L	ND	ND		
Carbon tetrachloride	ug/L	ND	ND		
Chlorobenzene	ug/L	ND	ND		
Chloroethane	ug/L	ND	ND		
Chloroform	ug/L	ND	ND		
Chloromethane	ug/L	ND	ND		
cis-1,2-Dichloroethene	ug/L	ND	ND		
cis-1,3-Dichloropropene	ug/L	ND	ND		
Dibromochloromethane	ug/L	ND	ND		
Dibromomethane	ug/L	ND	ND		
Dichlorodifluoromethane	ug/L	ND	ND		
Diisopropyl ether	ug/L	21.6	20.9	3	
Ethylbenzene	ug/L	326	318	2	
Hexachloro-1,3-butadiene	ug/L	ND	ND		
m&p-Xylene	ug/L	917	900	2	
Methyl-tert-butyl ether	ug/L	325	331	2	
Methylene Chloride	ug/L	ND	ND		
Naphthalene	ug/L	104	123	16	
o-Xylene	ug/L	422	414	2	
p-Isopropyltoluene	ug/L	ND	ND		
Styrene	ug/L	ND	ND		
Tetrachloroethene	ug/L	ND	ND		
Toluene	ug/L	1110	1080	3	
trans-1,2-Dichloroethene	ug/L	ND	ND		
trans-1,3-Dichloropropene	ug/L	ND	ND		
Trichloroethene	ug/L	ND	ND		
Trichlorofluoromethane	ug/L	ND	ND		
Vinyl acetate	ug/L	ND	ND		
Vinyl chloride	ug/L	ND	ND		
Xylene (Total)	ug/L	1340	1310	2	
1,2-Dichloroethane-d4 (S)	%	104	103	1	
4-Bromofluorobenzene (S)	%	100	101	1	
Toluene-d8 (S)	%	99	99	0	

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QUALITY CONTROL DATA

Project: Legion Industries6121-09-0444
Pace Project No.: 92230389

QC Batch: MSV/29858
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92230389010

METHOD BLANK: 1361106
Matrix: Water
Associated Lab Samples: 92230389010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	12/30/14 16:29	
1,1,1-Trichloroethane	ug/L	ND	1.0	12/30/14 16:29	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	12/30/14 16:29	
1,1,2-Trichloroethane	ug/L	ND	1.0	12/30/14 16:29	
1,1-Dichloroethane	ug/L	ND	1.0	12/30/14 16:29	
1,1-Dichloroethene	ug/L	ND	1.0	12/30/14 16:29	
1,1-Dichloropropene	ug/L	ND	1.0	12/30/14 16:29	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	12/30/14 16:29	
1,2,3-Trichloropropane	ug/L	ND	1.0	12/30/14 16:29	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	12/30/14 16:29	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.0	12/30/14 16:29	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	12/30/14 16:29	
1,2-Dichlorobenzene	ug/L	ND	1.0	12/30/14 16:29	
1,2-Dichloroethane	ug/L	ND	1.0	12/30/14 16:29	
1,2-Dichloropropane	ug/L	ND	1.0	12/30/14 16:29	
1,3-Dichlorobenzene	ug/L	ND	1.0	12/30/14 16:29	
1,3-Dichloropropane	ug/L	ND	1.0	12/30/14 16:29	
1,4-Dichlorobenzene	ug/L	ND	1.0	12/30/14 16:29	
2,2-Dichloropropane	ug/L	ND	1.0	12/30/14 16:29	
2-Butanone (MEK)	ug/L	ND	5.0	12/30/14 16:29	
2-Chlorotoluene	ug/L	ND	1.0	12/30/14 16:29	
2-Hexanone	ug/L	ND	5.0	12/30/14 16:29	
4-Chlorotoluene	ug/L	ND	1.0	12/30/14 16:29	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	12/30/14 16:29	
Acetone	ug/L	ND	25.0	12/30/14 16:29	
Benzene	ug/L	ND	1.0	12/30/14 16:29	
Bromobenzene	ug/L	ND	1.0	12/30/14 16:29	
Bromochloromethane	ug/L	ND	1.0	12/30/14 16:29	
Bromodichloromethane	ug/L	ND	1.0	12/30/14 16:29	
Bromoform	ug/L	ND	1.0	12/30/14 16:29	
Bromomethane	ug/L	ND	2.0	12/30/14 16:29	
Carbon tetrachloride	ug/L	ND	1.0	12/30/14 16:29	
Chlorobenzene	ug/L	ND	1.0	12/30/14 16:29	
Chloroethane	ug/L	ND	1.0	12/30/14 16:29	
Chloroform	ug/L	ND	1.0	12/30/14 16:29	
Chloromethane	ug/L	ND	1.0	12/30/14 16:29	
cis-1,2-Dichloroethene	ug/L	ND	1.0	12/30/14 16:29	
cis-1,3-Dichloropropene	ug/L	ND	1.0	12/30/14 16:29	
Dibromochloromethane	ug/L	ND	1.0	12/30/14 16:29	
Dibromomethane	ug/L	ND	1.0	12/30/14 16:29	
Dichlorodifluoromethane	ug/L	ND	1.0	12/30/14 16:29	

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QUALITY CONTROL DATA

Project: Legion Industries6121-09-0444
Pace Project No.: 92230389

METHOD BLANK: 1361106 Matrix: Water
Associated Lab Samples: 92230389010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diisopropyl ether	ug/L	ND	1.0	12/30/14 16:29	
Ethylbenzene	ug/L	ND	1.0	12/30/14 16:29	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	12/30/14 16:29	
m&p-Xylene	ug/L	ND	2.0	12/30/14 16:29	
Methyl-tert-butyl ether	ug/L	ND	1.0	12/30/14 16:29	
Methylene Chloride	ug/L	ND	2.0	12/30/14 16:29	
Naphthalene	ug/L	ND	1.0	12/30/14 16:29	
o-Xylene	ug/L	ND	1.0	12/30/14 16:29	
p-Isopropyltoluene	ug/L	ND	1.0	12/30/14 16:29	
Styrene	ug/L	ND	1.0	12/30/14 16:29	
Tetrachloroethene	ug/L	ND	1.0	12/30/14 16:29	
Toluene	ug/L	ND	1.0	12/30/14 16:29	
trans-1,2-Dichloroethene	ug/L	ND	1.0	12/30/14 16:29	
trans-1,3-Dichloropropene	ug/L	ND	1.0	12/30/14 16:29	
Trichloroethene	ug/L	ND	1.0	12/30/14 16:29	
Trichlorofluoromethane	ug/L	ND	1.0	12/30/14 16:29	
Vinyl acetate	ug/L	ND	2.0	12/30/14 16:29	
Vinyl chloride	ug/L	ND	1.0	12/30/14 16:29	
Xylene (Total)	ug/L	ND	2.0	12/30/14 16:29	
1,2-Dichloroethane-d4 (S)	%	96	70-130	12/30/14 16:29	
4-Bromofluorobenzene (S)	%	100	70-130	12/30/14 16:29	
Toluene-d8 (S)	%	99	70-130	12/30/14 16:29	

LABORATORY CONTROL SAMPLE: 1361107

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	52.4	105	70-130	
1,1,1-Trichloroethane	ug/L	50	53.2	106	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	50.7	101	70-130	
1,1,2-Trichloroethane	ug/L	50	54.7	109	70-130	
1,1-Dichloroethane	ug/L	50	55.4	111	70-130	
1,1-Dichloroethene	ug/L	50	55.5	111	70-132	
1,1-Dichloropropene	ug/L	50	56.9	114	70-130	
1,2,3-Trichlorobenzene	ug/L	50	47.0	94	70-135	
1,2,3-Trichloropropane	ug/L	50	47.4	95	70-130	
1,2,4-Trichlorobenzene	ug/L	50	49.0	98	70-134	
1,2-Dibromo-3-chloropropane	ug/L	50	48.3	97	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	53.9	108	70-130	
1,2-Dichlorobenzene	ug/L	50	50.6	101	70-130	
1,2-Dichloroethane	ug/L	50	49.5	99	70-130	
1,2-Dichloropropane	ug/L	50	52.6	105	70-130	
1,3-Dichlorobenzene	ug/L	50	50.5	101	70-130	
1,3-Dichloropropane	ug/L	50	51.2	102	70-130	
1,4-Dichlorobenzene	ug/L	50	51.0	102	70-130	

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(704)875-9092

QUALITY CONTROL DATA

Project: Legion Industries6121-09-0444
Pace Project No.: 92230389

LABORATORY CONTROL SAMPLE: 1361107

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,2-Dichloropropane	ug/L	50	55.8	112	58-145	
2-Butanone (MEK)	ug/L	100	89.6	90	70-145	
2-Chlorotoluene	ug/L	50	51.3	103	70-130	
2-Hexanone	ug/L	100	89.3	89	70-144	
4-Chlorotoluene	ug/L	50	50.4	101	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	97.9	98	70-140	
Acetone	ug/L	100	89.8	90	50-175	
Benzene	ug/L	50	55.1	110	70-130	
Bromobenzene	ug/L	50	51.0	102	70-130	
Bromochloromethane	ug/L	50	58.3	117	70-130	
Bromodichloromethane	ug/L	50	54.3	109	70-130	
Bromoform	ug/L	50	48.4	97	70-130	
Bromomethane	ug/L	50	50.9	102	54-130	
Carbon tetrachloride	ug/L	50	53.8	108	70-132	
Chlorobenzene	ug/L	50	51.5	103	70-130	
Chloroethane	ug/L	50	60.8	122	64-134	
Chloroform	ug/L	50	53.9	108	70-130	
Chloromethane	ug/L	50	51.0	102	64-130	
cis-1,2-Dichloroethene	ug/L	50	55.3	111	70-131	
cis-1,3-Dichloropropene	ug/L	50	55.3	111	70-130	
Dibromochloromethane	ug/L	50	49.5	99	70-130	
Dibromomethane	ug/L	50	53.2	106	70-131	
Dichlorodifluoromethane	ug/L	50	56.0	112	56-130	
Diisopropyl ether	ug/L	50	51.0	102	70-130	
Ethylbenzene	ug/L	50	50.2	100	70-130	
Hexachloro-1,3-butadiene	ug/L	50	41.5	83	70-130	
m&p-Xylene	ug/L	100	100	100	70-130	
Methyl-tert-butyl ether	ug/L	50	50.3	101	70-130	
Methylene Chloride	ug/L	50	52.6	105	63-130	
Naphthalene	ug/L	50	49.5	99	70-138	
o-Xylene	ug/L	50	49.9	100	70-130	
p-Isopropyltoluene	ug/L	50	50.8	102	70-130	
Styrene	ug/L	50	54.5	109	70-130	
Tetrachloroethene	ug/L	50	50.7	101	70-130	
Toluene	ug/L	50	53.8	108	70-130	
trans-1,2-Dichloroethene	ug/L	50	57.0	114	70-130	
trans-1,3-Dichloropropene	ug/L	50	56.1	112	70-132	
Trichloroethene	ug/L	50	51.7	103	70-130	
Trichlorofluoromethane	ug/L	50	51.7	103	62-133	
Vinyl acetate	ug/L	100	103	103	66-157	
Vinyl chloride	ug/L	50	52.4	105	50-150	
Xylene (Total)	ug/L	150	150	100	70-130	
1,2-Dichloroethane-d4 (S)	%			90	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			103	70-130	

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QUALITY CONTROL DATA

Project: Legion Industries6121-09-0444
Pace Project No.: 92230389

MATRIX SPIKE SAMPLE: 1361108

Parameter	Units	92230600006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	20	21.9	110	70-130	
1,1,1-Trichloroethane	ug/L	ND	20	22.9	114	70-130	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20.5	102	70-130	
1,1,2-Trichloroethane	ug/L	ND	20	22.1	111	70-130	
1,1-Dichloroethane	ug/L	ND	20	23.5	118	70-130	
1,1-Dichloroethene	ug/L	ND	20	24.5	122	70-166	
1,1-Dichloropropene	ug/L	ND	20	24.7	124	70-130	
1,2,3-Trichlorobenzene	ug/L	ND	20	19.0	95	70-130	
1,2,3-Trichloropropane	ug/L	ND	20	19.2	96	70-130	
1,2,4-Trichlorobenzene	ug/L	ND	20	19.8	99	70-130	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	17.6	88	70-130	
1,2-Dibromoethane (EDB)	ug/L	ND	20	21.9	110	70-130	
1,2-Dichlorobenzene	ug/L	ND	20	21.0	105	70-130	
1,2-Dichloroethane	ug/L	ND	20	20.1	100	70-130	
1,2-Dichloropropane	ug/L	ND	20	22.3	112	70-130	
1,3-Dichlorobenzene	ug/L	ND	20	21.3	107	70-130	
1,3-Dichloropropane	ug/L	ND	20	21.2	106	70-130	
1,4-Dichlorobenzene	ug/L	ND	20	21.4	107	70-130	
2,2-Dichloropropane	ug/L	ND	20	23.5	118	70-130	
2-Butanone (MEK)	ug/L	ND	40	35.4	88	70-130	
2-Chlorotoluene	ug/L	ND	20	21.8	109	70-130	
2-Hexanone	ug/L	ND	40	35.2	88	70-130	
4-Chlorotoluene	ug/L	ND	20	21.2	106	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	40	38.9	97	70-130	
Acetone	ug/L	ND	40	36.1	90	70-130	
Benzene	ug/L	ND	20	24.2	121	70-148	
Bromobenzene	ug/L	ND	20	20.8	104	70-130	
Bromochloromethane	ug/L	ND	20	24.8	124	70-130	
Bromodichloromethane	ug/L	ND	20	21.6	108	70-130	
Bromoform	ug/L	ND	20	19.6	98	70-130	
Bromomethane	ug/L	ND	20	26.5	133	70-130	M0
Carbon tetrachloride	ug/L	ND	20	23.1	116	70-130	
Chlorobenzene	ug/L	ND	20	22.1	110	70-146	
Chloroethane	ug/L	ND	20	27.4	137	70-130	M0
Chloroform	ug/L	ND	20	22.1	110	70-130	
Chloromethane	ug/L	ND	20	21.1	105	70-130	
cis-1,2-Dichloroethene	ug/L	ND	20	23.7	118	70-130	
cis-1,3-Dichloropropene	ug/L	ND	20	21.4	107	70-130	
Dibromochloromethane	ug/L	ND	20	20.6	103	70-130	
Dibromomethane	ug/L	ND	20	22.0	110	70-130	
Dichlorodifluoromethane	ug/L	ND	20	24.4	122	70-130	
Diisopropyl ether	ug/L	ND	20	20.8	104	70-130	
Ethylbenzene	ug/L	ND	20	22.1	111	70-130	
Hexachloro-1,3-butadiene	ug/L	ND	20	20.7	103	70-130	
m&p-Xylene	ug/L	ND	40	44.3	111	70-130	
Methyl-tert-butyl ether	ug/L	ND	20	20.1	100	70-130	
Methylene Chloride	ug/L	ND	20	22.5	113	70-130	

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QUALITY CONTROL DATA

Project: Legion Industries6121-09-0444
Pace Project No.: 92230389

MATRIX SPIKE SAMPLE: 1361108

Parameter	Units	92230600006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Naphthalene	ug/L	ND	20	19.4	97	70-130	
o-Xylene	ug/L	ND	20	21.5	108	70-130	
p-Isopropyltoluene	ug/L	ND	20	21.5	108	70-130	
Styrene	ug/L	ND	20	22.8	114	70-130	
Tetrachloroethene	ug/L	ND	20	22.0	110	70-130	
Toluene	ug/L	ND	20	22.9	115	70-155	
trans-1,2-Dichloroethene	ug/L	ND	20	24.8	124	70-130	
trans-1,3-Dichloropropene	ug/L	ND	20	21.6	108	70-130	
Trichloroethene	ug/L	ND	20	23.2	116	69-151	
Trichlorofluoromethane	ug/L	ND	20	22.9	115	70-130	
Vinyl acetate	ug/L	ND	40	39.9	100	70-130	
Vinyl chloride	ug/L	ND	20	22.2	111	70-130	
1,2-Dichloroethane-d4 (S)	%				94	70-130	
4-Bromofluorobenzene (S)	%				102	70-130	
Toluene-d8 (S)	%				101	70-130	

SAMPLE DUPLICATE: 1361109

Parameter	Units	92230600007 Result	Dup Result	RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	ND		
1,1,1-Trichloroethane	ug/L	ND	ND		
1,1,2,2-Tetrachloroethane	ug/L	ND	ND		
1,1,2-Trichloroethane	ug/L	ND	ND		
1,1-Dichloroethane	ug/L	ND	ND		
1,1-Dichloroethene	ug/L	ND	ND		
1,1-Dichloropropene	ug/L	ND	ND		
1,2,3-Trichlorobenzene	ug/L	ND	ND		
1,2,3-Trichloropropane	ug/L	ND	ND		
1,2,4-Trichlorobenzene	ug/L	ND	ND		
1,2-Dibromo-3-chloropropane	ug/L	ND	ND		
1,2-Dibromoethane (EDB)	ug/L	ND	ND		
1,2-Dichlorobenzene	ug/L	ND	ND		
1,2-Dichloroethane	ug/L	ND	ND		
1,2-Dichloropropane	ug/L	ND	ND		
1,3-Dichlorobenzene	ug/L	ND	ND		
1,3-Dichloropropane	ug/L	ND	ND		
1,4-Dichlorobenzene	ug/L	ND	ND		
2,2-Dichloropropane	ug/L	ND	ND		
2-Butanone (MEK)	ug/L	ND	ND		
2-Chlorotoluene	ug/L	ND	ND		
2-Hexanone	ug/L	ND	ND		
4-Chlorotoluene	ug/L	ND	ND		
4-Methyl-2-pentanone (MIBK)	ug/L	ND	ND		
Acetone	ug/L	ND	ND		
Benzene	ug/L	ND	ND		

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QUALITY CONTROL DATA

Project: Legion Industries6121-09-0444
Pace Project No.: 92230389

SAMPLE DUPLICATE: 1361109

Parameter	Units	92230600007 Result	Dup Result	RPD	Qualifiers
Bromobenzene	ug/L	ND	ND		
Bromochloromethane	ug/L	ND	ND		
Bromodichloromethane	ug/L	ND	ND		
Bromoform	ug/L	ND	ND		
Bromomethane	ug/L	ND	ND		
Carbon tetrachloride	ug/L	ND	ND		
Chlorobenzene	ug/L	ND	ND		
Chloroethane	ug/L	ND	ND		
Chloroform	ug/L	ND	ND		
Chloromethane	ug/L	ND	ND		
cis-1,2-Dichloroethene	ug/L	ND	.35J		
cis-1,3-Dichloropropene	ug/L	ND	ND		
Dibromochloromethane	ug/L	ND	ND		
Dibromomethane	ug/L	ND	ND		
Dichlorodifluoromethane	ug/L	ND	ND		
Diisopropyl ether	ug/L	ND	ND		
Ethylbenzene	ug/L	ND	ND		
Hexachloro-1,3-butadiene	ug/L	ND	ND		
m&p-Xylene	ug/L	ND	ND		
Methyl-tert-butyl ether	ug/L	ND	ND		
Methylene Chloride	ug/L	ND	ND		
Naphthalene	ug/L	ND	ND		
o-Xylene	ug/L	ND	ND		
p-Isopropyltoluene	ug/L	ND	ND		
Styrene	ug/L	ND	ND		
Tetrachloroethene	ug/L	ND	ND		
Toluene	ug/L	ND	ND		
trans-1,2-Dichloroethene	ug/L	ND	ND		
trans-1,3-Dichloropropene	ug/L	ND	ND		
Trichloroethene	ug/L	ND	ND		
Trichlorofluoromethane	ug/L	ND	ND		
Vinyl acetate	ug/L	ND	ND		
Vinyl chloride	ug/L	ND	ND		
Xylene (Total)	ug/L	ND	ND		
1,2-Dichloroethane-d4 (S)	%	115	114	1	
4-Bromofluorobenzene (S)	%	100	100	0	
Toluene-d8 (S)	%	97	97	0	

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QUALITY CONTROL DATA

Project: Legion Industries6121-09-0444
Pace Project No.: 92230389

QC Batch: OEXT/31889 Analysis Method: EPA 8081
QC Batch Method: EPA 3510 Analysis Description: 8081A GCS Pesticides
Associated Lab Samples: 92230389001, 92230389002, 92230389003, 92230389004, 92230389005, 92230389007, 92230389008, 92230389010

METHOD BLANK: 1358234 Matrix: Water
Associated Lab Samples: 92230389001, 92230389002, 92230389003, 92230389004, 92230389005, 92230389007, 92230389008, 92230389010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
4,4'-DDD	ug/L	ND	0.050	12/23/14 17:23	
4,4'-DDE	ug/L	ND	0.050	12/23/14 17:23	
4,4'-DDT	ug/L	ND	0.050	12/23/14 17:23	
Aldrin	ug/L	ND	0.050	12/23/14 17:23	
alpha-BHC	ug/L	ND	0.050	12/23/14 17:23	
beta-BHC	ug/L	ND	0.050	12/23/14 17:23	
Chlordane (Technical)	ug/L	ND	0.20	12/23/14 17:23	
delta-BHC	ug/L	ND	0.050	12/23/14 17:23	
Dieldrin	ug/L	ND	0.050	12/23/14 17:23	
Endosulfan I	ug/L	ND	0.050	12/23/14 17:23	
Endosulfan II	ug/L	ND	0.050	12/23/14 17:23	
Endosulfan sulfate	ug/L	ND	0.050	12/23/14 17:23	
Endrin	ug/L	ND	0.050	12/23/14 17:23	
Endrin aldehyde	ug/L	ND	0.050	12/23/14 17:23	
Endrin ketone	ug/L	ND	0.050	12/23/14 17:23	
gamma-BHC (Lindane)	ug/L	ND	0.050	12/23/14 17:23	
Heptachlor	ug/L	ND	0.050	12/23/14 17:23	
Heptachlor epoxide	ug/L	ND	0.050	12/23/14 17:23	
Hexachlorobenzene	ug/L	ND	0.050	12/23/14 17:23	
Methoxychlor	ug/L	ND	0.15	12/23/14 17:23	
Mirex	ug/L	ND	0.15	12/23/14 17:23	
Toxaphene	ug/L	ND	0.20	12/23/14 17:23	
Decachlorobiphenyl (S)	%	95	20-130	12/23/14 17:23	
Tetrachloro-m-xylene (S)	%	76	20-130	12/23/14 17:23	

LABORATORY CONTROL SAMPLE: 1358235

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4,4'-DDD	ug/L	.25	0.27	108	20-150	
4,4'-DDE	ug/L	.25	0.22	89	20-150	
4,4'-DDT	ug/L	.25	0.27	111	20-150	
Aldrin	ug/L	.25	0.17	68	20-150	
alpha-BHC	ug/L	.25	0.26	106	20-150	
beta-BHC	ug/L	.25	0.28	113	20-150	
delta-BHC	ug/L	.25	0.29	118	20-150	
Dieldrin	ug/L	.25	0.26	103	20-150	
Endosulfan I	ug/L	.25	0.29	117	20-150	
Endosulfan II	ug/L	.25	0.28	113	20-150	

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QUALITY CONTROL DATA

Project: Legion Industries6121-09-0444
Pace Project No.: 92230389

LABORATORY CONTROL SAMPLE: 1358235

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Endosulfan sulfate	ug/L	.25	0.28	115	20-150	
Endrin	ug/L	.25	0.30	122	20-150	
Endrin aldehyde	ug/L	.25	0.24	98	20-150	
Endrin ketone	ug/L	.25	0.27	111	20-150	
gamma-BHC (Lindane)	ug/L	.25	0.27	110	20-150	
Heptachlor	ug/L	.25	0.22	88	20-150	
Heptachlor epoxide	ug/L	.25	0.26	106	20-150	
Hexachlorobenzene	ug/L	.25	0.21	83	20-150	
Methoxychlor	ug/L	.74	0.84	113	20-150	
Mirex	ug/L	.74	0.79	107	20-150	
Decachlorobiphenyl (S)	%			39	20-130	
Tetrachloro-m-xylene (S)	%			97	20-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1358236 1358237

Parameter	Units	92229727001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
4,4'-DDD	ug/L	ND	.5	.5	0.41	0.46	83	93	20-150	12	
4,4'-DDE	ug/L	ND	.5	.5	0.34	0.41	70	83	20-150	18	
4,4'-DDT	ug/L	ND	.5	.5	0.38	0.46	78	93	20-150	18	
Aldrin	ug/L	ND	.5	.5	0.29	0.34	59	69	20-150	15	
alpha-BHC	ug/L	ND	.5	.5	0.38	0.36	77	74	20-150	5	
beta-BHC	ug/L	ND	.5	.5	0.49	0.46	100	92	20-150	8	
delta-BHC	ug/L	ND	.5	.5	0.48	0.48	96	96	20-150	0	
Dieldrin	ug/L	ND	.5	.5	0.39	0.38	80	77	20-150	3	
Endosulfan I	ug/L	ND	.5	.5	0.43	0.43	86	86	20-150	0	
Endosulfan II	ug/L	ND	.5	.5	0.46	0.48	94	96	20-150	3	
Endosulfan sulfate	ug/L	ND	.5	.5	0.48	0.50	96	102	20-150	5	
Endrin	ug/L	ND	.5	.5	0.42	0.44	84	88	20-150	4	
Endrin aldehyde	ug/L	ND	.5	.5	0.42	0.41	85	82	20-150	4	
Endrin ketone	ug/L	ND	.5	.5	0.44	0.48	89	96	20-150	8	
gamma-BHC (Lindane)	ug/L	ND	.5	.5	0.41	0.41	83	83	20-150	0	
Heptachlor	ug/L	ND	.5	.5	0.38	0.47	76	94	20-150	22	
Heptachlor epoxide	ug/L	ND	.5	.5	0.40	0.39	81	79	20-150	3	
Hexachlorobenzene	ug/L	ND	.5	.5	0.29	0.30	59	61	20-150	4	
Methoxychlor	ug/L	ND	1.5	1.5	1.3	1.5	87	101	20-150	15	
Mirex	ug/L	ND	1.5	1.5	1.3	1.4	88	94	20-150	7	
Decachlorobiphenyl (S)	%						87	91	20-130		
Tetrachloro-m-xylene (S)	%						73	70	20-130		

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QUALIFIERS

Project: Legion Industries6121-09-0444
Pace Project No.: 92230389

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Acid preservation may not be appropriate for 2-Chloroethylvinyl ether, Styrene, and Vinyl chloride.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-C	Pace Analytical Services - Charlotte

ANALYTE QUALIFIERS

D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
S4	Surrogate recovery not evaluated against control limits due to sample dilution.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Legion Industries6121-09-0444
Pace Project No.: 92230389

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92230389001	**MW-1**	EPA 3510	OEXT/31889	EPA 8081	GCSV/19904
92230389002	**MW-16**	EPA 3510	OEXT/31889	EPA 8081	GCSV/19904
92230389003	**MW-18**	EPA 3510	OEXT/31889	EPA 8081	GCSV/19904
92230389004	**PZ-2**	EPA 3510	OEXT/31889	EPA 8081	GCSV/19904
92230389005	**MW-13**	EPA 3510	OEXT/31889	EPA 8081	GCSV/19904
92230389007	**MW-15**	EPA 3510	OEXT/31889	EPA 8081	GCSV/19904
92230389008	**MW-4**	EPA 3510	OEXT/31889	EPA 8081	GCSV/19904
92230389010	**DUP**	EPA 3510	OEXT/31889	EPA 8081	GCSV/19904
92230389001	**MW-1**	EPA 8260	MSV/29809		
92230389002	**MW-16**	EPA 8260	MSV/29833		
92230389003	**MW-18**	EPA 8260	MSV/29809		
92230389004	**PZ-2**	EPA 8260	MSV/29809		
92230389005	**MW-13**	EPA 8260	MSV/29809		
92230389007	**MW-15**	EPA 8260	MSV/29809		
92230389008	**MW-4**	EPA 8260	MSV/29809		
92230389009	**Trip Blank**	EPA 8260	MSV/29809		
92230389010	**DUP**	EPA 8260	MSV/29858		

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Pace Analytical® www.pacolabs.com	Document Name: **Sample Condition Upon Receipt (SCUR)**	Document Revised: June 10, 2014 Page 1 of 2
	Document No.: F-ASV-CS-003-rev.14	Issuing Authorities: Pace Asheville Quality Office

Client Name: Amec E&I

Courier (Circle): Fed Ex UPS USPS Client Commercial Pace Other_____

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other_____

Thermometer Used: ~~IR Gun#3~~ -130265963 **Type of Ice:** Wet Blue None ☑ Samples on ice, cooling process has begun

IR Gun #4 SN:140290365 Other:_____

Temp Correction Factor: Add / Subtract 0.0 C

Corrected Cooler Temp.: 3.7 C **Biological Tissue is Frozen:** Yes No N/A

Temp should be above freezing to 6°C

Date and Initials of person examining contents: RDB 12/18/14

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: WT		
All containers needing preservation have been checked.	☐Yes ☐No ☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☑No	RDB 12/18/14
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☑No ☐N/A	15.
Trip Blank Present:	☐Yes ☑No ☐N/A	16.
Trip Blank Custody Seals Present	☐Yes ☑No ☐N/A	
Pace Trip Blank Lot # (if purchased):_____		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: Denise Tranthan Date/Time: 12/18/14

Comments/ Resolution: Did not receive MW-14, however did receive Dup sample not listed on COC. KC, Analyze Dup sample

SCURF Review: JG **Date:** 12/18/14

SRF Review: MMD **Date:** 12/22/14

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

WO# : 92230389

92230389

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www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

1783476

Section A Required Client Information:

Company: AMEC EPI
Address: 2677 BUFORD HWY
ATLANTA, GA 30324
Email To: STEVE.FOLEY@AMEC.CO
Phone: 404-817-6152 Fax:
Requested Due Date/TAT: 1 WK

Section B Required Project Information:

Report To: STEVE FOLEY
Copy To:
Purchase Order No.:
Project Name: LEGION INDUSTRIES
Project Number: 6121-09-0444

Section C Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☐ OTHER HSRA

Site Location STATE: GA

Section D Required Client Information

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N): VOCs 8260B (Y/N) = N; PESTICIDES (Y/N) = N

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. (92230389)
1	MW-1	WT	G			12/17/14	0928		5	2			3						001
2	MW-16						1030		5	2			3						002
3	MW-18						1300		5	2			3						003
4	PZ-2						1320		4	1			3						004
5	MW-13						1445		5	2			3						005
6	MW-14						1550		5	2			3						
7	MW-15						1710		5	2			3						007
8	MW-4						1850		5	2			3						008
9	TRIP BLANK								2				2						009
10																			010
11																			
12																			

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	S R F AMEC	12/17/14	0700	[signature]	12/18/14	0930				
	[signature]	12/18/14	1555	[signature]	12/18/14	1555	3.7	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: STEPHEN R FOLEY

SIGNATURE of SAMPLER: S R F

DATE Signed (MM/DD/YY): 12/17/14

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

ORIGINAL

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

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January 03, 2015

Steve Foley
AMEC Environment & Infrastruct
396 Plasters Avenue
Atlanta, GA 30324

RE: Project: LEGION INDUSTRIES 6121-090444
Pace Project No.: 92230609

Dear Steve Foley:
Enclosed are the analytical results for sample(s) received by the laboratory on December 20, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kevin Godwin
kevin.godwin@pacelabs.com
Project Manager

Enclosures

cc: Chuck Ferry, AMEC Environment & Infrastruct

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CERTIFICATIONS

Project:	LEGION INDUSTRIES 6121-090444
Pace Project No.:	92230609

Charlotte Certification IDs

9800 Kincey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
West Virginia Certification #: 357
Virginia/VELAP Certification #: 460221

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SAMPLE ANALYTE COUNT

Project: LEGION INDUSTRIES 6121-090444
Pace Project No.: 92230609

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92230609001	**MW-9**	EPA 8081	RES	24	PASI-C
		EPA 8260	JDW1	63	PASI-C
92230609002	**MW-6**	EPA 8081	RES	24	PASI-C
		EPA 8260	JDW1	63	PASI-C
92230609003	**MW-5**	EPA 8081	RES	24	PASI-C
		EPA 8260	JDW1	63	PASI-C
92230609004	**MW-7**	EPA 8081	RES	24	PASI-C
		EPA 8260	JDW1	63	PASI-C
92230609005	**MW-10**	EPA 8081	RES	24	PASI-C
		EPA 8260	JDW1	63	PASI-C
92230609006	**MW-11**	EPA 8081	RES	24	PASI-C
		EPA 8260	JDW1	63	PASI-C
92230609007	**MW-19**	EPA 8081	RES	24	PASI-C
		EPA 8260	GAW	63	PASI-C
92230609008	**MW-14**	EPA 8081	RES	24	PASI-C
		EPA 8260	GAW	63	PASI-C
92230609009	**DUP-2**	EPA 8081	RES	24	PASI-C
		EPA 8260	GAW	63	PASI-C
92230609010	**TRIP BLANK**	EPA 8260	GAW	63	PASI-C

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SUMMARY OF DETECTION

Project: LEGION INDUSTRIES 6121-090444
Pace Project No.: 92230609

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92230609002	**MW-6**					
EPA 8260	cis-1,2-Dichloroethene	5.3	ug/L	1.0	12/31/14 11:46	
EPA 8260	Trichloroethene	4.2	ug/L	1.0	12/31/14 11:46	
92230609004	**MW-7**					
EPA 8260	cis-1,2-Dichloroethene	11.5	ug/L	1.0	12/31/14 12:20	
EPA 8260	Trichloroethene	10.4	ug/L	1.0	12/31/14 12:20	
92230609005	**MW-10**					
EPA 8260	Trichloroethene	1.0	ug/L	1.0	12/31/14 12:37	
92230609006	**MW-11**					
EPA 8081	alpha-BHC	1.0	ug/L	0.20	12/31/14 18:46	
EPA 8081	beta-BHC	0.52	ug/L	0.20	12/31/14 18:46	
EPA 8081	delta-BHC	1.2	ug/L	0.20	12/31/14 18:46	
EPA 8081	gamma-BHC (Lindane)	0.42	ug/L	0.20	12/31/14 18:46	
EPA 8081	4,4'-DDD	0.54	ug/L	0.20	12/31/14 18:46	
EPA 8081	Dieldrin	0.72	ug/L	0.20	12/31/14 18:46	
EPA 8081	Endrin ketone	2.4	ug/L	0.20	12/31/14 18:46	
EPA 8260	cis-1,2-Dichloroethene	6.2	ug/L	1.0	12/31/14 12:54	
EPA 8260	Naphthalene	3.4	ug/L	1.0	12/31/14 12:54	
EPA 8260	Trichloroethene	5.7	ug/L	1.0	12/31/14 12:54	
92230609007	**MW-19**					
EPA 8081	alpha-BHC	4.0	ug/L	1.0	12/31/14 19:04	
EPA 8081	beta-BHC	4.9	ug/L	1.0	12/31/14 19:04	
EPA 8081	delta-BHC	8.3	ug/L	1.0	12/31/14 19:04	
EPA 8081	gamma-BHC (Lindane)	4.4	ug/L	1.0	12/31/14 19:04	
EPA 8081	4,4'-DDD	7.4	ug/L	1.0	12/31/14 19:04	
EPA 8081	4,4'-DDT	1.6	ug/L	1.0	12/31/14 19:04	
EPA 8081	Dieldrin	4.4	ug/L	1.0	12/31/14 19:04	
EPA 8081	Endrin	2.6	ug/L	1.0	12/31/14 19:04	
EPA 8081	Endrin ketone	5.3	ug/L	1.0	12/31/14 19:04	
EPA 8260	Benzene	6.3	ug/L	5.0	12/31/14 16:53	
EPA 8260	Chlorobenzene	14.1	ug/L	5.0	12/31/14 16:53	
EPA 8260	cis-1,2-Dichloroethene	205	ug/L	5.0	12/31/14 16:53	
EPA 8260	Ethylbenzene	2330	ug/L	25.0	01/02/15 13:23	
EPA 8260	p-Isopropyltoluene	6.2	ug/L	5.0	12/31/14 16:53	
EPA 8260	Naphthalene	63.8	ug/L	5.0	12/31/14 16:53	
EPA 8260	Toluene	50.6	ug/L	5.0	12/31/14 16:53	
EPA 8260	Vinyl chloride	113	ug/L	5.0	12/31/14 16:53	
EPA 8260	Xylene (Total)	10900	ug/L	50.0	01/02/15 13:23	
EPA 8260	m&p-Xylene	8520	ug/L	50.0	01/02/15 13:23	
EPA 8260	o-Xylene	2350	ug/L	25.0	01/02/15 13:23	
92230609008	**MW-14**					
EPA 8260	cis-1,2-Dichloroethene	3.0	ug/L	1.0	12/31/14 13:32	
EPA 8260	Trichloroethene	4.0	ug/L	1.0	12/31/14 13:32	
92230609009	**DUP-2**					
EPA 8260	cis-1,2-Dichloroethene	2.1	ug/L	1.0	12/31/14 15:46	

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SUMMARY OF DETECTION

Project: LEGION INDUSTRIES 6121-090444
Pace Project No.: 92230609

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92230609009	**DUP-2**					
EPA 8260	Trichloroethene	2.8	ug/L	1.0	12/31/14 15:46	

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PROJECT NARRATIVE

Project: LEGION INDUSTRIES 6121-090444
Pace Project No.: 92230609

Method: **EPA 8081**
Description: 8081 Organochlorine Pesticides
Client: AMEC Environment & Infrastructure
Date: January 03, 2015

General Information:
9 samples were analyzed for EPA 8081. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3510 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

QC Batch: OEXT/31932

S4: Surrogate recovery not evaluated against control limits due to sample dilution.

- MW-19 (Lab ID: 92230609007)
  - Tetrachloro-m-xylene (S)

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: OEXT/31932

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92230609006

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1359643)
  - 4,4'-DDE
  - Endosulfan I
  - Endosulfan II
  - Endrin
  - Endrin aldehyde
  - Endrin ketone
  - Heptachlor epoxide
- MSD (Lab ID: 1359644)

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PROJECT NARRATIVE

Project: LEGION INDUSTRIES 6121-090444
Pace Project No.: 92230609

Method: **EPA 8081**
Description: 8081 Organochlorine Pesticides
Client: AMEC Environment & Infrastructure
Date: January 03, 2015

QC Batch: OEXT/31932

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92230609006

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- 4,4'-DDE
- Endosulfan I
- Endosulfan II
- Endrin
- Endrin aldehyde
- Heptachlor epoxide

R1: RPD value was outside control limits.

- MSD (Lab ID: 1359644)
  - Aldrin

Additional Comments:

Analyte Comments:

QC Batch: OEXT/31932

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

- MW-11 (Lab ID: 92230609006)
  - Tetrachloro-m-xylene (S)
- MW-19 (Lab ID: 92230609007)
  - Tetrachloro-m-xylene (S)

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PROJECT NARRATIVE

Project: LEGION INDUSTRIES 6121-090444
Pace Project No.: 92230609

Method: **EPA 8260**
Description: 8260 MSV Low Level
Client: AMEC Environment & Infrastructure
Date: January 03, 2015

General Information:
10 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MSV/29859

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92230600024

M0: Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

- MS (Lab ID: 1361203)
  - 1,1,1-Trichloroethane
  - 1,1-Dichloroethane
  - 1,1-Dichloropropene
  - 1,2-Dichloroethane
  - Acetone
  - Bromochloromethane
  - Bromodichloromethane
  - Bromomethane
  - Carbon tetrachloride
  - Chloroethane
  - Chloroform
  - Chloromethane
  - Dichlorodifluoromethane

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PROJECT NARRATIVE

Project: LEGION INDUSTRIES 6121-090444
Pace Project No.: 92230609

Method: **EPA 8260**
Description: 8260 MSV Low Level
Client: AMEC Environment & Infrastructure
Date: January 03, 2015

QC Batch: MSV/29859

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92230600024

M0: Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

- Diisopropyl ether
- Hexachloro-1,3-butadiene
- Methylene Chloride
- Trichlorofluoromethane
- Vinyl chloride
- cis-1,2-Dichloroethene
- trans-1,2-Dichloroethene

QC Batch: MSV/29872

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92230940011

M0: Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

- MS (Lab ID: 1361780)
  - Hexachloro-1,3-butadiene

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: LEGION INDUSTRIES 6121-090444
Pace Project No.: 92230609

Sample: MW-9 **Lab ID: 92230609001** Collected: 12/18/14 08:20 Received: 12/20/14 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8081 Organochlorine Pesticides	Analytical Method: EPA 8081 Preparation Method: EPA 3510							
Aldrin	ND	ug/L	0.050	1	12/24/14 11:26	12/30/14 03:55	309-00-2	
alpha-BHC	ND	ug/L	0.050	1	12/24/14 11:26	12/30/14 03:55	319-84-6	
beta-BHC	ND	ug/L	0.050	1	12/24/14 11:26	12/30/14 03:55	319-85-7	
delta-BHC	ND	ug/L	0.050	1	12/24/14 11:26	12/30/14 03:55	319-86-8	
gamma-BHC (Lindane)	ND	ug/L	0.050	1	12/24/14 11:26	12/30/14 03:55	58-89-9	
Chlordane (Technical)	ND	ug/L	0.20	1	12/24/14 11:26	12/30/14 03:55	57-74-9	
4,4'-DDD	ND	ug/L	0.050	1	12/24/14 11:26	12/30/14 03:55	72-54-8	
4,4'-DDE	ND	ug/L	0.050	1	12/24/14 11:26	12/30/14 03:55	72-55-9	
4,4'-DDT	ND	ug/L	0.050	1	12/24/14 11:26	12/30/14 03:55	50-29-3	
Dieldrin	ND	ug/L	0.050	1	12/24/14 11:26	12/30/14 03:55	60-57-1	
Endosulfan I	ND	ug/L	0.050	1	12/24/14 11:26	12/30/14 03:55	959-98-8	
Endosulfan II	ND	ug/L	0.050	1	12/24/14 11:26	12/30/14 03:55	33213-65-9	
Endosulfan sulfate	ND	ug/L	0.050	1	12/24/14 11:26	12/30/14 03:55	1031-07-8	
Endrin	ND	ug/L	0.050	1	12/24/14 11:26	12/30/14 03:55	72-20-8	
Endrin aldehyde	ND	ug/L	0.050	1	12/24/14 11:26	12/30/14 03:55	7421-93-4	
Endrin ketone	ND	ug/L	0.050	1	12/24/14 11:26	12/30/14 03:55	53494-70-5	
Heptachlor	ND	ug/L	0.050	1	12/24/14 11:26	12/30/14 03:55	76-44-8	
Heptachlor epoxide	ND	ug/L	0.050	1	12/24/14 11:26	12/30/14 03:55	1024-57-3	
Hexachlorobenzene	ND	ug/L	0.050	1	12/24/14 11:26	12/30/14 03:55	118-74-1	
Methoxychlor	ND	ug/L	0.15	1	12/24/14 11:26	12/30/14 03:55	72-43-5	
Mirex	ND	ug/L	0.15	1	12/24/14 11:26	12/30/14 03:55	2385-85-5	
Toxaphene	ND	ug/L	0.20	1	12/24/14 11:26	12/30/14 03:55	8001-35-2	
Surrogates								
Tetrachloro-m-xylene (S)	83	%	20-130	1	12/24/14 11:26	12/30/14 03:55	877-09-8	
Decachlorobiphenyl (S)	85	%	20-130	1	12/24/14 11:26	12/30/14 03:55	2051-24-3	
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		12/31/14 11:29	67-64-1	
Benzene	ND	ug/L	1.0	1		12/31/14 11:29	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		12/31/14 11:29	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		12/31/14 11:29	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		12/31/14 11:29	75-27-4	
Bromoform	ND	ug/L	1.0	1		12/31/14 11:29	75-25-2	
Bromomethane	ND	ug/L	2.0	1		12/31/14 11:29	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		12/31/14 11:29	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		12/31/14 11:29	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		12/31/14 11:29	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/31/14 11:29	75-00-3	
Chloroform	ND	ug/L	1.0	1		12/31/14 11:29	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/31/14 11:29	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		12/31/14 11:29	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		12/31/14 11:29	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		12/31/14 11:29	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		12/31/14 11:29	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		12/31/14 11:29	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		12/31/14 11:29	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		12/31/14 11:29	95-50-1	

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ANALYTICAL RESULTS

Project: LEGION INDUSTRIES 6121-090444
Pace Project No.: 92230609

Sample: MW-9 **Lab ID: 92230609001** Collected: 12/18/14 08:20 Received: 12/20/14 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
1,3-Dichlorobenzene	ND	ug/L	1.0	1		12/31/14 11:29	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		12/31/14 11:29	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		12/31/14 11:29	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		12/31/14 11:29	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		12/31/14 11:29	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		12/31/14 11:29	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		12/31/14 11:29	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/31/14 11:29	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		12/31/14 11:29	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		12/31/14 11:29	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		12/31/14 11:29	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		12/31/14 11:29	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		12/31/14 11:29	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		12/31/14 11:29	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		12/31/14 11:29	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		12/31/14 11:29	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		12/31/14 11:29	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		12/31/14 11:29	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		12/31/14 11:29	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		12/31/14 11:29	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		12/31/14 11:29	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		12/31/14 11:29	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		12/31/14 11:29	91-20-3	
Styrene	ND	ug/L	1.0	1		12/31/14 11:29	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		12/31/14 11:29	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		12/31/14 11:29	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		12/31/14 11:29	127-18-4	
Toluene	ND	ug/L	1.0	1		12/31/14 11:29	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		12/31/14 11:29	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		12/31/14 11:29	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		12/31/14 11:29	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		12/31/14 11:29	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		12/31/14 11:29	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/31/14 11:29	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		12/31/14 11:29	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		12/31/14 11:29	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		12/31/14 11:29	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		12/31/14 11:29	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		12/31/14 11:29	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		12/31/14 11:29	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	102	%	70-130	1		12/31/14 11:29	460-00-4	
1,2-Dichloroethane-d4 (S)	123	%	70-130	1		12/31/14 11:29	17060-07-0	
Toluene-d8 (S)	100	%	70-130	1		12/31/14 11:29	2037-26-5	

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ANALYTICAL RESULTS

Project: LEGION INDUSTRIES 6121-090444
Pace Project No.: 92230609

Sample: MW-6 **Lab ID: 92230609002** Collected: 12/18/14 08:45 Received: 12/20/14 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8081 Organochlorine Pesticides	Analytical Method: EPA 8081 Preparation Method: EPA 3510							
Aldrin	ND	ug/L	0.050	1	12/24/14 11:26	12/30/14 04:13	309-00-2	
alpha-BHC	ND	ug/L	0.050	1	12/24/14 11:26	12/30/14 04:13	319-84-6	
beta-BHC	ND	ug/L	0.050	1	12/24/14 11:26	12/30/14 04:13	319-85-7	
delta-BHC	ND	ug/L	0.050	1	12/24/14 11:26	12/30/14 04:13	319-86-8	
gamma-BHC (Lindane)	ND	ug/L	0.050	1	12/24/14 11:26	12/30/14 04:13	58-89-9	
Chlordane (Technical)	ND	ug/L	0.20	1	12/24/14 11:26	12/30/14 04:13	57-74-9	
4,4'-DDD	ND	ug/L	0.050	1	12/24/14 11:26	12/30/14 04:13	72-54-8	
4,4'-DDE	ND	ug/L	0.050	1	12/24/14 11:26	12/30/14 04:13	72-55-9	
4,4'-DDT	ND	ug/L	0.050	1	12/24/14 11:26	12/30/14 04:13	50-29-3	
Dieldrin	ND	ug/L	0.050	1	12/24/14 11:26	12/30/14 04:13	60-57-1	
Endosulfan I	ND	ug/L	0.050	1	12/24/14 11:26	12/30/14 04:13	959-98-8	
Endosulfan II	ND	ug/L	0.050	1	12/24/14 11:26	12/30/14 04:13	33213-65-9	
Endosulfan sulfate	ND	ug/L	0.050	1	12/24/14 11:26	12/30/14 04:13	1031-07-8	
Endrin	ND	ug/L	0.050	1	12/24/14 11:26	12/30/14 04:13	72-20-8	
Endrin aldehyde	ND	ug/L	0.050	1	12/24/14 11:26	12/30/14 04:13	7421-93-4	
Endrin ketone	ND	ug/L	0.050	1	12/24/14 11:26	12/30/14 04:13	53494-70-5	
Heptachlor	ND	ug/L	0.050	1	12/24/14 11:26	12/30/14 04:13	76-44-8	
Heptachlor epoxide	ND	ug/L	0.050	1	12/24/14 11:26	12/30/14 04:13	1024-57-3	
Hexachlorobenzene	ND	ug/L	0.050	1	12/24/14 11:26	12/30/14 04:13	118-74-1	
Methoxychlor	ND	ug/L	0.15	1	12/24/14 11:26	12/30/14 04:13	72-43-5	
Mirex	ND	ug/L	0.15	1	12/24/14 11:26	12/30/14 04:13	2385-85-5	
Toxaphene	ND	ug/L	0.20	1	12/24/14 11:26	12/30/14 04:13	8001-35-2	
Surrogates								
Tetrachloro-m-xylene (S)	49	%	20-130	1	12/24/14 11:26	12/30/14 04:13	877-09-8	
Decachlorobiphenyl (S)	53	%	20-130	1	12/24/14 11:26	12/30/14 04:13	2051-24-3	
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		12/31/14 11:46	67-64-1	
Benzene	ND	ug/L	1.0	1		12/31/14 11:46	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		12/31/14 11:46	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		12/31/14 11:46	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		12/31/14 11:46	75-27-4	
Bromoform	ND	ug/L	1.0	1		12/31/14 11:46	75-25-2	
Bromomethane	ND	ug/L	2.0	1		12/31/14 11:46	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		12/31/14 11:46	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		12/31/14 11:46	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		12/31/14 11:46	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/31/14 11:46	75-00-3	
Chloroform	ND	ug/L	1.0	1		12/31/14 11:46	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/31/14 11:46	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		12/31/14 11:46	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		12/31/14 11:46	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		12/31/14 11:46	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		12/31/14 11:46	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		12/31/14 11:46	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		12/31/14 11:46	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		12/31/14 11:46	95-50-1	

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ANALYTICAL RESULTS

Project: LEGION INDUSTRIES 6121-090444
Pace Project No.: 92230609

Sample: MW-6 **Lab ID: 92230609002** Collected: 12/18/14 08:45 Received: 12/20/14 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
1,3-Dichlorobenzene	ND	ug/L	1.0	1		12/31/14 11:46	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		12/31/14 11:46	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		12/31/14 11:46	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		12/31/14 11:46	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		12/31/14 11:46	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		12/31/14 11:46	75-35-4	
cis-1,2-Dichloroethene	**5.3**	ug/L	1.0	1		12/31/14 11:46	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/31/14 11:46	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		12/31/14 11:46	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		12/31/14 11:46	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		12/31/14 11:46	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		12/31/14 11:46	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		12/31/14 11:46	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		12/31/14 11:46	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		12/31/14 11:46	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		12/31/14 11:46	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		12/31/14 11:46	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		12/31/14 11:46	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		12/31/14 11:46	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		12/31/14 11:46	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		12/31/14 11:46	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		12/31/14 11:46	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		12/31/14 11:46	91-20-3	
Styrene	ND	ug/L	1.0	1		12/31/14 11:46	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		12/31/14 11:46	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		12/31/14 11:46	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		12/31/14 11:46	127-18-4	
Toluene	ND	ug/L	1.0	1		12/31/14 11:46	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		12/31/14 11:46	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		12/31/14 11:46	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		12/31/14 11:46	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		12/31/14 11:46	79-00-5	
Trichloroethene	**4.2**	ug/L	1.0	1		12/31/14 11:46	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/31/14 11:46	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		12/31/14 11:46	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		12/31/14 11:46	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		12/31/14 11:46	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		12/31/14 11:46	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		12/31/14 11:46	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		12/31/14 11:46	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	102	%	70-130	1		12/31/14 11:46	460-00-4	
1,2-Dichloroethane-d4 (S)	119	%	70-130	1		12/31/14 11:46	17060-07-0	
Toluene-d8 (S)	99	%	70-130	1		12/31/14 11:46	2037-26-5	

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ANALYTICAL RESULTS

Project: LEGION INDUSTRIES 6121-090444
Pace Project No.: 92230609

Sample: MW-5 **Lab ID: 92230609003** Collected: 12/18/14 10:25 Received: 12/20/14 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8081 Organochlorine Pesticides	Analytical Method: EPA 8081 Preparation Method: EPA 3510							
Aldrin	ND	ug/L	0.050	1	12/24/14 11:26	12/30/14 04:30	309-00-2	
alpha-BHC	ND	ug/L	0.050	1	12/24/14 11:26	12/30/14 04:30	319-84-6	
beta-BHC	ND	ug/L	0.050	1	12/24/14 11:26	12/30/14 04:30	319-85-7	
delta-BHC	ND	ug/L	0.050	1	12/24/14 11:26	12/30/14 04:30	319-86-8	
gamma-BHC (Lindane)	ND	ug/L	0.050	1	12/24/14 11:26	12/30/14 04:30	58-89-9	
Chlordane (Technical)	ND	ug/L	0.20	1	12/24/14 11:26	12/30/14 04:30	57-74-9	
4,4'-DDD	ND	ug/L	0.050	1	12/24/14 11:26	12/30/14 04:30	72-54-8	
4,4'-DDE	ND	ug/L	0.050	1	12/24/14 11:26	12/30/14 04:30	72-55-9	
4,4'-DDT	ND	ug/L	0.050	1	12/24/14 11:26	12/30/14 04:30	50-29-3	
Dieldrin	ND	ug/L	0.050	1	12/24/14 11:26	12/30/14 04:30	60-57-1	
Endosulfan I	ND	ug/L	0.050	1	12/24/14 11:26	12/30/14 04:30	959-98-8	
Endosulfan II	ND	ug/L	0.050	1	12/24/14 11:26	12/30/14 04:30	33213-65-9	
Endosulfan sulfate	ND	ug/L	0.050	1	12/24/14 11:26	12/30/14 04:30	1031-07-8	
Endrin	ND	ug/L	0.050	1	12/24/14 11:26	12/30/14 04:30	72-20-8	
Endrin aldehyde	ND	ug/L	0.050	1	12/24/14 11:26	12/30/14 04:30	7421-93-4	
Endrin ketone	ND	ug/L	0.050	1	12/24/14 11:26	12/30/14 04:30	53494-70-5	
Heptachlor	ND	ug/L	0.050	1	12/24/14 11:26	12/30/14 04:30	76-44-8	
Heptachlor epoxide	ND	ug/L	0.050	1	12/24/14 11:26	12/30/14 04:30	1024-57-3	
Hexachlorobenzene	ND	ug/L	0.050	1	12/24/14 11:26	12/30/14 04:30	118-74-1	
Methoxychlor	ND	ug/L	0.15	1	12/24/14 11:26	12/30/14 04:30	72-43-5	
Mirex	ND	ug/L	0.15	1	12/24/14 11:26	12/30/14 04:30	2385-85-5	
Toxaphene	ND	ug/L	0.20	1	12/24/14 11:26	12/30/14 04:30	8001-35-2	
Surrogates								
Tetrachloro-m-xylene (S)	62	%	20-130	1	12/24/14 11:26	12/30/14 04:30	877-09-8	
Decachlorobiphenyl (S)	54	%	20-130	1	12/24/14 11:26	12/30/14 04:30	2051-24-3	
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		12/31/14 12:03	67-64-1	
Benzene	ND	ug/L	1.0	1		12/31/14 12:03	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		12/31/14 12:03	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		12/31/14 12:03	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		12/31/14 12:03	75-27-4	
Bromoform	ND	ug/L	1.0	1		12/31/14 12:03	75-25-2	
Bromomethane	ND	ug/L	2.0	1		12/31/14 12:03	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		12/31/14 12:03	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		12/31/14 12:03	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		12/31/14 12:03	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/31/14 12:03	75-00-3	
Chloroform	ND	ug/L	1.0	1		12/31/14 12:03	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/31/14 12:03	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		12/31/14 12:03	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		12/31/14 12:03	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		12/31/14 12:03	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		12/31/14 12:03	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		12/31/14 12:03	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		12/31/14 12:03	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		12/31/14 12:03	95-50-1	

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ANALYTICAL RESULTS

Project: LEGION INDUSTRIES 6121-090444
Pace Project No.: 92230609

Sample: MW-5 **Lab ID: 92230609003** Collected: 12/18/14 10:25 Received: 12/20/14 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
1,3-Dichlorobenzene	ND	ug/L	1.0	1		12/31/14 12:03	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		12/31/14 12:03	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		12/31/14 12:03	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		12/31/14 12:03	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		12/31/14 12:03	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		12/31/14 12:03	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		12/31/14 12:03	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/31/14 12:03	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		12/31/14 12:03	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		12/31/14 12:03	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		12/31/14 12:03	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		12/31/14 12:03	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		12/31/14 12:03	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		12/31/14 12:03	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		12/31/14 12:03	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		12/31/14 12:03	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		12/31/14 12:03	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		12/31/14 12:03	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		12/31/14 12:03	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		12/31/14 12:03	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		12/31/14 12:03	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		12/31/14 12:03	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		12/31/14 12:03	91-20-3	
Styrene	ND	ug/L	1.0	1		12/31/14 12:03	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		12/31/14 12:03	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		12/31/14 12:03	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		12/31/14 12:03	127-18-4	
Toluene	ND	ug/L	1.0	1		12/31/14 12:03	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		12/31/14 12:03	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		12/31/14 12:03	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		12/31/14 12:03	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		12/31/14 12:03	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		12/31/14 12:03	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/31/14 12:03	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		12/31/14 12:03	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		12/31/14 12:03	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		12/31/14 12:03	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		12/31/14 12:03	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		12/31/14 12:03	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		12/31/14 12:03	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	101	%	70-130	1		12/31/14 12:03	460-00-4	
1,2-Dichloroethane-d4 (S)	120	%	70-130	1		12/31/14 12:03	17060-07-0	
Toluene-d8 (S)	99	%	70-130	1		12/31/14 12:03	2037-26-5	

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ANALYTICAL RESULTS

Project: LEGION INDUSTRIES 6121-090444
Pace Project No.: 92230609

Sample: MW-7 **Lab ID: 92230609004** Collected: 12/18/14 11:30 Received: 12/20/14 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8081 Organochlorine Pesticides	Analytical Method: EPA 8081 Preparation Method: EPA 3510							
Aldrin	ND	ug/L	0.050	1	12/24/14 11:26	12/30/14 04:48	309-00-2	
alpha-BHC	ND	ug/L	0.050	1	12/24/14 11:26	12/30/14 04:48	319-84-6	
beta-BHC	ND	ug/L	0.050	1	12/24/14 11:26	12/30/14 04:48	319-85-7	
delta-BHC	ND	ug/L	0.050	1	12/24/14 11:26	12/30/14 04:48	319-86-8	
gamma-BHC (Lindane)	ND	ug/L	0.050	1	12/24/14 11:26	12/30/14 04:48	58-89-9	
Chlordane (Technical)	ND	ug/L	0.20	1	12/24/14 11:26	12/30/14 04:48	57-74-9	
4,4'-DDD	ND	ug/L	0.050	1	12/24/14 11:26	12/30/14 04:48	72-54-8	
4,4'-DDE	ND	ug/L	0.050	1	12/24/14 11:26	12/30/14 04:48	72-55-9	
4,4'-DDT	ND	ug/L	0.050	1	12/24/14 11:26	12/30/14 04:48	50-29-3	
Dieldrin	ND	ug/L	0.050	1	12/24/14 11:26	12/30/14 04:48	60-57-1	
Endosulfan I	ND	ug/L	0.050	1	12/24/14 11:26	12/30/14 04:48	959-98-8	
Endosulfan II	ND	ug/L	0.050	1	12/24/14 11:26	12/30/14 04:48	33213-65-9	
Endosulfan sulfate	ND	ug/L	0.050	1	12/24/14 11:26	12/30/14 04:48	1031-07-8	
Endrin	ND	ug/L	0.050	1	12/24/14 11:26	12/30/14 04:48	72-20-8	
Endrin aldehyde	ND	ug/L	0.050	1	12/24/14 11:26	12/30/14 04:48	7421-93-4	
Endrin ketone	ND	ug/L	0.050	1	12/24/14 11:26	12/30/14 04:48	53494-70-5	
Heptachlor	ND	ug/L	0.050	1	12/24/14 11:26	12/30/14 04:48	76-44-8	
Heptachlor epoxide	ND	ug/L	0.050	1	12/24/14 11:26	12/30/14 04:48	1024-57-3	
Hexachlorobenzene	ND	ug/L	0.050	1	12/24/14 11:26	12/30/14 04:48	118-74-1	
Methoxychlor	ND	ug/L	0.15	1	12/24/14 11:26	12/30/14 04:48	72-43-5	
Mirex	ND	ug/L	0.15	1	12/24/14 11:26	12/30/14 04:48	2385-85-5	
Toxaphene	ND	ug/L	0.20	1	12/24/14 11:26	12/30/14 04:48	8001-35-2	
Surrogates								
Tetrachloro-m-xylene (S)	57	%	20-130	1	12/24/14 11:26	12/30/14 04:48	877-09-8	
Decachlorobiphenyl (S)	77	%	20-130	1	12/24/14 11:26	12/30/14 04:48	2051-24-3	
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		12/31/14 12:20	67-64-1	
Benzene	ND	ug/L	1.0	1		12/31/14 12:20	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		12/31/14 12:20	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		12/31/14 12:20	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		12/31/14 12:20	75-27-4	
Bromoform	ND	ug/L	1.0	1		12/31/14 12:20	75-25-2	
Bromomethane	ND	ug/L	2.0	1		12/31/14 12:20	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		12/31/14 12:20	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		12/31/14 12:20	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		12/31/14 12:20	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/31/14 12:20	75-00-3	
Chloroform	ND	ug/L	1.0	1		12/31/14 12:20	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/31/14 12:20	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		12/31/14 12:20	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		12/31/14 12:20	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		12/31/14 12:20	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		12/31/14 12:20	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		12/31/14 12:20	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		12/31/14 12:20	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		12/31/14 12:20	95-50-1	

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ANALYTICAL RESULTS

Project: LEGION INDUSTRIES 6121-090444
Pace Project No.: 92230609

Sample: MW-7 **Lab ID: 92230609004** Collected: 12/18/14 11:30 Received: 12/20/14 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
1,3-Dichlorobenzene	ND	ug/L	1.0	1		12/31/14 12:20	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		12/31/14 12:20	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		12/31/14 12:20	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		12/31/14 12:20	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		12/31/14 12:20	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		12/31/14 12:20	75-35-4	
cis-1,2-Dichloroethene	**11.5**	ug/L	1.0	1		12/31/14 12:20	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/31/14 12:20	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		12/31/14 12:20	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		12/31/14 12:20	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		12/31/14 12:20	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		12/31/14 12:20	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		12/31/14 12:20	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		12/31/14 12:20	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		12/31/14 12:20	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		12/31/14 12:20	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		12/31/14 12:20	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		12/31/14 12:20	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		12/31/14 12:20	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		12/31/14 12:20	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		12/31/14 12:20	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		12/31/14 12:20	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		12/31/14 12:20	91-20-3	
Styrene	ND	ug/L	1.0	1		12/31/14 12:20	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		12/31/14 12:20	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		12/31/14 12:20	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		12/31/14 12:20	127-18-4	
Toluene	ND	ug/L	1.0	1		12/31/14 12:20	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		12/31/14 12:20	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		12/31/14 12:20	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		12/31/14 12:20	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		12/31/14 12:20	79-00-5	
Trichloroethene	**10.4**	ug/L	1.0	1		12/31/14 12:20	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/31/14 12:20	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		12/31/14 12:20	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		12/31/14 12:20	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		12/31/14 12:20	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		12/31/14 12:20	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		12/31/14 12:20	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		12/31/14 12:20	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	102	%	70-130	1		12/31/14 12:20	460-00-4	
1,2-Dichloroethane-d4 (S)	121	%	70-130	1		12/31/14 12:20	17060-07-0	
Toluene-d8 (S)	100	%	70-130	1		12/31/14 12:20	2037-26-5	

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ANALYTICAL RESULTS

Project: LEGION INDUSTRIES 6121-090444
Pace Project No.: 92230609

Sample: MW-10 **Lab ID: 92230609005** Collected: 12/18/14 12:30 Received: 12/20/14 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8081 Organochlorine Pesticides	Analytical Method: EPA 8081 Preparation Method: EPA 3510							
Aldrin	ND	ug/L	0.10	1	12/24/14 11:26	12/30/14 05:06	309-00-2	
alpha-BHC	ND	ug/L	0.10	1	12/24/14 11:26	12/30/14 05:06	319-84-6	
beta-BHC	ND	ug/L	0.10	1	12/24/14 11:26	12/30/14 05:06	319-85-7	
delta-BHC	ND	ug/L	0.10	1	12/24/14 11:26	12/30/14 05:06	319-86-8	
gamma-BHC (Lindane)	ND	ug/L	0.10	1	12/24/14 11:26	12/30/14 05:06	58-89-9	
Chlordane (Technical)	ND	ug/L	0.40	1	12/24/14 11:26	12/30/14 05:06	57-74-9	
4,4'-DDD	ND	ug/L	0.10	1	12/24/14 11:26	12/30/14 05:06	72-54-8	
4,4'-DDE	ND	ug/L	0.10	1	12/24/14 11:26	12/30/14 05:06	72-55-9	
4,4'-DDT	ND	ug/L	0.10	1	12/24/14 11:26	12/30/14 05:06	50-29-3	
Dieldrin	ND	ug/L	0.10	1	12/24/14 11:26	12/30/14 05:06	60-57-1	
Endosulfan I	ND	ug/L	0.10	1	12/24/14 11:26	12/30/14 05:06	959-98-8	
Endosulfan II	ND	ug/L	0.10	1	12/24/14 11:26	12/30/14 05:06	33213-65-9	
Endosulfan sulfate	ND	ug/L	0.10	1	12/24/14 11:26	12/30/14 05:06	1031-07-8	
Endrin	ND	ug/L	0.10	1	12/24/14 11:26	12/30/14 05:06	72-20-8	
Endrin aldehyde	ND	ug/L	0.10	1	12/24/14 11:26	12/30/14 05:06	7421-93-4	
Endrin ketone	ND	ug/L	0.10	1	12/24/14 11:26	12/30/14 05:06	53494-70-5	
Heptachlor	ND	ug/L	0.10	1	12/24/14 11:26	12/30/14 05:06	76-44-8	
Heptachlor epoxide	ND	ug/L	0.10	1	12/24/14 11:26	12/30/14 05:06	1024-57-3	
Hexachlorobenzene	ND	ug/L	0.10	1	12/24/14 11:26	12/30/14 05:06	118-74-1	
Methoxychlor	ND	ug/L	0.30	1	12/24/14 11:26	12/30/14 05:06	72-43-5	
Mirex	ND	ug/L	0.30	1	12/24/14 11:26	12/30/14 05:06	2385-85-5	
Toxaphene	ND	ug/L	0.40	1	12/24/14 11:26	12/30/14 05:06	8001-35-2	
Surrogates								
Tetrachloro-m-xylene (S)	77	%	20-130	1	12/24/14 11:26	12/30/14 05:06	877-09-8	
Decachlorobiphenyl (S)	59	%	20-130	1	12/24/14 11:26	12/30/14 05:06	2051-24-3	
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		12/31/14 12:37	67-64-1	
Benzene	ND	ug/L	1.0	1		12/31/14 12:37	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		12/31/14 12:37	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		12/31/14 12:37	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		12/31/14 12:37	75-27-4	
Bromoform	ND	ug/L	1.0	1		12/31/14 12:37	75-25-2	
Bromomethane	ND	ug/L	2.0	1		12/31/14 12:37	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		12/31/14 12:37	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		12/31/14 12:37	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		12/31/14 12:37	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/31/14 12:37	75-00-3	
Chloroform	ND	ug/L	1.0	1		12/31/14 12:37	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/31/14 12:37	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		12/31/14 12:37	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		12/31/14 12:37	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		12/31/14 12:37	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		12/31/14 12:37	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		12/31/14 12:37	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		12/31/14 12:37	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		12/31/14 12:37	95-50-1	

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ANALYTICAL RESULTS

Project: LEGION INDUSTRIES 6121-090444
Pace Project No.: 92230609

Sample: MW-10 **Lab ID: 92230609005** Collected: 12/18/14 12:30 Received: 12/20/14 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
1,3-Dichlorobenzene	ND	ug/L	1.0	1		12/31/14 12:37	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		12/31/14 12:37	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		12/31/14 12:37	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		12/31/14 12:37	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		12/31/14 12:37	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		12/31/14 12:37	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		12/31/14 12:37	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/31/14 12:37	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		12/31/14 12:37	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		12/31/14 12:37	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		12/31/14 12:37	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		12/31/14 12:37	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		12/31/14 12:37	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		12/31/14 12:37	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		12/31/14 12:37	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		12/31/14 12:37	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		12/31/14 12:37	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		12/31/14 12:37	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		12/31/14 12:37	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		12/31/14 12:37	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		12/31/14 12:37	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		12/31/14 12:37	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		12/31/14 12:37	91-20-3	
Styrene	ND	ug/L	1.0	1		12/31/14 12:37	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		12/31/14 12:37	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		12/31/14 12:37	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		12/31/14 12:37	127-18-4	
Toluene	ND	ug/L	1.0	1		12/31/14 12:37	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		12/31/14 12:37	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		12/31/14 12:37	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		12/31/14 12:37	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		12/31/14 12:37	79-00-5	
Trichloroethene	**1.0**	ug/L	1.0	1		12/31/14 12:37	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/31/14 12:37	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		12/31/14 12:37	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		12/31/14 12:37	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		12/31/14 12:37	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		12/31/14 12:37	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		12/31/14 12:37	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		12/31/14 12:37	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	102	%	70-130	1		12/31/14 12:37	460-00-4	
1,2-Dichloroethane-d4 (S)	120	%	70-130	1		12/31/14 12:37	17060-07-0	
Toluene-d8 (S)	99	%	70-130	1		12/31/14 12:37	2037-26-5	

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ANALYTICAL RESULTS

Project: LEGION INDUSTRIES 6121-090444
Pace Project No.: 92230609

Sample: MW-11 **Lab ID: 92230609006** Collected: 12/18/14 13:45 Received: 12/20/14 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8081 Organochlorine Pesticides	Analytical Method: EPA 8081 Preparation Method: EPA 3510							
Aldrin	ND	ug/L	0.20	4	12/24/14 11:26	12/31/14 18:46	309-00-2	
alpha-BHC	**1.0**	ug/L	0.20	4	12/24/14 11:26	12/31/14 18:46	319-84-6	
beta-BHC	**0.52**	ug/L	0.20	4	12/24/14 11:26	12/31/14 18:46	319-85-7	
delta-BHC	**1.2**	ug/L	0.20	4	12/24/14 11:26	12/31/14 18:46	319-86-8	
gamma-BHC (Lindane)	**0.42**	ug/L	0.20	4	12/24/14 11:26	12/31/14 18:46	58-89-9	
Chlordane (Technical)	ND	ug/L	0.80	4	12/24/14 11:26	12/31/14 18:46	57-74-9	
4,4'-DDD	**0.54**	ug/L	0.20	4	12/24/14 11:26	12/31/14 18:46	72-54-8	
4,4'-DDE	ND	ug/L	0.20	4	12/24/14 11:26	12/31/14 18:46	72-55-9	
4,4'-DDT	ND	ug/L	0.20	4	12/24/14 11:26	12/31/14 18:46	50-29-3	
Dieldrin	**0.72**	ug/L	0.20	4	12/24/14 11:26	12/31/14 18:46	60-57-1	
Endosulfan I	ND	ug/L	0.20	4	12/24/14 11:26	12/31/14 18:46	959-98-8	
Endosulfan II	ND	ug/L	0.20	4	12/24/14 11:26	12/31/14 18:46	33213-65-9	
Endosulfan sulfate	ND	ug/L	0.20	4	12/24/14 11:26	12/31/14 18:46	1031-07-8	
Endrin	ND	ug/L	0.20	4	12/24/14 11:26	12/31/14 18:46	72-20-8	
Endrin aldehyde	ND	ug/L	0.20	4	12/24/14 11:26	12/31/14 18:46	7421-93-4	
Endrin ketone	**2.4**	ug/L	0.20	4	12/24/14 11:26	12/31/14 18:46	53494-70-5	
Heptachlor	ND	ug/L	0.20	4	12/24/14 11:26	12/31/14 18:46	76-44-8	
Heptachlor epoxide	ND	ug/L	0.20	4	12/24/14 11:26	12/31/14 18:46	1024-57-3	
Hexachlorobenzene	ND	ug/L	0.20	4	12/24/14 11:26	12/31/14 18:46	118-74-1	
Methoxychlor	ND	ug/L	0.60	4	12/24/14 11:26	12/31/14 18:46	72-43-5	
Mirex	ND	ug/L	0.60	4	12/24/14 11:26	12/31/14 18:46	2385-85-5	
Toxaphene	ND	ug/L	0.80	4	12/24/14 11:26	12/31/14 18:46	8001-35-2	
Surrogates								
Tetrachloro-m-xylene (S)	59	%	20-130	4	12/24/14 11:26	12/31/14 18:46	877-09-8	D3
Decachlorobiphenyl (S)	91	%	20-130	4	12/24/14 11:26	12/31/14 18:46	2051-24-3	
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		12/31/14 12:54	67-64-1	
Benzene	ND	ug/L	1.0	1		12/31/14 12:54	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		12/31/14 12:54	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		12/31/14 12:54	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		12/31/14 12:54	75-27-4	
Bromoform	ND	ug/L	1.0	1		12/31/14 12:54	75-25-2	
Bromomethane	ND	ug/L	2.0	1		12/31/14 12:54	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		12/31/14 12:54	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		12/31/14 12:54	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		12/31/14 12:54	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/31/14 12:54	75-00-3	
Chloroform	ND	ug/L	1.0	1		12/31/14 12:54	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/31/14 12:54	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		12/31/14 12:54	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		12/31/14 12:54	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		12/31/14 12:54	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		12/31/14 12:54	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		12/31/14 12:54	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		12/31/14 12:54	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		12/31/14 12:54	95-50-1	

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ANALYTICAL RESULTS

Project: LEGION INDUSTRIES 6121-090444
Pace Project No.: 92230609

Sample: MW-11 **Lab ID: 92230609006** Collected: 12/18/14 13:45 Received: 12/20/14 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
1,3-Dichlorobenzene	ND	ug/L	1.0	1		12/31/14 12:54	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		12/31/14 12:54	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		12/31/14 12:54	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		12/31/14 12:54	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		12/31/14 12:54	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		12/31/14 12:54	75-35-4	
cis-1,2-Dichloroethene	**6.2**	ug/L	1.0	1		12/31/14 12:54	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/31/14 12:54	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		12/31/14 12:54	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		12/31/14 12:54	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		12/31/14 12:54	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		12/31/14 12:54	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		12/31/14 12:54	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		12/31/14 12:54	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		12/31/14 12:54	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		12/31/14 12:54	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		12/31/14 12:54	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		12/31/14 12:54	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		12/31/14 12:54	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		12/31/14 12:54	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		12/31/14 12:54	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		12/31/14 12:54	1634-04-4	
Naphthalene	**3.4**	ug/L	1.0	1		12/31/14 12:54	91-20-3	
Styrene	ND	ug/L	1.0	1		12/31/14 12:54	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		12/31/14 12:54	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		12/31/14 12:54	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		12/31/14 12:54	127-18-4	
Toluene	ND	ug/L	1.0	1		12/31/14 12:54	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		12/31/14 12:54	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		12/31/14 12:54	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		12/31/14 12:54	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		12/31/14 12:54	79-00-5	
Trichloroethene	**5.7**	ug/L	1.0	1		12/31/14 12:54	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/31/14 12:54	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		12/31/14 12:54	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		12/31/14 12:54	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		12/31/14 12:54	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		12/31/14 12:54	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		12/31/14 12:54	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		12/31/14 12:54	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	102	%	70-130	1		12/31/14 12:54	460-00-4	
1,2-Dichloroethane-d4 (S)	121	%	70-130	1		12/31/14 12:54	17060-07-0	
Toluene-d8 (S)	100	%	70-130	1		12/31/14 12:54	2037-26-5	

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ANALYTICAL RESULTS

Project: LEGION INDUSTRIES 6121-090444
Pace Project No.: 92230609

Sample: MW-19 **Lab ID: 92230609007** Collected: 12/18/14 14:45 Received: 12/20/14 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8081 Organochlorine Pesticides	Analytical Method: EPA 8081 Preparation Method: EPA 3510							
Aldrin	ND	ug/L	1.0	20	12/24/14 11:26	12/31/14 19:04	309-00-2	
alpha-BHC	**4.0**	ug/L	1.0	20	12/24/14 11:26	12/31/14 19:04	319-84-6	
beta-BHC	**4.9**	ug/L	1.0	20	12/24/14 11:26	12/31/14 19:04	319-85-7	
delta-BHC	**8.3**	ug/L	1.0	20	12/24/14 11:26	12/31/14 19:04	319-86-8	
gamma-BHC (Lindane)	**4.4**	ug/L	1.0	20	12/24/14 11:26	12/31/14 19:04	58-89-9	
Chlordane (Technical)	ND	ug/L	4.0	20	12/24/14 11:26	12/31/14 19:04	57-74-9	
4,4'-DDD	**7.4**	ug/L	1.0	20	12/24/14 11:26	12/31/14 19:04	72-54-8	
4,4'-DDE	ND	ug/L	1.0	20	12/24/14 11:26	12/31/14 19:04	72-55-9	
4,4'-DDT	**1.6**	ug/L	1.0	20	12/24/14 11:26	12/31/14 19:04	50-29-3	
Dieldrin	**4.4**	ug/L	1.0	20	12/24/14 11:26	12/31/14 19:04	60-57-1	
Endosulfan I	ND	ug/L	1.0	20	12/24/14 11:26	12/31/14 19:04	959-98-8	
Endosulfan II	ND	ug/L	1.0	20	12/24/14 11:26	12/31/14 19:04	33213-65-9	
Endosulfan sulfate	ND	ug/L	1.0	20	12/24/14 11:26	12/31/14 19:04	1031-07-8	
Endrin	**2.6**	ug/L	1.0	20	12/24/14 11:26	12/31/14 19:04	72-20-8	
Endrin aldehyde	ND	ug/L	1.0	20	12/24/14 11:26	12/31/14 19:04	7421-93-4	
Endrin ketone	**5.3**	ug/L	1.0	20	12/24/14 11:26	12/31/14 19:04	53494-70-5	
Heptachlor	ND	ug/L	1.0	20	12/24/14 11:26	12/31/14 19:04	76-44-8	
Heptachlor epoxide	ND	ug/L	1.0	20	12/24/14 11:26	12/31/14 19:04	1024-57-3	
Hexachlorobenzene	ND	ug/L	1.0	20	12/24/14 11:26	12/31/14 19:04	118-74-1	
Methoxychlor	ND	ug/L	3.0	20	12/24/14 11:26	12/31/14 19:04	72-43-5	
Mirex	ND	ug/L	3.0	20	12/24/14 11:26	12/31/14 19:04	2385-85-5	
Toxaphene	ND	ug/L	4.0	20	12/24/14 11:26	12/31/14 19:04	8001-35-2	
Surrogates								
Tetrachloro-m-xylene (S)	0	%	20-130	20	12/24/14 11:26	12/31/14 19:04	877-09-8	D3,S4
Decachlorobiphenyl (S)	0	%	20-130	20	12/24/14 11:26	12/31/14 19:04	2051-24-3	
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	125	5		12/31/14 16:53	67-64-1	
Benzene	**6.3**	ug/L	5.0	5		12/31/14 16:53	71-43-2	
Bromobenzene	ND	ug/L	5.0	5		12/31/14 16:53	108-86-1	
Bromochloromethane	ND	ug/L	5.0	5		12/31/14 16:53	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	5		12/31/14 16:53	75-27-4	
Bromoform	ND	ug/L	5.0	5		12/31/14 16:53	75-25-2	
Bromomethane	ND	ug/L	10.0	5		12/31/14 16:53	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	5		12/31/14 16:53	78-93-3	
Carbon tetrachloride	ND	ug/L	5.0	5		12/31/14 16:53	56-23-5	
Chlorobenzene	**14.1**	ug/L	5.0	5		12/31/14 16:53	108-90-7	
Chloroethane	ND	ug/L	5.0	5		12/31/14 16:53	75-00-3	
Chloroform	ND	ug/L	5.0	5		12/31/14 16:53	67-66-3	
Chloromethane	ND	ug/L	5.0	5		12/31/14 16:53	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	5		12/31/14 16:53	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	5		12/31/14 16:53	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	10.0	5		12/31/14 16:53	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	5		12/31/14 16:53	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	5		12/31/14 16:53	106-93-4	
Dibromomethane	ND	ug/L	5.0	5		12/31/14 16:53	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	5		12/31/14 16:53	95-50-1	

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ANALYTICAL RESULTS

Project: LEGION INDUSTRIES 6121-090444
Pace Project No.: 92230609

Sample: MW-19 **Lab ID: 92230609007** Collected: 12/18/14 14:45 Received: 12/20/14 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
1,3-Dichlorobenzene	ND	ug/L	5.0	5		12/31/14 16:53	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	5		12/31/14 16:53	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	5		12/31/14 16:53	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	5		12/31/14 16:53	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	5		12/31/14 16:53	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	5		12/31/14 16:53	75-35-4	
cis-1,2-Dichloroethene	**205**	ug/L	5.0	5		12/31/14 16:53	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	5		12/31/14 16:53	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	5		12/31/14 16:53	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	5		12/31/14 16:53	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	5		12/31/14 16:53	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	5		12/31/14 16:53	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	5		12/31/14 16:53	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	5		12/31/14 16:53	10061-02-6	
Diisopropyl ether	ND	ug/L	5.0	5		12/31/14 16:53	108-20-3	
Ethylbenzene	**2330**	ug/L	25.0	25		01/02/15 13:23	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	5		12/31/14 16:53	87-68-3	
2-Hexanone	ND	ug/L	25.0	5		12/31/14 16:53	591-78-6	
p-Isopropyltoluene	**6.2**	ug/L	5.0	5		12/31/14 16:53	99-87-6	
Methylene Chloride	ND	ug/L	10.0	5		12/31/14 16:53	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	5		12/31/14 16:53	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	5.0	5		12/31/14 16:53	1634-04-4	
Naphthalene	**63.8**	ug/L	5.0	5		12/31/14 16:53	91-20-3	
Styrene	ND	ug/L	5.0	5		12/31/14 16:53	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	5		12/31/14 16:53	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	5		12/31/14 16:53	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	5		12/31/14 16:53	127-18-4	
Toluene	**50.6**	ug/L	5.0	5		12/31/14 16:53	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	5		12/31/14 16:53	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	5		12/31/14 16:53	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	5		12/31/14 16:53	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	5		12/31/14 16:53	79-00-5	
Trichloroethene	ND	ug/L	5.0	5		12/31/14 16:53	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	5		12/31/14 16:53	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	5		12/31/14 16:53	96-18-4	
Vinyl acetate	ND	ug/L	10.0	5		12/31/14 16:53	108-05-4	
Vinyl chloride	**113**	ug/L	5.0	5		12/31/14 16:53	75-01-4	
Xylene (Total)	**10900**	ug/L	50.0	25		01/02/15 13:23	1330-20-7	
m&p-Xylene	**8520**	ug/L	50.0	25		01/02/15 13:23	179601-23-1	
o-Xylene	**2350**	ug/L	25.0	25		01/02/15 13:23	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	93	%	70-130	5		12/31/14 16:53	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130	5		12/31/14 16:53	17060-07-0	
Toluene-d8 (S)	103	%	70-130	5		12/31/14 16:53	2037-26-5	

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ANALYTICAL RESULTS

Project: LEGION INDUSTRIES 6121-090444
Pace Project No.: 92230609

Sample: MW-14 **Lab ID: 92230609008** Collected: 12/18/14 15:50 Received: 12/20/14 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8081 Organochlorine Pesticides	Analytical Method: EPA 8081 Preparation Method: EPA 3510							
Aldrin	ND	ug/L	0.050	1	12/24/14 11:26	12/30/14 06:33	309-00-2	
alpha-BHC	ND	ug/L	0.050	1	12/24/14 11:26	12/30/14 06:33	319-84-6	
beta-BHC	ND	ug/L	0.050	1	12/24/14 11:26	12/30/14 06:33	319-85-7	
delta-BHC	ND	ug/L	0.050	1	12/24/14 11:26	12/30/14 06:33	319-86-8	
gamma-BHC (Lindane)	ND	ug/L	0.050	1	12/24/14 11:26	12/30/14 06:33	58-89-9	
Chlordane (Technical)	ND	ug/L	0.20	1	12/24/14 11:26	12/30/14 06:33	57-74-9	
4,4'-DDD	ND	ug/L	0.050	1	12/24/14 11:26	12/30/14 06:33	72-54-8	
4,4'-DDE	ND	ug/L	0.050	1	12/24/14 11:26	12/30/14 06:33	72-55-9	
4,4'-DDT	ND	ug/L	0.050	1	12/24/14 11:26	12/30/14 06:33	50-29-3	
Dieldrin	ND	ug/L	0.050	1	12/24/14 11:26	12/30/14 06:33	60-57-1	
Endosulfan I	ND	ug/L	0.050	1	12/24/14 11:26	12/30/14 06:33	959-98-8	
Endosulfan II	ND	ug/L	0.050	1	12/24/14 11:26	12/30/14 06:33	33213-65-9	
Endosulfan sulfate	ND	ug/L	0.050	1	12/24/14 11:26	12/30/14 06:33	1031-07-8	
Endrin	ND	ug/L	0.050	1	12/24/14 11:26	12/30/14 06:33	72-20-8	
Endrin aldehyde	ND	ug/L	0.050	1	12/24/14 11:26	12/30/14 06:33	7421-93-4	
Endrin ketone	ND	ug/L	0.050	1	12/24/14 11:26	12/30/14 06:33	53494-70-5	
Heptachlor	ND	ug/L	0.050	1	12/24/14 11:26	12/30/14 06:33	76-44-8	
Heptachlor epoxide	ND	ug/L	0.050	1	12/24/14 11:26	12/30/14 06:33	1024-57-3	
Hexachlorobenzene	ND	ug/L	0.050	1	12/24/14 11:26	12/30/14 06:33	118-74-1	
Methoxychlor	ND	ug/L	0.15	1	12/24/14 11:26	12/30/14 06:33	72-43-5	
Mirex	ND	ug/L	0.15	1	12/24/14 11:26	12/30/14 06:33	2385-85-5	
Toxaphene	ND	ug/L	0.20	1	12/24/14 11:26	12/30/14 06:33	8001-35-2	
Surrogates								
Tetrachloro-m-xylene (S)	44	%	20-130	1	12/24/14 11:26	12/30/14 06:33	877-09-8	
Decachlorobiphenyl (S)	69	%	20-130	1	12/24/14 11:26	12/30/14 06:33	2051-24-3	
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		12/31/14 13:32	67-64-1	
Benzene	ND	ug/L	1.0	1		12/31/14 13:32	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		12/31/14 13:32	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		12/31/14 13:32	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		12/31/14 13:32	75-27-4	
Bromoform	ND	ug/L	1.0	1		12/31/14 13:32	75-25-2	
Bromomethane	ND	ug/L	2.0	1		12/31/14 13:32	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		12/31/14 13:32	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		12/31/14 13:32	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		12/31/14 13:32	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/31/14 13:32	75-00-3	
Chloroform	ND	ug/L	1.0	1		12/31/14 13:32	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/31/14 13:32	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		12/31/14 13:32	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		12/31/14 13:32	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		12/31/14 13:32	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		12/31/14 13:32	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		12/31/14 13:32	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		12/31/14 13:32	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		12/31/14 13:32	95-50-1	

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ANALYTICAL RESULTS

Project: LEGION INDUSTRIES 6121-090444
Pace Project No.: 92230609

Sample: MW-14 **Lab ID: 92230609008** Collected: 12/18/14 15:50 Received: 12/20/14 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
1,3-Dichlorobenzene	ND	ug/L	1.0	1		12/31/14 13:32	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		12/31/14 13:32	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		12/31/14 13:32	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		12/31/14 13:32	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		12/31/14 13:32	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		12/31/14 13:32	75-35-4	
cis-1,2-Dichloroethene	**3.0**	ug/L	1.0	1		12/31/14 13:32	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/31/14 13:32	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		12/31/14 13:32	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		12/31/14 13:32	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		12/31/14 13:32	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		12/31/14 13:32	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		12/31/14 13:32	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		12/31/14 13:32	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		12/31/14 13:32	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		12/31/14 13:32	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		12/31/14 13:32	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		12/31/14 13:32	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		12/31/14 13:32	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		12/31/14 13:32	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		12/31/14 13:32	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		12/31/14 13:32	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		12/31/14 13:32	91-20-3	
Styrene	ND	ug/L	1.0	1		12/31/14 13:32	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		12/31/14 13:32	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		12/31/14 13:32	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		12/31/14 13:32	127-18-4	
Toluene	ND	ug/L	1.0	1		12/31/14 13:32	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		12/31/14 13:32	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		12/31/14 13:32	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		12/31/14 13:32	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		12/31/14 13:32	79-00-5	
Trichloroethene	**4.0**	ug/L	1.0	1		12/31/14 13:32	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/31/14 13:32	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		12/31/14 13:32	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		12/31/14 13:32	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		12/31/14 13:32	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		12/31/14 13:32	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		12/31/14 13:32	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		12/31/14 13:32	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	92	%	70-130	1		12/31/14 13:32	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	70-130	1		12/31/14 13:32	17060-07-0	
Toluene-d8 (S)	99	%	70-130	1		12/31/14 13:32	2037-26-5	

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ANALYTICAL RESULTS

Project: LEGION INDUSTRIES 6121-090444
Pace Project No.: 92230609

Sample: DUP-2 **Lab ID: 92230609009** Collected: 12/18/14 00:00 Received: 12/20/14 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8081 Organochlorine Pesticides	Analytical Method: EPA 8081 Preparation Method: EPA 3510							
Aldrin	ND	ug/L	0.050	1	12/24/14 11:26	12/30/14 06:51	309-00-2	
alpha-BHC	ND	ug/L	0.050	1	12/24/14 11:26	12/30/14 06:51	319-84-6	
beta-BHC	ND	ug/L	0.050	1	12/24/14 11:26	12/30/14 06:51	319-85-7	
delta-BHC	ND	ug/L	0.050	1	12/24/14 11:26	12/30/14 06:51	319-86-8	
gamma-BHC (Lindane)	ND	ug/L	0.050	1	12/24/14 11:26	12/30/14 06:51	58-89-9	
Chlordane (Technical)	ND	ug/L	0.20	1	12/24/14 11:26	12/30/14 06:51	57-74-9	
4,4'-DDD	ND	ug/L	0.050	1	12/24/14 11:26	12/30/14 06:51	72-54-8	
4,4'-DDE	ND	ug/L	0.050	1	12/24/14 11:26	12/30/14 06:51	72-55-9	
4,4'-DDT	ND	ug/L	0.050	1	12/24/14 11:26	12/30/14 06:51	50-29-3	
Dieldrin	ND	ug/L	0.050	1	12/24/14 11:26	12/30/14 06:51	60-57-1	
Endosulfan I	ND	ug/L	0.050	1	12/24/14 11:26	12/30/14 06:51	959-98-8	
Endosulfan II	ND	ug/L	0.050	1	12/24/14 11:26	12/30/14 06:51	33213-65-9	
Endosulfan sulfate	ND	ug/L	0.050	1	12/24/14 11:26	12/30/14 06:51	1031-07-8	
Endrin	ND	ug/L	0.050	1	12/24/14 11:26	12/30/14 06:51	72-20-8	
Endrin aldehyde	ND	ug/L	0.050	1	12/24/14 11:26	12/30/14 06:51	7421-93-4	
Endrin ketone	ND	ug/L	0.050	1	12/24/14 11:26	12/30/14 06:51	53494-70-5	
Heptachlor	ND	ug/L	0.050	1	12/24/14 11:26	12/30/14 06:51	76-44-8	
Heptachlor epoxide	ND	ug/L	0.050	1	12/24/14 11:26	12/30/14 06:51	1024-57-3	
Hexachlorobenzene	ND	ug/L	0.050	1	12/24/14 11:26	12/30/14 06:51	118-74-1	
Methoxychlor	ND	ug/L	0.15	1	12/24/14 11:26	12/30/14 06:51	72-43-5	
Mirex	ND	ug/L	0.15	1	12/24/14 11:26	12/30/14 06:51	2385-85-5	
Toxaphene	ND	ug/L	0.20	1	12/24/14 11:26	12/30/14 06:51	8001-35-2	
Surrogates								
Tetrachloro-m-xylene (S)	65	%	20-130	1	12/24/14 11:26	12/30/14 06:51	877-09-8	
Decachlorobiphenyl (S)	74	%	20-130	1	12/24/14 11:26	12/30/14 06:51	2051-24-3	
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		12/31/14 15:46	67-64-1	
Benzene	ND	ug/L	1.0	1		12/31/14 15:46	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		12/31/14 15:46	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		12/31/14 15:46	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		12/31/14 15:46	75-27-4	
Bromoform	ND	ug/L	1.0	1		12/31/14 15:46	75-25-2	
Bromomethane	ND	ug/L	2.0	1		12/31/14 15:46	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		12/31/14 15:46	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		12/31/14 15:46	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		12/31/14 15:46	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/31/14 15:46	75-00-3	
Chloroform	ND	ug/L	1.0	1		12/31/14 15:46	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/31/14 15:46	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		12/31/14 15:46	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		12/31/14 15:46	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		12/31/14 15:46	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		12/31/14 15:46	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		12/31/14 15:46	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		12/31/14 15:46	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		12/31/14 15:46	95-50-1	

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ANALYTICAL RESULTS

Project: LEGION INDUSTRIES 6121-090444
Pace Project No.: 92230609

Sample: DUP-2 **Lab ID: 92230609009** Collected: 12/18/14 00:00 Received: 12/20/14 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
1,3-Dichlorobenzene	ND	ug/L	1.0	1		12/31/14 15:46	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		12/31/14 15:46	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		12/31/14 15:46	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		12/31/14 15:46	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		12/31/14 15:46	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		12/31/14 15:46	75-35-4	
cis-1,2-Dichloroethene	**2.1**	ug/L	1.0	1		12/31/14 15:46	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/31/14 15:46	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		12/31/14 15:46	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		12/31/14 15:46	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		12/31/14 15:46	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		12/31/14 15:46	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		12/31/14 15:46	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		12/31/14 15:46	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		12/31/14 15:46	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		12/31/14 15:46	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		12/31/14 15:46	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		12/31/14 15:46	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		12/31/14 15:46	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		12/31/14 15:46	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		12/31/14 15:46	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		12/31/14 15:46	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		12/31/14 15:46	91-20-3	
Styrene	ND	ug/L	1.0	1		12/31/14 15:46	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		12/31/14 15:46	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		12/31/14 15:46	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		12/31/14 15:46	127-18-4	
Toluene	ND	ug/L	1.0	1		12/31/14 15:46	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		12/31/14 15:46	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		12/31/14 15:46	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		12/31/14 15:46	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		12/31/14 15:46	79-00-5	
Trichloroethene	**2.8**	ug/L	1.0	1		12/31/14 15:46	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/31/14 15:46	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		12/31/14 15:46	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		12/31/14 15:46	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		12/31/14 15:46	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		12/31/14 15:46	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		12/31/14 15:46	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		12/31/14 15:46	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	91	%	70-130	1		12/31/14 15:46	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	70-130	1		12/31/14 15:46	17060-07-0	
Toluene-d8 (S)	99	%	70-130	1		12/31/14 15:46	2037-26-5	

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ANALYTICAL RESULTS

Project: LEGION INDUSTRIES 6121-090444
Pace Project No.: 92230609

Sample: TRIP BLANK **Lab ID: 92230609010** Collected: 12/18/14 00:00 Received: 12/20/14 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		12/31/14 08:47	67-64-1	
Benzene	ND	ug/L	1.0	1		12/31/14 08:47	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		12/31/14 08:47	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		12/31/14 08:47	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		12/31/14 08:47	75-27-4	
Bromoform	ND	ug/L	1.0	1		12/31/14 08:47	75-25-2	
Bromomethane	ND	ug/L	2.0	1		12/31/14 08:47	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		12/31/14 08:47	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		12/31/14 08:47	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		12/31/14 08:47	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/31/14 08:47	75-00-3	
Chloroform	ND	ug/L	1.0	1		12/31/14 08:47	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/31/14 08:47	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		12/31/14 08:47	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		12/31/14 08:47	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		12/31/14 08:47	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		12/31/14 08:47	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		12/31/14 08:47	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		12/31/14 08:47	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		12/31/14 08:47	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		12/31/14 08:47	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		12/31/14 08:47	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		12/31/14 08:47	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		12/31/14 08:47	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		12/31/14 08:47	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		12/31/14 08:47	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		12/31/14 08:47	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/31/14 08:47	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		12/31/14 08:47	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		12/31/14 08:47	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		12/31/14 08:47	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		12/31/14 08:47	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		12/31/14 08:47	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		12/31/14 08:47	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		12/31/14 08:47	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		12/31/14 08:47	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		12/31/14 08:47	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		12/31/14 08:47	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		12/31/14 08:47	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		12/31/14 08:47	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		12/31/14 08:47	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		12/31/14 08:47	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		12/31/14 08:47	91-20-3	
Styrene	ND	ug/L	1.0	1		12/31/14 08:47	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		12/31/14 08:47	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		12/31/14 08:47	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		12/31/14 08:47	127-18-4	

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ANALYTICAL RESULTS

Project: LEGION INDUSTRIES 6121-090444
Pace Project No.: 92230609

Sample: TRIP BLANK **Lab ID: 92230609010** Collected: 12/18/14 00:00 Received: 12/20/14 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Toluene	ND	ug/L	1.0	1		12/31/14 08:47	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		12/31/14 08:47	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		12/31/14 08:47	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		12/31/14 08:47	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		12/31/14 08:47	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		12/31/14 08:47	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/31/14 08:47	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		12/31/14 08:47	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		12/31/14 08:47	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		12/31/14 08:47	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		12/31/14 08:47	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		12/31/14 08:47	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		12/31/14 08:47	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	99	%	70-130	1		12/31/14 08:47	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130	1		12/31/14 08:47	17060-07-0	
Toluene-d8 (S)	97	%	70-130	1		12/31/14 08:47	2037-26-5	

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QUALITY CONTROL DATA

Project: LEGION INDUSTRIES 6121-090444
Pace Project No.: 92230609

QC Batch: MSV/29859 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92230609001, 92230609002, 92230609003, 92230609004, 92230609005, 92230609006

METHOD BLANK: 1361201 Matrix: Water
Associated Lab Samples: 92230609001, 92230609002, 92230609003, 92230609004, 92230609005, 92230609006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	12/31/14 04:39	
1,1,1-Trichloroethane	ug/L	ND	1.0	12/31/14 04:39	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	12/31/14 04:39	
1,1,2-Trichloroethane	ug/L	ND	1.0	12/31/14 04:39	
1,1-Dichloroethane	ug/L	ND	1.0	12/31/14 04:39	
1,1-Dichloroethene	ug/L	ND	1.0	12/31/14 04:39	
1,1-Dichloropropene	ug/L	ND	1.0	12/31/14 04:39	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	12/31/14 04:39	
1,2,3-Trichloropropane	ug/L	ND	1.0	12/31/14 04:39	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	12/31/14 04:39	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.0	12/31/14 04:39	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	12/31/14 04:39	
1,2-Dichlorobenzene	ug/L	ND	1.0	12/31/14 04:39	
1,2-Dichloroethane	ug/L	ND	1.0	12/31/14 04:39	
1,2-Dichloropropane	ug/L	ND	1.0	12/31/14 04:39	
1,3-Dichlorobenzene	ug/L	ND	1.0	12/31/14 04:39	
1,3-Dichloropropane	ug/L	ND	1.0	12/31/14 04:39	
1,4-Dichlorobenzene	ug/L	ND	1.0	12/31/14 04:39	
2,2-Dichloropropane	ug/L	ND	1.0	12/31/14 04:39	
2-Butanone (MEK)	ug/L	ND	5.0	12/31/14 04:39	
2-Chlorotoluene	ug/L	ND	1.0	12/31/14 04:39	
2-Hexanone	ug/L	ND	5.0	12/31/14 04:39	
4-Chlorotoluene	ug/L	ND	1.0	12/31/14 04:39	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	12/31/14 04:39	
Acetone	ug/L	ND	25.0	12/31/14 04:39	
Benzene	ug/L	ND	1.0	12/31/14 04:39	
Bromobenzene	ug/L	ND	1.0	12/31/14 04:39	
Bromochloromethane	ug/L	ND	1.0	12/31/14 04:39	
Bromodichloromethane	ug/L	ND	1.0	12/31/14 04:39	
Bromoform	ug/L	ND	1.0	12/31/14 04:39	
Bromomethane	ug/L	ND	2.0	12/31/14 04:39	
Carbon tetrachloride	ug/L	ND	1.0	12/31/14 04:39	
Chlorobenzene	ug/L	ND	1.0	12/31/14 04:39	
Chloroethane	ug/L	ND	1.0	12/31/14 04:39	
Chloroform	ug/L	ND	1.0	12/31/14 04:39	
Chloromethane	ug/L	ND	1.0	12/31/14 04:39	
cis-1,2-Dichloroethene	ug/L	ND	1.0	12/31/14 04:39	
cis-1,3-Dichloropropene	ug/L	ND	1.0	12/31/14 04:39	
Dibromochloromethane	ug/L	ND	1.0	12/31/14 04:39	
Dibromomethane	ug/L	ND	1.0	12/31/14 04:39	
Dichlorodifluoromethane	ug/L	ND	1.0	12/31/14 04:39	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL DATA

Project: LEGION INDUSTRIES 6121-090444
Pace Project No.: 92230609

METHOD BLANK: 1361201 Matrix: Water
Associated Lab Samples: 92230609001, 92230609002, 92230609003, 92230609004, 92230609005, 92230609006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diisopropyl ether	ug/L	ND	1.0	12/31/14 04:39	
Ethylbenzene	ug/L	ND	1.0	12/31/14 04:39	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	12/31/14 04:39	
m&p-Xylene	ug/L	ND	2.0	12/31/14 04:39	
Methyl-tert-butyl ether	ug/L	ND	1.0	12/31/14 04:39	
Methylene Chloride	ug/L	ND	2.0	12/31/14 04:39	
Naphthalene	ug/L	ND	1.0	12/31/14 04:39	
o-Xylene	ug/L	ND	1.0	12/31/14 04:39	
p-Isopropyltoluene	ug/L	ND	1.0	12/31/14 04:39	
Styrene	ug/L	ND	1.0	12/31/14 04:39	
Tetrachloroethene	ug/L	ND	1.0	12/31/14 04:39	
Toluene	ug/L	ND	1.0	12/31/14 04:39	
trans-1,2-Dichloroethene	ug/L	ND	1.0	12/31/14 04:39	
trans-1,3-Dichloropropene	ug/L	ND	1.0	12/31/14 04:39	
Trichloroethene	ug/L	ND	1.0	12/31/14 04:39	
Trichlorofluoromethane	ug/L	ND	1.0	12/31/14 04:39	
Vinyl acetate	ug/L	ND	2.0	12/31/14 04:39	
Vinyl chloride	ug/L	ND	1.0	12/31/14 04:39	
Xylene (Total)	ug/L	ND	2.0	12/31/14 04:39	
1,2-Dichloroethane-d4 (S)	%	106	70-130	12/31/14 04:39	
4-Bromofluorobenzene (S)	%	99	70-130	12/31/14 04:39	
Toluene-d8 (S)	%	98	70-130	12/31/14 04:39	

LABORATORY CONTROL SAMPLE: 1361202

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	55.2	110	70-130	
1,1,1-Trichloroethane	ug/L	50	59.6	119	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	48.0	96	70-130	
1,1,2-Trichloroethane	ug/L	50	54.0	108	70-130	
1,1-Dichloroethane	ug/L	50	59.5	119	70-130	
1,1-Dichloroethene	ug/L	50	60.7	121	70-132	
1,1-Dichloropropene	ug/L	50	58.4	117	70-130	
1,2,3-Trichlorobenzene	ug/L	50	43.8	88	70-135	
1,2,3-Trichloropropane	ug/L	50	46.5	93	70-130	
1,2,4-Trichlorobenzene	ug/L	50	46.7	93	70-134	
1,2-Dibromo-3-chloropropane	ug/L	50	45.2	90	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	53.8	108	70-130	
1,2-Dichlorobenzene	ug/L	50	49.9	100	70-130	
1,2-Dichloroethane	ug/L	50	56.0	112	70-130	
1,2-Dichloropropane	ug/L	50	53.7	107	70-130	
1,3-Dichlorobenzene	ug/L	50	49.5	99	70-130	
1,3-Dichloropropane	ug/L	50	51.6	103	70-130	
1,4-Dichlorobenzene	ug/L	50	49.8	100	70-130	

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(704)875-9092

QUALITY CONTROL DATA

Project: LEGION INDUSTRIES 6121-090444
Pace Project No.: 92230609

LABORATORY CONTROL SAMPLE: 1361202

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,2-Dichloropropane	ug/L	50	53.6	107	58-145	
2-Butanone (MEK)	ug/L	100	83.8	84	70-145	
2-Chlorotoluene	ug/L	50	51.8	104	70-130	
2-Hexanone	ug/L	100	86.1	86	70-144	
4-Chlorotoluene	ug/L	50	50.9	102	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	96.8	97	70-140	
Acetone	ug/L	100	88.0	88	50-175	
Benzene	ug/L	50	55.2	110	70-130	
Bromobenzene	ug/L	50	52.2	104	70-130	
Bromochloromethane	ug/L	50	60.0	120	70-130	
Bromodichloromethane	ug/L	50	57.5	115	70-130	
Bromoform	ug/L	50	47.9	96	70-130	
Bromomethane	ug/L	50	53.6	107	54-130	
Carbon tetrachloride	ug/L	50	59.4	119	70-132	
Chlorobenzene	ug/L	50	51.8	104	70-130	
Chloroethane	ug/L	50	62.3	125	64-134	
Chloroform	ug/L	50	58.0	116	70-130	
Chloromethane	ug/L	50	54.0	108	64-130	
cis-1,2-Dichloroethene	ug/L	50	59.9	120	70-131	
cis-1,3-Dichloropropene	ug/L	50	55.5	111	70-130	
Dibromochloromethane	ug/L	50	51.4	103	70-130	
Dibromomethane	ug/L	50	52.0	104	70-131	
Dichlorodifluoromethane	ug/L	50	59.9	120	56-130	
Diisopropyl ether	ug/L	50	55.9	112	70-130	
Ethylbenzene	ug/L	50	51.0	102	70-130	
Hexachloro-1,3-butadiene	ug/L	50	39.2	78	70-130	
m&p-Xylene	ug/L	100	103	103	70-130	
Methyl-tert-butyl ether	ug/L	50	53.3	107	70-130	
Methylene Chloride	ug/L	50	60.3	121	63-130	
Naphthalene	ug/L	50	44.1	88	70-138	
o-Xylene	ug/L	50	51.0	102	70-130	
p-Isopropyltoluene	ug/L	50	50.0	100	70-130	
Styrene	ug/L	50	55.2	110	70-130	
Tetrachloroethene	ug/L	50	49.7	99	70-130	
Toluene	ug/L	50	53.7	107	70-130	
trans-1,2-Dichloroethene	ug/L	50	60.3	121	70-130	
trans-1,3-Dichloropropene	ug/L	50	56.9	114	70-132	
Trichloroethene	ug/L	50	52.0	104	70-130	
Trichlorofluoromethane	ug/L	50	59.5	119	62-133	
Vinyl acetate	ug/L	100	109	109	66-157	
Vinyl chloride	ug/L	50	53.5	107	50-150	
Xylene (Total)	ug/L	150	154	102	70-130	
1,2-Dichloroethane-d4 (S)	%			101	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	
Toluene-d8 (S)	%			103	70-130	

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QUALITY CONTROL DATA

Project: LEGION INDUSTRIES 6121-090444
Pace Project No.: 92230609

MATRIX SPIKE SAMPLE: 1361203

Parameter	Units	92230600024 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	20	25.9	130	70-130	
1,1,1-Trichloroethane	ug/L	ND	20	29.0	145	70-130	M0
1,1,2,2-Tetrachloroethane	ug/L	ND	20	24.1	121	70-130	
1,1,2-Trichloroethane	ug/L	ND	20	25.4	127	70-130	
1,1-Dichloroethane	ug/L	ND	20	29.3	147	70-130	M0
1,1-Dichloroethene	ug/L	ND	20	30.1	150	70-166	
1,1-Dichloropropene	ug/L	ND	20	29.6	148	70-130	M0
1,2,3-Trichlorobenzene	ug/L	ND	20	22.8	114	70-130	
1,2,3-Trichloropropane	ug/L	ND	20	23.6	118	70-130	
1,2,4-Trichlorobenzene	ug/L	ND	20	22.8	114	70-130	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	24.1	120	70-130	
1,2-Dibromoethane (EDB)	ug/L	ND	20	25.9	129	70-130	
1,2-Dichlorobenzene	ug/L	ND	20	24.3	121	70-130	
1,2-Dichloroethane	ug/L	ND	20	26.4	132	70-130	M0
1,2-Dichloropropane	ug/L	ND	20	25.6	128	70-130	
1,3-Dichlorobenzene	ug/L	ND	20	24.4	122	70-130	
1,3-Dichloropropane	ug/L	ND	20	24.9	124	70-130	
1,4-Dichlorobenzene	ug/L	ND	20	24.7	124	70-130	
2,2-Dichloropropane	ug/L	ND	20	25.6	128	70-130	
2-Butanone (MEK)	ug/L	ND	40	50.0	125	70-130	
2-Chlorotoluene	ug/L	ND	20	25.5	127	70-130	
2-Hexanone	ug/L	ND	40	48.8	122	70-130	
4-Chlorotoluene	ug/L	ND	20	24.9	125	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	40	51.0	127	70-130	
Acetone	ug/L	ND	40	53.0	133	70-130	M0
Benzene	ug/L	ND	20	27.5	138	70-148	
Bromobenzene	ug/L	ND	20	25.1	126	70-130	
Bromochloromethane	ug/L	ND	20	28.8	144	70-130	M0
Bromodichloromethane	ug/L	ND	20	26.9	135	70-130	M0
Bromoform	ug/L	ND	20	22.3	111	70-130	
Bromomethane	ug/L	ND	20	28.0	140	70-130	M0
Carbon tetrachloride	ug/L	ND	20	28.0	140	70-130	M0
Chlorobenzene	ug/L	ND	20	25.7	128	70-146	
Chloroethane	ug/L	ND	20	30.6	153	70-130	M0
Chloroform	ug/L	ND	20	27.3	137	70-130	M0
Chloromethane	ug/L	ND	20	27.1	136	70-130	M0
cis-1,2-Dichloroethene	ug/L	14.8	20	44.0	146	70-130	M0
cis-1,3-Dichloropropene	ug/L	ND	20	24.6	123	70-130	
Dibromochloromethane	ug/L	ND	20	24.0	120	70-130	
Dibromomethane	ug/L	ND	20	24.5	123	70-130	
Dichlorodifluoromethane	ug/L	ND	20	29.8	149	70-130	M0
Diisopropyl ether	ug/L	ND	20	26.9	134	70-130	M0
Ethylbenzene	ug/L	ND	20	25.0	125	70-130	
Hexachloro-1,3-butadiene	ug/L	ND	20	28.6	143	70-130	M0
m&p-Xylene	ug/L	ND	40	48.2	120	70-130	
Methyl-tert-butyl ether	ug/L	ND	20	25.2	126	70-130	
Methylene Chloride	ug/L	ND	20	28.5	142	70-130	M0

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QUALITY CONTROL DATA

Project: LEGION INDUSTRIES 6121-090444
Pace Project No.: 92230609

MATRIX SPIKE SAMPLE: 1361203

Parameter	Units	92230600024 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Naphthalene	ug/L	ND	20	24.0	120	70-130	
o-Xylene	ug/L	ND	20	24.7	123	70-130	
p-Isopropyltoluene	ug/L	ND	20	25.0	125	70-130	
Styrene	ug/L	ND	20	23.9	120	70-130	
Tetrachloroethene	ug/L	ND	20	24.5	123	70-130	
Toluene	ug/L	ND	20	26.1	130	70-155	
trans-1,2-Dichloroethene	ug/L	ND	20	30.2	151	70-130	M0
trans-1,3-Dichloropropene	ug/L	ND	20	25.3	127	70-130	
Trichloroethene	ug/L	1.4	20	27.0	128	69-151	
Trichlorofluoromethane	ug/L	ND	20	29.0	145	70-130	M0
Vinyl acetate	ug/L	ND	40	44.3	111	70-130	
Vinyl chloride	ug/L	ND	20	26.7	134	70-130	M0
1,2-Dichloroethane-d4 (S)	%				100	70-130	
4-Bromofluorobenzene (S)	%				101	70-130	
Toluene-d8 (S)	%				101	70-130	

SAMPLE DUPLICATE: 1361240

Parameter	Units	92230600029 Result	Dup Result	RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	ND		
1,1,1-Trichloroethane	ug/L	ND	ND		
1,1,2,2-Tetrachloroethane	ug/L	ND	ND		
1,1,2-Trichloroethane	ug/L	ND	ND		
1,1-Dichloroethane	ug/L	ND	.53J		
1,1-Dichloroethene	ug/L	ND	ND		
1,1-Dichloropropene	ug/L	ND	ND		
1,2,3-Trichlorobenzene	ug/L	ND	ND		
1,2,3-Trichloropropane	ug/L	ND	ND		
1,2,4-Trichlorobenzene	ug/L	ND	ND		
1,2-Dibromo-3-chloropropane	ug/L	ND	ND		
1,2-Dibromoethane (EDB)	ug/L	ND	ND		
1,2-Dichlorobenzene	ug/L	ND	ND		
1,2-Dichloroethane	ug/L	ND	ND		
1,2-Dichloropropane	ug/L	ND	ND		
1,3-Dichlorobenzene	ug/L	ND	ND		
1,3-Dichloropropane	ug/L	ND	ND		
1,4-Dichlorobenzene	ug/L	ND	ND		
2,2-Dichloropropane	ug/L	ND	ND		
2-Butanone (MEK)	ug/L	ND	ND		
2-Chlorotoluene	ug/L	ND	ND		
2-Hexanone	ug/L	ND	ND		
4-Chlorotoluene	ug/L	ND	ND		
4-Methyl-2-pentanone (MIBK)	ug/L	ND	ND		
Acetone	ug/L	ND	ND		
Benzene	ug/L	ND	ND		

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QUALITY CONTROL DATA

Project: LEGION INDUSTRIES 6121-090444
Pace Project No.: 92230609

SAMPLE DUPLICATE: 1361240

Parameter	Units	92230600029 Result	Dup Result	RPD	Qualifiers
Bromobenzene	ug/L	ND	ND		
Bromochloromethane	ug/L	ND	ND		
Bromodichloromethane	ug/L	ND	ND		
Bromoform	ug/L	ND	ND		
Bromomethane	ug/L	ND	ND		
Carbon tetrachloride	ug/L	ND	ND		
Chlorobenzene	ug/L	ND	ND		
Chloroethane	ug/L	ND	ND		
Chloroform	ug/L	ND	ND		
Chloromethane	ug/L	ND	ND		
cis-1,2-Dichloroethene	ug/L	10.3	10.3	0	
cis-1,3-Dichloropropene	ug/L	ND	ND		
Dibromochloromethane	ug/L	ND	ND		
Dibromomethane	ug/L	ND	ND		
Dichlorodifluoromethane	ug/L	ND	ND		
Diisopropyl ether	ug/L	ND	ND		
Ethylbenzene	ug/L	ND	ND		
Hexachloro-1,3-butadiene	ug/L	ND	ND		
m&p-Xylene	ug/L	ND	ND		
Methyl-tert-butyl ether	ug/L	ND	ND		
Methylene Chloride	ug/L	ND	ND		
Naphthalene	ug/L	ND	ND		
o-Xylene	ug/L	ND	ND		
p-Isopropyltoluene	ug/L	ND	ND		
Styrene	ug/L	ND	ND		
Tetrachloroethene	ug/L	ND	ND		
Toluene	ug/L	ND	ND		
trans-1,2-Dichloroethene	ug/L	ND	ND		
trans-1,3-Dichloropropene	ug/L	ND	ND		
Trichloroethene	ug/L	27.0	26.3	3	
Trichlorofluoromethane	ug/L	ND	ND		
Vinyl acetate	ug/L	ND	ND		
Vinyl chloride	ug/L	ND	ND		
Xylene (Total)	ug/L	ND	ND		
1,2-Dichloroethane-d4 (S)	%	120	121	1	
4-Bromofluorobenzene (S)	%	101	102	1	
Toluene-d8 (S)	%	99	99	1	

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QUALITY CONTROL DATA

Project: LEGION INDUSTRIES 6121-090444
Pace Project No.: 92230609

QC Batch: MSV/29872 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92230609007, 92230609008, 92230609009, 92230609010

METHOD BLANK: 1361770 Matrix: Water
Associated Lab Samples: 92230609007, 92230609008, 92230609009, 92230609010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	12/31/14 07:40	
1,1,1-Trichloroethane	ug/L	ND	1.0	12/31/14 07:40	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	12/31/14 07:40	
1,1,2-Trichloroethane	ug/L	ND	1.0	12/31/14 07:40	
1,1-Dichloroethane	ug/L	ND	1.0	12/31/14 07:40	
1,1-Dichloroethene	ug/L	ND	1.0	12/31/14 07:40	
1,1-Dichloropropene	ug/L	ND	1.0	12/31/14 07:40	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	12/31/14 07:40	
1,2,3-Trichloropropane	ug/L	ND	1.0	12/31/14 07:40	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	12/31/14 07:40	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.0	12/31/14 07:40	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	12/31/14 07:40	
1,2-Dichlorobenzene	ug/L	ND	1.0	12/31/14 07:40	
1,2-Dichloroethane	ug/L	ND	1.0	12/31/14 07:40	
1,2-Dichloropropane	ug/L	ND	1.0	12/31/14 07:40	
1,3-Dichlorobenzene	ug/L	ND	1.0	12/31/14 07:40	
1,3-Dichloropropane	ug/L	ND	1.0	12/31/14 07:40	
1,4-Dichlorobenzene	ug/L	ND	1.0	12/31/14 07:40	
2,2-Dichloropropane	ug/L	ND	1.0	12/31/14 07:40	
2-Butanone (MEK)	ug/L	ND	5.0	12/31/14 07:40	
2-Chlorotoluene	ug/L	ND	1.0	12/31/14 07:40	
2-Hexanone	ug/L	ND	5.0	12/31/14 07:40	
4-Chlorotoluene	ug/L	ND	1.0	12/31/14 07:40	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	12/31/14 07:40	
Acetone	ug/L	ND	25.0	12/31/14 07:40	
Benzene	ug/L	ND	1.0	12/31/14 07:40	
Bromobenzene	ug/L	ND	1.0	12/31/14 07:40	
Bromochloromethane	ug/L	ND	1.0	12/31/14 07:40	
Bromodichloromethane	ug/L	ND	1.0	12/31/14 07:40	
Bromoform	ug/L	ND	1.0	12/31/14 07:40	
Bromomethane	ug/L	ND	2.0	12/31/14 07:40	
Carbon tetrachloride	ug/L	ND	1.0	12/31/14 07:40	
Chlorobenzene	ug/L	ND	1.0	12/31/14 07:40	
Chloroethane	ug/L	ND	1.0	12/31/14 07:40	
Chloroform	ug/L	ND	1.0	12/31/14 07:40	
Chloromethane	ug/L	ND	1.0	12/31/14 07:40	
cis-1,2-Dichloroethene	ug/L	ND	1.0	12/31/14 07:40	
cis-1,3-Dichloropropene	ug/L	ND	1.0	12/31/14 07:40	
Dibromochloromethane	ug/L	ND	1.0	12/31/14 07:40	
Dibromomethane	ug/L	ND	1.0	12/31/14 07:40	
Dichlorodifluoromethane	ug/L	ND	1.0	12/31/14 07:40	

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QUALITY CONTROL DATA

Project: LEGION INDUSTRIES 6121-090444
Pace Project No.: 92230609

METHOD BLANK: 1361770 Matrix: Water
Associated Lab Samples: 92230609007, 92230609008, 92230609009, 92230609010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diisopropyl ether	ug/L	ND	1.0	12/31/14 07:40	
Ethylbenzene	ug/L	ND	1.0	12/31/14 07:40	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	12/31/14 07:40	
m&p-Xylene	ug/L	ND	2.0	12/31/14 07:40	
Methyl-tert-butyl ether	ug/L	ND	1.0	12/31/14 07:40	
Methylene Chloride	ug/L	ND	2.0	12/31/14 07:40	
Naphthalene	ug/L	ND	1.0	12/31/14 07:40	
o-Xylene	ug/L	ND	1.0	12/31/14 07:40	
p-Isopropyltoluene	ug/L	ND	1.0	12/31/14 07:40	
Styrene	ug/L	ND	1.0	12/31/14 07:40	
Tetrachloroethene	ug/L	ND	1.0	12/31/14 07:40	
Toluene	ug/L	ND	1.0	12/31/14 07:40	
trans-1,2-Dichloroethene	ug/L	ND	1.0	12/31/14 07:40	
trans-1,3-Dichloropropene	ug/L	ND	1.0	12/31/14 07:40	
Trichloroethene	ug/L	ND	1.0	12/31/14 07:40	
Trichlorofluoromethane	ug/L	ND	1.0	12/31/14 07:40	
Vinyl acetate	ug/L	ND	2.0	12/31/14 07:40	
Vinyl chloride	ug/L	ND	1.0	12/31/14 07:40	
Xylene (Total)	ug/L	ND	2.0	12/31/14 07:40	
1,2-Dichloroethane-d4 (S)	%	102	70-130	12/31/14 07:40	
4-Bromofluorobenzene (S)	%	98	70-130	12/31/14 07:40	
Toluene-d8 (S)	%	96	70-130	12/31/14 07:40	

LABORATORY CONTROL SAMPLE: 1361771

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	53.6	107	70-130	
1,1,1-Trichloroethane	ug/L	50	51.4	103	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	51.9	104	70-130	
1,1,2-Trichloroethane	ug/L	50	52.6	105	70-130	
1,1-Dichloroethane	ug/L	50	52.0	104	70-130	
1,1-Dichloroethene	ug/L	50	51.5	103	70-132	
1,1-Dichloropropene	ug/L	50	51.9	104	70-130	
1,2,3-Trichlorobenzene	ug/L	50	52.6	105	70-135	
1,2,3-Trichloropropane	ug/L	50	48.3	97	70-130	
1,2,4-Trichlorobenzene	ug/L	50	53.6	107	70-134	
1,2-Dibromo-3-chloropropane	ug/L	50	53.1	106	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	54.9	110	70-130	
1,2-Dichlorobenzene	ug/L	50	52.3	105	70-130	
1,2-Dichloroethane	ug/L	50	50.3	101	70-130	
1,2-Dichloropropane	ug/L	50	50.0	100	70-130	
1,3-Dichlorobenzene	ug/L	50	50.6	101	70-130	
1,3-Dichloropropane	ug/L	50	52.3	105	70-130	
1,4-Dichlorobenzene	ug/L	50	51.0	102	70-130	

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QUALITY CONTROL DATA

Project: LEGION INDUSTRIES 6121-090444
Pace Project No.: 92230609

LABORATORY CONTROL SAMPLE: 1361771

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,2-Dichloropropane	ug/L	50	48.6	97	58-145	
2-Butanone (MEK)	ug/L	100	100	100	70-145	
2-Chlorotoluene	ug/L	50	47.0	94	70-130	
2-Hexanone	ug/L	100	104	104	70-144	
4-Chlorotoluene	ug/L	50	51.5	103	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	109	109	70-140	
Acetone	ug/L	100	92.1	92	50-175	
Benzene	ug/L	50	52.4	105	70-130	
Bromobenzene	ug/L	50	51.9	104	70-130	
Bromochloromethane	ug/L	50	50.4	101	70-130	
Bromodichloromethane	ug/L	50	53.4	107	70-130	
Bromoform	ug/L	50	48.6	97	70-130	
Bromomethane	ug/L	50	45.1	90	54-130	
Carbon tetrachloride	ug/L	50	51.9	104	70-132	
Chlorobenzene	ug/L	50	50.0	100	70-130	
Chloroethane	ug/L	50	44.1	88	64-134	
Chloroform	ug/L	50	51.5	103	70-130	
Chloromethane	ug/L	50	46.0	92	64-130	
cis-1,2-Dichloroethene	ug/L	50	53.2	106	70-131	
cis-1,3-Dichloropropene	ug/L	50	53.9	108	70-130	
Dibromochloromethane	ug/L	50	49.8	100	70-130	
Dibromomethane	ug/L	50	52.9	106	70-131	
Dichlorodifluoromethane	ug/L	50	44.8	90	56-130	
Diisopropyl ether	ug/L	50	49.3	99	70-130	
Ethylbenzene	ug/L	50	50.2	100	70-130	
Hexachloro-1,3-butadiene	ug/L	50	52.1	104	70-130	
m&p-Xylene	ug/L	100	99.8	100	70-130	
Methyl-tert-butyl ether	ug/L	50	46.0	92	70-130	
Methylene Chloride	ug/L	50	53.1	106	63-130	
Naphthalene	ug/L	50	55.6	111	70-138	
o-Xylene	ug/L	50	50.7	101	70-130	
p-Isopropyltoluene	ug/L	50	52.7	105	70-130	
Styrene	ug/L	50	53.9	108	70-130	
Tetrachloroethene	ug/L	50	50.4	101	70-130	
Toluene	ug/L	50	50.2	100	70-130	
trans-1,2-Dichloroethene	ug/L	50	53.4	107	70-130	
trans-1,3-Dichloropropene	ug/L	50	54.2	108	70-132	
Trichloroethene	ug/L	50	51.4	103	70-130	
Trichlorofluoromethane	ug/L	50	45.3	91	62-133	
Vinyl acetate	ug/L	100	103	103	66-157	
Vinyl chloride	ug/L	50	46.1	92	50-150	
Xylene (Total)	ug/L	150	151	100	70-130	
1,2-Dichloroethane-d4 (S)	%			101	70-130	
4-Bromofluorobenzene (S)	%			98	70-130	
Toluene-d8 (S)	%			102	70-130	

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QUALITY CONTROL DATA

Project: LEGION INDUSTRIES 6121-090444
Pace Project No.: 92230609

MATRIX SPIKE SAMPLE: 1361780

Parameter	Units	92230940011 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	20	23.1	115	70-130	
1,1,1-Trichloroethane	ug/L	ND	20	23.6	118	70-130	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	22.4	112	70-130	
1,1,2-Trichloroethane	ug/L	ND	20	22.5	112	70-130	
1,1-Dichloroethane	ug/L	ND	20	24.1	121	70-130	
1,1-Dichloroethene	ug/L	ND	20	23.2	116	70-166	
1,1-Dichloropropene	ug/L	ND	20	23.9	119	70-130	
1,2,3-Trichlorobenzene	ug/L	ND	20	22.1	110	70-130	
1,2,3-Trichloropropane	ug/L	ND	20	21.7	108	70-130	
1,2,4-Trichlorobenzene	ug/L	ND	20	22.8	114	70-130	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	19.2	96	70-130	
1,2-Dibromoethane (EDB)	ug/L	ND	20	22.5	112	70-130	
1,2-Dichlorobenzene	ug/L	ND	20	22.5	113	70-130	
1,2-Dichloroethane	ug/L	ND	20	21.5	107	70-130	
1,2-Dichloropropane	ug/L	ND	20	21.5	108	70-130	
1,3-Dichlorobenzene	ug/L	ND	20	22.7	114	70-130	
1,3-Dichloropropane	ug/L	ND	20	22.2	111	70-130	
1,4-Dichlorobenzene	ug/L	ND	20	22.3	112	70-130	
2,2-Dichloropropane	ug/L	ND	20	17.9	89	70-130	
2-Butanone (MEK)	ug/L	ND	40	38.7	97	70-130	
2-Chlorotoluene	ug/L	ND	20	21.0	105	70-130	
2-Hexanone	ug/L	ND	40	43.9	110	70-130	
4-Chlorotoluene	ug/L	ND	20	23.1	115	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	40	43.7	109	70-130	
Acetone	ug/L	ND	40	41.8	97	70-130	
Benzene	ug/L	ND	20	23.7	119	70-148	
Bromobenzene	ug/L	ND	20	22.4	112	70-130	
Bromochloromethane	ug/L	ND	20	24.1	120	70-130	
Bromodichloromethane	ug/L	ND	20	21.0	105	70-130	
Bromoform	ug/L	ND	20	19.6	98	70-130	
Bromomethane	ug/L	ND	20	15.3	77	70-130	
Carbon tetrachloride	ug/L	ND	20	22.8	114	70-130	
Chlorobenzene	ug/L	ND	20	22.8	114	70-146	
Chloroethane	ug/L	ND	20	21.3	106	70-130	
Chloroform	ug/L	ND	20	21.9	109	70-130	
Chloromethane	ug/L	ND	20	21.1	106	70-130	
cis-1,2-Dichloroethene	ug/L	ND	20	23.4	117	70-130	
cis-1,3-Dichloropropene	ug/L	ND	20	20.3	101	70-130	
Dibromochloromethane	ug/L	ND	20	20.6	103	70-130	
Dibromomethane	ug/L	ND	20	22.1	111	70-130	
Dichlorodifluoromethane	ug/L	ND	20	22.1	110	70-130	
Diisopropyl ether	ug/L	ND	20	20.6	103	70-130	
Ethylbenzene	ug/L	ND	20	23.5	117	70-130	
Hexachloro-1,3-butadiene	ug/L	ND	20	29.2	146	70-130	M0
m&p-Xylene	ug/L	ND	40	46.5	116	70-130	
Methyl-tert-butyl ether	ug/L	ND	20	19.3	97	70-130	
Methylene Chloride	ug/L	ND	20	23.4	117	70-130	

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QUALITY CONTROL DATA

Project: LEGION INDUSTRIES 6121-090444
Pace Project No.: 92230609

MATRIX SPIKE SAMPLE: 1361780

Parameter	Units	92230940011 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Naphthalene	ug/L	ND	20	22.7	113	70-130	
o-Xylene	ug/L	ND	20	22.8	114	70-130	
p-Isopropyltoluene	ug/L	ND	20	23.6	118	70-130	
Styrene	ug/L	ND	20	20.4	102	70-130	
Tetrachloroethene	ug/L	ND	20	23.0	115	70-130	
Toluene	ug/L	ND	20	22.6	113	70-155	
trans-1,2-Dichloroethene	ug/L	ND	20	23.7	119	70-130	
trans-1,3-Dichloropropene	ug/L	ND	20	20.7	103	70-130	
Trichloroethene	ug/L	ND	20	23.4	117	69-151	
Trichlorofluoromethane	ug/L	ND	20	24.4	122	70-130	
Vinyl acetate	ug/L	ND	40	31.5	79	70-130	
Vinyl chloride	ug/L	ND	20	21.7	109	70-130	
1,2-Dichloroethane-d4 (S)	%				101	70-130	
4-Bromofluorobenzene (S)	%				93	70-130	
Toluene-d8 (S)	%				100	70-130	

SAMPLE DUPLICATE: 1361772

Parameter	Units	92230609008 Result	Dup Result	RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	ND		
1,1,1-Trichloroethane	ug/L	ND	ND		
1,1,2,2-Tetrachloroethane	ug/L	ND	ND		
1,1,2-Trichloroethane	ug/L	ND	ND		
1,1-Dichloroethane	ug/L	ND	ND		
1,1-Dichloroethene	ug/L	ND	ND		
1,1-Dichloropropene	ug/L	ND	ND		
1,2,3-Trichlorobenzene	ug/L	ND	ND		
1,2,3-Trichloropropane	ug/L	ND	ND		
1,2,4-Trichlorobenzene	ug/L	ND	ND		
1,2-Dibromo-3-chloropropane	ug/L	ND	ND		
1,2-Dibromoethane (EDB)	ug/L	ND	ND		
1,2-Dichlorobenzene	ug/L	ND	ND		
1,2-Dichloroethane	ug/L	ND	ND		
1,2-Dichloropropane	ug/L	ND	ND		
1,3-Dichlorobenzene	ug/L	ND	ND		
1,3-Dichloropropane	ug/L	ND	ND		
1,4-Dichlorobenzene	ug/L	ND	ND		
2,2-Dichloropropane	ug/L	ND	ND		
2-Butanone (MEK)	ug/L	ND	ND		
2-Chlorotoluene	ug/L	ND	ND		
2-Hexanone	ug/L	ND	ND		
4-Chlorotoluene	ug/L	ND	ND		
4-Methyl-2-pentanone (MIBK)	ug/L	ND	ND		
Acetone	ug/L	ND	ND		
Benzene	ug/L	ND	ND		

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QUALITY CONTROL DATA

Project: LEGION INDUSTRIES 6121-090444
Pace Project No.: 92230609

SAMPLE DUPLICATE: 1361772

Parameter	Units	92230609008 Result	Dup Result	RPD	Qualifiers
Bromobenzene	ug/L	ND	ND		
Bromochloromethane	ug/L	ND	ND		
Bromodichloromethane	ug/L	ND	ND		
Bromoform	ug/L	ND	ND		
Bromomethane	ug/L	ND	ND		
Carbon tetrachloride	ug/L	ND	ND		
Chlorobenzene	ug/L	ND	ND		
Chloroethane	ug/L	ND	ND		
Chloroform	ug/L	ND	ND		
Chloromethane	ug/L	ND	ND		
cis-1,2-Dichloroethene	ug/L	3.0	3.0	0	
cis-1,3-Dichloropropene	ug/L	ND	ND		
Dibromochloromethane	ug/L	ND	ND		
Dibromomethane	ug/L	ND	ND		
Dichlorodifluoromethane	ug/L	ND	ND		
Diisopropyl ether	ug/L	ND	ND		
Ethylbenzene	ug/L	ND	ND		
Hexachloro-1,3-butadiene	ug/L	ND	ND		
m&p-Xylene	ug/L	ND	ND		
Methyl-tert-butyl ether	ug/L	ND	ND		
Methylene Chloride	ug/L	ND	ND		
Naphthalene	ug/L	ND	ND		
o-Xylene	ug/L	ND	ND		
p-Isopropyltoluene	ug/L	ND	ND		
Styrene	ug/L	ND	ND		
Tetrachloroethene	ug/L	ND	ND		
Toluene	ug/L	ND	ND		
trans-1,2-Dichloroethene	ug/L	ND	ND		
trans-1,3-Dichloropropene	ug/L	ND	ND		
Trichloroethene	ug/L	4.0	4.6	15	
Trichlorofluoromethane	ug/L	ND	ND		
Vinyl acetate	ug/L	ND	ND		
Vinyl chloride	ug/L	ND	ND		
Xylene (Total)	ug/L	ND	ND		
1,2-Dichloroethane-d4 (S)	%	106	106	0	
4-Bromofluorobenzene (S)	%	92	89	3	
Toluene-d8 (S)	%	99	98	0	

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QUALITY CONTROL DATA

Project: LEGION INDUSTRIES 6121-090444
Pace Project No.: 92230609

QC Batch: OEXT/31932 Analysis Method: EPA 8081
QC Batch Method: EPA 3510 Analysis Description: 8081A GCS Pesticides
Associated Lab Samples: 92230609001, 92230609002, 92230609003, 92230609004, 92230609005, 92230609006, 92230609007, 92230609008, 92230609009

METHOD BLANK: 1359641 Matrix: Water
Associated Lab Samples: 92230609001, 92230609002, 92230609003, 92230609004, 92230609005, 92230609006, 92230609007, 92230609008, 92230609009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
4,4'-DDD	ug/L	ND	0.050	12/30/14 03:03	
4,4'-DDE	ug/L	ND	0.050	12/30/14 03:03	
4,4'-DDT	ug/L	ND	0.050	12/30/14 03:03	
Aldrin	ug/L	ND	0.050	12/30/14 03:03	
alpha-BHC	ug/L	ND	0.050	12/30/14 03:03	
beta-BHC	ug/L	ND	0.050	12/30/14 03:03	
Chlordane (Technical)	ug/L	ND	0.20	12/30/14 03:03	
delta-BHC	ug/L	ND	0.050	12/30/14 03:03	
Dieldrin	ug/L	ND	0.050	12/30/14 03:03	
Endosulfan I	ug/L	ND	0.050	12/30/14 03:03	
Endosulfan II	ug/L	ND	0.050	12/30/14 03:03	
Endosulfan sulfate	ug/L	ND	0.050	12/30/14 03:03	
Endrin	ug/L	ND	0.050	12/30/14 03:03	
Endrin aldehyde	ug/L	ND	0.050	12/30/14 03:03	
Endrin ketone	ug/L	ND	0.050	12/30/14 03:03	
gamma-BHC (Lindane)	ug/L	ND	0.050	12/30/14 03:03	
Heptachlor	ug/L	ND	0.050	12/30/14 03:03	
Heptachlor epoxide	ug/L	ND	0.050	12/30/14 03:03	
Hexachlorobenzene	ug/L	ND	0.050	12/30/14 03:03	
Methoxychlor	ug/L	ND	0.15	12/30/14 03:03	
Mirex	ug/L	ND	0.15	12/30/14 03:03	
Toxaphene	ug/L	ND	0.20	12/30/14 03:03	
Decachlorobiphenyl (S)	%	79	20-130	12/30/14 03:03	
Tetrachloro-m-xylene (S)	%	54	20-130	12/30/14 03:03	

LABORATORY CONTROL SAMPLE: 1359642

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4,4'-DDD	ug/L	.25	0.21	85	20-150	
4,4'-DDE	ug/L	.25	0.19	78	20-150	
4,4'-DDT	ug/L	.25	0.21	86	20-150	
Aldrin	ug/L	.25	0.16	66	20-150	
alpha-BHC	ug/L	.25	0.20	82	20-150	
beta-BHC	ug/L	.25	0.24	95	20-150	
delta-BHC	ug/L	.25	0.24	96	20-150	
Dieldrin	ug/L	.25	0.20	81	20-150	
Endosulfan I	ug/L	.25	0.20	81	20-150	
Endosulfan II	ug/L	.25	0.22	89	20-150	

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QUALITY CONTROL DATA

Project: LEGION INDUSTRIES 6121-090444
Pace Project No.: 92230609

LABORATORY CONTROL SAMPLE: 1359642

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Endosulfan sulfate	ug/L	.25	0.23	93	20-150	
Endrin	ug/L	.25	0.20	82	20-150	
Endrin aldehyde	ug/L	.25	0.20	80	20-150	
Endrin ketone	ug/L	.25	0.23	92	20-150	
gamma-BHC (Lindane)	ug/L	.25	0.21	83	20-150	
Heptachlor	ug/L	.25	0.19	75	20-150	
Heptachlor epoxide	ug/L	.25	0.20	79	20-150	
Hexachlorobenzene	ug/L	.25	0.16	65	20-150	
Methoxychlor	ug/L	.74	0.64	87	20-150	
Mirex	ug/L	.74	0.65	88	20-150	
Decachlorobiphenyl (S)	%			74	20-130	
Tetrachloro-m-xylene (S)	%			83	20-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1359643 1359644

Parameter	Units	92230609006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
4,4'-DDD	ug/L	0.54	.5	.5	0.81	0.95	53	82	20-150	16	
4,4'-DDE	ug/L	ND	.5	.5	1.1	1.1	231	217	20-150	6	M1
4,4'-DDT	ug/L	ND	.5	.5	0.73	0.70	147	141	20-150	4	
Aldrin	ug/L	ND	.5	.5	0.60	0.43	122	87	20-150	34	R1
alpha-BHC	ug/L	1.0	.5	.5	1.2	1.3	38	51	20-150	5	
beta-BHC	ug/L	0.52	.5	.5	0.78	0.62	52	21	20-150	22	
delta-BHC	ug/L	1.2	.5	.5	1.4	1.4	39	31	20-150	3	
Dieldrin	ug/L	0.72	.5	.5	1.4	1.4	144	138	20-150	2	
Endosulfan I	ug/L	ND	.5	.5	3.1	3.2	631	642	20-150	2	M1
Endosulfan II	ug/L	ND	.5	.5	2.5	2.5	514	515	20-150	0	M1
Endosulfan sulfate	ug/L	ND	.5	.5	0.67	0.60	135	121	20-150	11	
Endrin	ug/L	ND	.5	.5	0.91	0.82	185	165	20-150	11	M1
Endrin aldehyde	ug/L	ND	.5	.5	0.88	0.90	178	182	20-150	2	M1
Endrin ketone	ug/L	2.4	.5	.5	2.5	2.6	15	45	20-150	6	M1
gamma-BHC (Lindane)	ug/L	0.42	.5	.5	0.66	0.63	49	42	20-150	5	
Heptachlor	ug/L	ND	.5	.5	0.41	0.32	84	66	20-150	24	
Heptachlor epoxide	ug/L	ND	.5	.5	1.1	0.93	213	187	20-150	13	M1
Hexachlorobenzene	ug/L	ND	.5	.5	0.22	0.19	44	37	20-150	17	
Methoxychlor	ug/L	ND	1.5	1.5	1.6	1.5	109	101	20-150	7	
Mirex	ug/L	ND	1.5	1.5	1.3	1.4	90	94	20-150	4	
Decachlorobiphenyl (S)	%						61	121	20-130		
Tetrachloro-m-xylene (S)	%						54	102	20-130		

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: LEGION INDUSTRIES 6121-090444
Pace Project No.: 92230609

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Acid preservation may not be appropriate for 2-Chloroethylvinyl ether, Styrene, and Vinyl chloride.

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TNI - The NELAC Institute.

LABORATORIES

PASI-C	Pace Analytical Services - Charlotte

ANALYTE QUALIFIERS

D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
R1	RPD value was outside control limits.
S4	Surrogate recovery not evaluated against control limits due to sample dilution.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: LEGION INDUSTRIES 6121-090444
Pace Project No.: 92230609

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92230609001	**MW-9**	EPA 3510	OEXT/31932	EPA 8081	GCSV/19940
92230609002	**MW-6**	EPA 3510	OEXT/31932	EPA 8081	GCSV/19940
92230609003	**MW-5**	EPA 3510	OEXT/31932	EPA 8081	GCSV/19940
92230609004	**MW-7**	EPA 3510	OEXT/31932	EPA 8081	GCSV/19940
92230609005	**MW-10**	EPA 3510	OEXT/31932	EPA 8081	GCSV/19940
92230609006	**MW-11**	EPA 3510	OEXT/31932	EPA 8081	GCSV/19940
92230609007	**MW-19**	EPA 3510	OEXT/31932	EPA 8081	GCSV/19940
92230609008	**MW-14**	EPA 3510	OEXT/31932	EPA 8081	GCSV/19940
92230609009	**DUP-2**	EPA 3510	OEXT/31932	EPA 8081	GCSV/19940
92230609001	**MW-9**	EPA 8260	MSV/29859		
92230609002	**MW-6**	EPA 8260	MSV/29859		
92230609003	**MW-5**	EPA 8260	MSV/29859		
92230609004	**MW-7**	EPA 8260	MSV/29859		
92230609005	**MW-10**	EPA 8260	MSV/29859		
92230609006	**MW-11**	EPA 8260	MSV/29859		
92230609007	**MW-19**	EPA 8260	MSV/29872		
92230609008	**MW-14**	EPA 8260	MSV/29872		
92230609009	**DUP-2**	EPA 8260	MSV/29872		
92230609010	**TRIP BLANK**	EPA 8260	MSV/29872		

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Pace Analytical	Sample Condition Upon Receipt (SCUR)	Page 1 of 2
	Document Number: F-CHR-CS-003-rev.15	Issuing Authority: Pace Huntersville Quality Office

Client Name: AMEC

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other_____

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Optional
Proj. Due Date:
Proj. Name:

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other_____

Thermometer Used: IR Gun T1401 Type of Ice: Wet Blue None ☑ Samples on ice, cooling process has begun

Temp Correction Factor T1401 No Correction

Corrected Cooler Temp.: 0.5 °C Biological Tissue is Frozen: Yes No N/A

Date and Initials of person examining contents: DS 12/20/14

Temp should be above freezing to 6°C

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix:_____		
All containers needing preservation have been checked.	☐Yes ☐No ☑N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☑N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☑Yes ☐No	
Samples checked for dechlorination:	☑Yes ☐No ☐N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☑No ☐N/A	15.
Trip Blank Present:	☑Yes ☐No ☐N/A	16.
Trip Blank Custody Seals Present	☑Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased):_____		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

SCURF Review: TMD Date: 12/20/14

SRF Review: JY Date: 12/22/14

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

WO# : 92230609

92230609

Pace Analytical®
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

1783463

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: AMEC E&I	Report To: STEVE FOLEY	Attention:
Address: 2677 BUFORD HWY	Copy To:	Company Name:
ATLANTA GA 30324		Address:
Email To: STEVE.FOLEY@AMEC.COM	Purchase Order No.:	Pace Quote Reference:
Phone: 404-817-0152 Fax:	Project Name: LEGION INDUSTRIES	Pace Project Manager:
Requested Due Date/TAT: 1 WK	Project Number: 6121-08-0447	Pace Profile #: 10016-5

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER MSGA

Site Location STATE: GA

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start DATE	COLLECTED Composite Start TIME	COLLECTED Composite End/Grab DATE	COLLECTED Composite End/Grab TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N): VOCs 8260B	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 92230609
1	MW-9	WT	G			12/18/14	0820		4	1			3					X X		001
2	MW-6						0845		4	1			3							002
3	MW-5						1025		5	2			3							003
4	MW-7						1150		4	1			3							004
5	MW-10						1230		5	2			3							005
6	MW-11						1345		5	2			3							006
7	MW-19						1445		4	1			3							007
8	MW-14						1550		5	2			3							008
9	DUP-2								5	2			3							009
10	TRIP BLANK								2				2							010
11																				
12																				

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	AMEC	12/18/14	1355	B. Petit	12-19	1355				
				P. Sun / PACE	12/22	900	0.5	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: STEPHEN R FOLEY

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 12/18/14

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

WELL PURGING - FIELD WATER QUALITY MEASUREMENTS FORM

Location:

Identify Measuring Point (MP): TOC
(e.g. Top of Casing)

page 1 of 1

Well ID: MW-1
Field Sampling Personnel: S. Focoy

Depth to Screen below MP: 6.15 of screen Top — 11.15 of screen Bottom

Pump Intake at (ft. below MP): ~8
Purging Device (Pump Type):
(e.g. Dedicated pump, peristaltic pump, bailer, bladder pump, etc.)

Well Depth, (Ft.) 11.15
Depth To Water (Ft.) 6.38
Water Column (Ft.) 4.77
Well Volume (gal) 0.78

Date	Time 24 hr	Depth to Water Below MP ft	Purge Rate mL/min	pH pH units	Spec Cond. mS/cm	Turbidity NTUs	DO Flow cell mg/L	Temp. °C	Redox Potential mV	Cum. Volume Purged gallons	CHEMetrics DO mg/L (low)	Hach Ferrous Iron mg/L	Comments
12/15/14		6.38	300	3.80	0.140	650	9.19	13.97	261	0			
		6.82		4.33	0.137	132	7.20	15.53	243				
		6.94		4.90	0.137	27.5	7.13	15.31	207				
		7.04	250	4.91	0.138	3.5	6.92	15.29	208				
		7.08		4.91	0.139	5.9	6.73	15.27	210				
		7.11		4.91	0.139	5.7	6.60	15.25	212				
		7.15		4.91	0.140	3.1	6.49	15.20	214				
		7.17		4.91	0.140	3.3	6.43	15.23	214				
													SAMPLED AT 0928

Notes:
Note when "Stabilization " has occurred. Stabilization Criteria (achieved after a minimum of three successive readings):
±0.1 for pH
±10 mV for redox
±3% for specific cond.
±10% for DO
<20 NTUs for turbidity
NA for temperature

If stabilization does not occur within 2 hours, contact Site Manager for action.
If well goes dry prior to stabilization, stop, allow well to recharge, and collect sample.

Well Casing Volume (Gal):
2" diameter well: Water column (ft.) x 0.163
4" diameter well: Water column x 0.653

WELL PURGING - FIELD WATER QUALITY MEASUREMENTS FORM

Location:

Well ID: MW-2

Field Sampling Personnel: S. FOLEY

Identify Measuring Point (MP): TOC
(e.g. Top of Casing)

Depth to Screen below MP: 18 of screen Top — 24 of screen Bottom

Pump Intake at (ft. below MP): 18-20

Purging Device (Pump Type):
(e.g. Dedicated pump, peristaltic pump, bailer, bladder pump, etc.)

Well Depth, (Ft.) 24.20
Depth To Water (Ft.) 16.82
Water Column (Ft.) 7.38
Well Volume (gal) 1.2

Date	Time 24 hr	Depth to Water Below MP ft	Purge Rate mL/min	pH pH units	Spec Cond. mS/cm	Turbidity NTUs	DO Flow cell mg/L	Temp. °C	Redox Potential mV	Cum. Volume Purged gallons	CHEMetrics DO mg/L (low)	Hach Ferrous Iron mg/L	Comments
12/1/04	1020	16.82	300	4.31	0.125	21.2	7.56	18.83	179	0			
	1025	17.21		4.23	0.116	25.1	1.70	18.89	162				
	1030	17.46		4.24	0.097	6.1	1.48	18.96	174				
	1035	17.62		4.18	0.092	5.3	1.73	18.94	192				
	1040	17.80		4.27	0.092	7.0	1.46	18.90	202				
	1045	17.99		4.29	0.091	1.5	1.55	18.91	223				
	1050	18.16		4.27	0.092	2.7	1.50	19.02	222				
	1055	18.25		4.29	0.092	0.6	1.50	18.98	225				
	1100	18.38		4.30	0.094	2.3	1.56	18.99	224	3.5			
													SAMPLED @ 1105

Notes:
Note when "Stabilization " has occurred. Stabilization Criteria (achieved after a minimum of three successive readings):
±0.1 for pH
±10 mV for redox
±3% for specific cond.
±10% for DO
<20 NTUs for turbidity
NA for temperature

If stabilization does not occur within 2 hours, contact Site Manager for action.
If well goes dry prior to stabilization, stop, allow well to recharge, and collect sample.

Well Casing Volume (Gal):
2" diameter well: Water column (ft.) x 0.163
4" diameter well: Water column x 0.653

WELL PURGING - FIELD WATER QUALITY MEASUREMENTS FORM

Location:

Well ID: MW-3
Field Sampling Personnel: S. Folen

Identify Measuring Point (MP): TOC
(e.g. Top of Casing)

Depth to Screen below MP: 8 of screen Top; 15 of screen Bottom

Pump Intake at (ft. below MP): 10-12
Purging Device (Pump Type):
(e.g. Dedicated pump, peristaltic pump, bailer, bladder pump, etc.)

page 1 of 1

Well Depth, (Ft.) 15.25 TOC
Depth To Water (Ft.) 10.18
Water Column (Ft.) 5.07
Well Volume (gal) 0.82

Date	Time 24 hr	Depth to Water Below MP ft	Purge Rate mL/min	pH pH units	Spec Cond. mS/cm	Turbidity NTUs	DO Flow cell mg/L	Temp. °C	Redox Potential mV	Cum. Volume Purged gallons	CHEMetrics DO mg/L (low)	Hach Ferrous Iron mg/L	Comments
12/16/14	1545	10.18	250	3.82	0.026	120	7.21	20.03	243	0			
	1550	10.79		3.74	0.054	53.5	6.09	19.24	269				
	1555	10.85		4.36	0.067	41.6	6.15	19.12	244				
	1600	11.10		4.38	0.067	18.4	5.88	19.13	253				
	1605	11.27		4.40	0.067	19.8	6.01	19.03	261				
	1610	11.39		4.38	0.066	20.1	5.60	18.86	265				
	1615	11.50		4.35	0.065	13.2	5.51	18.97	269				
	1620	11.60		4.31	0.064	12.0	5.50	19.00	280				
	1625	11.70		4.27	0.063	10.3	9.01	19.01	284				
	1630	11.81		4.25	0.063	9.8	6.97	19.03	282				
	1635	11.90		4.24	0.062	8.7	7.04	19.04	286	3			5 Amps @ 1635

Notes:
Note when "Stabilization " has occurred. Stabilization Criteria (achieved after a minimum of three successive readings):

±0.1 for pH
±10 mV for redox
±3% for specific cond.
±10% for DO
<20 NTUs for turbidity
NA for temperature

If stabilization does not occur within 2 hours, contact Site Manager for action.
If well goes dry prior to stabilization, stop, allow well to recharge, and collect sample.

Well Casing Volume (Gal):
2" diameter well: Water column (ft.) x 0.163
4" diameter well: Water column x 0.653

WELL PURGING - FIELD WATER QUALITY MEASUREMENTS FORM

Location:

Well ID: MW-5

Field Sampling Personnel: Sibley

Identify Measuring Point (MP): TOC
(e.g. Top of Casing)

Depth to Screen below MP: 6 of screen Top, 16 of screen Bottom

Pump Intake at (ft. below MP): 13 - 16

Purging Device (Pump Type): (e.g. Dedicated pump, peristaltic pump, bailer, bladder pump, etc.)

page 1 of 1

Well Depth, (Ft.) 16.15
Depth To Water (Ft.) 12.50
Water Column (Ft.) 3.65
Well Volume (gal) 0.15 1" Φ

Date	Time 24 hr	Depth to Water Below MP ft	Purge Rate mL/min	pH pH units	Spec Cond. mS/cm	Turbidity NTUs	DO Flow cell mg/L	Temp. °C	Redox Potential mV	Cum. Volume Purged gallons	CHEMetrics DO mg/L (low)	Hach Ferrous Iron mg/L	Comments
12/18/14		12.50	200	4.91	0.124	98.1	3.07	17.41	146	0			1" WELL
			100	5.02	0.101	76.4	1.04	16.93	157				
				5.11	0.093	37.2	0.93	16.87	154				
				5.10	0.086	29.1	0.90	16.88	152	0.4			
													WELL DRY @
													LET WELL RECHARGE &
													SAMPLED @ 1025

Notes:
Note when "Stabilization " has occurred. Stabilization Criteria (achieved after a minimum of three successive readings):
±0.1 for pH
±10 mV for redox
±3% for specific cond.
±10% for DO
<20 NTUs for turbidity
NA for temperature

If stabilization does not occur within 2 hours, contact Site Manager for action.
If well goes dry prior to stabilization, stop, allow well to recharge, and collect sample.

Well Casing Volume (Gal):
2" diameter well: Water column (ft.) x 0.163
4" diameter well: Water column x 0.653

040002.03

WELL PURGING - FIELD WATER QUALITY MEASUREMENTS FORM

Location:

Well ID: MW-6
Field Sampling Personnel: S. Foley

Identify Measuring Point (MP): TOC
(e.g. Top of Casing)

Depth to Screen below MP: 5 of screen (Top) 25 of screen (Bottom)

Pump Intake at (ft. below MP): 10-15
Purging Device (Pump Type):
(e.g. Dedicated pump, peristaltic pump, bailer, bladder pump, etc.)

page 1 of 1

Well Depth, (Ft.) 14.87
Depth To Water (Ft.) 8.58
Water Column (Ft.) 6.22
Well Volume (gal) 0.25

Date	Time 24 hr	Depth to Water Below MP ft	Purge Rate mL/min	pH pH units	Spec Cond. mS/cm	Turbidity NTUs	DO Flow cell mg/L	Temp. °C	Redox Potential mV	Cum. Volume Purged gallons	CHEMetrics DO mg/L (low)	Hach Ferrous Iron mg/L	Comments
12/17/14	0730	8.58	150	6.14	0.234	194	4.17	17.41	174				1" WELL
		10.69	100	5.97	0.206	212	2.08	17.52	159				
		12.94		5.95	0.209	121	1.41	17.38	149	0.4			
													WELL DRY
													SAMPLED @ 0815

Notes:
Note when "Stabilization " has occurred. Stabilization Criteria (achieved after a minimum of three successive readings):
±0.1 for pH
±10 mV for redox
±3% for specific cond.
±10% for DO
<20 NTUs for turbidity
NA for temperature

If stabilization does not occur within 2 hours, contact Site Manager for action.
If well goes dry prior to stabilization, stop, allow well to recharge, and collect sample.

Well Casing Volume (Gal):
2" diameter well: Water column (ft.) x 0.163
4" diameter well: Water column x 0.653

WELL PURGING - FIELD WATER QUALITY MEASUREMENTS FORM

Location:

Identify Measuring Point (MP): TOC
(e.g. Top of Casing)

page 1 of 1

Well ID: MW-7
Field Sampling Personnel: S. Foley

Depth to Screen below MP: 2.5 of screen Top — 12.5 of screen Bottom

Pump Intake at (ft. below MP): 7-12
Purging Device (Pump Type):
(e.g. Dedicated pump, peristaltic pump, bailer, bladder pump, etc.)

Well Depth, (Ft.) 12.52
Depth To Water (Ft.) 4.38
Water Column (Ft.) 8.14
Well Volume (gal) 0.133 1"Φ

Date	Time 24 hr	Depth to Water Below MP ft	Purge Rate mL/min	pH pH units	Spec Cond. mS/cm	Turbidity NTUs	DO Flow cell mg/L	Temp. °C	Redox Potential mV	Cum. Volume Purged gallons	CHEMetrics DO mg/L (low)	Hach Ferrous Iron mg/L	Comments
12/18/04	1040	4.38	200	4.42	0.039	99.5	8.47	11.20	235	0			1" DIAMETER
	1045	7.57		3.98	0.081	24.5	10.55	15.35	263				
	1050	10.78	100	3.95	0.082	14.8	10.67	15.38	264				
	1055	11.59		3.93	0.083	13.1	10.50	15.50	261				
	1100	12.34		3.91	0.081	16.2	9.92	15.87	255	0.75			WELL DRY @ ~~TOP~~ 1103
													LET WELL RECHARGE
													SAMPLED AT 1130

Notes:
Note when "Stabilization " has occurred. Stabilization Criteria (achieved after a minimum of three successive readings):
±0.1 for pH
±10 mV for redox
±3% for specific cond.
±10% for DO
<20 NTUs for turbidity
NA for temperature

If stabilization does not occur within 2 hours, contact Site Manager for action.
If well goes dry prior to stabilization, stop, allow well to recharge, and collect sample.

Well Casing Volume (Gal):
2" diameter well: Water column (ft.) x 0.163
4" diameter well: Water column x 0.653

WELL PURGING - FIELD WATER QUALITY MEASUREMENTS FORM

Location:

Identify Measuring Point (MP): TOC
(e.g. Top of Casing)

page 1 of 1

Well ID: MW-9

Field Sampling Personnel:

Depth to Screen below MP: 7 of screen (Top) 17 of screen (Bottom)

Pump Intake at (ft. below MP):

Purging Device (Pump Type):
(e.g. Dedicated pump, peristaltic pump, bailer, bladder pump, etc.)

Well Depth, (Ft.) 16.8 TOC
Depth To Water (Ft.) 10.02
Water Column (Ft.) 6.78
Well Volume (gal) 3.26 1" Ø

Date	Time 24 hr	Depth to Water Below MP ft	Purge Rate mL/min	pH pH units	Spec Cond. mS/cm	Turbidity NTUs	DO Flow cell mg/L	Temp. °C	Redox Potential mV	Cum. Volume Purged gallons	CHEMetrics DO mg/L (low)	Hach Ferrous Iron mg/L	Comments
12/16/10	17:05	10.02	150	4.71	0.035	74.6	4.05	19.19	251	0			1" DIAMETER
	1710	11.58		4.75	0.036	60.4	3.74	18.97	247				
	1715	13.05		4.82	0.043	35.4	2.87	18.76	222				
	1720	14.13		5.06	0.059	22.8	2.25	18.65	170				
	1725	14.99		5.18	0.063	18.6	1.63	18.56	104				
	1730	15.97		5.28	0.067	16.1	1.94	18.54	93				

Notes:
Note when "Stabilization " has occurred. Stabilization Criteria (achieved after a minimum of three successive readings):

±0.1 for pH
±10 mV for redox
±3% for specific cond.
±10% for DO
<20 NTUs for turbidity
NA for temperature

If stabilization does not occur within 2 hours, contact Site Manager for action.
If well goes dry prior to stabilization, stop, allow well to recharge, and collect sample.

Well Casing Volume (Gal):
2" diameter well: Water column (ft.) x 0.163
4" diameter well: Water column x 0.653

WELL PURGING - FIELD WATER QUALITY MEASUREMENTS FORM

Location:

Identify Measuring Point (MP): TOC
(e.g. Top of Casing)

page 1 of 1

Well ID: MW-10

Field Sampling Personnel:

Depth to Screen below MP: 15 of screen Top — 25 of screen Bottom

Pump Intake at (ft. below MP): 15 - 25

Purging Device (Pump Type):
(e.g. Dedicated pump, peristaltic pump, bailer, bladder pump, etc.)

Well Depth, (Ft.) 24.6
Depth To Water (Ft.) 13.65
Water Column (Ft.) 10.95
Well Volume (gal) 0.44

Date	Time 24 hr	Depth to Water Below MP ft	Purge Rate mL/min	pH pH units	Spec Cond. mS/cm	Turbidity NTUs	DO Flow cell mg/L	Temp. °C	Redox Potential mV	Cum. Volume Purged gallons	CHEMetrics DO mg/L (low)	Hach Ferrous Iron mg/L	Comments
12/8/14	1150	13.65	150	4.94	0.069	198	2.91	18.41	157	0			1" DIAMETER
	1155	17.81		4.86	0.054	71.4	1.88	18.73	201				
	1200	20.06		4.71	0.049	37.5	1.74	18.77	189				
	1205	22.94		4.76	0.041	18.9	1.77	18.79	152	0.75			
													DRY @ 1209
													LET RECHARGE & SAMPLED
													SAMPLED @ 1230

Notes:
Note when "Stabilization " has occurred. Stabilization Criteria (achieved after a minimum of three successive readings):

±0.1 for pH
±10 mV for redox
±3% for specific cond.
±10% for DO
<20 NTUs for turbidity
NA for temperature

Well Casing Volume (Gal):
2" diameter well: Water column (ft.) x 0.163
4" diameter well: Water column x 0.653

If stabilization does not occur within 2 hours, contact Site Manager for action.
If well goes dry prior to stabilization, stop, allow well to recharge, and collect sample.

040002.03

WELL PURGING - FIELD WATER QUALITY MEASUREMENTS FORM

Location:

Well ID: MW-11

Field Sampling Personnel:

Identify Measuring Point (MP): TOC
(e.g. Top of Casing)

Depth to Screen below MP: 6 of screen (Top) 16 of screen (Bottom)

Pump Intake at (ft. below MP): 13-16

Purging Device (Pump Type):
(e.g. Dedicated pump, peristaltic pump, bailer, bladder pump, etc.)

page 1 of 1

Well Depth, (Ft.) 15.35
Depth To Water (Ft.) 11.24
Water Column (Ft.) 4.11
Well Volume (gal) 0.67

Date	Time 24 hr	Depth to Water Below MP ft	Purge Rate mL/min	pH pH units	Spec Cond. mS/cm	Turbidity NTUs	DO Flow cell mg/L	Temp. °C	Redox Potential mV	Cum. Volume Purged gallons	CHEMetrics DO mg/L (low)	Hach Ferrous Iron mg/L	Comments
12/15/09	1255	11.24	150	4.32	0.068	17.2	2.30	17.90	24	0			1" DIAMETER
	1300	12.19		3.95	0.066	16.8	2.11	18.01	251				
	1305	13.27		3.86	0.064	20.3	1.86	18.13	255				
	1310	14.20		3.95	0.061	17.4	1.71	18.24	257				
	1315	15.25		4.02	0.060	15.9	1.64	18.17	261	0.5			
													WELL DRY @ 1315
													LET RECHARGE AND
													SAMPLE AT 1345

Notes:
Note when "Stabilization " has occurred. Stabilization Criteria (achieved after a minimum of three successive readings):

±0.1 for pH
±10 mV for redox
±3% for specific cond.
±10% for DO
<20 NTUs for turbidity
NA for temperature

If stabilization does not occur within 2 hours, contact Site Manager for action.
If well goes dry prior to stabilization, stop, allow well to recharge, and collect sample.

Well Casing Volume (Gal):
2" diameter well: Water column (ft.) x 0.163
4" diameter well: Water column x 0.653

WELL PURGING - FIELD WATER QUALITY MEASUREMENTS FORM

Location:

Identify Measuring Point (MP): TOC
(e.g. Top of Casing)

page 1 of 1

Well ID: MW-13
Field Sampling Personnel: S. FOLEY

Depth to Screen below MP: 6 of screen (Top) 16 of screen (Bottom)

Pump Intake at (ft. below MP): 10
Purging Device (Pump Type):
(e.g. Dedicated pump, peristaltic pump, bailer, bladder pump, etc.)

Well Depth, (Ft.) 16.1
Depth To Water (Ft.) 7.35 TOC
Water Column (Ft.) 8.75
Well Volume (gal) 1.4

Date	Time 24 hr	Depth to Water Below MP ft	Purge Rate mL/min	pH pH units	Spec Cond. mS/cm	Turbidity NTUs	DO Flow cell mg/L	Temp. °C	Redox Potential mV	Cum. Volume Purged gallons	CHEMetrics DO mg/L (low)	Hach Ferrous Iron mg/L	Comments
12/17/04	1345	7.35	350	5.91	2.81	10.4	3.37	19.75	25	0			
	1350	7.95	250	6.01	2.76	4.3	0.87	20.68	34				
	1355	7.99		6.00	2.76	3.9	0.78	20.60	39				
	1400	8.04		5.99	2.75	3.6	0.67	20.52	48				
	1405	8.08		5.99	2.72	3.7	0.61	20.45	53				
	1410	8.11		6.01	2.68	1.9	0.58	20.39	55				
	1415	8.13		6.07	2.55	0.8	0.44	20.09	56				
	1420	8.15		6.09	2.50	0.9	0.41	20.08	55				
	1425	8.18		6.10	2.44	1.2	0.38	20.08	51				
	1430	8.20		6.12	2.45	0.0	0.34	20.13	46				
	1435	8.22		6.11	2.47	0.2	0.33	20.07	45				
	1440	8.24		6.12	2.45	0.3	0.31	20.09	44	4.5			
													SAMPLED @ 1445

Notes:
Note when "Stabilization " has occurred. Stabilization Criteria (achieved after a minimum of three successive readings):

±0.1 for pH
±10 mV for redox
±3% for specific cond.
±10% for DO
<20 NTUs for turbidity
NA for temperature

If stabilization does not occur within 2 hours, contact Site Manager for action.
If well goes dry prior to stabilization, stop, allow well to recharge, and collect sample.

Well Casing Volume (Gal):
2" diameter well: Water column (ft.) x 0.163
4" diameter well: Water column x 0.653

WELL PURGING - FIELD WATER QUALITY MEASUREMENTS FORM

Location:

Well ID: MW-14
Field Sampling Personnel: S. Foster

Identify Measuring Point (MP): TOC
(e.g. Top of Casing)

Depth to Screen below MP: 18 of screen Top — 28 of screen Bottom

Pump Intake at (ft. below MP): 16-25
Purging Device (Pump Type):
(e.g. Dedicated pump, peristaltic pump, bailer, bladder pump, etc.)

page 1 of 1

Well Depth, (Ft.) 27.8
Depth To Water (Ft.) 14.88
Water Column (Ft.) 12.92
Well Volume (gal) 2.1

Date	Time 24 hr	Depth to Water Below MP ft	Purge Rate mL/min	pH pH units	Spec Cond. mS/cm	Turbidity NTUs	DO Flow cell mg/L	Temp. °C	Redox Potential mV	Cum. Volume Purged gallons	CHEMetrics DO mg/L (low)	Hach Ferrous Iron mg/L	Comments
02/17/14	1605	14.88	300	7.18	0.205	>1000	4.06	18.84	44	0			
	1610	16.97		5.28	0.166	184	0.65	18.48	52				
	1615	18.14		5.26	0.165	87.1	0.51	18.48	54				
	1620	20.89	250	5.25	0.166	51.6	0.67	18.38	58				
	1625	22.04		5.23	0.150	39.7	1.19	18.39	68				
	1630	23.98		5.22	0.144	26.9	1.20	18.30	80				
	1635	24.87		5.27	0.151	38.4	1.65	18.12	85				
	1640	25.76		5.25	0.152	32.6	1.60	18.08	88				
	1645	26.63	150	5.29	0.159	28.7	1.49	17.92	91				DTW AT 1655
	1650	27.14		5.30	0.169	31.4	1.50	17.91	92				
	1655	27.09		5.32	0.166	33.5	1.46	17.88	94	3.5			SAMPLED @ 1710

Notes:
Note when "Stabilization " has occurred. Stabilization Criteria (achieved after a minimum of three successive readings):
±0.1 for pH
±10 mV for redox
±3% for specific cond.
±10% for DO
<20 NTUs for turbidity
NA for temperature

If stabilization does not occur within 2 hours, contact Site Manager for action.
If well goes dry prior to stabilization, stop, allow well to recharge, and collect sample.

Well Casing Volume (Gal):
2" diameter well: Water column (ft.) x 0.163
4" diameter well: Water column x 0.653

WELL PURGING - FIELD WATER QUALITY MEASUREMENTS FORM

Location:

Identify Measuring Point (MP): TOC
(e.g. Top of Casing)

page 1 of 1

Well ID: MW-15

Field Sampling Personnel:

Depth to Screen below MP: 6.7 of screen Top — 11.7 of screen Bottom

Pump Intake at (ft. below MP): 10

Purging Device (Pump Type):
(e.g. Dedicated pump, peristaltic pump, bailer, bladder pump, etc.)

Well Depth, (Ft.) 11.70
Depth To Water (Ft.) 8.04
Water Column (Ft.) 3.66
Well Volume (gal) 0.6

Date	Time 24 hr	Depth to Water Below MP ft	Purge Rate mL/min	pH pH units	Spec Cond. mS/cm	Turbidity NTUs	DO Flow cell mg/L	Temp. °C	Redox Potential mV	Cum. Volume Purged gallons	CHEMetrics DO mg/L (low)	Hach Ferrous Iron mg/L	Comments
	1500	8.04	250	4.88	0.048	43.8	7.43	16.95	76	0			
	1505	8.30		4.89	0.047	17.8	7.29	16.05	100				
	1510	8.60	200	4.85	0.047	2.2	7.15	15.66	128				
	1515	8.74		4.85	0.047	1.4	7.03	15.40	144				
	1520	8.84		4.84	0.047	1.9	6.98	15.31	149				
	1525	8.90		4.82	0.047	3.0	6.97	15.26	153				
	1530	9.00	150	4.81	0.047	2.5	6.94	15.24	157				
	1535	9.06		4.81	0.047	0.8	6.82	15.20	163				
	1540	9.11		4.80	0.048	0.6	6.79	15.18	164				
	1545	9.15		4.79	0.048	0.2	6.78	15.17	164	2			
													SAMPLED @ 1550

Notes:
Note when "Stabilization " has occurred. Stabilization Criteria (achieved after a minimum of three successive readings):

±0.1 for pH
±10 mV for redox
±3% for specific cond.
±10% for DO
<20 NTUs for turbidity
NA for temperature

Well Casing Volume (Gal):
2" diameter well: Water column (ft.) x 0.163
4" diameter well: Water column x 0.653

If stabilization does not occur within 2 hours, contact Site Manager for action.
If well goes dry prior to stabilization, stop, allow well to recharge, and collect sample.

WELL PURGING - FIELD WATER QUALITY MEASUREMENTS FORM

Location:

Identify Measuring Point (MP): TOC
(e.g. Top of Casing)

Well ID: MW-16
Field Sampling Personnel: S. Foley

Depth to Screen below MP: 6.3 of screen Top — 11.3 of screen Bottom

Pump Intake at (ft. below MP): 10
Purging Device (Pump Type):
(e.g. Dedicated pump, peristaltic pump, bailer, bladder pump, etc.)

Well Depth, (Ft.) 11.32 TOC
Depth To Water (Ft.) 7.25
Water Column (Ft.) 4.07
Well Volume (gal) 0.66

Date	Time 24 hr	Depth to Water Below MP ft	Purge Rate mL/min	pH pH units	Spec Cond. mS/cm	Turbidity NTUs	DO Flow cell mg/L	Temp. °C	Redox Potential mV	Cum. Volume Purged gallons	CHEMetrics DO mg/L (low)	Hach Ferrous Iron mg/L	Comments
12/17/14	0950	7.25	350	5.53	0.408	74.3	2.15	13.19	156	0			
	0955	7.65		5.71	0.404	81.2	1.28	15.52	83				
	1000	7.94	300	5.79	0.377	55.5	0.99	16.20	32				
	1005	8.18		5.76	0.365	34.1	0.81	15.66	21				
	1010	8.36		5.64	0.322	3.9	0.65	15.55	22				
	1015	8.56	250	5.66	0.326	1.1	0.58	15.71	28				
	1020	8.60		5.70	0.335	0.8	0.53	15.64	23				
	1025	8.72		5.72	0.340	0.2	0.52	15.62	21	2.5			
													SAMPLED @ 1030

Notes:
Note when "Stabilization " has occurred. Stabilization Criteria (achieved after a minimum of three successive readings):
±0.1 for pH
±10 mV for redox
±3% for specific cond.
±10% for DO
<20 NTUs for turbidity
NA for temperature

If stabilization does not occur within 2 hours, contact Site Manager for action.
If well goes dry prior to stabilization, stop, allow well to recharge, and collect sample.

Well Casing Volume (Gal):
2" diameter well: Water column (ft.) x 0.163
4" diameter well: Water column x 0.653

WELL PURGING - FIELD WATER QUALITY MEASUREMENTS FORM

Location:

Identify Measuring Point (MP): TOC
(e.g. Top of Casing)

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Well ID: MW-17
Field Sampling Personnel: S. FOLEY

Depth to Screen below MP: 22.4 of screen Top — 27.4 of screen Bottom

Pump Intake at (ft. below MP): 12
Purging Device (Pump Type):
(e.g. Dedicated pump, peristaltic pump, bailer, bladder pump, etc.)

Well Depth, (Ft.) 27.4
Depth To Water (Ft.) 11.45
Water Column (Ft.) 15.95
Well Volume (gal) 2.60

Date	Time 24 hr	Depth to Water Below MP ft	Purge Rate mL/min	pH pH units	Spec Cond. mS/cm	Turbidity NTUs	DO Flow cell mg/L	Temp. °C	Redox Potential mV	Cum. Volume Purged gallons	CHEMetrics DO mg/L (low)	Hach Ferrous Iron mg/L	Comments
12/16/14	1410	11.45	350	4.92	0.059	61.4	10.43	26.08	401	0			
	1415	12.87		4.78	0.078	12.4	4.74	20.18	372				
	1420	14.19		5.03	0.063	5.2	4.25	20.20	403				
	1425	15.33		5.06	0.062	4.1	4.78	20.18	466				
	1430	16.51		5.07	0.063	9.5	4.96	20.17	525				
	1435	17.92	250	5.05	0.061	4.2	4.79	20.11	535				
	1440	17.86		4.95	0.060	5.9	4.32	20.37	537				
	1445	17.90		4.50	0.061	4.7	2.90	20.51	524				
	1450	17.91	450	4.32	0.064	8.6	2.26	20.48	526				
	1455	17.91		4.40	0.071	10.3	1.64	20.49	517				
	1500	17.93		4.51	0.064	8.6	1.26	20.45	501				
	1505	17.95		4.68	0.060	8.9	1.02	20.58	494				
	1510	17.98		4.70	0.061	7.8	0.96	20.48	495				
	1515	18.01		4.71	0.060	8.2	0.95	20.46	493	7			
													SAMPLED @ 1520

Notes:
Note when "Stabilization " has occurred. Stabilization Criteria (achieved after a minimum of three successive readings):
±0.1 for pH
±10 mV for redox
±3% for specific cond.
±10% for DO
<20 NTUs for turbidity
NA for temperature

If stabilization does not occur within 2 hours, contact Site Manager for action.
If well goes dry prior to stabilization, stop, allow well to recharge, and collect sample.

Well Casing Volume (Gal):
2" diameter well: Water column (ft.) x 0.163
4" diameter well: Water column x 0.653

WELL PURGING - FIELD WATER QUALITY MEASUREMENTS FORM

Location:

Identify Measuring Point (MP): TOC
(e.g. Top of Casing)

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Well ID: MW-18
Field Sampling Personnel: S. FOLEY

Depth to Screen below MP: 22.8 of screen Top — 27.8 of screen Bottom

Pump Intake at (ft. below MP):
Purging Device (Pump Type):
(e.g. Dedicated pump, peristaltic pump, bailer, bladder pump, etc.)

Well Depth, (Ft.) 27.8 TOC
Depth To Water (Ft.) 13.95
Water Column (Ft.) 13.85
Well Volume (gal) 2.26

Date	Time 24 hr	Depth to Water Below MP ft	Purge Rate mL/min	pH pH units	Spec Cond. mS/cm	Turbidity NTUs	DO Flow cell mg/L	Temp. °C	Redox Potential mV	Cum. Volume Purged gallons	CHEMetrics DO mg/L (low)	Hach Ferrous Iron mg/L	Comments
12/12/14	1135	13.95	300	5.06	0.348	12.8	3.86	20.21	138	0			
	1140	15.43		5.02	0.346	7.9	2.21	20.61	140				
	1145	16.21	200	4.86	0.303	4.6	1.27	20.76	143				
	1150	17.41		4.85	0.295	5.9	1.15	20.81	145				
	1155	18.55	150	4.84	0.292	5.7	0.95	20.86	147				
	1200	19.57		4.82	0.291	6.5	0.88	21.04	147				
	1205	20.40		4.82	0.290	7.6	0.81	21.10	148				
	1210	21.25		4.81	0.290	6.5	0.63	21.29	149				
	1215	22.13		4.83	0.292	8.1	0.48	21.40	147				
	1220	23.02		4.80	0.291	7.7	0.52	21.39	148				
	1225	23.90		4.82	0.293	9.2	0.51	21.40	150				
	1230	24.86		4.90	0.298	7.1	0.47	21.29	131				
	1235	25.81		5.01	0.307	8.3	0.38	21.16	120				
	1240	26.70		5.04	0.310	6.5	0.32	21.21	113				
	1245	27.53		5.08	0.313	7.1	0.29	21.27	107	3.5			
													STOPPED PUMPING @
													1246 - DRY
													LET RECHARGE AND SAMPLE
													AT 1300

Notes:
Note when "Stabilization " has occurred. Stabilization Criteria (achieved after a minimum of three successive readings):

±0.1 for pH
±10 mV for redox
±3% for specific cond.
±10% for DO
<20 NTUs for turbidity
NA for temperature

If stabilization does not occur within 2 hours, contact Site Manager for action.
If well goes dry prior to stabilization, stop, allow well to recharge, and collect sample.

Well Casing Volume (Gal):
2" diameter well: Water column (ft.) x 0.163
4" diameter well: Water column x 0.653

WELL PURGING - FIELD WATER QUALITY MEASUREMENTS FORM

Location:

Well ID: MW-19

Field Sampling Personnel: S. Fowler

Identify Measuring Point (MP): TOC
(e.g. Top of Casing)

Depth to Screen below MP: 5.3 of screen Top — 10.3 of screen Bottom

Pump Intake at (ft. below MP): 8-10

Purging Device (Pump Type): (e.g. Dedicated pump, peristaltic pump, bailer, bladder pump, etc.)

page 1 of 1

Well Depth, (Ft.) 10.3
Depth To Water (Ft.) 6.38
Water Column (Ft.) 3.92
Well Volume (gal) 0.64

Date	Time 24 hr	Depth to Water Below MP ft	Purge Rate mL/min	pH pH units	Spec Cond. mS/cm	Turbidity NTUs	DO Flow cell mg/L	Temp. °C	Redox Potential mV	Cum. Volume Purged gallons	CHEMetrics DO mg/L (low)	Hach Ferrous Iron mg/L	Comments
12/18/14	1400	6.38	250	5.87	0.388	606	1.66	20.85	167	0			
	1405	7.02		6.09	0.391	229	1.08	20.92	151				
	1410	7.31		6.15	0.394	137	0.74	20.93	139				
	1415	7.75	150	6.15	0.397	81	0.60	20.86	15				
	1420	8.01		6.26	0.399		0.59	20.86	-72	1			
													DRY @ 1422
													LET RECHARGE AND
													SAMPLE @ 1445

Notes:
Note when "Stabilization " has occurred. Stabilization Criteria (achieved after a minimum of three successive readings):
±0.1 for pH
±10 mV for redox
±3% for specific cond.
±10% for DO
<20 NTUs for turbidity
NA for temperature

If stabilization does not occur within 2 hours, contact Site Manager for action.
If well goes dry prior to stabilization, stop, allow well to recharge, and collect sample.

Well Casing Volume (Gal):
2" diameter well: Water column (ft.) x 0.163
4" diameter well: Water column x 0.653

WELL PURGING - FIELD WATER QUALITY MEASUREMENTS FORM

Location:

Identify Measuring Point (MP): TOC
(e.g. Top of Casing)

page 1 of 1

Well ID: PZ-2
Field Sampling Personnel: S. FOLEY

Depth to Screen below MP: 30 of screen Top — 35 of screen Bottom

Pump Intake at (ft. below MP): 25-35
Purging Device (Pump Type):
(e.g. Dedicated pump, peristaltic pump, bailer, bladder pump, etc.)

Well Depth, (Ft.) 35.3
Depth To Water (Ft.) 9.82
Water Column (Ft.) 25.48
Well Volume (gal) 1.03 1" Ø

Date	Time 24 hr	Depth to Water Below MP ft	Purge Rate mL/min	pH pH units	Spec Cond. mS/cm	Turbidity NTUs	DO Flow cell mg/L	Temp. °C	Redox Potential mV	Cum. Volume Purged gallons	CHEMetrics DO mg/L (low)	Hach Ferrous Iron mg/L	Comments
11/17/14	1050	9.82	250	5.55	0.371	955	4.25	19.53	14				1" Diameter
	1055	16.40		5.26	0.477	492	1.68	16.96	39				
	1100	19.95	150	5.13	0.455	104	0.38	17.88	72				
	1105	23.15		5.03	0.447	69.1	0.84	17.96	78				
	1110	26.89		5.05	0.443	57.2	0.93	18.40	95				
	1115	30.12		4.90	0.436	104	0.66	18.60	105				
	1120	32.20		4.96	0.433	117	0.62	18.48	106				
													STOPPED PUMPING @
													11:22.
													LET PZ-2 RECHARGE
													AND SAMPLED AT 1320

Notes:
Note when "Stabilization " has occurred. Stabilization Criteria (achieved after a minimum of three successive readings):
±0.1 for pH
±10 mV for redox
±3% for specific cond.
±10% for DO
<20 NTUs for turbidity
NA for temperature

If stabilization does not occur within 2 hours, contact Site Manager for action.
If well goes dry prior to stabilization, stop, allow well to recharge, and collect sample.

Well Casing Volume (Gal):
2" diameter well: Water column (ft.) x 0.163
4" diameter well: Water column x 0.653

BIOCHLOR Natural Attenuation Decision Support System

Version 2.2
Excel 2000

Legion Industries
Shallow Aquifer
Run Name

Data Input Instructions:

115 → 1. Enter value directly....or
↑ or
0.02 → 2. Calculate by filling in gray cells. Press Enter, then (C)
(To restore formulas, hit "Restore Formulas" button)
Variable* → Data used directly in model.

Test if Biotransformation is Occurring → Natural Attenuation Screening Protocol

TYPE OF CHLORINATED SOLVENT: Ethenes ◉ Ethanes ○

1. ADVECTION

Seepage Velocity*	Vs	43.0	(ft/yr)
or			
Hydraulic Conductivity	K	4.8E-04	(cm/sec)
Hydraulic Gradient	i	0.013	(ft/ft)
Effective Porosity	n	0.15	(-)

2. DISPERSION

Alpha x*	18.158	(ft)
(Alpha y) / (Alpha x)*	0.1	(-)
(Alpha z) / (Alpha x)*	1.E-99	(-)

Calc. Alpha x

3. ADSORPTION

Retardation Factor* → R

or

Soil Bulk Density, rho	1.7	(kg/L)		
FractionOrganicCarbon, foc	2.0E-3	(-)		
Partition Coefficient	Koc			
PCE	426	(L/kg)	10.66	(-)
TCE	130	(L/kg)	3.95	(-)
DCE	125	(L/kg)	3.83	(-)
VC	30	(L/kg)	1.67	(-)
ETH	302	(L/kg)	7.85	(-)
Common R (used in model)* =			**3.95**	

4. BIOTRANSFORMATION

-1st Order Decay Coefficient*

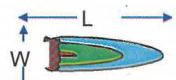
Zone 1	λ (1/yr)	half-life (yrs)	Yield
PCE → TCE	1.000		0.79
TCE → DCE	1.100		0.74
DCE → VC	1.500		0.64
VC → ETH	0.750		0.45

Zone 2	λ (1/yr)	half-life (yrs)
PCE → TCE	0.000	
TCE → DCE	0.000	
DCE → VC	0.000	
VC → ETH	0.000	

λ HELP

5. GENERAL

Simulation Time*	40	(yr)
Modeled Area Width*	200	(ft)
Modeled Area Length*	900	(ft)
Zone 1 Length*	900	(ft)
Zone 2 Length*	0	(ft)



Zone 2= L - Zone 1

6. SOURCE DATA

TYPE: Decaying Single Planar

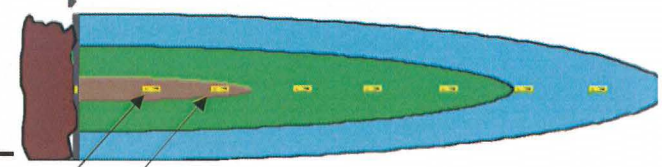
Source Options

Source Thickness in Sat. Zone* 10 (ft)

Width* (ft) Y1: 50

Conc. (mg/L)*	C1	k_s* (1/yr)
PCE	.019	0.1
TCE	8.2	0.1
DCE	2.9	0.1
VC	3.3	0.1
ETH		0.1

Vertical Plane Source: Determine Source Well Location and Input Solvent Concentrations



View of Plume Looking Down

Observed Centerline Conc. at Monitoring Wells

7. FIELD DATA FOR COMPARISON

PCE Conc. (mg/L)	.0	.0	.0								
TCE Conc. (mg/L)	.0	.0	.0								
DCE Conc. (mg/L)	.205	.0	.0								
VC Conc. (mg/L)	0.1	.012	.0								
ETH Conc. (mg/L)	0.0	.0	.0								
Distance from Source (ft)	110	350	560								
Date Data Collected	2014	2013									

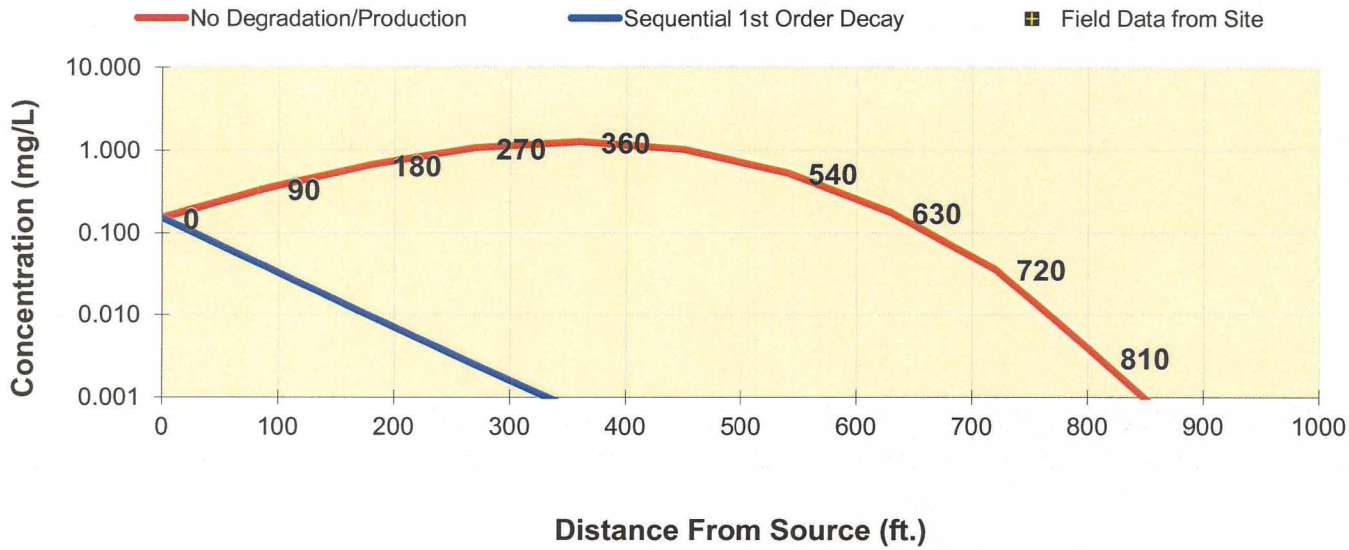
8. CHOOSE TYPE OF OUTPUT TO SEE:

RUN CENTERLINE | RUN ARRAY | Help | Restore | RESET | SEE OUTPUT | Paste

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

TCE	Distance from Source (ft)										
	0	90	180	270	360	450	540	630	720	810	900
No Degradation	0.150	0.342	0.662	1.065	1.260	1.015	0.531	0.176	0.036	0.003	0.000
Biotransformation	0.1502	0.038	0.009	0.002	0.001	0.000	0.000	0.000	0.000	0.000	0.000

	Monitoring Well Locations (ft)										
	MW-19	MW-16	MW-9								
Field Data from Site	0.000	0.000	0.000								



See PCE

See TCE

See DCE

See VC

See ETH

Prepare Animation

Time:

40.0 Years

Log ⟺ Linear

Return to Input

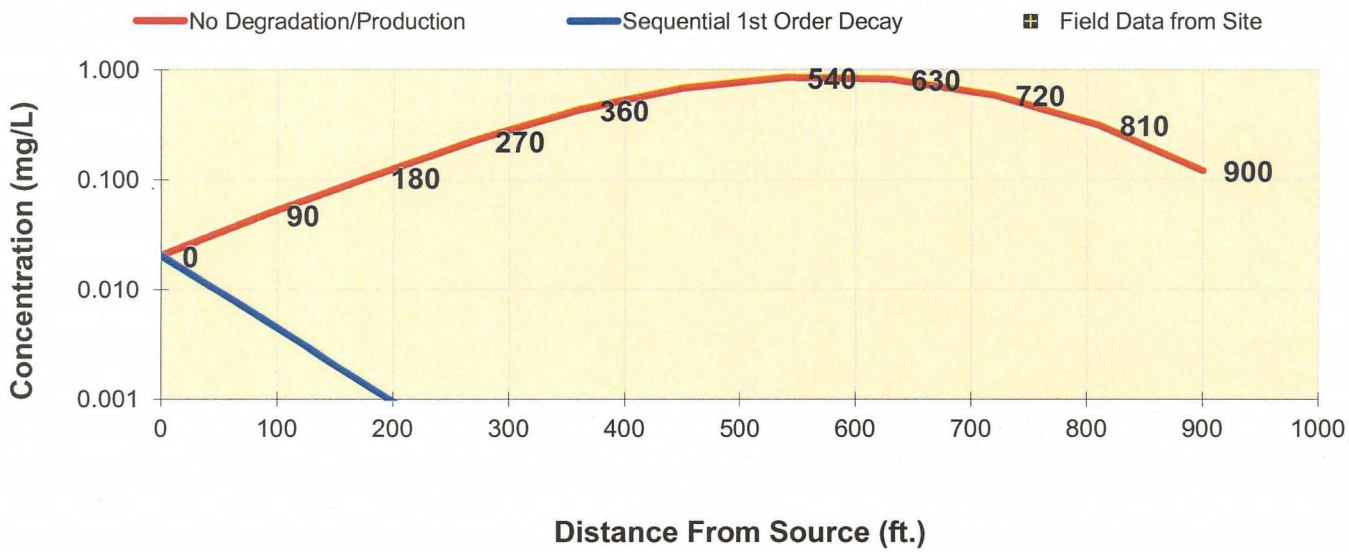
To All

To Array

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

TCE	Distance from Source (ft)										
	0	90	180	270	360	450	540	630	720	810	900
No Degradation	0.020	0.048	0.105	0.224	0.428	0.679	0.853	0.819	0.589	0.313	0.121
Biotransformation	0.0203	0.005	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

	Monitoring Well Locations (ft)										
	MW-19	MW-16	MW-9								
Field Data from Site	0.000	0.000	0.000								



See PCE

See TCE

See DCE

See VC

See ETH

Prepare Animation

Time:

60.0 Years

Log ⟺ Linear

Return to Input

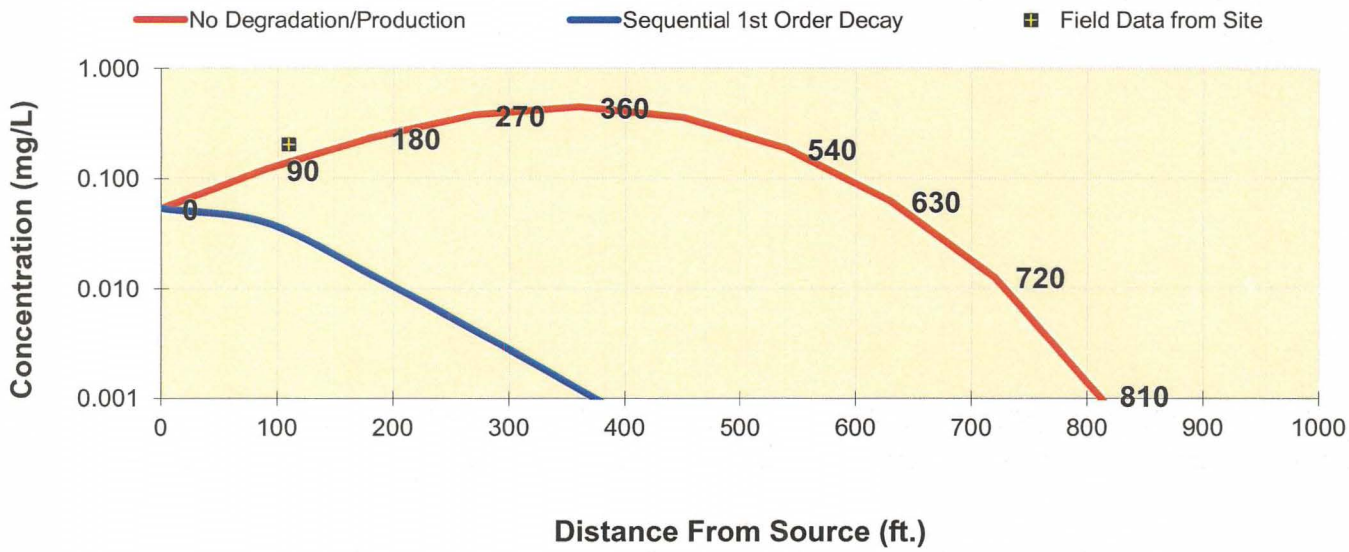
To All

To Array

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

DCE	Distance from Source (ft)										
	0	90	180	270	360	450	540	630	720	810	900
No Degradation	0.053	0.121	0.234	0.377	0.446	0.359	0.188	0.062	0.013	0.001	0.000
Biotransformation	0.0531	0.040	0.014	0.004	0.001	0.000	0.000	0.000	0.000	0.000	0.000

	Monitoring Well Locations (ft)										
	MW-19	MW-16	MW-9								
Field Data from Site	0.205	0.000	0.000								



See PCE

See TCE

See DCE

See VC

See ETH

Prepare Animation

Time:

40.0 Years

Log ⟺ Linear

Return to Input

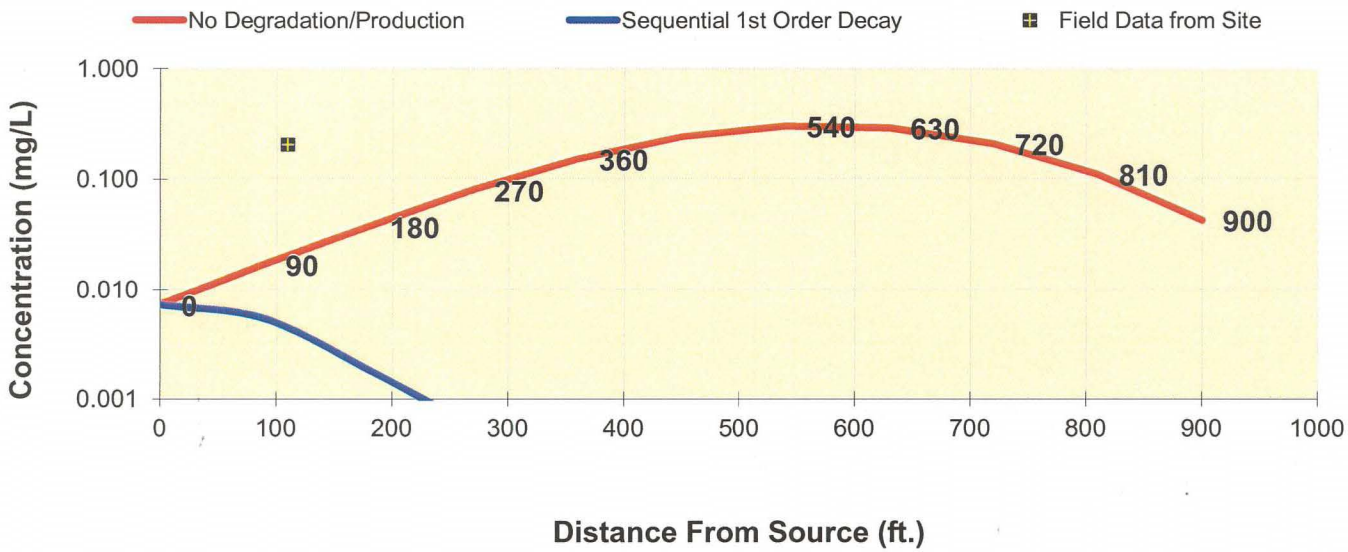
To All

To Array

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

DCE	Distance from Source (ft)										
	0	90	180	270	360	450	540	630	720	810	900
No Degradation	0.007	0.017	0.037	0.079	0.151	0.240	0.302	0.290	0.208	0.111	0.043
Biotransformation	0.0072	0.005	0.002	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000

	Monitoring Well Locations (ft)										
	MW-19	MW-16	MW-9								
Field Data from Site	0.205	0.000	0.000								



See PCE

See TCE

See DCE

See VC

See ETH

Prepare Animation

Time:

60.0 Years

Log ⟺ Linear

Return to Input

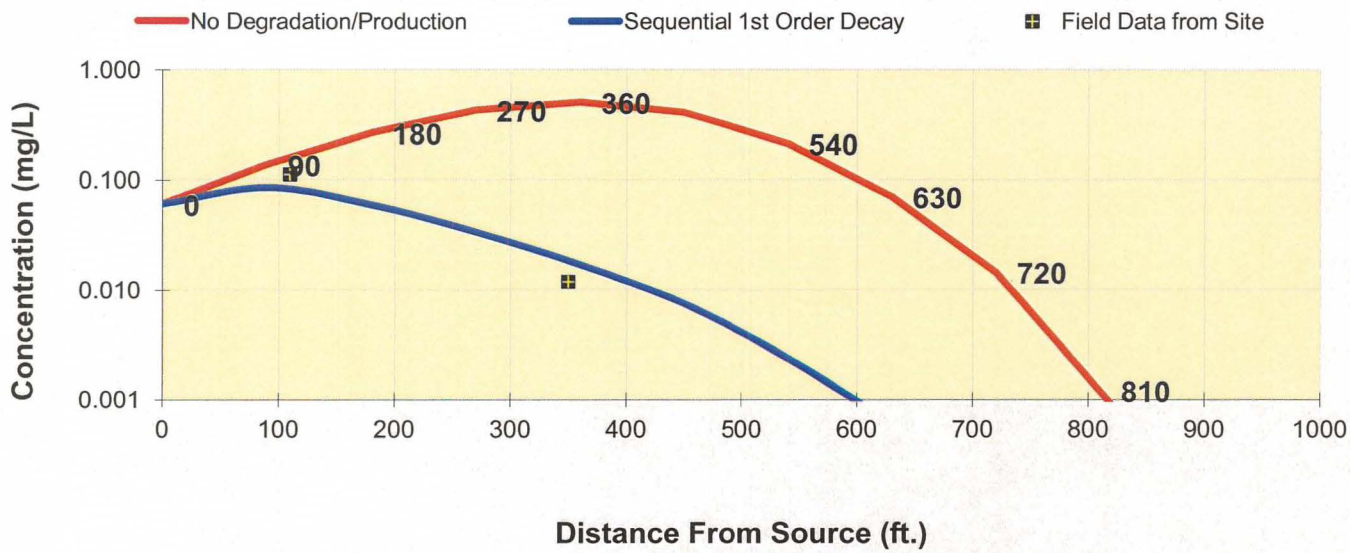
To All

To Array

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

VC	Distance from Source (ft)										
	0	90	180	270	360	450	540	630	720	810	900
No Degradation	0.060	0.138	0.266	0.429	0.507	0.408	0.214	0.071	0.015	0.001	0.000
Biotransformation	0.0604	0.085	0.059	0.034	0.017	0.007	0.002	0.001	0.000	0.000	0.000

	Monitoring Well Locations (ft)										
	MW-19	MW-16	MW-9								
Field Data from Site	0.113	0.012	0.000								



See PCE

See TCE

See DCE

See VC

See ETH

Prepare Animation

Time:

40.0 Years

Log ⟺ Linear

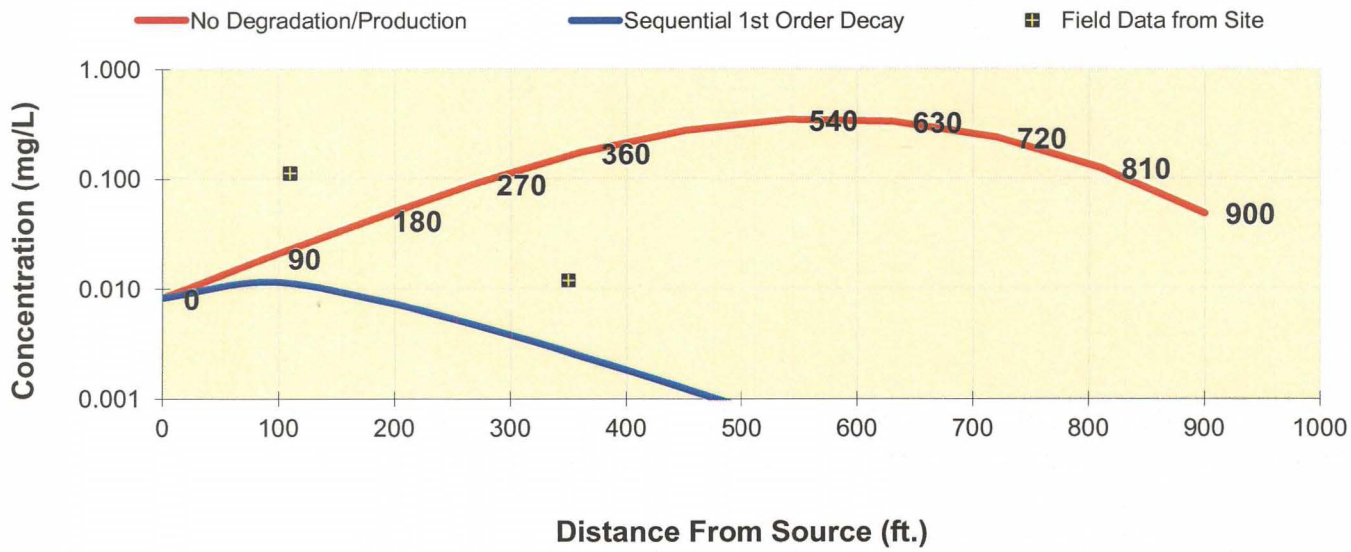
Return to Input

To All

To Array

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

VC	Distance from Source (ft)										
	0	90	180	270	360	450	540	630	720	810	900
No Degradation	0.008	0.019	0.042	0.090	0.172	0.273	0.343	0.330	0.237	0.126	0.049
Biotransformation	0.0082	0.012	0.008	0.005	0.002	0.001	0.001	0.000	0.000	0.000	0.000
	Monitoring Well Locations (ft)										
	MW-19	MW-16	MW-9								
Field Data from Site	0.113	0.012	0.000								



See PCE

See TCE

See DCE

See VC

See ETH

Prepare Animation

Time:

60.0 Years

Log ⟺ Linear

Return to Input

To All

To Array

BIOCHLOR Natural Attenuation Decision Support System

Version 2.2
Excel 2000

Legion Industries
Intermediate Aquifer
Run Name

Data Input Instructions:

115 → 1. Enter value directly....or
↑ or
0.02 → 2. Calculate by filling in gray cells. Press Enter, then (C)
(To restore formulas, hit "Restore Formulas" button)
Variable* → Data used directly in model.

Test if Biotransformation is Occurring → Natural Attenuation Screening Protocol

TYPE OF CHLORINATED SOLVENT: Ethenes ◉ Ethanes ○

1. ADVECTION

Seepage Velocity*	Vs	38.6	(ft/yr)
or			
Hydraulic Conductivity	K	2.8E-04	(cm/sec)
Hydraulic Gradient	i	0.02	(ft/ft)
Effective Porosity	n	0.15	(-)

2. DISPERSION

Alpha x*	10	(ft)
(Alpha y) / (Alpha x)*	0.1	(-)
(Alpha z) / (Alpha x)*	1.E-99	(-)

Calc. Alpha x

3. ADSORPTION

Retardation Factor* → R

or

Soil Bulk Density, rho	1.7	(kg/L)		
FractionOrganicCarbon, foc	7.0E-4	(-)		
Partition Coefficient	Koc			
PCE	426	(L/kg)	4.38	(-)
TCE	130	(L/kg)	2.03	(-)
DCE	125	(L/kg)	1.99	(-)
VC	30	(L/kg)	1.23	(-)
ETH	302	(L/kg)	3.40	(-)
Common R (used in model)* =			**2.03**	

4. BIOTRANSFORMATION

-1st Order Decay Coefficient*

Zone 1

	λ (1/yr)	half-life (yrs)	Yield
PCE → TCE	1.000		0.79
TCE → DCE	0.500		0.74
DCE → VC	1.500		0.64
VC → ETH	0.750		0.45

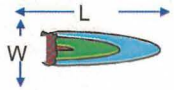
Zone 2

	λ (1/yr)	half-life (yrs)
PCE → TCE	0.000	
TCE → DCE	0.000	
DCE → VC	0.000	
VC → ETH	0.000	

λ HELP

5. GENERAL

Simulation Time*	40	(yr)
Modeled Area Width*	200	(ft)
Modeled Area Length*	500	(ft)
Zone 1 Length*	500	(ft)
Zone 2 Length*	0	(ft)



Zone 2= L - Zone 1

6. SOURCE DATA

TYPE: Decaying Single Planar

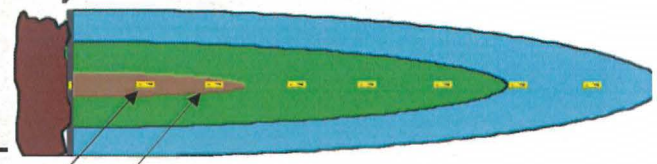
Source Options

Source Thickness in Sat. Zone* 10 (ft)

Width* (ft) Y1 50

Conc. (mg/L)*	C1	k_s* (1/yr)
PCE	.0	0.1
TCE	57.0	0.1
DCE	8.0	0.1
VC	2.2	0.1
ETH		0.1

Vertical Plane Source: Determine Source Well Location and Input Solvent Concentrations



View of Plume Looking Down

Observed Centerline Conc. at Monitoring Wells

7. FIELD DATA FOR COMPARISON

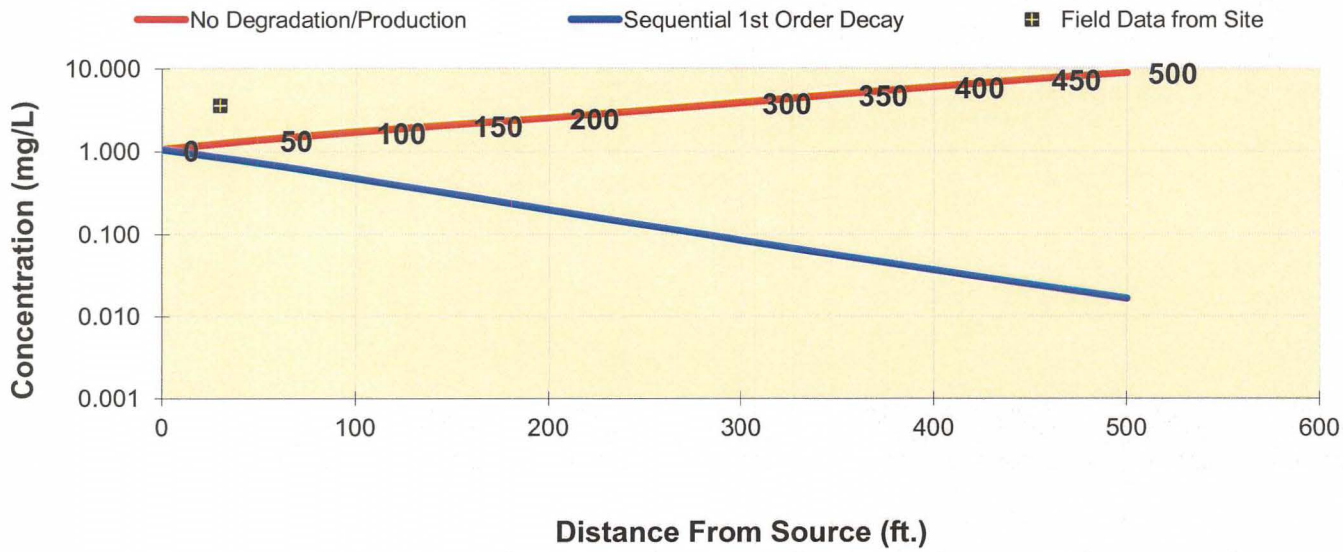
PCE Conc. (mg/L)	.0	.0									
TCE Conc. (mg/L)	3.59	.0									
DCE Conc. (mg/L)	1.71	.077									
VC Conc. (mg/L)	0.8	.088									
ETH Conc. (mg/L)	0.0	.0									
Distance from Source (ft)	30	215									
Date Data Collected	2014	2013									

8. CHOOSE TYPE OF OUTPUT TO SEE:

RUN CENTERLINE | RUN ARRAY | Help | Restore | RESET | SEE OUTPUT | Paste

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

TCE	Distance from Source (ft)										
	0	50	100	150	200	250	300	350	400	450	500
No Degradation	1.044	1.362	1.682	2.049	2.508	3.093	3.841	4.793	5.960	7.363	8.907
Biotransformation	1.0440	0.720	0.470	0.303	0.196	0.128	0.084	0.056	0.037	0.025	0.016
	Monitoring Well Locations (ft)										
	MW-19	MW-16	MW-9								
Field Data from Site	3.590	0.000									



See PCE

See TCE

See DCE

See VC

See ETH

Prepare Animation

Time:

40.0 Years

Log ⟺ Linear

Return to Input

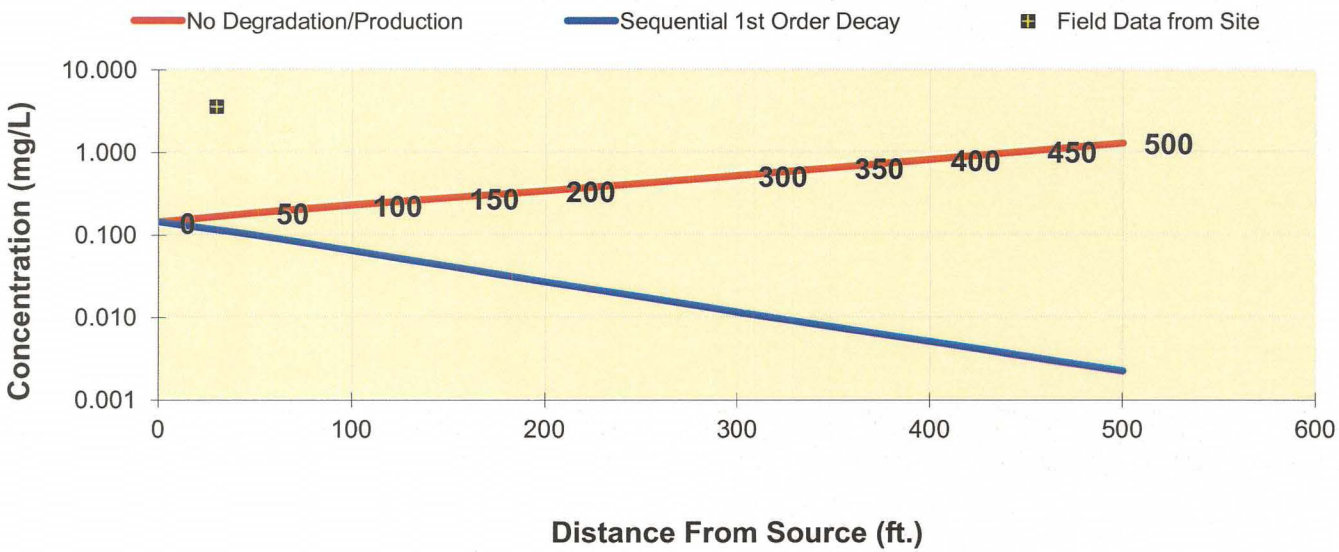
To All

To Array

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

TCE	Distance from Source (ft)										
	0	50	100	150	200	250	300	350	400	450	500
No Degradation	0.141	0.184	0.228	0.277	0.339	0.419	0.520	0.650	0.817	1.031	1.305
Biotransformation	0.1413	0.097	0.064	0.041	0.027	0.017	0.011	0.008	0.005	0.003	0.002

	Monitoring Well Locations (ft)										
	MW-19	MW-16	MW-9								
Field Data from Site	3.590	0.000									



See PCE

See TCE

See DCE

See VC

See ETH

Prepare Animation

Time:

60.0 Years

Log ⟺ Linear

Return to Input

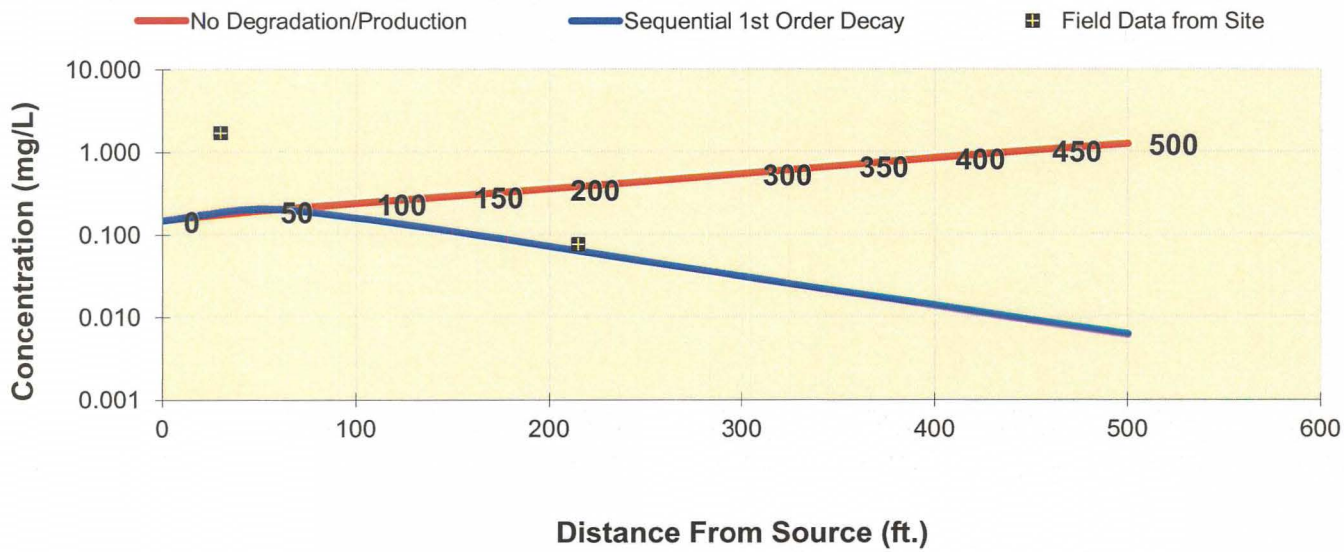
To All

To Array

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

DCE	Distance from Source (ft)										
	0	50	100	150	200	250	300	350	400	450	500
No Degradation	0.147	0.191	0.236	0.288	0.352	0.434	0.539	0.673	0.837	1.033	1.250
Biotransformation	0.1465	0.203	0.158	0.108	0.071	0.047	0.031	0.020	0.014	0.009	0.006

	Monitoring Well Locations (ft)										
	MW-19	MW-16	MW-9								
Field Data from Site	1.710	0.077									



See PCE

See TCE

See DCE

See VC

See ETH

Prepare Animation

Time:

40.0 Years

Log ⟺ Linear

Return to Input

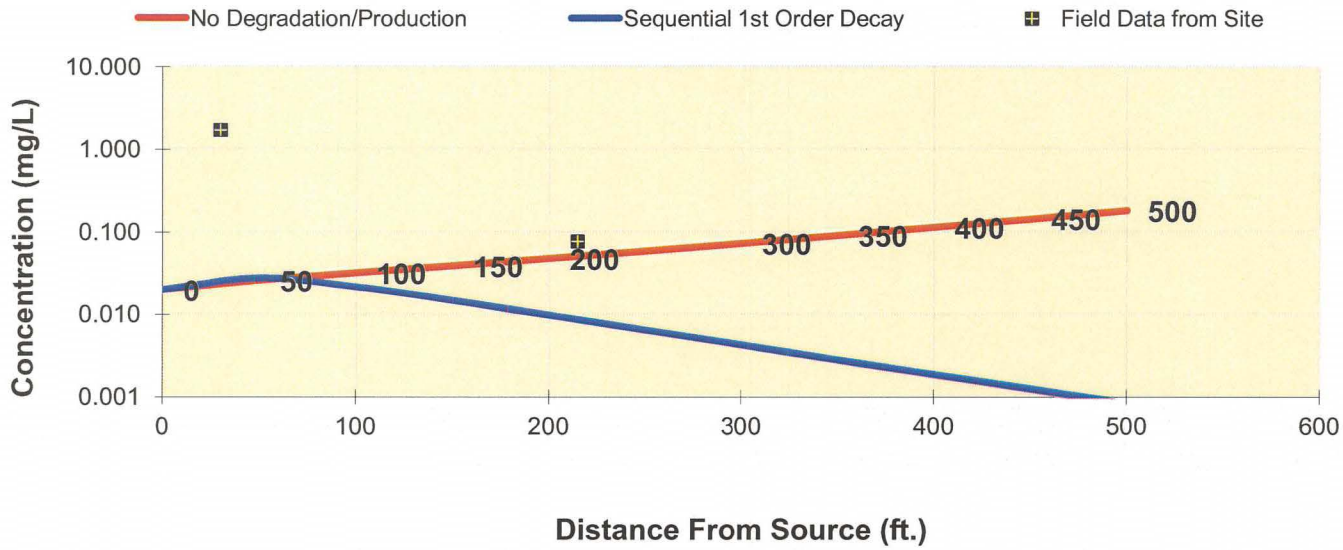
To All

To Array

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

DCE	Distance from Source (ft)										
	0	50	100	150	200	250	300	350	400	450	500
No Degradation	0.020	0.026	0.032	0.039	0.048	0.059	0.073	0.091	0.115	0.145	0.183
Biotransformation	0.0198	0.027	0.021	0.015	0.010	0.006	0.004	0.003	0.002	0.001	0.001

	Monitoring Well Locations (ft)										
	MW-19	MW-16	MW-9								
Field Data from Site	1.710	0.077									



See PCE

See TCE

See DCE

See VC

See ETH

Prepare Animation

Time:

60.0 Years

Log ⟺ Linear

Return to Input

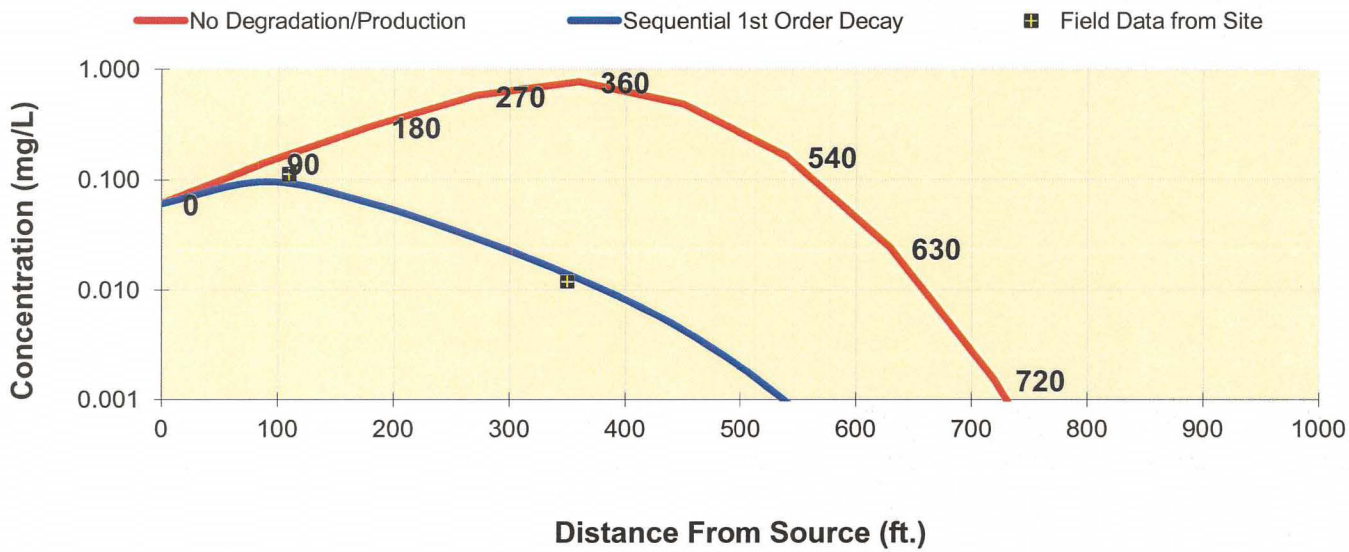
To All

To Array

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

VC	Distance from Source (ft)										
	0	90	180	270	360	450	540	630	720	810	900
No Degradation	0.060	0.142	0.302	0.573	0.769	0.482	0.162	0.024	0.002	0.000	0.000
Biotransformation	0.0604	0.095	0.061	0.030	0.013	0.004	0.001	0.000	0.000	0.000	0.000

	Monitoring Well Locations (ft)										
	MW-19	MW-16	MW-9								
Field Data from Site	0.113	0.012	0.000								



See PCE

See TCE

See DCE

See VC

See ETH

Prepare Animation

Time:

40.0 Years

Log ⟺ Linear

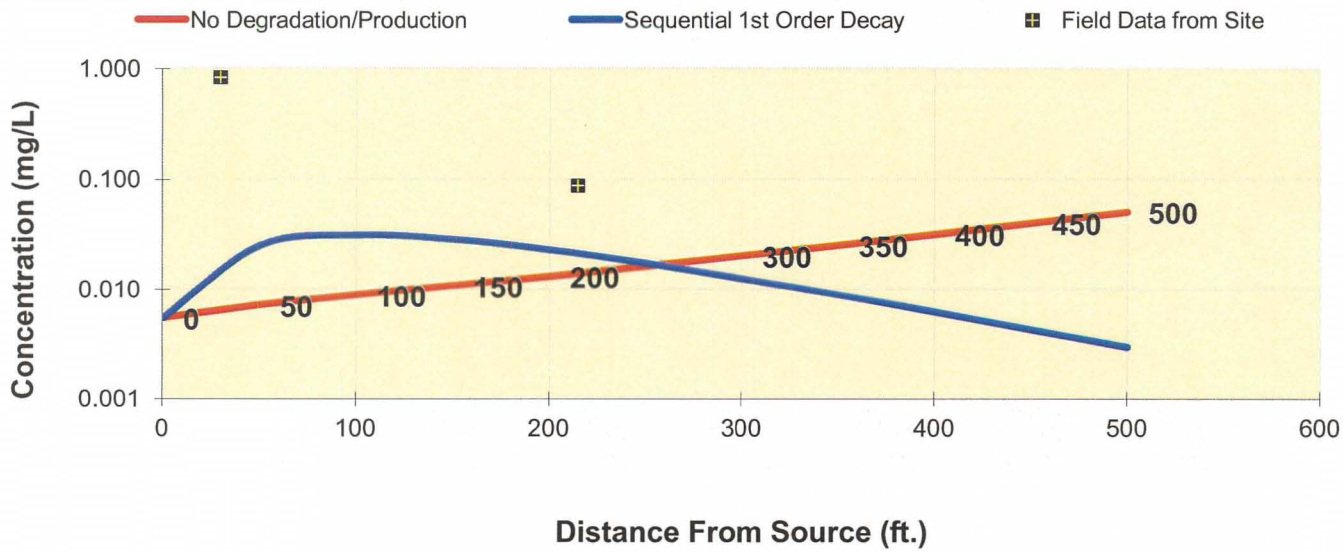
Return to Input

To All

To Array

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

VC	Distance from Source (ft)										
	0	50	100	150	200	250	300	350	400	450	500
No Degradation	0.005	0.007	0.009	0.011	0.013	0.016	0.020	0.025	0.032	0.040	0.050
Biotransformation	0.0055	0.025	0.031	0.029	0.023	0.017	0.012	0.009	0.006	0.004	0.003
	Monitoring Well Locations (ft)										
	MW-19	MW-16	MW-9								
Field Data from Site	0.838	0.088									



See PCE

See TCE

See DCE

See VC

See ETH

Prepare Animation

Time:

60.0 Years

Log ⟺ Linear

Return to Input

To All

To Array