REMEDIAL INVESTIGATION REPORT

PARCEL ID#09084036

4029 STITT STREET
MONROE, NORTH CAROLINA

Prepared for:

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1.0 INTRODUCTION

1.1 SITE LOCATION

Parcel ID#09084036 (Parcel) is located at 4029 Stitt Street, in Monroe, North Carolina (see Figure 1). The subject site is located in a mixed commercial, residential, and light industrial area on the east side of Monroe. The site consists of one generally rectangular-shaped parcel of land that is located adjacent to Stitt and Spud Smith Streets (the southern portion), and an attached almost triangular portion of the parcel extending north toward Walkup Avenue (the northern portion). This parcel is identified by Union County as Parcel Identification #09084036.

The site straddles a north-northeast trending topographic ridge that gently declines in elevation toward both a drainage feature that parallels Spud Smith Street to the west; and also toward the east (see Figure 1). Toward the northern portion of the Parcel the topographic ridge lies almost along the western property boundary. In this area the topography gently declines toward the east and west from this topographic ridge. Surface water in the drainage feature immediately west of Spud Smith Street is intermittent and flows toward the north. The western and southern property boundaries are adjacent to Spud Smith and Stitt Streets, respectively. South of the Parcel and south of Stitt Street the topography exhibits a gentle decline toward the south.

1.2 SITE HISTORY

In late 2009 a Phase I report was completed for the adjacent parcel located north and west of Parcel #09084036. This report was made available to Shield Engineering, Inc. (Shield) by Cooper Tools LLC. Based on this report several recognized areas of concern were identified at the adjacent site to the northwest.

Based a review of this Phase I report, the earliest source of historical information reasonably ascertainable for this parcel was a 1961 aerial photograph that showed the subject site as vacant, open fields (possibly used for agricultural purposes) and woodlands. The agricultural land consisted of a wide swath of land trending northeast-southwest through the southern portion and

the northern portion of the parcel, across the adjacent site before the plant was built in 1969. In the aerial photograph for 1969 a residence had been constructed in the southern portion of the parcel. This residence has egress and ingress to Stitt Street. Additionally a small dam had been constructed in the center of the southern rectangular portion of the parcel, across a drainage swale that emanates from this parcel and flows toward the northwest. By the 1993 aerial photograph it appears that the dam had been breached. The area in the vicinity of the former dam has now largely overgrown. The residence is still located on the parcel. Based on the aerial photographs there never has been any indication of any industrial activity being carried out on this parcel since 1961.

1.3 DESCRIPTION OF SITE

Today the parcel is covered with trees and woodlands. The site of the former dam and the reservoir has completely overgrown. Those portions of the parcel that were agricultural have all reverted back to woodlands. A power line easement oriented east-west is located along the northern edge of the southern portion of the parcel. This power line easement was evident in the 1961 aerial photograph.

Based on the Phase I report for the adjacent site to the northwest, the following recognized area of concern was previously identified in connection with the site:

- Bloomsburg Mills, located at 3000 Stitt Street, south of the subject parcel (see Figure 2), is identified on the SHWS, IMD, UST, LUST, LUST TRUST, and FINDS databases. This property is located in an inferred hydrologically upgradient location from the subject site. Impacts of chlorinated solvents to groundwater were reported and the property is undergoing voluntary cleanup. Based on the plant's proximity to the subject parcel, inferred upgradient hydrologic location, and SHWS and LUST status, this property represents a recognized possible area of concern to the parcel.

A Phase II remedial investigation has been completed for the adjacent parcel currently owned by Cooper Tools, Inc. (Shield, 2011). The scope of work was designed to conduct investigative work on this parcel. Hence, Shield proposed seven borings and monitoring wells located on the parcel in the vicinity of the adjacent areas of concern. The remedial investigative work presented herein

includes the results for the seven borings and monitoring wells installed as part of the investigation for this parcel.

2.0 SITE INVESTIGATION PROCEDURES

Investigations at this site were conducted in both soil and groundwater. This section describes the investigative procedures used for the soil and groundwater investigations. The drilling methods, well design, installation procedures, well construction materials, and boring logs are provided in this section.

2.1 INVESTIGATION PROCEDURES

Soil borings were drilled at each of the monitoring well locations shown in Figure 2. Boreholes were drilled with a nominal 6-inch diameter air hammer bit to advance the borehole. During each soil and rock boring, samples were collected at 5-foot intervals. Samples of drill cuttings were assessed by an Organic Vapor Analyzer (OVA) for the presence of volatile organic compounds (VOCs). The purpose of these OVA measurements was to enable the preliminary field identification of the presence of VOCs within subsurface soils that may necessitate the addition of another monitoring well or moving a well location. Additionally, the presence of elevated OVA readings would also necessitate the collection of the drill cuttings for analysis in the laboratory.

2.2 GROUNDWATER INVESTIGATION PROCEDURES

Groundwater monitoring wells were installed in each of the boreholes. The total depth of each of these boreholes was determined by encountering the presence of groundwater. The type of bedrock known to be present in this area is relatively unfractured and groundwater tends to be slow in entering boreholes and to recharge boreholes/wells. Therefore for each borehole the drilling was usually completed whenever water or moisture from a water-producing fracture was first encountered. However, as expected many of the boreholes only had dust emanating from the borehole during the drilling. Hence, most of these boreholes were advanced down to about the 40-foot depth and then the borehole was left open for a short period of time in order to determine the presence of groundwater. If groundwater was not evident after some period of time then the borehole was advanced 5 or 10 feet further, in stepwise fashion till groundwater was encountered.

A total of seven monitoring wells were installed in the drilling around the parcel. The construction details for the monitoring wells are provided in Table 1. Boring logs were prepared

for these monitoring wells. A description of the stratigraphy encountered in these monitoring wells is also provided on the boring log for each of the monitoring wells (see Appendix A).

The monitoring wells were constructed with a single PVC well casing with a 10-foot long PVC slotted well screen. The well screens were sanded within the annular space from the bottom of the borehole up to about two feet above the well screen. The top of the sand pack was capped with about four or five foot-thick zone of bentonite in the annular space. The wells were finished off with a grout seal in the annular space from the top of the bentonite up to ground surface.

The relative elevations of the wells and ground surface at each of the monitoring wells were surveyed; their locations are approximate and are shown on Figures 2 through 5.

In general prior to collecting groundwater samples from each of the monitoring wells, the well is purged of a minimum of three volumes of groundwater measured in each well. However, due to slow recharge at this site, only two of the monitoring wells (i.e., PMW-2 and PMW-6) were capable of sustaining sufficient recharge to enable the removal or purging of three well volumes of groundwater prior to the sampling of the wells. After purging the well, the groundwater sample was collected for shipping to the laboratory for analysis of the requested parameters.

3.0 FIELD AND LABORATORY QUALITY CONTROL AND QUALITY ASSURANCE PROCEDURES

The field and laboratory quality control and quality assurance procedures used are outlined in Sections 3.1 and 3.2, respectively.

3.1 FIELD

Sampling events have been completed according to procedures and methods outlined in the following document:

- Region 4 Science and Ecosystem Support Division (SESD) Operating Procedure for Groundwater Sampling (SESD Operating Procedure) (EPA, 2007). The SESD Operating Procedure is part of the "Field Branches Quality System and Technical Procedures" document which contains field sampling and measurement procedures and quality control documents used by the two SESD Field Branches: the Ecological Assessment Branch and the Enforcement and Investigations Branch. The Field Branches Quality System and Technical Procedures series of procedures supersedes EPA's Environmental Investigations Standard Operating Procedures Quality Assurance Manual;

The meters used to collect the field parameters were calibrated in the field as required per the manufacturer's specifications. The following field parameters were collected during the purging of each monitoring well: pH, dissolved oxygen, oxygen reduction potential, specific conductivity, and temperature.

Groundwater sampling was performed with QA/QC procedures described below, and included the collection of equipment blanks, field blanks, and a duplicate sample. As indicated above, the sampling work was performed in a manner consistent with the SESD Operating Procedure and in Appendix A of the document entitled "*Registered Environmental Consultant [REC] Program Implementation Guidance*". Field quality control groundwater samples consisted of the following: (i) a minimum of one (1) duplicate sample; (ii) an equipment rinsate blank of the tubing or bailer used for sampling groundwater; (iii) one VOC trip blank; and (iv) one field blank

per field day. Field blanks for groundwater samples consisted of distilled water used for equipment rinsing.

Preservatives were added to the empty sample containers by the laboratory prior to shipment to the Site. Water samples were preserved on ice to maintain a temperature less than 4 °C. Following the completion of a sampling event, the samples were wrapped in protective packing and placed into shipping containers. Each sampling container was transported with appropriate chain-of-custody documents included in the shipping container. Each sample container was securely sealed, clearly labeled and driven to the laboratory.

The chain-of-custody form is an accurate written record used to trace possession and handling of the samples from the moment of collection through laboratory analysis.

3.2 LABORATORY

ENCO Laboratories, Inc. (ENCO) performed the laboratory analyses for the sampling event completed on September 8, 2011. Laboratory reports include documentation of personnel, QA/QC, method detection limits, dilution factors, hold times, and analytical methodology. The quantification limits were at the EPA Method Detection Limits. The laboratory reports are included in Appendix B.

The proposed list of analytical methods for groundwater samples was derived from the list of constituents identified at nearby properties as follows:

- volatile organic compunds;
- hexavalent chromium;
- mercury; and
- priority pollutant metals.

The water and soil samples were analyzed by USEPA Methods as follows:

• Volatile Organic Compounds (VOCs)	Method 8260B
• Priority Pollutant Metals	Various Methods
• Hexavalent Chromium	Method 7196A

- Mercury Method 7470A
- Polychlorinated Biphenyls (PCBs) (soil samples only) Method 8082A

During the investigation at this site, the drill cuttings from all of the soil borings and monitoring wells were retained and stored at the Site for future sampling and disposal. Development water from the development of each of the monitoring wells was retained in drums at the site. Additionally, during the sampling event purge water from the monitoring wells was also retained and stored at the Site for future sampling and disposal. Materials classified as investigation-derived waste (IDW) at the Site included the following:

- personal protective equipment (PPE), which included disposable Tyvek™ coveralls and nitrile gloves;
- soil cuttings from soil borings;
- drill cuttings from well installations;
- water from well drilling;
- disposable equipment which included rope, tubing, miscellaneous sample jars/containers, and the like;
- purge water from well sampling; and
- decontamination wash water, solvents, and rinse water.

All IDW was containerized in appropriate containers at the Site for temporary storage. As drilling progressed for each of these wells the material recovered from the borehole included groundwater and cuttings from the bedrock. These materials were retained inside a plastic lined pit around the well head. The water was pumped from these pits into drums for the storage and disposal. The cuttings recovered from these pits were also removed and placed into 55-gallon drums. These drums were grouped together and are currently retained in northeast corner of the parking lot of the adjacent site, for future disposal. There are approximately 13 drums of drill cuttings and drill water, development and purge water from the sampling of the monitoring wells at the site. The disposal of these drums is dependent on the analytical results from the groundwater samples collected from the monitoring wells.

4.0 GEOLOGIC CONDITIONS

Section 4 provides a description of site geologic conditions, with an overall regional description of the geology outlined in Section 4.1 and the local geology described in Section 4.2.

4.1 REGIONAL GEOLOGY

The Site is located in the Piedmont Physiographic Province (Piedmont), an area underlain by ancient igneous and metamorphic rocks. These rocks commonly have a mantle of residual soil (also known as residuum) overlying the bedrock (LeGrand, 1988). The Piedmont is a generally northeast-trending physiographic province. This province is primarily underlain by several geologic zones or belts of plutonic rocks and low-grade to high-grade metamorphic rocks. Geologists have subdivided the Piedmont into four parallel geologic belts from east to west: Carolina Slate, Charlotte, King's Mountain, and Inner Piedmont. The site is located in the Carolina Slate Belt, a northeast trending band of volcanic, sedimentary, and metamorphic rocks that extend from central Virginia, across North and South Carolina and into eastern Georgia within the eastern and central Piedmont (Floyd, 1965; Hibbard and others, 2002). The group of related formations within this belt comprises the Carolina Terrane, which consists of low-grade meta-igneous and associated meta-sedimentary rocks (NCDWQ, 2009).

The Carolina Terrane is comprised of four meta-volcanic-dominated sequences: the Albemarle sequence in North Carolina; the South Carolina sequence in South Carolina and southeast Georgia; and the Cary sequence in eastern North Carolina. The area of the site is within the Albemarle sequence that is interpreted to have formed above the continental crust during the Neoproterozoic through the Cambrian Eras. Within this sequence is the Albemarle Group consisting of interbedded meta-mudstones and meta-siltstones (argillites) with lenses of felsic tuff. The Cid Formation portion of this group underlies the site proper and is characterized by thicker-bedded versions of these rocks containing more felsic and mafic volcanic members than underlying formations of the Albemarle Group (Tillery and Uwharrie) (NCDWQ, 2009; Hibbard and others, 2002; Brown and Parker, 1985; Randazzo, 1972).

Structurally the Carolina Terrane rock series have been folded in a series of northeastern-trending major and minor synclines and anticlines that show several minor faults and displacements (Goldsmith and others, 1988; Randazzo, 1972). The Troy anticlinorium, extending from central Randolph County through Union County into South Carolina, is a major structural feature defining the regional geology in the vicinity of the site. These larger structures have wavelengths of ten to fifteen miles, and within them are sub-series of smaller synclines / anticlines (defining the anticlinorium term) all created from the same deformational compressive forces that created the major structures. There are two major faults in the area (Brown and Parker, 1985; Floyd, 1965); ten miles to the west is the Gold Hill Fault and 18 miles to the east is the Jonesboro Fault.

The virgin soils encountered in this area are the residual product of in-place chemical weathering of rock, which was similar to the rock presently underlying the Site. In areas not altered by erosion or disturbed by human activities, the typical residual soil profile consists of clayey soils near the surface, where soil weathering is more advanced, underlain by sandy silts and silty sands. The boundary between soil and rock is gradational. These residual soils retain a relic structure within their cross-section and can be identified in soil borings. This gradational zone is termed "partially weathered rock" and is normally found overlying the parent bedrock. Partially weathered rock is defined, for engineering purposes, as residual material with standard penetration resistances in excess of 100 blows per foot. Weathering is facilitated by fractures, joints and by the presence of less resistant rock types. Consequently, the profile of the partially weathered rock and hard rock is quite irregular and erratic, even over short horizontal distances. Also, it is not unusual to find lenses and boulders of hard rock and zones of partially weathered rock within the soil mantle, above the general bedrock surface. The uppermost soils within the flood plains of streams often are alluvial (water-deposited) materials.

4.2 SITE GEOLOGY

Two thirds of Union County, including the site area, is underlain by rocks and related overlying weathered residuum of the Cid Formation. The interbedded meta-mudstones and meta-siltstones (argillites) with lenses of felsic tuff rocks of this formation are moderately indurated highly compact sedimentary rock types of volcaniclastic to pyroclastic origin that have been slightly metamorphosed to at least greenschist facies. These rocks consist largely or wholly of particles of

clay or silt but lack the level of induration/fissility of shale or the cleavage characteristic of the more metamorphic slate. Within these rock layers is the presence of felsic tuff lenses. Some recent authors have interpreted this portion of the Cid Formation underlying the site to be the "mudstone member". It is our opinion that due to the documented metamorphic facies for the formations present and observed rock material in the borings that the rock descriptions including "meta-sedimentary" and "argillaceous" terms used herein are appropriate versus mudstone and therefore will be preferentially applied. Within the joint/fracture planes diagenetic or metamorphic pyrites are present as laths, granules, crusts, or disseminated in the rock (NCDWQ, 2009).

Structurally, based on Goldsmith, Randazzo, and others (1988, 1972) the site is located near the northwestern limb of the Troy Anticlinorium, the most extensive structural unit in the area. Due to the presence of smaller syn-and anticlinal structures in the area, and based on publications for nearby study areas (NCDWQ, 2009), fracture/joint/bedding planes at the Site would be expected to have varying dip directions that would range from near horizontal to greater than70 degrees. In addition, multiple joint and fracture sets are present in the site area based on boring descriptions, and review of LiDar (Light Detection and Ranging) data for the site area showing extensive lineations with orientations in the northeast-southwest, east-west, and north-south directions many of which are, as would be anticipated, associated with surface water features. The LiDar data indicate minimal lineations on the site proper, with the most dominant ones located in the southern quarter of the site parcel.

All of the monitoring wells installed at the Site were finished in bedrock. Some of these wells penetrated seams of soft bedrock before encountering hard bedrock (see Appendix A). The depth to hard bedrock at the Site ranges from 5 to more than 25 feet below ground surface and averages about 16 feet below ground surface. Because of the shallow depth to bedrock, the wells had to be drilled with an air rotary drill rig.

5.0 HYDROGEOLOGIC CONDITIONS

This section describes the hydrogeologic conditions in the region and at the site, with an overall regional description of the hydrogeology outlined in Section 5.1 and the local hydrogeology based on site specific data is described in Section 5.2. Current uses of the groundwater in the area are described herein. The depth-to-groundwater measurements the groundwater elevation data are presented in Table 2. Groundwater elevation contour map for the aquifer underlying the site, with groundwater flow patterns is included.

5.1 REGIONAL HYDROGEOLOGY

Average precipitation for most of the Piedmont is approximately 45 inches per year, which is fairly evenly distributed throughout the year (LeGrand, 1988). Drainage is facilitated by a close or tight network of perennial streams (LeGrand, 1988). Within the Piedmont several distinguishing factors differentiate the hydrogeology of this physiographic province from the hydrogeology of other provinces.

- The first factor is the relative unimportance of stratigraphy for determining presence of groundwater within the subsurface. Typically, most physiographic provinces exhibit a strong relationship between stratigraphic units and the presence of groundwater (e.g., Atlantic Coastal Plain). A feature of the Piedmont is the prevailing mantle of residual soil and saprolite that covers the bedrock in most places (LeGrand, 1988). This mantle varies in thickness and, in a sense, represents a special geologic unit that crosses various types of underlying rock, and is a true hydrogeologic unit that has an important role to play with respect to groundwater in the Piedmont (LeGrand, 1988). In general, a thick soil and saprolite zone suggests that the underlying rock is fractured, while a thin soil and saprolite zone suggests less than normal fracturing and, therefore, lower than normal hydraulic conductivity.

- A second factor that distinguishes the Piedmont from other provinces is the fracture-type permeability that characterizes the rock. The presence of fracturing within the bedrock transcends the type of rock (LeGrand, 1988). Groundwater flow within the saturated subsurface can be characterized by a composite two-media system that consists of intergranular medium overlying fractured bedrock. Both the rocks and consolidated sedimentary deposits of the Piedmont tend to be fractured to some extent, usually no deeper than several hundred feet below ground surface (LeGrand, 1988).

These fractures and other secondary openings are the primary avenues for movement of groundwater in the bedrock. Fracture density does exhibit a decline with depth, though some fractures can extend to considerable depth. Most fractures exhibit a decrease in size and number with increasing depth below ground surface (LeGrand, 1988). Because of the decreased density of fractures with increasing depth, the base of the groundwater system is indistinct, but within the Piedmont generally fractured rock grades into unfractured rock below the 300-foot depth (LeGrand, 1988). Unweathered and unfractured rocks have low porosity and low hydraulic conductivity (Heath, 1980). Therefore, the quantity of groundwater that the bedrock can transmit to wells is determined by the density, capacity, and interconnectivity of these fractures and other secondary openings. Groundwater movement in the meta-mudstone/argillite portion of the Cid Formation appears to be mainly along bedding planes, joints, and fractures (DWQ, 2009).

- A third factor unique to Piedmont hydrogeology, that is, a surface drainage basin that contains a perennial stream (i.e., flows year round), represents an entity that is useful for descriptions of groundwater conditions. Each drainage basin, in a general way, is a unit that is isolated from, yet is similar to, the adjacent drainage basins (LeGrand, 1988).

Certain structural, stratigraphic and topographic features are associated with increased fracturing of the rock, which influences well yields. However, over the long-term, wells withdrawing water from the fractures, after the initial storage of water is exhausted, no matter how large the initial yield, can withdraw water only at the rate the water is recharged to the fractures. The water stored in the overlying saprolite and soil is the principal source of recharge to the fractured bedrock. The groundwater in the saprolite and fractured bedrock is hydraulically connected and therefore can be described as contiguous (Heath, 1989).

Topographically dependent flow models first espoused by Toth (Freeze and Cherry, 1979) can best describe the ground water flow in the Piedmont. The upland slopes (e.g., ridges and hilltops) are recharge areas, whereas rivers and creek beds represent discharge areas for ground water. Hence the water table is a somewhat subdued reflection of the topography (LeGrand, 1988). Wherever ground water discharges to a surface stream on a continuous basis the stream is defined as a perennial stream. Similarly intermittent discharge by ground water to ground surface creates an intermittent stream (i.e., only flows on occasions, such as after rainfall events or during seasonal high water tables in the late winter to early summer). Springs can occur in upland areas

under certain conditions, such as thin soil mantle, or presence of shallow confining horizons (e.g., clay).

The annual cycle for ground water elevations exhibits the lowest ground-water elevations in the fall (typically October) and the highest ground water elevations in the spring, just before leaf-out of the vegetation (typically April).

In general adequate supplies of ground water are available for domestic users and in some cases, even industrial and municipal supply in the area around the Site (Floyd, 1965). Data on 135 water supply wells in the area indicate that the well yield per foot decreases for wells with a depth of more than about 150 feet below ground surface (Floyd, 1965). The average yield for these wells is 14.1 gallons per minute (gpm) and the average depth is 138 feet below ground surface. The total depth for each of these wells ranges from 33 to 397 feet below ground surface. Only six wells of these wells have depths exceeding the 300-foot depth below ground surface (Floyd, 1965).

The best yields have been obtained from wells drilled in draws or valleys (Floyd, 1965). Because of its areal extent the tuffaceous argillite is the most important aquifer in the area around the Site. However, within Union County the average well yield in tuffaceous argillite (i.e., 0.08 gpm per foot of drilled well) was the lowest compared to the average well yields for the other rock types in the county (0.09 – 0.74 gpm per foot of well drilled) (Floyd, 1965).

Groundwater is currently used for private residential water supply in the area to the east from the parcel, beyond the City of Monroe water supply distribution system. There are no well head protection areas designated in the area around the Site.

5.2 SITE HYDROGEOLOGY

The Site is located on the top of a gently sloping north-south trending topographic ridge (see Figure 1), approximately four miles east of Monroe, North Carolina. Therefore, based on both the topography around the Site and the conceptual understanding of the regional hydrogeology, the projected ground water surface at the Site is expected to exhibit several ground water flow

directions generally toward the north and both east and the west from the top of the ridge that passes through the parcel, similar to the topographic contours for the area as indicated by the slope of the ground surface at the site.

As outlined in Section 2.2, a total of seven monitoring wells have been installed around the Site. Most of the monitoring wells go dry when pumped.

The depth to groundwater measurements were collected on September 22, 2011. Hence together these data were able to indicate that most of the groundwater elevations in these wells had stabilized and hence the collected groundwater depth measurements are representative of groundwater conditions at the site. The depth to groundwater measurements collected at the site on September 22, 2011 are shown in Table 2. The average depth to groundwater underlying this site is 25.0 feet below ground surface. For those seven monitoring wells measured on September 22 the depth to groundwater ranged from 13.6 (PMW-7) to 32.5 (PMW-6) feet below ground surface.

The lateral movement of groundwater is defined by groundwater contours shown on the groundwater contour maps. Groundwater elevations were interpolated between monitoring wells by comparing the groundwater elevations at those locations, considering both site features and topography (see Figure 3). Overall, the groundwater contours mimic the topography for the area. Hence these groundwater data are consistent with the conceptual understanding for the hydrogeologic system underlying the Site as described in Sections 4 and 5.1.

Based on the groundwater potentiometric map the direction of groundwater flow is generally toward the north/northwest, however in the western portion of the parcel the direction for the groundwater flow is toward the northwest and in the eastern portion of the parcel the direction of groundwater flow ranges from toward the northeast through to the east.

6.0 ANALYTICAL RESULTS

This section tabulates the analytical results for the sampling completed at the site. Copies of the laboratory reports, including QA/QC documentation are included in Appendix B.

6.1 SOIL RESULTS

The OVA field readings collected during the drilling of the seven boreholes ranged from 1.83 up to 36.4 parts per million (ppm). These readings are relatively typical for background soils. None of these OVA field readings justified the collection of any soil samples for laboratory analyses.

However, based on the proximity of the plant on the adjacent site to the northwest of the parcel, shallow soil samples (i.e., 3-foot depth) were collected from a boring at each of Monitoring Wells PMW-1 (labeled SPMW-1), PMW-2 (SPMW-2) and PMW-3 (SPMW-3). These soil samples were analyzed for PCBs. Additionally, the shallow soil sample from the boring at Monitoring Well PMW-2 was also analyzed for priority pollutant metals, hexavalent chromium, and mercury.

The analytical results for these three soil sample are summarized in Table 3. No PCBs were exhibited in any of the three soil samples. The analytical results for the metals analyses for the soil sample from the soil boring at Monitoring Well PMW-2 (labeled SPMW-2) were compared to the IHSB soil Remediation Goals (RGs) in Table 3. Three of the metals (arsenic, hexavalent chromium, and thallium) exceeded these IHSB soil RGs. Though the arsenic concentration was detected above the RG, this concentration does not exceed reported natural background levels (Canova, 1999). Within the Piedmont Province, Canova quantified the mean background arsenic concentration in soil at 11 milligram per kilogram (mg/kg).

The presence of hexavalent chromium above the soil RG is not natural and is likely a result of industrial activity previously conducted at the adjacent site to the northwest of Parcel #09084036. The thallium concentration in the soil sample may also be natural. Canova (1999) did review the background presence of thallium and found concentrations of this inorganic in soils from the Piedmont.

6.2 GROUNDWATER RESULTS

The analytical results for the groundwater samples are summarized in Table 4. Only detected VOCs that are identified in the laboratory analytical report are shown in Table 4. These groundwater analytical data are compared to the Title 15A North Carolina Administrative Code Subchapter 2L Groundwater Standards (NC 2L groundwater standards). The full list of the VOCs that were analyzed is shown in the laboratory analytical reports included in Appendix B. However, all of the analytical results for the metals analyzed and the field parameters collected during the sampling event are included in Table 4. The analytical results for the duplicate sample are also included in Table 4, adjacent to the analytical results from the same monitoring well. The analytical results for the VOCs in the duplicate sample exhibited a good comparison with the VOCs for the groundwater sample from the same monitoring well.

The analytical results for the other QA/QC samples (i.e., field, rinse and trip blanks) collected during the sampling event are included with the laboratory results. No VOCs were identified in any of the blanks during the sampling event.

A review of the September 2011 analytical results indicate that groundwater from five of the seven monitoring wells installed at the site exhibit exceedances of the NC 2L groundwater standards for chlorinated solvents. The only two monitoring wells without any NC 2L exceedances for VOCs are Monitoring Wells PMW-4 and PMW-6. Monitoring Well PMW-4 is located at the northwest corner of the parcel and Monitoring Well PMW-6 is located midway along the southern property boundary adjacent to the residence located on Stitt Street, (see Figure 2).

One monitoring well (PMW-2) exhibited concentrations for five inorganics exceeding the NC 2L groundwater standards for metals. These five inorganics are arsenic, cadmium, chromium, lead, and nickel.

6.3 INTERPRETATION OF GROUNDWATER RESULTS

Based on a review of the data shown in Table 4, the analytical data is discussed in regard to three separate issues evident in the groundwater underlying this site. The first two issues evident in this

data set are the presence of trichloroethane and tetrachloroethene. Both of these constituents typically degrade in the subsurface environment and each has a series of specific daughter products that together are collectively labeled as halogenated alkanes and halogenated alkenes. All of the VOCs that exceed the NC 2L groundwater standard for the September 2011 sampling event belong to one of these two groups of VOCs. The third issue evident in this September 2011 data set is the presence of several metals exceeding the NC 2L groundwater standards in Monitoring Well PMW-2 (see Figure 2).

The total VOCs shown in Table 4 indicate the highest total VOC concentrations in Monitoring Well PMW-1; with a concentration of 2.614 milligrams per liter (mg/l). At this location these VOCs are made up of two groups of halogenated compounds: alkanes and alkenes. The alkanes consist of 1,1,2-trichloroethane and the associated daughter products (i.e., dichloroethanes and chloroethane). The alkenes consist of tetrachloroethenes and the associated daughter products (trichloroethenes, dichloroethenes, and vinyl chloride). Hence, the VOCs at this site are reviewed in the context of these two groups of halogenated compounds.

Halogenated Alkanes

The total concentrations for the halogenated alkanes for the September 2011 sampling event are shown in Figure 4. Trichloroethanes are synthetic solvents widely used in industrial processes and are naturally reduced within an anaerobic environment to dichloroethanes and then to chloroethane. Additionally, several of the dichloroethanes have also been used as solvents. The concentration for each of these alkanes is shown for each of the seven monitoring wells with the NC 2L groundwater standard.

The isoconcentration lines shown on Figure 4 indicate that the alkanes are largely present in the northern portion of the parcel, except for one alkane (i.e., not exceeding the NC 2L groundwater standard) in Monitoring Well PMW-4, in the northwest corner of the southern portion of the parcel.

The likely source area for the alkanes in Monitoring Well PMW-1 appears to be from the adjacent site (Shield, 2011). A review of the alkanes present in Monitoring Well PMW-1 does indicate the presence of degradation products for these constituents (i.e., dichloroethanes and chloroethane).

Alkanes are also present in Monitoring Well PMW-2 with a total concentration of 82.85 micrograms per liter (ug/l). The presence of alkanes at elevated concentrations in groundwater at Monitoring Well PMW-2 is considered to be due to the presence of the natural channel emanating from the adjacent site (Shield, 2011). As a result there appears to be a small constituent alkane plume in the area around Monitoring Well PMW-2 (see Figure 4).

The only other well in which alkanes are present on this parcel is Monitoring Well PMW-4, where a trace of 1,1-dichlorothane was identified below the NC 2L groundwater standard.

Halogenated Alkenes

The total concentrations for the halogenated alkenes for the sampling event are shown for the wells at the site in Figure 5. Tetrachloroethene and trichloroethene are synthetic solvents widely used in industrial processes. Similar to the halogenated alkanes, these are naturally reduced within an anaerobic environment to trichloroethene, then to dichloroethenes and then to vinyl chloride before reducing to harmless ethenes and ethanes. The concentration for each of these alkenes is shown for each of the seven monitoring wells with the corresponding NC 2L groundwater standard on Figure 5.

Based on the isoconcentration lines for total alkenes shown on Figure 5 these constituents are more widespread than the alkanes (see Figure 4). The alkenes are evident in six of the monitoring wells installed in the parcel. The source area for alkenes in this area is suspected to be from the adjacent site (Shield, 2011).

Alkenes are also present in Monitoring Well PMW-2 with a total concentration of 323 ug/l. As a result there appears to be a small constituent alkene plume in the area around Monitoring Well PMW-2 (see Figure 5).

Of the remaining four monitoring wells, three of them exhibit concentrations of alkenes that are suspected to be associated with previous operations at the Bloomsburg Mills site located south of Monitoring Well PMW-5 (see Figure 2). Based on the potentiometric contours for Parcel #09084036 shown on Figure 3, groundwater from the area of the Bloomsburg Mills site generally migrates northward and eastward from the southwest corner of the parcel.

A file review for the Bloomsburg Mills Facility facility has indicated that the dominant constituent of concern at this site is tetrachlorethene. This constituent was previously stored in an above-ground storage tank on the south side of Stitt Street, opposite Spud Smith Street and was used for dry cleaning operations at this facility from 1963 through to 1978. A recent analysis (November 2008) of groundwater in the near vicinity of this former tank location had exhibited 40,500 ug/l for tetrachloroethene and a total VOC concentration of 48,770 ug/l. A wastewater aeration lagoon used by this facility was formerly located immediately west of Spud Smith Street and north of Stitt Street (see Figure 2). This former aeration lagoon was closed during the winter of 2009-10. A monitoring well installed at the site of this former lagoon exhibited a tetrachloroethene concentration of 30,300 ug/l, and a total VOC concentration of 34,736 ug/l. Therefore, the presence of alkenes immediately south and west from Parcel #09084036 is considered to be a source of the alkenes in Monitoring Wells PMW-4 and PMW-5.

Despite the fact that Monitoring Well PMW-6 is showing no alkenes, alkenes are present in Monitoring Well PMW-7. Two possible scenarios could be used to explain the presence of alkenes in Monitoring Well PMW-7 as follows:

1. As there is groundwater flow toward the east from Monitoring Well PMW-5, the alkenes from Bloomsburg Mills source area (i.e., immediately south of the intersection of Stitt and Spud Smith Streets) may have migrated toward Monitoring Well PMW-7 by migrating around and/or below Monitoring Well PMW-6. Such a scenario could be possible given that the area around the central portion of the parcel is a groundwater recharge area (see Section 5.2) and that the vertical groundwater gradients are expected to be downward in this area. Hence it is feasible for alkenes to migrate downward from the Bloomsburg Mills source area and as a result bypass the shallower (i.e., relative to the elevation of the water-producing fracture encountered in PMW-7 at the 38-foot depth) fractures open in

Monitoring Well PMW-6 and be evident in the deeper fracture intersected in Monitoring Well PMW-7.

2. A second possible scenario for the presence of chlorinated solvents within the subsurface in the vicinity is the Oro Manufacturing Plant, located immediately south of Monitoring Well PMW-7 (see Figure 2). Oro Manufacturing Company is a metal fabrication facility that makes finished metal products such as utility seats and cargo tie-down equipment for both fixed wing and rotary wing aircraft. This plant is not listed as an IHSB site. The only readily identified North Carolina Department of Environment and Natural Resources (NCDENR) listing for this plant is with the Division of Air Quality (DAQ). Pollutants reported as emissions for this site in 2009 are VOCs, hexavalent chromate, ethyl benzene, hexane, methyl ethyl ketone, toluene, xylene, and other volatiles. This plant was initially constructed in 1961.

The possibility of alkenes migrating from the northern portion of the parcel toward Monitoring Well PMW-7 from Monitoring Wells PMW-1 and PMW-2 is not considered to be feasible for the following reasons:

1. based on the potentiometric contours for the area the groundwater flow direction generally ranges from north to east in the eastern area of the parcel (see Figure 3). Whereas the groundwater contours along Stitt Street are generally toward the east from Monitoring Well PMW-5 toward Monitoring Well PMW-7.
2. additionally, the mix of alkene degradationtion products in Monitoring Wells PMW-1 and PMW-2 exhibit significantly more degradation (e.g., presence of vinyl chloride in both of these wells) than is evident in Monitoring Well PMW-7. Also, the mix of alkenes in Monitoring Wells PMW-5 and PMW-7 are similar.
3. if the alkenes had migrated to Monitoring Well PMW-7 from Monitoring Wells PMW-1 and PMW-2, the presence of alkanes (which are present in the PMW-1 and PMW-2; see Figure 4) should also be present in Monitoring Well PMW-7. Alkanes are not present in Monitoring Well PMW-7 as shown in Table 4 and on Figure 4.

A review of the field parameters for the recent sampling event at Monitoring Well PMW-2 indicates relatively low oxidation reduction potential (ORP) suggesting possible ongoing

anaerobic degradation (see Table 4) in the groundwater at this location. Somewhat less degradation is evident at Monitoring Wells PMW-5 and PMW-7. However, for the September sampling event the overall degradation is weak within the subsurface underlying this site. Therefore the groundwater regime in this site has not evolved into a significant reducing environment at this time. Over time parameters such as ORP and dissolved oxygen will slowly decline, with the ORP slowly declining toward the negative hundreds, as the subsurface environment becomes more reducing.

Metals

Five metals (i.e., arsenic, cadmium, chromium, lead, and nickel) at Monitoring Well PMW-2 exceed the NC 2L groundwater standard. The presence of metals at Monitoring Well PMW-2 is considered to be associated with the adjacent site (Shield, 2011).

The duplicate sample collected at Monitoring Well PMW-4 exhibit two metals above the NC 2L groundwater standard (i.e., chromium and lead) that were either not significant or present in the original groundwater sample collected from this well (see Table 4). The water for both the original sample and the duplicate were collected from the well at the same time. However, numerous wells at this site do go dry during the purging and sampling as discussed in Section 2.2. Monitoring Well PMW-4 is one of those wells, hence there may have been minor amounts of sediment within the sample collected for the duplicate sample. These results exhibit the difficulties in acquiring representative samples of groundwater from slowly recharging wells.

7.0 CONCLUSIONS

The following conclusions summarize the investigation of the Site to date. These conclusions are based on the data collected as part of this investigation and are as follows:

- The average depth to bedrock underlying the site is 16 feet below ground surface;
- The average depth to groundwater underlying the site is 25 feet below ground surface;
- Soil cuttings at the site collected during drilling did not exhibit elevated OVA field readings, hence no samples were analyzed for VOCs. Soil samples were collected for analyses of PCBs at Monitoring Wells PMW-1 through PMW-3 and metals at Monitoring Well PMW-2. No PCBs were identified. Three metals (arsenic, hexavalent chromium, and thallium) were identified above the IHSB soil RGs. Arsenic is known to be present as background in this area;
- During both the drilling and the groundwater sampling most of the monitoring wells were slow to recharge groundwater following the borehole/well evacuation, which is typical for the bedrock underlying this area of Union County;
- The limited presence of groundwater in the bedrock, hence limited fracturing in the bedrock, underlying this area suggests slow moving groundwater within the bedrock underlying the site;
- Five of the seven monitoring wells installed at the site exhibit VOCs that exceed the NC 2L groundwater standards, ranging from one VOC (PMW-3) up to eight VOCs (PMW-1 and PMW-2);
- The VOCs present in groundwater underlying the site belong to one of the two separate halogenated families of solvents (i.e., alkanes and alkenes);
- Based on the sampling event the alkanes are not detected in Monitoring Wells PMW-3, PMW-5, PMW-6, and PMW-7;
- Based on the sampling event the alkenes are not detected in Monitoring Well PMW-6;
- Arsenic, chromium and lead were found to exceed the NC 2L groundwater standards in Monitoring Well PMW-2 at concentrations at least 50% more than the standards;

- Possible source for the alkanes evident in Monitoring Well PMW-1 is a suspected source on the adjacent property (Shield, 2011);
- Possible source areas for the alkenes evident in Monitoring Wells PMW-1, PMW-2, PMW-3, PMW-4, PMW-5, and PMW-7 consist of; a suspected source on the adjacent property to the northwest (Shield, 2011); and an offsite known source south of the site at Bloomsburg Mills, and suspected source at Oro Manufacturing to the southeast, both south of Stitt Street (PMW-4, PMW-5, and PMW-7);
- Possible source for the metals found in Monitoring Well PMW-2 may be the adjacent property (Shield, 2011); and
- The findings presented herein indicate that suspected and/or known source areas located on adjacent properties (Bloomsburg Mills, and possibly Oro Manufacturing) have impacted groundwater with exceedances above the NC 2L groundwater standards.

Together these conclusions present a summary of findings resulting from the completion of the investigation completed at the site.

8.0 REFERENCES

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TABLE 1
MONITORING WELL CONSTRUCTION DETAILS
PARCEL ID#09084036
4029 STITT STREET
MONROE, NORTH CAROLINA

Well Identification	Top of Casing Elevation (Feet above Datum)	Ground Elevation (Feet above Datum)	Depth to Rock (Feet below Ground Surface)	Depth Drilled (Feet below Ground Surface)	Top of Monitoring Interval (Feet below Ground Surface) [1]	Monitoring Interval Depth Range (Feet below Ground Surface) [2]	Top of Screen (Feet below Ground Surface)	Screen Interval Depth Range (Feet below Ground Surface)	Measured Total Depth (Feet below Ground Surface)
PMW-1	119.87	118.0	5	40	28	28 - 40	30	30 - 40	42.7
PMW-2	114.85	112.8	14	30.5	17	17 - 30.5	20.5	20.5 - 30.5	32.8
PMW-3	122.38	120.9	25	40	28	28 - 40	30	30 - 40	43.0
PMW-4	113.47	111.5	15	40	28	28 - 40	30	30 - 40	43.0
PMW-5	116.19	116.7	21	40	28	28 - 40	30	30 - 40	40.3
PMW-6	125.98	126.4	25	45	33	33 - 45	35	35 - 45	45.0
PMW-7	103.10	101.2	8	40	28	28 - 40	30	30 - 40	40.0

[1] Top of Monitoring Interval represents the top of the Sand in the Annular space around the Well Screen
[2] Monitoring Interval represents the top and bottom of the Sand in the Annular space around the Well Screen

NOTES:
1) All measurements shown in feet
2) Datum - Set at 100.00 Feet below the Top of Casing at MW-1

TABLE 2
GROUND WATER ELEVATION DATA
PARCEL ID#09084036
4029 STITT STREET
MONROE, NORTH CAROLINA

Well Identification	TOC Elevation (Feet above Datum)	Ground Elevation (Feet above Datum)	Depth to Groundwater (Feet below ToC)	Groundwater Elevation (Feet above Datum)
			October 3, 2011	
PMW-1	119.87	118.0	30.26	89.61
PMW-2	114.85	112.8	23.51	91.34
PMW-3	122.88	120.9	30.82	92.06
PMW-4	113.47	111.5	20.72	92.75
PMW-5	116.19	116.7	18.71	97.48
PMW-6	125.98	126.4	31.53	94.45
PMW-7	103.10	101.2	11.58	91.52

NOTES:
1) Depths to Groundwater measured on Date Shown
2) NE = Not Established
3) TOC = Top of casing
4) GS = Ground Surface
5) Datum = Top of Casing for MW-1 is 100.00 Feet Datum

H:\Projects\2011\1110051-01 Cooper Tools LLC - Monroe Plant\Parcel ID09084

TABLE 3
SOIL ANALYTICAL DATA
PARCEL ID#09084036
4029 STITT STREET
MONROE, NORTH CAROLINA

PARAMETER		SAMPLE DATE →	09/08/11	09/08/11	09/08/11
		SAMPLE INTERVAL →	3'	3'	3'
		NCDENR IHSB RGs	SPMW-1	SPMW-2	SPMW-3
POLYCHLORINATED BIPHENYLS					
PCB-1016	mg/kg	1.0	ND	ND	ND
PCB-1221	mg/kg	1.0	ND	ND	ND
PCB-1232	mg/kg	1.0	ND	ND	ND
PCB-1248	mg/kg	1.0	ND	ND	ND
PCB-1254	mg/kg	1.0	ND	ND	ND
PCB-1260	mg/kg	1.0	ND	ND	ND
Total Polychlorinated Biphenyls	mg/kg	1.0	0.0	0.0	0.0
METALS					
Antimony	mg/kg	6.2	NS	ND	NS
Arsenic	mg/kg	0.39	NS	**3.10J**	NS
Beryllium	mg/kg	32.0	NS	**0.269J**	NS
Cadmium	mg/kg	14.0	NS	ND	NS
Chromium (Total)	mg/kg	NE	NS	**14.2**	NS
Chromium (Hexavalent)	mg/kg	0.29	NS	**0.50J**	NS
Copper	mg/kg	620	NS	**6.41J**	NS
Lead	mg/kg	400	NS	**10.6**	NS
Mercury	mg/kg	2.0	NS	**0.0162J**	NS
Nickel	mg/kg	300	NS	**2.41J**	NS
Selenium	mg/kg	78	NS	ND	NS
Silver	mg/kg	78	NS	ND	NS
Thallium	mg/kg	0.16	NS	**1.12J**	NS
Zinc	mg/kg	4,600	NS	**10.1**	NS

NOTES:

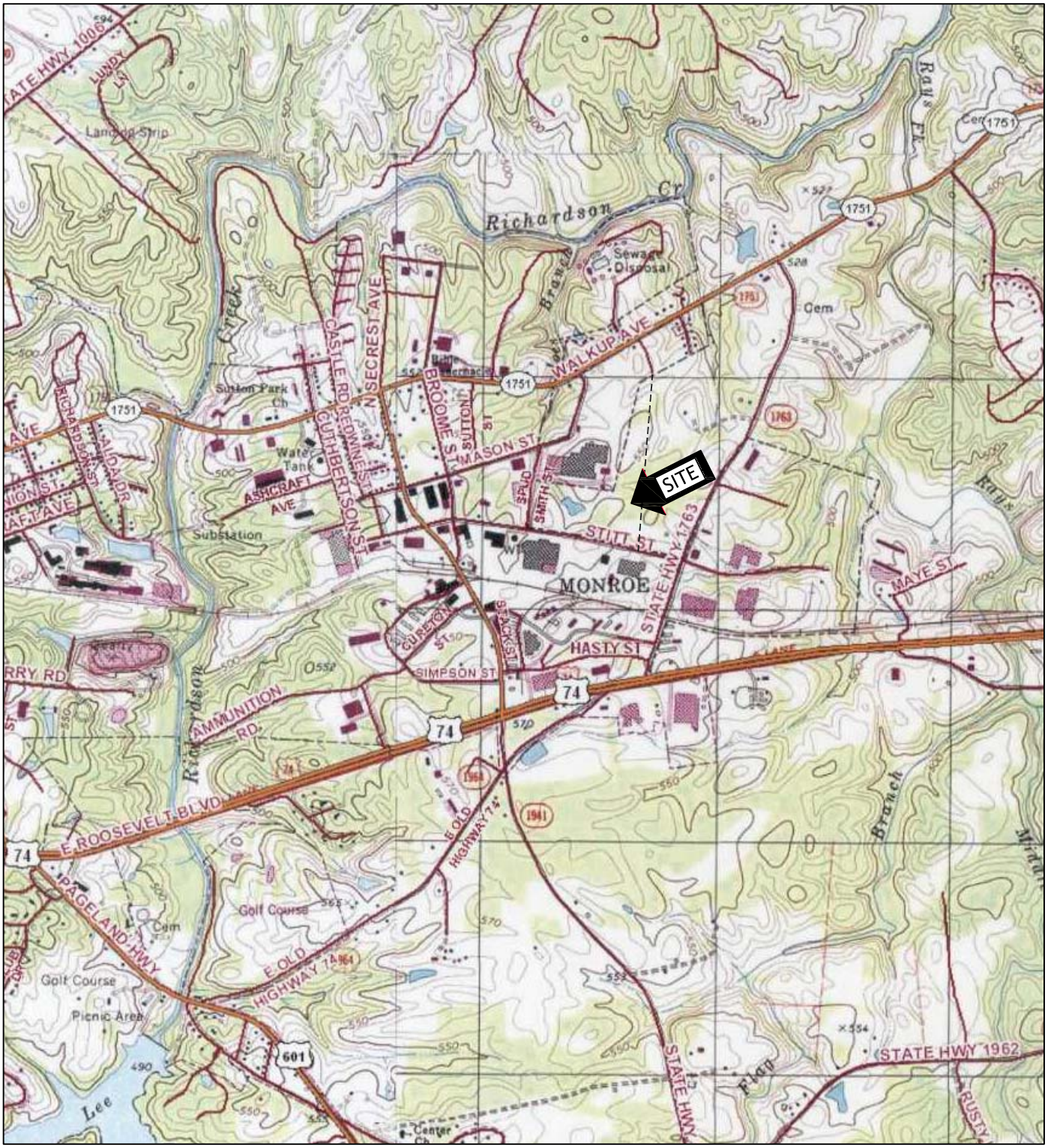
1) mg/kg - milligrams per kilogram.
2) NE - Not Established
3) ND - Not detected at or above laboratory method detection limits.
4) Depths in feet below grade level.
5) Shaded values indicate concentrations exceed North Carolina Department of Environment and Natural Resources - Inactive Hazardous Sites Branch (NCDENR IHSB) Soil Remediation Goals (RGs).

TABLE 4
GROUNDWATER ANALYTICAL DATA
PARCEL ID#09084036
4029 STITT STREET
MONROE, NORTH CAROLINA

PARAMETER	UNITS	NC 2L Groundwater Standards	GROUNDWATER SAMPLE IDENTIFICATION								QA/QC SAMPLE IDENTIFICATION					
			PMW-1	PMW-2	PMW-3	PMW-4	PMW-4 (Dup)	PMW-5	PMW-6	PMW-7	Rinse Blank	Trip Blank	Field Blank	Rinse Blank	Trip Blank	Field Blank
			09/06/11	09/08/11	09/06/11	09/06/11	09/06/11	09/06/11	09/06/11	09/08/11	09/06/11	09/06/11	09/06/11	09/08/11	09/08/11	09/08/11
VOLATILE ORGANIC COMPOUNDS																
1,1,1-Trichloroethane	µg/l	200	**780**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	µg/l	0.6	**70**	**0.85J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	µg/l	6	ND	**1.2**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	µg/l	6	**960**	**75**	ND	**0.46J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	µg/l	0.4	**14**	**3**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	µg/l	7	**570**	**130**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	µg/l	70	ND	**1.3J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	µg/l	6000	ND	ND	ND	**3.9J**	**4.6J**	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	µg/l	3000	**49**	**4.0J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	µg/l	70	ND	ND	ND	ND	ND	ND	**1.4J**	ND	ND	ND	ND	ND	ND	ND
Cis-1,2-Dichloroethene	µg/l	70	**140**	**130**	**3.9J**	**1.2J**	**1.1J**	**2.0J**	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	µg/l	0.7	ND	**1.7**	**12**	ND	ND	**4.3**	ND	**300**	ND	ND	ND	ND	ND	ND
Trans-1,2-Dichloroethene	µg/l	100	ND	**2.3J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	µg/l	3	**19**	**15**	**1.9**	ND	ND	**5.2**	ND	**14**	ND	ND	ND	ND	ND	ND
Vinyl Chloride	µg/l	0.03	**12**	**44**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Volatile Organic Compounds			2614	408.35	17.8	5.56	5.7	11.5	1.4	314	0	0	0	0	0	0
METALS																
Antimony	µg/l	1	**0.278J**	**0.698J**	**0.227J**	**3.34**	**2.29**	**0.541J**	ND	**0.356J**	ND	NA	ND	ND	ND	ND
Arsenic	µg/l	10	ND	**84.8**	**5.17J**	ND	**5.02J**	ND	**7.72J**	**8.41J**	ND	NA	ND	ND	ND	ND
Beryllium	µg/l	4	ND	**2.4**	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND
Cadmium	µg/l	2	**0.494J**	**3.15**	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND
Chromium	µg/l	10	**1.54J**	**77.2**	**1.43J**	**5.36J**	**23**	**4.52J**	**2.86J**	**2.36J**	**2.04J**	NA	**2.23J**	ND	ND	**2.23J**
Chromium (Hexavalent)	µg/l	NE	**0.0094J**	**0.0094J**	**0.0073J**	ND	**0.0057J**	ND	ND	**0.0083J**	ND	NA	ND	ND	ND	ND
Copper	µg/l	1000	**2.51J**	**378**	**5.2J**	**4.01J**	**13.1**	**9.6J**	**5.94J**	**8.2J**	ND	NA	ND	ND	ND	ND
Lead	µg/l	15	ND	**302**	**4.05J**	ND	**20.5**	**5.13J**	ND	**3.65J**	ND	NA	ND	ND	ND	ND
Mercury	µg/l	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND
Nickel	µg/l	100	**4.24J**	**102**	ND	**3.39J**	**18.9**	**4.87J**	**3.9J**	ND	ND	NA	ND	ND	ND	ND
Selenium	µg/l	20	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	**2.81J**	ND	ND	**2.81J**
Silver	µg/l	20	ND	**4.56J**	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND
Thallium	µg/l	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND
Zinc	µg/l	1000	ND	**245**	ND	**6.67J**	**45.6**	**12.9**	**7.44J**	**5.59J**	ND	NA	ND	ND	ND	ND
FINAL FIELD MEASUREMENTS																
pH	S.U.	6.5-8.5	6.83	6.86	6.62	7.36	7.36	7.47	6.93	7.13	NA	NA	NA	NA	NA	NA
Temperature	°C	NE	17.0	17.9	17.8	17.4	17.4	18.60	18.20	20.60	NA	NA	NA	NA	NA	NA
Conductivity	µS/cm	NE	297.0	999.0	304.0	411.0	411.0	779.0	374.0	900.0	NA	NA	NA	NA	NA	NA
Dissolved Oxygen	mg/l	NE	10.76	6.34	8.20	8.73	8.73	9.91	3.63	8.15	NA	NA	NA	NA	NA	NA
Oxidation Reduction Potential	mV	NE	397.00	5.00	404.00	370.00	370.00	111.00	344.00	125.00	NA	NA	NA	NA	NA	NA

Notes:

1) Standards were taken from the North Carolina Administrative Code Title 15A, Chapter 2L, Section .0202 Groundwater Quality Standards (NC 2L Standards)
Values for 1,1,2-Trichloroethane and Antimony are the Groundwater Interim Maximum Allowable Concentrations established as of August 1, 2010.
2) µg/l - micrograms per liter
3) mg/l - milligrams per liter
4) J - The analyte was positively identified but the value is estimated below the laboratory reporting limit.
5) NA - Not Analyzed
6) ND - Not detected at or above laboratory method detection limits.
7) NE - Not established
8) **Bold** values indicate concentrations above the Method Detection Limit (MDL) and Shaded values indicate concentrations exceed NC 2L Standards.



N

GRAPHIC SCALE

0 1,000 2,000

SCALE: 1 in. = 2,000 ft.

SOURCE: NATIONAL GEOGRAPHIC USGS TOPO, 7.5 MINUTE MAP SERIES, UNION COUNTY, NORTH CAROLINA

SHIELD ENGINEERING, INC.

4301 TAGGART CREEK ROAD
CHARLOTTE, NC 28208
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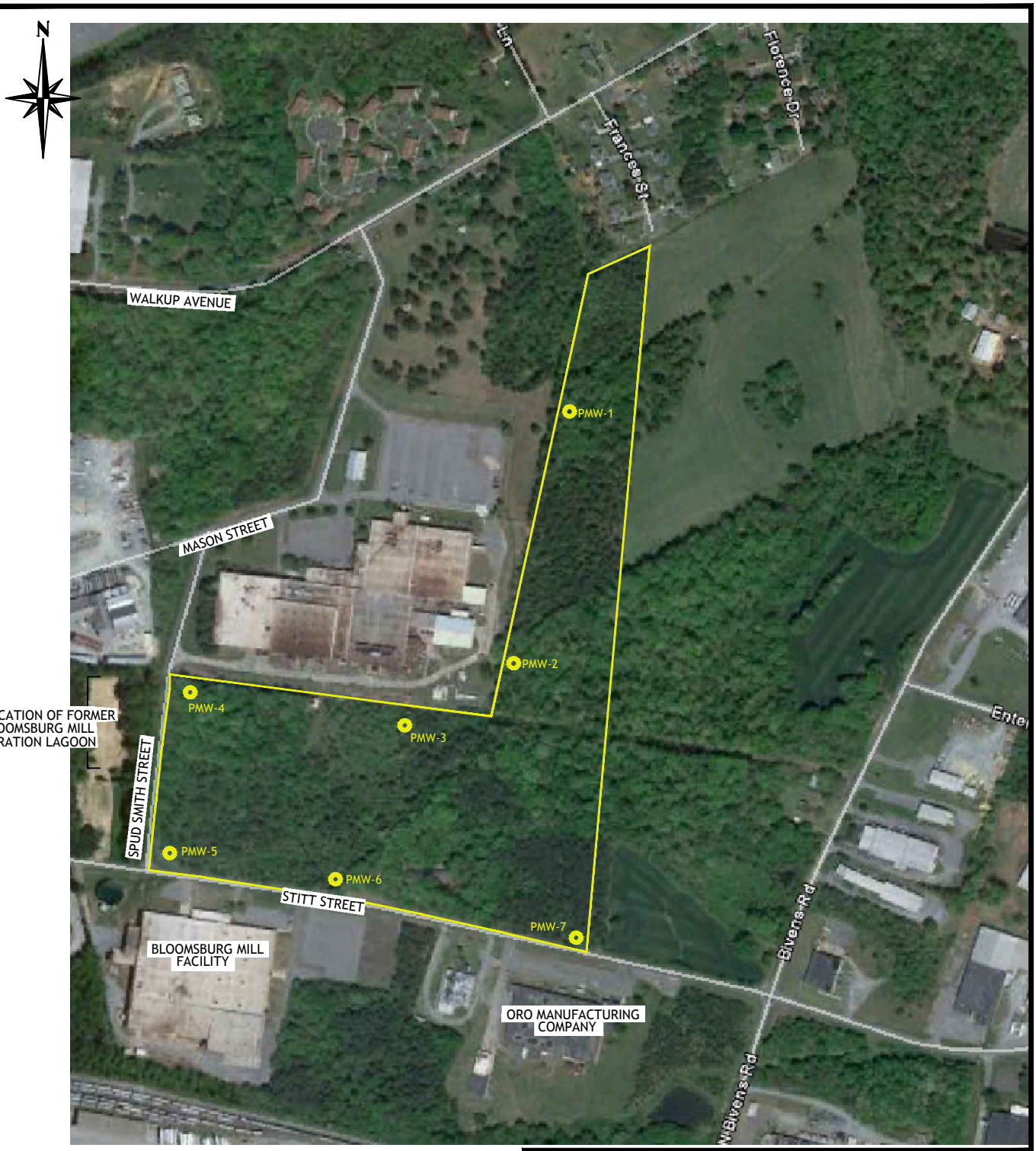
www.shieldengineering.com

SITE LOCATION MAP

PARCEL 09084036
4029 STITT STREET
MONROE, NORTH CAROLINA
SHIELD #1110051-01

DATE :	09/29/11	DRAWN BY :	RBS
SCALE :	AS SHOWN	FIGURE :	1

H:\PROJECTS\2011\1110051-01 COOPER TOOLS LLC - MONROE PLANT\FIGURES\PARCEL 09084036\SITE LOCATION MAP.DWG



H:\PROJECTS\2011\1110051-01 ATG - COOPER TOOLS MONROE FACILITY\FIGURES\VICINITY MAP

LEGEND:

MONITORING WELL LOCATION

NOTES:
1. BASE MAP FROM GOOGLE EARTH SOFTWARE AND SHIELD FIELD OBSERVATIONS.
2. ALL LOCATIONS ARE APPROXIMATE.

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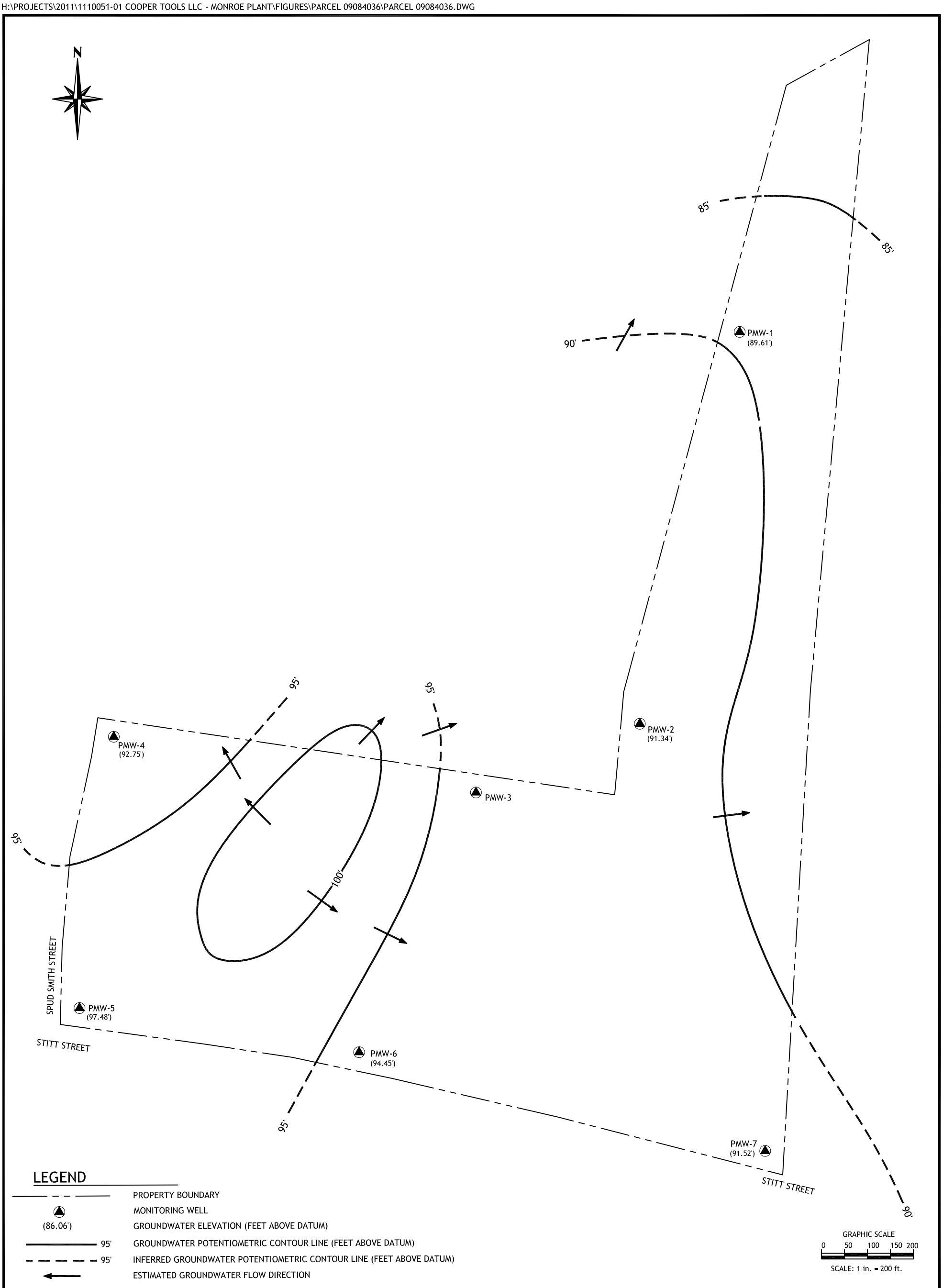
MONITORING WELL LOCATION MAP

PARCEL 09084036
4029 STITT STREET
MONROE, NORTH CAROLINA
SHIELD #1110051-01

DATE :	09/29/11	DRAWN BY :	RBS
SCALE :	NTS	FIGURE :	2

H:\PROJECTS\2011\1110051-01 COOPER TOOLS LLC - MONROE PLANT\FIGURES\PARCEL 09084036\PARCEL 09084036.DWG



NOTES:
1. DEPTHS TO GROUNDWATER MEASURED ON 10/03/11.
2. CONTOUR INTERVALS = AS SHOWN.
3. SITE INFORMATION DETERMINED BY PLANT DRAWING FROM COOPER TOOLS LLC, UNION COUNTY GIS, GPS AND FIELD MEASUREMENTS.
4. ALL LOCATIONS ARE APPROXIMATE.
5. DATUM WAS SET AT 100 FEET BELOW TOP OF CASING IN MONITORING WELL MW-1.

SHIELD ENGINEERING, INC.
4301 TAGGART CREEK ROAD
CHARLOTTE, NC 28208
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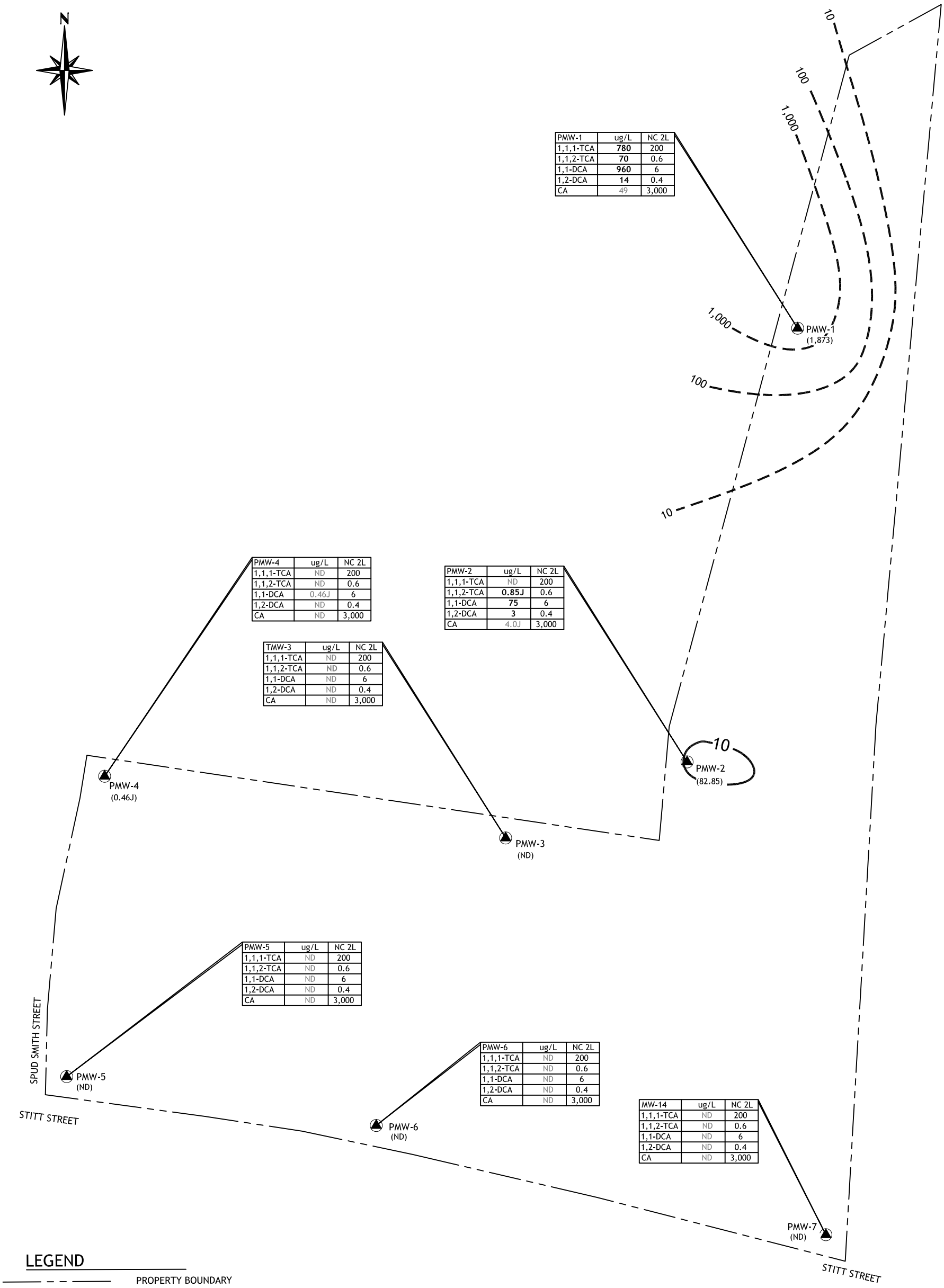
GROUNDWATER ELEVATION CONTOUR MAP

PARCEL 09084036
4029 STITT STREET
MONROE, NORTH CAROLINA
SHIELD #1110051-01

DATE :	09/30/11	DRAWN BY :	RBS
SCALE :	AS SHOWN	FIGURE :	3

H:\PROJECTS\2011\1110051-01 COOPER TOOLS LLC - MONROE PLANT\FIGURES\PARCEL 09084036\PARCEL 09084036.DWG



PMW-1	ug/L	NC 2L
1,1,1-TCA	**780**	200
1,1,2-TCA	**70**	0.6
1,1-DCA	**960**	6
1,2-DCA	**14**	0.4
CA	49	3,000

PMW-4	ug/L	NC 2L
1,1,1-TCA	ND	200
1,1,2-TCA	ND	0.6
1,1-DCA	0.46J	6
1,2-DCA	ND	0.4
CA	ND	3,000

PMW-2	ug/L	NC 2L
1,1,1-TCA	ND	200
1,1,2-TCA	**0.85J**	0.6
1,1-DCA	**75**	6
1,2-DCA	**3**	0.4
CA	4.0J	3,000

TMW-3	ug/L	NC 2L
1,1,1-TCA	ND	200
1,1,2-TCA	ND	0.6
1,1-DCA	ND	6
1,2-DCA	ND	0.4
CA	ND	3,000

PMW-5	ug/L	NC 2L
1,1,1-TCA	ND	200
1,1,2-TCA	ND	0.6
1,1-DCA	ND	6
1,2-DCA	ND	0.4
CA	ND	3,000

PMW-6	ug/L	NC 2L
1,1,1-TCA	ND	200
1,1,2-TCA	ND	0.6
1,1-DCA	ND	6
1,2-DCA	ND	0.4
CA	ND	3,000

MW-14	ug/L	NC 2L
1,1,1-TCA	ND	200
1,1,2-TCA	ND	0.6
1,1-DCA	ND	6
1,2-DCA	ND	0.4
CA	ND	3,000

LEGEND

	PROPERTY BOUNDARY
	MONITORING WELL
(ug/L)	MICROGRAMS PER LITER
(1,873)	TOTAL HALOGENATED ALKANES (ug/L)
	TOTAL HALOGENATED ALKANES ISOCONCENTRATION LINE (ug/L)
	INFERRED TOTAL HALOGENATED ALKANES ISOCONCENTRATION LINE (ug/L)
(ND)	NOT DETECTED AT OR ABOVE LABORATORY DETECTION LIMITS FOR THE REPORT.
NC 2L	NORTH CAROLINA 2L GROUNDWATER STANDARDS

HALOGENATED ALKANES (ug/L)

1,1,1-TCA	1,1,1-TRICHLOROETHANE
1,1,2-TCA	1,1,2-TRICHLOROETHANE
1,1-DCA	1,1-DICHLOROETHANE
1,2-DCA	1,2-DICHLOROETHANE
CA	CHLOROETHANE
780	BOLD IN WELL TABLE INDICATES CONSTITUENT EXCEEDS NORTH CAROLINA GROUNDWATER STANDARDS (NC 2L)

NOTES:
1. GROUNDWATER SAMPLES COLLECTED ON 09/06/11.
2. CONTOUR INTERVALS = AS SHOWN.
3. SITE INFORMATION DETERMINED UNION COUNTY GIS AND FIELD MEASUREMENTS.
4. ALL LOCATIONS ARE APPROXIMATE.

GRAPHIC SCALE
0 50 100 150 200
SCALE: 1 in. = 200 ft.

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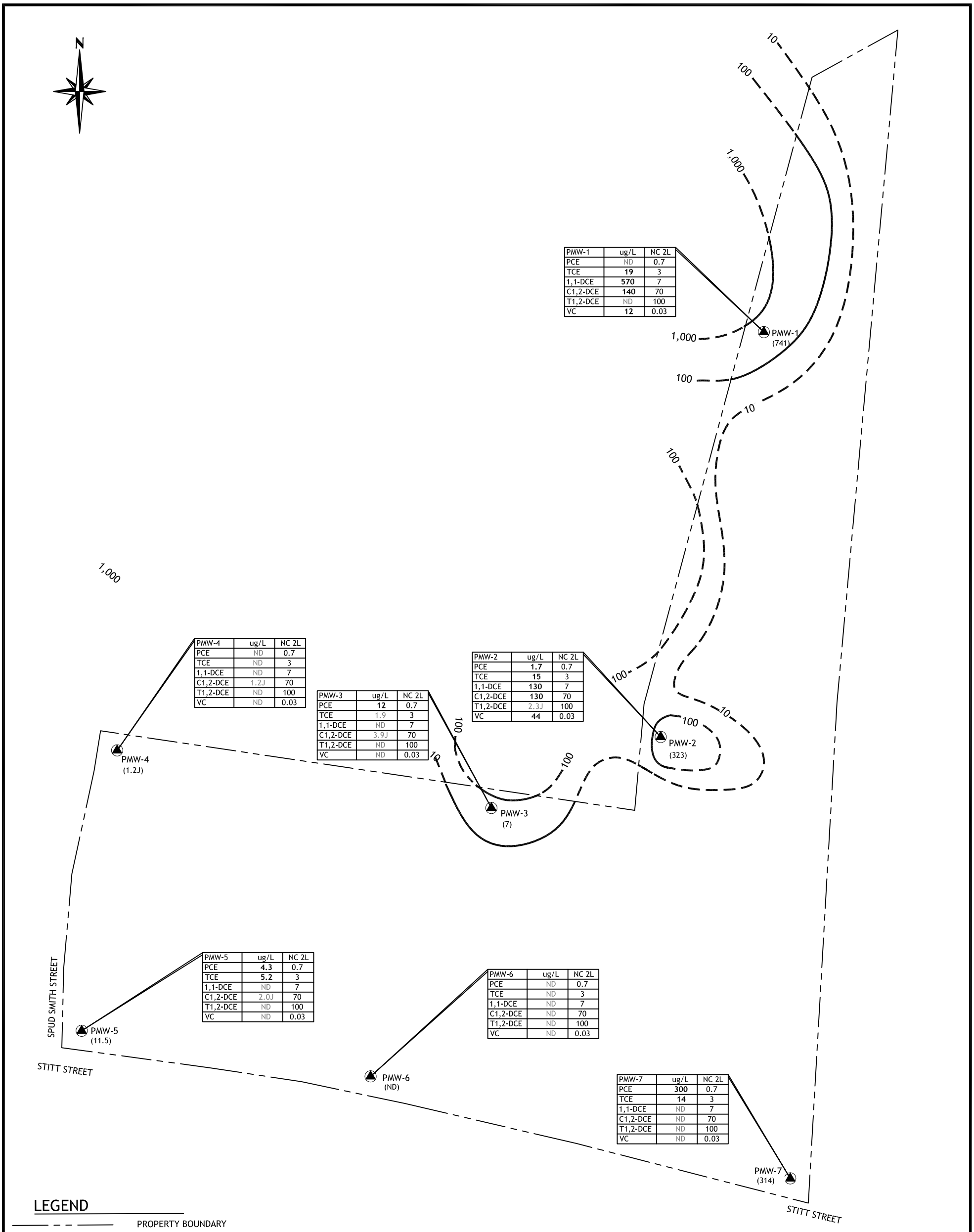
HALOGENATED ALKANES CONSTITUENT MAP

PARCEL 09084036
4029 STITT STREET
MONROE, NORTH CAROLINA
SHIELD #1110051-01

DATE :	09/30/11	DRAWN BY :	RBS
SCALE :	AS SHOWN	FIGURE :	4

H:\PROJECTS\2011\1110051-01 COOPER TOOLS LLC - MONROE PLANT\FIGURES\PARCEL 09084036\PARCEL 09084036.DWG



PMW-1	ug/L	NC 2L
PCE	ND	0.7
TCE	**19**	3
1,1-DCE	**570**	7
C1,2-DCE	**140**	70
T1,2-DCE	ND	100
VC	**12**	0.03

PMW-4	ug/L	NC 2L
PCE	ND	0.7
TCE	ND	3
1,1-DCE	ND	7
C1,2-DCE	1.2J	70
T1,2-DCE	ND	100
VC	ND	0.03

PMW-3	ug/L	NC 2L
PCE	**12**	0.7
TCE	1.9	3
1,1-DCE	ND	7
C1,2-DCE	3.9J	70
T1,2-DCE	ND	100
VC	ND	0.03

PMW-2	ug/L	NC 2L
PCE	**1.7**	0.7
TCE	**15**	3
1,1-DCE	**130**	7
C1,2-DCE	**130**	70
T1,2-DCE	2.3J	100
VC	**44**	0.03

PMW-5	ug/L	NC 2L
PCE	**4.3**	0.7
TCE	**5.2**	3
1,1-DCE	ND	7
C1,2-DCE	2.0J	70
T1,2-DCE	ND	100
VC	ND	0.03

PMW-6	ug/L	NC 2L
PCE	ND	0.7
TCE	ND	3
1,1-DCE	ND	7
C1,2-DCE	ND	70
T1,2-DCE	ND	100
VC	ND	0.03

PMW-7	ug/L	NC 2L
PCE	**300**	0.7
TCE	**14**	3
1,1-DCE	ND	7
C1,2-DCE	ND	70
T1,2-DCE	ND	100
VC	ND	0.03

LEGEND

— — —	PROPERTY BOUNDARY
▲	MONITORING WELL
(ug/L)	MICROGRAMS PER LITER
(741)	TOTAL HALOGENATED ALKENES (ug/L)
———	TOTAL HALOGENATED ALKENES ISOCONCENTRATION LINE (ug/L)
— — —	INFERRED TOTAL HALOGENATED ALKENES ISOCONCENTRATION LINE (ug/L)
(ND)	NOT DETECTED AT OR ABOVE LABORATORY DETECTION LIMITS FOR THE REPORT.
NC 2L	NORTH CAROLINA 2L GROUNDWATER STANDARDS

HALOGENATED ALKENES (ug/L)

PCE	TETRACHLOROETHENE
TCE	TRICHLOROETHENE
1,1-DCE	1,1-DICHLOROETHENE
C1,2-DCE	cis-1,2-DICHLOROETHENE
T1,2-DCE	trans-1,2-DICHLOROETHENE
VC	VINYL CHLORIDE
570	BOLD IN WELL TABLE INDICATES CONSTITUENT EXCEEDS NORTH CAROLINA GROUNDWATER STANDARDS (NC 2L)

NOTES:
1. GROUNDWATER SAMPLES COLLECTED ON 09/06/11.
2. CONTOUR INTERVALS = AS SHOWN.
3. SITE INFORMATION DETERMINED BYUNION COUNTY GIS AND FIELD MEASUREMENTS.
4. ALL LOCATIONS ARE APPROXIMATE.

GRAPHIC SCALE
0 50 100 150 200
SCALE: 1 in. = 200 ft.

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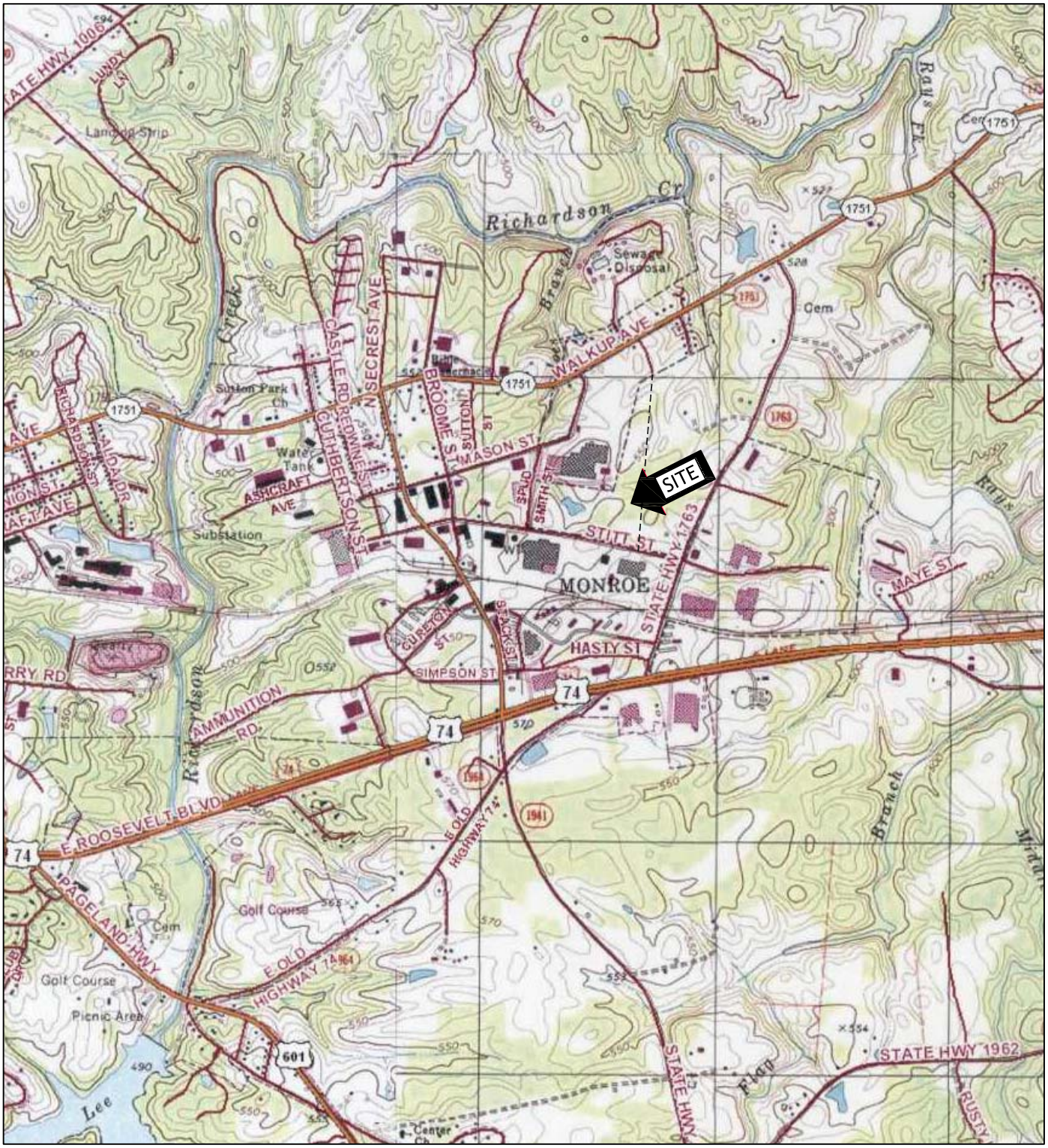
HALOGENATED ALKENES CONSTITUENT MAP

PARCEL 09084036
4029 STITT STREET
MONROE, NORTH CAROLINA
SHIELD #1110051-01

DATE :	09/30/11	DRAWN BY :	RBS
SCALE :	AS SHOWN	FIGURE :	5



N

GRAPHIC SCALE

0 1,000 2,000

SCALE: 1 in. = 2,000 ft.

SOURCE: NATIONAL GEOGRAPHIC USGS TOPO, 7.5 MINUTE MAP SERIES, UNION COUNTY, NORTH CAROLINA

SHIELD ENGINEERING, INC.

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SITE LOCATION MAP

PARCEL 09084036
4029 STITT STREET
MONROE, NORTH CAROLINA
SHIELD #1110051-01

DATE :	09/29/11	DRAWN BY :	RBS
SCALE :	AS SHOWN	FIGURE :	1

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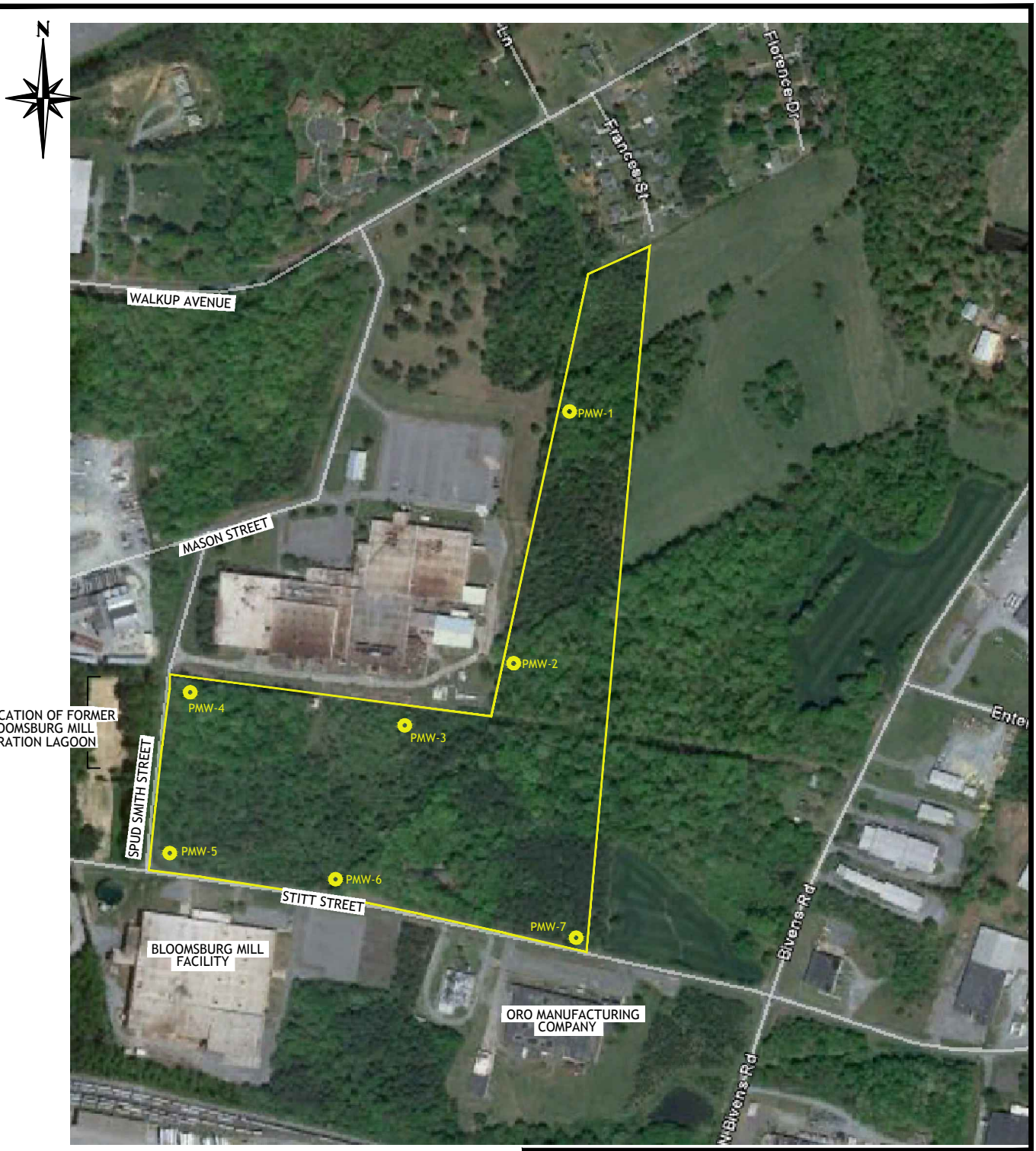

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LEGEND:

MONITORING WELL LOCATION

NOTES:
1. BASE MAP FROM GOOGLE EARTH SOFTWARE AND SHIELD FIELD OBSERVATIONS.
2. ALL LOCATIONS ARE APPROXIMATE.

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MONITORING WELL LOCATION MAP

PARCEL 09084036
4029 STITT STREET
MONROE, NORTH CAROLINA
SHIELD #1110051-01

DATE :	09/29/11	DRAWN BY :	RBS
SCALE :	NTS	FIGURE :	2

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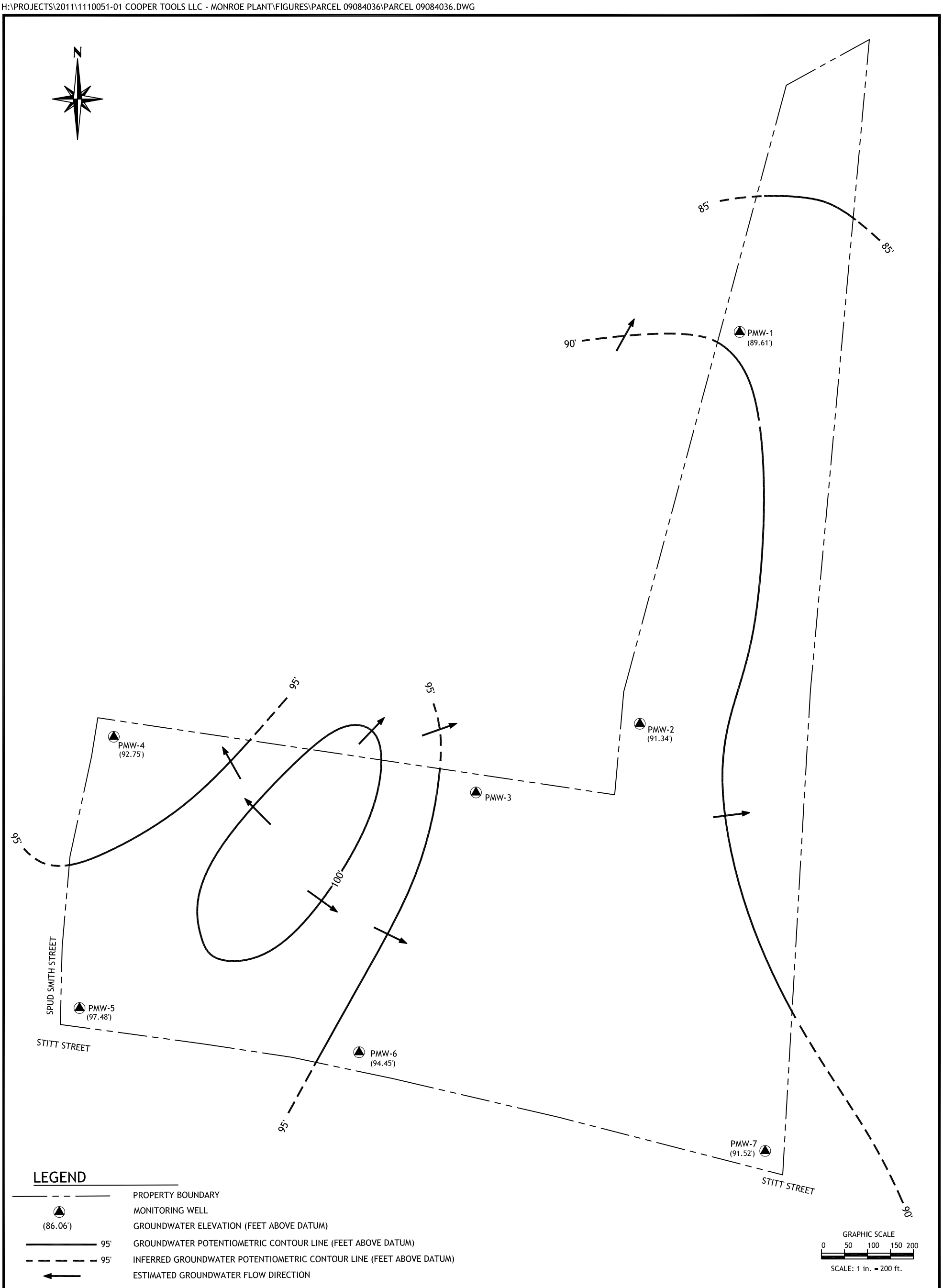

NOTES:
1. DEPTHS TO GROUNDWATER MEASURED ON 10/03/11.
2. CONTOUR INTERVALS = AS SHOWN.
3. SITE INFORMATION DETERMINED BY PLANT DRAWING FROM COOPER TOOLS LLC, UNION COUNTY GIS, GPS AND FIELD MEASUREMENTS.
4. ALL LOCATIONS ARE APPROXIMATE.
5. DATUM WAS SET AT 100 FEET BELOW TOP OF CASING IN MONITORING WELL MW-1.

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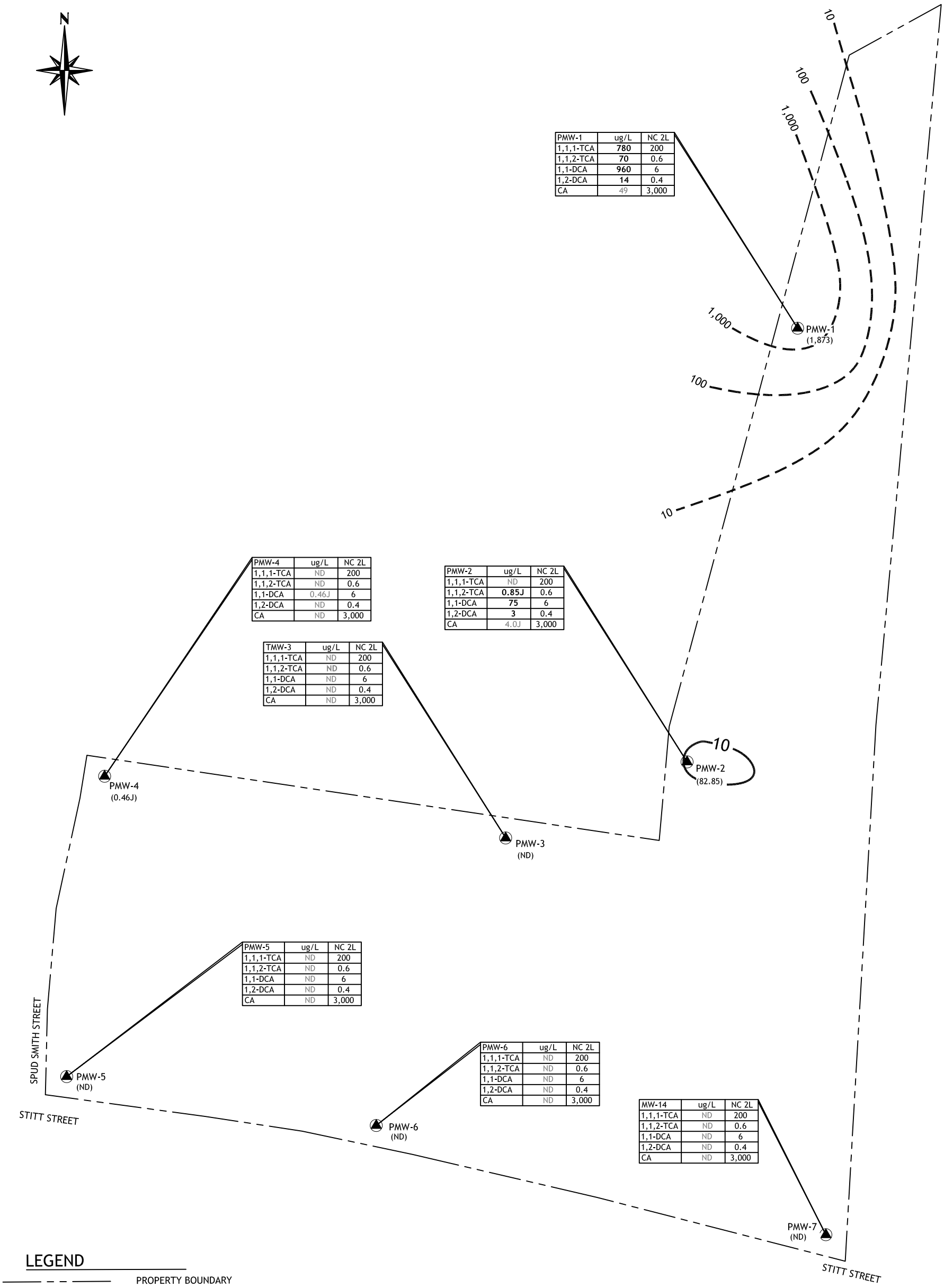
GROUNDWATER ELEVATION CONTOUR MAP

PARCEL 09084036
4029 STITT STREET
MONROE, NORTH CAROLINA
SHIELD #1110051-01

DATE :	09/30/11	DRAWN BY :	RBS
SCALE :	AS SHOWN	FIGURE :	3

H:\PROJECTS\2011\1110051-01 COOPER TOOLS LLC - MONROE PLANT\FIGURES\PARCEL 09084036\PARCEL 09084036.DWG



PMW-1	ug/L	NC 2L
1,1,1-TCA	**780**	200
1,1,2-TCA	**70**	0.6
1,1-DCA	**960**	6
1,2-DCA	**14**	0.4
CA	49	3,000

PMW-4	ug/L	NC 2L
1,1,1-TCA	ND	200
1,1,2-TCA	ND	0.6
1,1-DCA	0.46J	6
1,2-DCA	ND	0.4
CA	ND	3,000

PMW-2	ug/L	NC 2L
1,1,1-TCA	ND	200
1,1,2-TCA	**0.85J**	0.6
1,1-DCA	**75**	6
1,2-DCA	**3**	0.4
CA	4.0J	3,000

TMW-3	ug/L	NC 2L
1,1,1-TCA	ND	200
1,1,2-TCA	ND	0.6
1,1-DCA	ND	6
1,2-DCA	ND	0.4
CA	ND	3,000

PMW-5	ug/L	NC 2L
1,1,1-TCA	ND	200
1,1,2-TCA	ND	0.6
1,1-DCA	ND	6
1,2-DCA	ND	0.4
CA	ND	3,000

PMW-6	ug/L	NC 2L
1,1,1-TCA	ND	200
1,1,2-TCA	ND	0.6
1,1-DCA	ND	6
1,2-DCA	ND	0.4
CA	ND	3,000

MW-14	ug/L	NC 2L
1,1,1-TCA	ND	200
1,1,2-TCA	ND	0.6
1,1-DCA	ND	6
1,2-DCA	ND	0.4
CA	ND	3,000

LEGEND

	PROPERTY BOUNDARY
	MONITORING WELL
(ug/L)	MICROGRAMS PER LITER
(1,873)	TOTAL HALOGENATED ALKANES (ug/L)
	TOTAL HALOGENATED ALKANES ISOCONCENTRATION LINE (ug/L)
	INFERRED TOTAL HALOGENATED ALKANES ISOCONCENTRATION LINE (ug/L)
(ND)	NOT DETECTED AT OR ABOVE LABORATORY DETECTION LIMITS FOR THE REPORT.
NC 2L	NORTH CAROLINA 2L GROUNDWATER STANDARDS

HALOGENATED ALKANES (ug/L)

1,1,1-TCA	1,1,1-TRICHLOROETHANE
1,1,2-TCA	1,1,2-TRICHLOROETHANE
1,1-DCA	1,1-DICHLOROETHANE
1,2-DCA	1,2-DICHLOROETHANE
CA	CHLOROETHANE
780	BOLD IN WELL TABLE INDICATES CONSTITUENT EXCEEDS NORTH CAROLINA GROUNDWATER STANDARDS (NC 2L)

NOTES:
1. GROUNDWATER SAMPLES COLLECTED ON 09/06/11.
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3. SITE INFORMATION DETERMINED UNION COUNTY GIS AND FIELD MEASUREMENTS.
4. ALL LOCATIONS ARE APPROXIMATE.

GRAPHIC SCALE
0 50 100 150 200
SCALE: 1 in. = 200 ft.

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HALOGENATED ALKANES CONSTITUENT MAP

PARCEL 09084036
4029 STITT STREET
MONROE, NORTH CAROLINA
SHIELD #1110051-01

DATE :	09/30/11	DRAWN BY :	RBS
SCALE :	AS SHOWN	FIGURE :	4

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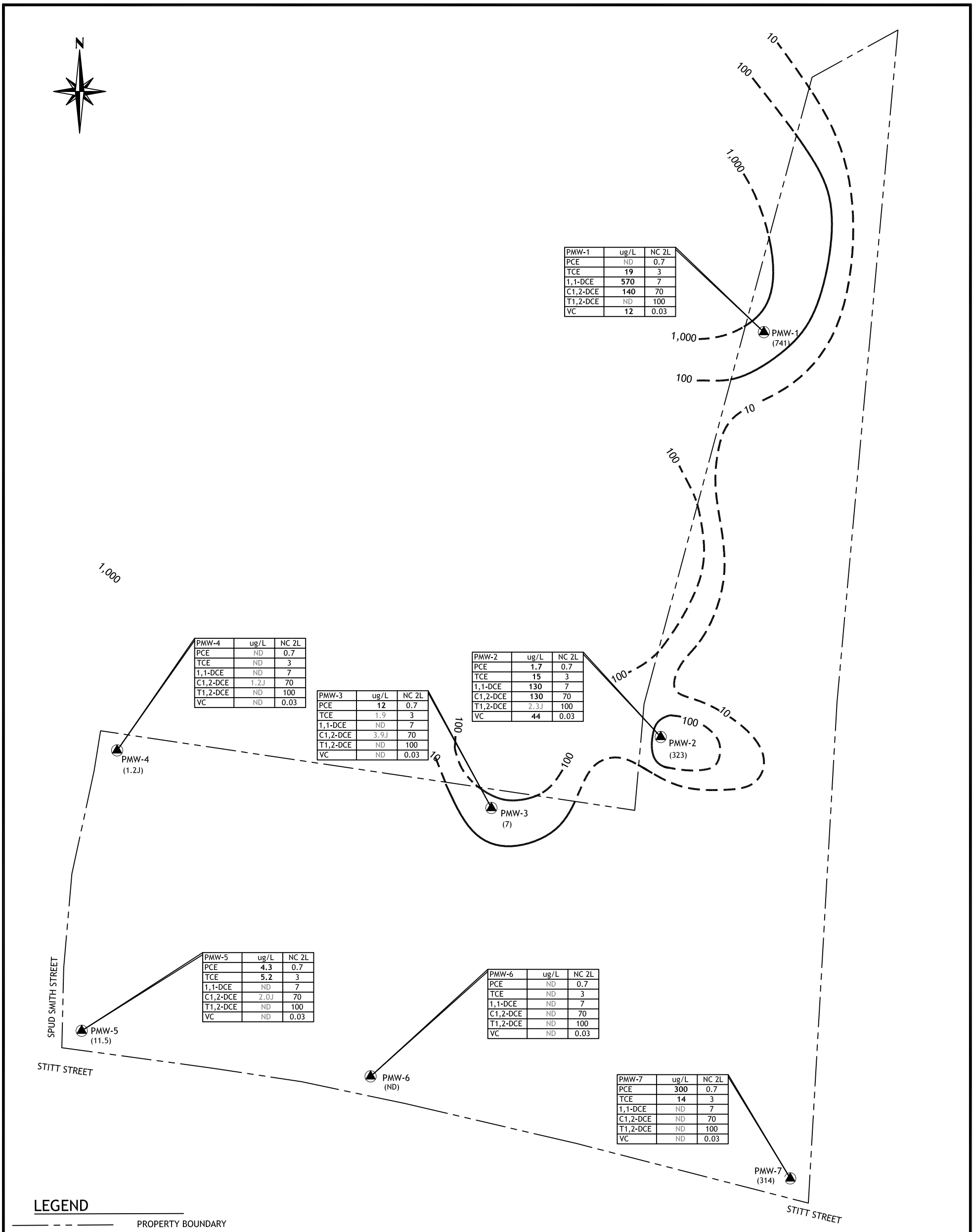

PMW-1	ug/L	NC 2L
PCE	ND	0.7
TCE	**19**	3
1,1-DCE	**570**	7
C1,2-DCE	**140**	70
T1,2-DCE	ND	100
VC	**12**	0.03

PMW-4	ug/L	NC 2L
PCE	ND	0.7
TCE	ND	3
1,1-DCE	ND	7
C1,2-DCE	1.2J	70
T1,2-DCE	ND	100
VC	ND	0.03

PMW-3	ug/L	NC 2L
PCE	**12**	0.7
TCE	1.9	3
1,1-DCE	ND	7
C1,2-DCE	3.9J	70
T1,2-DCE	ND	100
VC	ND	0.03

PMW-2	ug/L	NC 2L
PCE	**1.7**	0.7
TCE	**15**	3
1,1-DCE	**130**	7
C1,2-DCE	**130**	70
T1,2-DCE	2.3J	100
VC	**44**	0.03

PMW-5	ug/L	NC 2L
PCE	**4.3**	0.7
TCE	**5.2**	3
1,1-DCE	ND	7
C1,2-DCE	2.0J	70
T1,2-DCE	ND	100
VC	ND	0.03

PMW-6	ug/L	NC 2L
PCE	ND	0.7
TCE	ND	3
1,1-DCE	ND	7
C1,2-DCE	ND	70
T1,2-DCE	ND	100
VC	ND	0.03

PMW-7	ug/L	NC 2L
PCE	**300**	0.7
TCE	**14**	3
1,1-DCE	ND	7
C1,2-DCE	ND	70
T1,2-DCE	ND	100
VC	ND	0.03

LEGEND

— — —	PROPERTY BOUNDARY
▲	MONITORING WELL
(ug/L)	MICROGRAMS PER LITER
(741)	TOTAL HALOGENATED ALKENES (ug/L)
———	TOTAL HALOGENATED ALKENES ISOCONCENTRATION LINE (ug/L)
— — —	INFERRED TOTAL HALOGENATED ALKENES ISOCONCENTRATION LINE (ug/L)
(ND)	NOT DETECTED AT OR ABOVE LABORATORY DETECTION LIMITS FOR THE REPORT.
NC 2L	NORTH CAROLINA 2L GROUNDWATER STANDARDS

HALOGENATED ALKENES (ug/L)

PCE	TETRACHLOROETHENE
TCE	TRICHLOROETHENE
1,1-DCE	1,1-DICHLOROETHENE
C1,2-DCE	cis-1,2-DICHLOROETHENE
T1,2-DCE	trans-1,2-DICHLOROETHENE
VC	VINYL CHLORIDE
570	BOLD IN WELL TABLE INDICATES CONSTITUENT EXCEEDS NORTH CAROLINA GROUNDWATER STANDARDS (NC 2L)

NOTES:
1. GROUNDWATER SAMPLES COLLECTED ON 09/06/11.
2. CONTOUR INTERVALS = AS SHOWN.
3. SITE INFORMATION DETERMINED BYUNION COUNTY GIS AND FIELD MEASUREMENTS.
4. ALL LOCATIONS ARE APPROXIMATE.

GRAPHIC SCALE
0 50 100 150 200
SCALE: 1 in. = 200 ft.

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HALOGENATED ALKENES CONSTITUENT MAP

PARCEL 09084036
4029 STITT STREET
MONROE, NORTH CAROLINA
SHIELD #1110051-01

DATE :	09/30/11	DRAWN BY :	RBS
SCALE :	AS SHOWN	FIGURE :	5

TABLE 1
MONITORING WELL CONSTRUCTION DETAILS
PARCEL ID#09084036
4029 STITT STREET
MONROE, NORTH CAROLINA

Well Identification	Top of Casing Elevation (Feet above Datum)	Ground Elevation (Feet above Datum)	Depth to Rock (Feet below Ground Surface)	Depth Drilled (Feet below Ground Surface)	Top of Monitoring Interval (Feet below Ground Surface) [1]	Monitoring Interval Depth Range (Feet below Ground Surface) [2]	Top of Screen (Feet below Ground Surface)	Screen Interval Depth Range (Feet below Ground Surface)	Measured Total Depth (Feet below Ground Surface)
PMW-1	119.87	118.0	5	40	28	28 - 40	30	30 - 40	42.7
PMW-2	114.85	112.8	14	30.5	17	17 - 30.5	20.5	20.5 - 30.5	32.8
PMW-3	122.38	120.9	25	40	28	28 - 40	30	30 - 40	43.0
PMW-4	113.47	111.5	15	40	28	28 - 40	30	30 - 40	43.0
PMW-5	116.19	116.7	21	40	28	28 - 40	30	30 - 40	40.3
PMW-6	125.98	126.4	25	45	33	33 - 45	35	35 - 45	45.0
PMW-7	103.10	101.2	8	40	28	28 - 40	30	30 - 40	40.0

[1] Top of Monitoring Interval represents the top of the Sand in the Annular space around the Well Screen
[2] Monitoring Interval represents the top and bottom of the Sand in the Annular space around the Well Screen

NOTES:
1) All measurements shown in feet
2) Datum - Set at 100.00 Feet below the Top of Casing at MW-1

TABLE 2
GROUND WATER ELEVATION DATA
PARCEL ID#09084036
4029 STITT STREET
MONROE, NORTH CAROLINA

Well Identification	TOC Elevation (Feet above Datum)	Ground Elevation (Feet above Datum)	Depth to Groundwater (Feet below ToC)	Groundwater Elevation (Feet above Datum)
			October 3, 2011	
PMW-1	119.87	118.0	30.26	89.61
PMW-2	114.85	112.8	23.51	91.34
PMW-3	122.88	120.9	30.82	92.06
PMW-4	113.47	111.5	20.72	92.75
PMW-5	116.19	116.7	18.71	97.48
PMW-6	125.98	126.4	31.53	94.45
PMW-7	103.10	101.2	11.58	91.52

NOTES:
1) Depths to Groundwater measured on Date Shown
2) NE = Not Established
3) TOC = Top of casing
4) GS = Ground Surface
5) Datum = Top of Casing for MW-1 is 100.00 Feet Datum

H:\Projects\2011\1110051-01 Cooper Tools LLC - Monroe Plant\Parcel ID09084

TABLE 3
SOIL ANALYTICAL DATA
PARCEL ID#09084036
4029 STITT STREET
MONROE, NORTH CAROLINA

PARAMETER		SAMPLE DATE →	09/08/11	09/08/11	09/08/11
		SAMPLE INTERVAL →	3'	3'	3'
		NCDENR IHSB RGs	SPMW-1	SPMW-2	SPMW-3
POLYCHLORINATED BIPHENYLS					
PCB-1016	mg/kg	1.0	ND	ND	ND
PCB-1221	mg/kg	1.0	ND	ND	ND
PCB-1232	mg/kg	1.0	ND	ND	ND
PCB-1248	mg/kg	1.0	ND	ND	ND
PCB-1254	mg/kg	1.0	ND	ND	ND
PCB-1260	mg/kg	1.0	ND	ND	ND
Total Polychlorinated Biphenyls	mg/kg	1.0	0.0	0.0	0.0
METALS					
Antimony	mg/kg	6.2	NS	ND	NS
Arsenic	mg/kg	0.39	NS	**3.10J**	NS
Beryllium	mg/kg	32.0	NS	**0.269J**	NS
Cadmium	mg/kg	14.0	NS	ND	NS
Chromium (Total)	mg/kg	NE	NS	**14.2**	NS
Chromium (Hexavalent)	mg/kg	0.29	NS	**0.50J**	NS
Copper	mg/kg	620	NS	**6.41J**	NS
Lead	mg/kg	400	NS	**10.6**	NS
Mercury	mg/kg	2.0	NS	**0.0162J**	NS
Nickel	mg/kg	300	NS	**2.41J**	NS
Selenium	mg/kg	78	NS	ND	NS
Silver	mg/kg	78	NS	ND	NS
Thallium	mg/kg	0.16	NS	**1.12J**	NS
Zinc	mg/kg	4,600	NS	**10.1**	NS

NOTES:

1) mg/kg - milligrams per kilogram.
2) NE - Not Established
3) ND - Not detected at or above laboratory method detection limits.
4) Depths in feet below grade level.
5) Shaded values indicate concentrations exceed North Carolina Department of Environment and Natural Resources - Inactive Hazardous Sites Branch (NCDENR IHSB) Soil Remediation Goals (RGs).

TABLE 4
GROUNDWATER ANALYTICAL DATA
PARCEL ID#09084036
4029 STITT STREET
MONROE, NORTH CAROLINA

PARAMETER	UNITS	NC 2L Groundwater Standards	GROUNDWATER SAMPLE IDENTIFICATION								QA/QC SAMPLE IDENTIFICATION					
			PMW-1	PMW-2	PMW-3	PMW-4	PMW-4 (Dup)	PMW-5	PMW-6	PMW-7	Rinse Blank	Trip Blank	Field Blank	Rinse Blank	Trip Blank	Field Blank
			09/06/11	09/08/11	09/06/11	09/06/11	09/06/11	09/06/11	09/06/11	09/08/11	09/06/11	09/06/11	09/06/11	09/08/11	09/08/11	09/08/11
VOLATILE ORGANIC COMPOUNDS																
1,1,1-Trichloroethane	µg/l	200	**780**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	µg/l	0.6	**70**	**0.85J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	µg/l	6	ND	**1.2**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	µg/l	6	**960**	**75**	ND	**0.46J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	µg/l	0.4	**14**	**3**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	µg/l	7	**570**	**130**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	µg/l	70	ND	**1.3J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	µg/l	6000	ND	ND	ND	**3.9J**	**4.6J**	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	µg/l	3000	**49**	**4.0J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	µg/l	70	ND	ND	ND	ND	ND	ND	**1.4J**	ND	ND	ND	ND	ND	ND	ND
Cis-1,2-Dichloroethene	µg/l	70	**140**	**130**	**3.9J**	**1.2J**	**1.1J**	**2.0J**	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	µg/l	0.7	ND	**1.7**	**12**	ND	ND	**4.3**	ND	**300**	ND	ND	ND	ND	ND	ND
Trans-1,2-Dichloroethene	µg/l	100	ND	**2.3J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	µg/l	3	**19**	**15**	**1.9**	ND	ND	**5.2**	ND	**14**	ND	ND	ND	ND	ND	ND
Vinyl Chloride	µg/l	0.03	**12**	**44**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Volatile Organic Compounds			2614	408.35	17.8	5.56	5.7	11.5	1.4	314	0	0	0	0	0	0
METALS																
Antimony	µg/l	1	**0.278J**	**0.698J**	**0.227J**	**3.34**	**2.29**	**0.541J**	ND	**0.356J**	ND	NA	ND	ND	ND	ND
Arsenic	µg/l	10	ND	**84.8**	**5.17J**	ND	**5.02J**	ND	**7.72J**	**8.41J**	ND	NA	ND	ND	ND	ND
Beryllium	µg/l	4	ND	**2.4**	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND
Cadmium	µg/l	2	**0.494J**	**3.15**	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND
Chromium	µg/l	10	**1.54J**	**77.2**	**1.43J**	**5.36J**	**23**	**4.52J**	**2.86J**	**2.36J**	**2.04J**	NA	**2.23J**	ND	ND	**2.23J**
Chromium (Hexavalent)	µg/l	NE	**0.0094J**	**0.0094J**	**0.0073J**	ND	**0.0057J**	ND	ND	**0.0083J**	ND	NA	ND	ND	ND	ND
Copper	µg/l	1000	**2.51J**	**378**	**5.2J**	**4.01J**	**13.1**	**9.6J**	**5.94J**	**8.2J**	ND	NA	ND	ND	ND	ND
Lead	µg/l	15	ND	**302**	**4.05J**	ND	**20.5**	**5.13J**	ND	**3.65J**	ND	NA	ND	ND	ND	ND
Mercury	µg/l	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND
Nickel	µg/l	100	**4.24J**	**102**	ND	**3.39J**	**18.9**	**4.87J**	**3.9J**	ND	ND	NA	ND	ND	ND	ND
Selenium	µg/l	20	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	**2.81J**	ND	ND	**2.81J**
Silver	µg/l	20	ND	**4.56J**	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND
Thallium	µg/l	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND
Zinc	µg/l	1000	ND	**245**	ND	**6.67J**	**45.6**	**12.9**	**7.44J**	**5.59J**	ND	NA	ND	ND	ND	ND
FINAL FIELD MEASUREMENTS																
pH	S.U.	6.5-8.5	6.83	6.86	6.62	7.36	7.36	7.47	6.93	7.13	NA	NA	NA	NA	NA	NA
Temperature	°C	NE	17.0	17.9	17.8	17.4	17.4	18.60	18.20	20.60	NA	NA	NA	NA	NA	NA
Conductivity	µS/cm	NE	297.0	999.0	304.0	411.0	411.0	779.0	374.0	900.0	NA	NA	NA	NA	NA	NA
Dissolved Oxygen	mg/l	NE	10.76	6.34	8.20	8.73	8.73	9.91	3.63	8.15	NA	NA	NA	NA	NA	NA
Oxidation Reduction Potential	mV	NE	397.00	5.00	404.00	370.00	370.00	111.00	344.00	125.00	NA	NA	NA	NA	NA	NA

Notes:

1) Standards were taken from the North Carolina Administrative Code Title 15A, Chapter 2L, Section .0202 Groundwater Quality Standards (NC 2L Standards)
Values for 1,1,2-Trichloroethane and Antimony are the Groundwater Interim Maximum Allowable Concentrations established as of August 1, 2010.
2) µg/l - micrograms per liter
3) mg/l - milligrams per liter
4) J - The analyte was positively identified but the value is estimated below the laboratory reporting limit.
5) NA - Not Analyzed
6) ND - Not detected at or above laboratory method detection limits.
7) NE - Not established
8) **Bold** values indicate concentrations above the Method Detection Limit (MDL) and Shaded values indicate concentrations exceed NC 2L Standards.

BORING LOG

SHIELD ENGINEERING, INC.

Report No.: **1110051-02** DATE: **September 15, 2011**

Client: **Cooper Tools, LLC**

Project: **Parcel 09084036 Monroe, NC**

Boring No.: **PMW-1** | Total Depth **40.0'** | Elev: | Location:

Type of Boring: **Air Rotary** | Started: **9/1/11** | Completed: **9/2/11** | Driller: **Geologic Exploration**

Elevation	Depth	DESCRIPTION OF MATERIALS (Classification)	* Sample Blows	Sample Depth (Feet)	OVA (ppm)	WELL LOG	REMARKS
		Red, orange Clayey SILT with rock fragments of red, brown meta-mudstone					
	4.00	Black, tan fine Sandy, Clayey SILT with fragments of red, brown meta-mudstone		5.0	36.40		Set 2" PVC well to 40 ft.
				10.0	16.53		Grout to surface.
	18.00	As above with large fragments of gray meta-argillite		20.0	18.09		
	22.00	Top of Rock					Bentonite 23 to 28 ft.
							Sand 28 to 40 ft.
	30.00	Rock described as gray to dark gray meta-argillite with abundant light gray clayey silt		30.0	15.07		Soft rock 30 to 32 ft.
	38.00						0.010-inch machine slotted screen 30 to 40 ft.
	40.00	Dark gray meta-argillite with trace light gray clayey silt		40.0	13.33		
		Boring terminated at 40 feet.					

*Number of blows required for a 140 lb hammer dropping 30" to drive 2" O.D., 1.375" I.D. sampler a total of 18 inches in three 6" increments. The sum of the last two increments of penetration is termed the standard penetration resistance, N.

BORING LOG

SHIELD ENGINEERING, INC.

Report No.: **1110051-02** DATE: **September 15, 2011**

Client: **Cooper Tools, LLC**

Project: **Parcel 09084036 Monroe, NC**

Boring No.: **PMW-2** | Total Depth **30.5'** | Elev: | Location:

Type of Boring: **Air Rotary** | Started: **9/7/11** | Completed: **9/7/11** | Driller: **Geologic Exploration**

Elevation	Depth	DESCRIPTION OF MATERIALS (Classification)	* Sample Blows	Sample Depth (Feet)	OVA (ppm)	WELL LOG	REMARKS
		Tan, brown, orange fine to coarse Sandy SILT with rock fragments described as tan, brown meta-mudstone		5.0	7.68		Set 2" PVC well to 30.5 ft.
	7.00	Orange, light brown Clayey fine Sandy SILT with fragments of brown, tan meta-mudstone		10.0	9.07		Grout to surface.
	14.00	Rock					Bentonite 13 to 17 ft.
	16.00	Brown Silty fine to coarse SAND					
	18.00	Rock described as gray to dark gray meta-argillite with light gray clayey silt grading to ...		20.0	11.71		Sand 17 to 30.5 ft. 0.010-inch machine slotted screen 20.5 to 30.5 ft.
	28.00	dark gray meta-argillite		30.0	7.14		Possible water at 30 ft.
	30.50	Boring terminated at 30.5 feet.					

*Number of blows required for a 140 lb hammer dropping 30" to drive 2" O.D., 1.375" I.D. sampler a total of 18 inches in three 6" increments. The sum of the last two increments of penetration is termed the standard penetration resistance, N.

BORING LOG

SHIELD ENGINEERING, INC.

Report No.: **1110051-02** DATE: **September 15, 2011**

Client: **Cooper Tools, LLC**

Project: **Parcel 09084036 Monroe, NC**

Boring No.: **PMW-3** | Total Depth **40.0'** | Elev: | Location:

Type of Boring: **Air Rotary** | Started: **8/31/11** | Completed: **9/2/11** | Driller: **Geologic Exploration**

Elevation	Depth	DESCRIPTION OF MATERIALS (Classification)	* Sample Blows	Sample Depth (Feet)	OVA (ppm)	WELL LOG	REMARKS
		Tan, orange Clayey fine Sandy SILT with fragments of tan, red, brown meta-mudstone					
	4.50	Light brown fine to coarse Sandy SILT with fragments of brown, tan meta-mudstone and white clay nodules		5.0	14.03		Set 2" PVC well to 40 ft.
				10.0	16.19		Grout to surface.
	20.00	Light brown fine to medium Sandy Clayey SILT with abundant fragments of tan, red, brown meta-mudstone		20.0	16.51		
	25.00	Rock					Bentonite 23 to 28 ft.
							Sand 28 to 40 ft.
	30.00	Rock described as gray to dark gray meta-argillite with orange, tan, light gray clayey silt		30.0	14.97		
							0.010-inch machine slotted screen 30 to 40 ft.
	38.00	Dark gray meta-argillite					
	40.00	Boring terminated at 40 feet.		40.0	4.89		

*Number of blows required for a 140 lb hammer dropping 30" to drive 2" O.D., 1.375" I.D. sampler a total of 18 inches in three 6" increments. The sum of the last two increments of penetration is termed the standard penetration resistance, N.

BORING LOG

SHIELD ENGINEERING, INC.

Report No.: **1110051-02** DATE: **September 15, 2011**

Client: **Cooper Tools, LLC**

Project: **Parcel 09084036 Monroe, NC**

Boring No.: **PMW-4** | Total Depth **40.0'** | Elev: | Location:

Type of Boring: **Air Rotary** | Started: **8/31/11** | Completed: **9/2/11** | Driller: **Geologic Exploration**

Elevation	Depth	DESCRIPTION OF MATERIALS (Classification)	* Sample Blows	Sample Depth (Feet)	OVA (ppm)	WELL LOG	REMARKS
		Tan, orange Clayey fine to medium Sandy SILT with fragments of red, dark brown meta-mudstone					
	4.00	Tan, brown fine to medium Sandy SILT with abundant fragments of dark brown meta-mudstone		5.0	1.83		Set 2" PVC well to 40 ft.
				10.0	2.91		Grout to surface.
	15.00	Rock					Soft zone 16 to 17 ft.
	20.00	Light gray to dark gray meta-argillite with fragments of red, dark brown meta-mudstone		20.0	3.11		Bentonite 23 to 40 ft.
	30.00	grading to dark gray meta-argillite		30.0	6.71		Fracture at 28 ft. Sand 28 to 40 ft. 0.010-inch machine slotted screen 30 to 40 ft.
	40.00	Boring terminated at 40 feet.		40.0	18.96		

*Number of blows required for a 140 lb hammer dropping 30" to drive 2" O.D., 1.375" I.D. sampler a total of 18 inches in three 6" increments. The sum of the last two increments of penetration is termed the standard penetration resistance, N.

BORING LOG

SHIELD ENGINEERING, INC.

Report No.: **1110051-02** DATE: **September 15, 2011**

Client: **Cooper Tools, LLC**

Project: **Parcel 09084036 Monroe, NC**

Boring No.: **PMW-5** | Total Depth **40.0'** | Elev: | Location:

Type of Boring: **Air Rotary** | Started: **9/1/11** | Completed: **9/2/11** | Driller: **Geologic Exploration**

Elevation	Depth	DESCRIPTION OF MATERIALS (Classification)	* Sample Blows	Sample Depth (Feet)	OVA (ppm)	WELL LOG	REMARKS
	3.00	Orange, brown fine to coarse Sandy Clayey SILT with fragments of tan, orange, brown meta-mudstone					
				5.0	13.54		
	10.00			10.0	23.60		
		Tan, brown Clayey SILT with fragments of light gray, brown meta-mudstone and nodules of white clay					
	20.00			20.0	22.56		
	21.00	As above					
		Rock					
	30.00			30.0	20.89		
		Light gray to gray meta-argillite with red, brown meta-mudstone and tan medium to coarse sand					Fracture at 34 ft.
	39.00						
	40.00	grading to dark gray meta-argillite		40.0	10.36		
		Boring terminated at 40 feet.					

*Number of blows required for a 140 lb hammer dropping 30" to drive 2" O.D., 1.375" I.D. sampler a total of 18 inches in three 6" increments. The sum of the last two increments of penetration is termed the standard penetration resistance, N.

BORING LOG

SHIELD ENGINEERING, INC.

Report No.: **1110051-02** DATE: **September 15, 2011**

Client: **Cooper Tools, LLC**

Project: **Parcel 09084036 Monroe, NC**

Boring No.: **PMW-6** | Total Depth **45.0'** | Elev: | Location:

Type of Boring: **Air Rotary** | Started: **9/1/11** | Completed: **9/2/11** | Driller: **Geologic Exploration**

Elevation	Depth	DESCRIPTION OF MATERIALS (Classification)	* Sample Blows	Sample Depth (Feet)	OVA (ppm)	WELL LOG	REMARKS
		White, orange fine to coarse Sandy SILT with fragments of orange, brown meta-mudstone and white clay nodules					
	4.00	Tan, light brown Clayey SILT with fragments of dark brown meta-mudstone and white clay		5.0	10.89		
				10.0	13.75		
	20.00	As above with abundant meta-mudstone fragments		20.0	13.64		
	25.00	Rock					
	30.00	Gray to dark gray meta-argillite with tan, gray fine to coarse sand		30.0	16.84		Soft zone 28.5 to 29 ft.
	40.00			40.0	3.79		
	40.50	Dark brown SILT with rock fragments					Fracture at 40 ft.
		Gray to dark gray meta-argillite					
	45.00	Boring terminated at 45 feet.					

*Number of blows required for a 140 lb hammer dropping 30" to drive 2" O.D., 1.375" I.D. sampler a total of 18 inches in three 6" increments. The sum of the last two increments of penetration is termed the standard penetration resistance, N.

BORING LOG

SHIELD ENGINEERING, INC.

Report No.: **1110051-02** DATE: **September 15, 2011**

Client: **Cooper Tools, LLC**

Project: **Parcel 09084036 Monroe, NC**

Boring No.: **PMW-7** | Total Depth **40.0'** | Elev: | Location:

Type of Boring: **Air Rotary** | Started: **9/7/11** | Completed: **9/8/11** | Driller: **Geologic Exploration**

Elevation	Depth	DESCRIPTION OF MATERIALS (Classification)	* Sample Blows	Sample Depth (Feet)	OVA (ppm)	WELL LOG	REMARKS
		Orange, light brown Clayey fine to medium Sandy SILT with abundant fragments of dark red, dark brown meta-mudstone with white clay nodules and milky quartz (large piece >1 inch)		5.0	5.97		Set 2" PVC well to 40 ft.
	8.00	Rock					Grout to surface.
		Light to dark gray meta-argillite and tan, gray, brown meta-mudstone		10.0	4.47		Soft zone at 11 ft.
							Soft zone at 17 ft.
	20.00	Gray to dark gray meta-argillite		20.0	6.32		
							Bentonite 24 to 28 ft.
							Sand 28 to 40 ft.
				30.0	7.66		
							Soft zone at 32 ft.
							0.010-inch machine slotted screen 30 to 40 ft.
							Soft zone at 37 ft. Some water
	39.00						
	40.00	As above - wet					
		Boring terminated at 40 feet.					

*Number of blows required for a 140 lb hammer dropping 30" to drive 2" O.D., 1.375" I.D. sampler a total of 18 inches in three 6" increments. The sum of the last two increments of penetration is termed the standard penetration resistance, N.

Environmental Conservation Laboratories, Inc.
102-A Woodwinds Industrial Court
Cary NC, 27511
Phone: 919.467.3090 FAX: 919.467.3515
www.encolabs.com

Wednesday, September 21, 2011

Shield Engineering, Inc. (SH007)

Attn: David Wallace

4301 Taggart Creek Road

Charlotte, NC 28208

RE: Laboratory Results for
Project Number: 1110051-02, Project Name/Desc: Parcel # 09084036
ENCO Workorder: C110554

Dear David Wallace,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Wednesday, September 7, 2011.

Unless otherwise noted in an attached project narrative, all samples were received in acceptable condition and processed in accordance with the referenced methods/procedures. Results for these procedures apply only to the samples as submitted.

The analytical results contained in this report are in compliance with NELAC standards, except as noted in the project narrative. This report shall not be reproduced except in full, without the written approval of the Laboratory.

This report contains only those analyses performed by Environmental Conservation Laboratories. Unless otherwise noted, all analyses were performed at ENCO Cary. Data from outside organizations will be reported under separate cover.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Stephanie Franz

Project Manager

Enclosure(s)

The total number of pages in this report, including this page is 91.

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SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: PMW-1 | Lab ID: C110554-01 | Sampled: 09/06/11 15:40 | Received: 09/07/11 16:40

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	03/04/12	09/08/11 10:57	9/12/2011 10:53
EPA 6020A	03/04/12	09/12/11 10:25	9/21/2011 09:46
EPA 7470A	10/04/11	09/13/11 11:00	9/13/2011 14:38

Client ID: PMW-1 | Lab ID: C110554-01RE1 | Sampled: 09/06/11 15:40 | Received: 09/07/11 16:40

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260B	09/20/11	09/09/11 12:26	9/13/2011 06:25

Client ID: PMW-3 | Lab ID: C110554-02 | Sampled: 09/06/11 16:04 | Received: 09/07/11 16:40

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	03/04/12	09/08/11 10:57	9/12/2011 10:55
EPA 6020A	03/04/12	09/12/11 10:25	9/21/2011 09:57
EPA 7470A	10/04/11	09/13/11 11:00	9/13/2011 14:51

Client ID: PMW-3 | Lab ID: C110554-02RE1 | Sampled: 09/06/11 16:04 | Received: 09/07/11 16:40

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260B	09/20/11	09/09/11 12:26	9/13/2011 05:56

Client ID: PMW-4 | Lab ID: C110554-03 | Sampled: 09/06/11 16:20 | Received: 09/07/11 16:40

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	03/04/12	09/08/11 10:57	9/12/2011 10:57
EPA 6020A	03/04/12	09/12/11 10:25	9/21/2011 10:01
EPA 7470A	10/04/11	09/13/11 11:00	9/13/2011 14:54
EPA 8260B	09/20/11	09/09/11 12:26	9/10/2011 04:06

Client ID: PMW-5 | Lab ID: C110554-04 | Sampled: 09/06/11 16:45 | Received: 09/07/11 16:40

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	03/04/12	09/08/11 10:57	9/12/2011 10:59
EPA 6020A	03/04/12	09/12/11 10:25	9/21/2011 10:05
EPA 7470A	10/04/11	09/13/11 11:00	9/13/2011 14:58
EPA 8260B	09/20/11	09/09/11 12:26	9/10/2011 04:35

Client ID: PMW-6 | Lab ID: C110554-05 | Sampled: 09/06/11 17:00 | Received: 09/07/11 16:40

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	03/04/12	09/08/11 10:57	9/12/2011 11:01
EPA 6020A	03/04/12	09/12/11 10:25	9/21/2011 09:21
EPA 7470A	10/04/11	09/13/11 11:00	9/13/2011 15:00
EPA 8260B	09/20/11	09/09/11 12:26	9/10/2011 05:04

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Client ID:	PMW-4D	Lab ID: C110554-06	Sampled: 09/06/11 16:25	Received: 09/07/11 16:40
Parameter	**Hold Date/Time(s)**	**Prep Date/Time(s)**	**Analysis Date/Time(s)**	
EPA 6010C	03/04/12	09/08/11 10:57	9/12/2011 11:03	
EPA 6020A	03/04/12	09/12/11 10:25	9/21/2011 10:08	
EPA 7470A	10/04/11	09/13/11 11:00	9/13/2011 15:03	
EPA 8260B	09/20/11	09/09/11 12:26	9/10/2011 05:33	

Client ID:	Rinse Blank	Lab ID: C110554-07	Sampled: 09/06/11 14:50	Received: 09/07/11 16:40
Parameter	**Hold Date/Time(s)**	**Prep Date/Time(s)**	**Analysis Date/Time(s)**	
EPA 6010C	03/04/12	09/08/11 10:57	9/12/2011 11:05	
EPA 6020A	03/04/12	09/12/11 10:25	9/21/2011 10:12	
EPA 7470A	10/04/11	09/13/11 11:00	9/13/2011 15:06	
EPA 8260B	09/20/11	09/09/11 12:26	9/10/2011 06:02	

Client ID:	Field Blank	Lab ID: C110554-08	Sampled: 09/06/11 16:35	Received: 09/07/11 16:40
Parameter	**Hold Date/Time(s)**	**Prep Date/Time(s)**	**Analysis Date/Time(s)**	
EPA 6010C	03/04/12	09/08/11 10:57	9/12/2011 11:12	
EPA 6020A	03/04/12	09/12/11 10:25	9/21/2011 11:01	
EPA 7470A	10/04/11	09/13/11 11:00	9/13/2011 15:09	
EPA 8260B	09/20/11	09/09/11 12:26	9/10/2011 06:32	

Client ID:	Trip Blank	Lab ID: C110554-09	Sampled: 09/06/11 14:50	Received: 09/07/11 16:40
Parameter	**Hold Date/Time(s)**	**Prep Date/Time(s)**	**Analysis Date/Time(s)**	
EPA 8260B	09/20/11	09/09/11 12:26	9/10/2011 07:01	

Client ID:	PMW-1	Lab ID: C110855-01	Sampled: 09/08/11 16:45	Received: 09/09/11 09:48
Parameter	**Hold Date/Time(s)**	**Prep Date/Time(s)**	**Analysis Date/Time(s)**	
EPA 7196A	09/09/11 16:45	09/09/11 11:16	9/9/2011 11:16	

Client ID:	PMW-3	Lab ID: C110855-02	Sampled: 09/08/11 17:05	Received: 09/09/11 09:48
Parameter	**Hold Date/Time(s)**	**Prep Date/Time(s)**	**Analysis Date/Time(s)**	
EPA 7196A	09/09/11 17:05	09/09/11 11:16	9/9/2011 11:16	

Client ID:	PMW-4	Lab ID: C110855-03	Sampled: 09/08/11 17:14	Received: 09/09/11 09:48
Parameter	**Hold Date/Time(s)**	**Prep Date/Time(s)**	**Analysis Date/Time(s)**	
EPA 7196A	09/09/11 17:14	09/09/11 11:16	9/9/2011 11:16	

Client ID:	PMW-4D	Lab ID: C110855-04	Sampled: 09/08/11 17:18	Received: 09/09/11 09:48
Parameter	**Hold Date/Time(s)**	**Prep Date/Time(s)**	**Analysis Date/Time(s)**	
EPA 7196A	09/09/11 17:18	09/09/11 11:16	9/9/2011 11:16	

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Client ID: PMW-5	Lab ID: C110855-05	Sampled: 09/08/11 17:21	Received: 09/09/11 09:48

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 7196A	09/09/11 17:21	09/09/11 11:16	9/9/2011 11:16

Client ID: PMW-6	Lab ID: C110855-06	Sampled: 09/08/11 17:32	Received: 09/09/11 09:48

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 7196A	09/09/11 17:32	09/09/11 11:16	9/9/2011 11:16

Client ID: PMW-7	Lab ID: C110855-07	Sampled: 09/08/11 17:33	Received: 09/09/11 09:48

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 7196A	09/09/11 17:33	09/09/11 11:16	9/9/2011 11:16
EPA 6010C	03/06/12	09/12/11 10:20	9/14/2011 12:04
EPA 6020A	03/06/12	09/12/11 10:25	9/21/2011 11:04
EPA 7470A	10/06/11	09/13/11 11:00	9/13/2011 14:17

Client ID: PMW-7	Lab ID: C110855-07RE1	Sampled: 09/08/11 17:33	Received: 09/09/11 09:48

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260B	09/22/11	09/15/11 07:34	9/15/2011 16:33

Client ID: PMW-2	Lab ID: C110855-08	Sampled: 09/08/11 17:50	Received: 09/09/11 09:48

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 7196A	09/09/11 17:50	09/09/11 11:16	9/9/2011 11:16
EPA 6010C	03/06/12	09/12/11 10:20	9/14/2011 12:06
EPA 6020A	03/06/12	09/12/11 10:25	9/21/2011 11:08
EPA 7470A	10/06/11	09/13/11 11:00	9/13/2011 15:12

Client ID: PMW-2	Lab ID: C110855-08RE1	Sampled: 09/08/11 17:50	Received: 09/09/11 09:48

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260B	09/22/11	09/15/11 07:34	9/15/2011 17:03

Client ID: Rinse Blank	Lab ID: C110855-09	Sampled: 09/08/11 16:30	Received: 09/09/11 09:48

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 7196A	09/09/11 16:30	09/09/11 11:16	9/9/2011 11:16
EPA 6010C	03/06/12	09/12/11 10:20	9/14/2011 12:08
EPA 6020A	03/06/12	09/12/11 10:25	9/21/2011 11:11
EPA 7470A	10/06/11	09/13/11 11:00	9/13/2011 15:15
EPA 8260B	09/22/11	09/13/11 12:52	9/14/2011 11:34

Client ID: SPMW-1	Lab ID: C110855-10	Sampled: 09/08/11 14:25	Received: 09/09/11 09:48

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8082A	09/07/12 09/12/12	09/13/11 06:44	9/13/2011 18:43

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Client ID: SPMW-2	Lab ID: C110855-11	Sampled: 09/08/11 13:43	Received: 09/09/11 09:48

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 7196A	10/08/11	09/21/11	09/14/11	10:57	9/15/2011 10:40
EPA 6010C	03/06/12		09/13/11	12:00	9/14/2011 13:04
EPA 7471B	10/06/11		09/14/11	10:04	9/14/2011 14:59
EPA 8082A	09/07/12	09/12/12	09/13/11	06:44	9/13/2011 18:56

Client ID: SPMW-3	Lab ID: C110855-12	Sampled: 09/08/11 13:56	Received: 09/09/11 09:48

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8082A	09/07/12	09/12/12	09/13/11	06:44	9/13/2011 19:10

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SAMPLE DETECTION SUMMARY

Client ID: PMW-1 **Lab ID: C110554-01**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Antimony - Total	0.278	J	0.220	2.00	ug/L	EPA 6020A	
Cadmium - Total	0.494	J	0.360	1.00	ug/L	EPA 6010C	
Chromium - Total	1.54	J	1.00	10.0	ug/L	EPA 6010C	
Copper - Total	2.51	J	1.60	10.0	ug/L	EPA 6010C	
Nickel - Total	4.24	J	1.80	10.0	ug/L	EPA 6010C	

Client ID: PMW-1 **Lab ID: C110554-01RE1**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
1,1,1-Trichloroethane	780	D	13	20	ug/L	EPA 8260B	
1,1,2-Trichloroethane	70	D	13	20	ug/L	EPA 8260B	
1,1-Dichloroethane	960	D	1.6	20	ug/L	EPA 8260B	
1,1-Dichloroethene	570	D	12	20	ug/L	EPA 8260B	
1,2-Dichloroethane	14	JD	9.4	20	ug/L	EPA 8260B	
Chloroethane	49	D	15	20	ug/L	EPA 8260B	
cis-1,2-Dichloroethene	140	D	14	20	ug/L	EPA 8260B	
Trichloroethene	19	JD	14	20	ug/L	EPA 8260B	
Vinyl chloride	12	JD	12	20	ug/L	EPA 8260B	

Client ID: PMW-3 **Lab ID: C110554-02**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Antimony - Total	0.227	J	0.220	2.00	ug/L	EPA 6020A	
Arsenic - Total	5.17	J	2.80	10.0	ug/L	EPA 6010C	
Chromium - Total	1.43	J	1.00	10.0	ug/L	EPA 6010C	
Copper - Total	5.20	J	1.60	10.0	ug/L	EPA 6010C	
Lead - Total	4.05	J	1.90	10.0	ug/L	EPA 6010C	

Client ID: PMW-3 **Lab ID: C110554-02RE1**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
cis-1,2-Dichloroethene	3.9		0.72	1.0	ug/L	EPA 8260B	
Tetrachloroethene	12		0.73	1.0	ug/L	EPA 8260B	
Trichloroethene	1.9		0.72	1.0	ug/L	EPA 8260B	

Client ID: PMW-4 **Lab ID: C110554-03**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
1,1-Dichloroethane	0.46	J	0.080	1.0	ug/L	EPA 8260B	
Acetone	3.9	J	1.2	5.0	ug/L	EPA 8260B	
Antimony - Total	3.34		0.220	2.00	ug/L	EPA 6020A	
Chromium - Total	5.36	J	1.00	10.0	ug/L	EPA 6010C	
cis-1,2-Dichloroethene	1.2		0.72	1.0	ug/L	EPA 8260B	
Copper - Total	4.01	J	1.60	10.0	ug/L	EPA 6010C	
Nickel - Total	3.39	J	1.80	10.0	ug/L	EPA 6010C	
Selenium - Total	0.896	J	0.830	1.00	ug/L	EPA 6020A	
Zinc - Total	6.67	J	3.80	10.0	ug/L	EPA 6010C	

Client ID: PMW-5 **Lab ID: C110554-04**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Antimony - Total	0.541	J	0.220	2.00	ug/L	EPA 6020A	
Chromium - Total	4.52	J	1.00	10.0	ug/L	EPA 6010C	

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Client ID: PMW-5 **Lab ID: C110554-04**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
cis-1,2-Dichloroethene	2.0		0.72	1.0	ug/L	EPA 8260B	
Copper - Total	9.60	J	1.60	10.0	ug/L	EPA 6010C	
Lead - Total	5.13	J	1.90	10.0	ug/L	EPA 6010C	
Nickel - Total	4.87	J	1.80	10.0	ug/L	EPA 6010C	
Tetrachloroethene	4.3		0.73	1.0	ug/L	EPA 8260B	
Trichloroethene	5.2		0.72	1.0	ug/L	EPA 8260B	
Zinc - Total	12.9		3.80	10.0	ug/L	EPA 6010C	

Client ID: PMW-6 **Lab ID: C110554-05**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Arsenic - Total	7.72	J	2.80	10.0	ug/L	EPA 6010C	
Chloroform	1.4		0.70	1.0	ug/L	EPA 8260B	
Chromium - Total	2.86	J	1.00	10.0	ug/L	EPA 6010C	
Copper - Total	5.94	J	1.60	10.0	ug/L	EPA 6010C	
Nickel - Total	3.90	J	1.80	10.0	ug/L	EPA 6010C	
Zinc - Total	7.44	J	3.80	10.0	ug/L	EPA 6010C	

Client ID: PMW-4D **Lab ID: C110554-06**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Acetone	4.6	J	1.2	5.0	ug/L	EPA 8260B	
Antimony - Total	2.29		0.220	2.00	ug/L	EPA 6020A	
Arsenic - Total	5.02	J	2.80	10.0	ug/L	EPA 6010C	
Chromium - Total	23.0		1.00	10.0	ug/L	EPA 6010C	
cis-1,2-Dichloroethene	1.1		0.72	1.0	ug/L	EPA 8260B	
Copper - Total	13.1		1.60	10.0	ug/L	EPA 6010C	
Lead - Total	20.5		1.90	10.0	ug/L	EPA 6010C	
Nickel - Total	18.9		1.80	10.0	ug/L	EPA 6010C	
Zinc - Total	45.6		3.80	10.0	ug/L	EPA 6010C	

Client ID: Rinse Blank **Lab ID: C110554-07**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Copper - Total	2.04	J	1.60	10.0	ug/L	EPA 6010C	

Client ID: Field Blank **Lab ID: C110554-08**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Copper - Total	2.23	J	1.60	10.0	ug/L	EPA 6010C	
Selenium - Total	2.81	J	2.70	10.0	ug/L	EPA 6010C	

Client ID: PMW-1 **Lab ID: C110855-01**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Hexavalent Chromium	0.0094	J	0.0053	0.010	mg/L	EPA 7196A	

Client ID: PMW-3 **Lab ID: C110855-02**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Hexavalent Chromium	0.0073	J	0.0053	0.010	mg/L	EPA 7196A	

Client ID: PMW-4D **Lab ID: C110855-04**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Hexavalent Chromium	0.0057	J	0.0053	0.010	mg/L	EPA 7196A	

Client ID: PMW-7 **Lab ID: C110855-07**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Antimony - Total	0.356	J	0.220	2.00	ug/L	EPA 6020A	
Arsenic - Total	8.41	J	2.80	10.0	ug/L	EPA 6010C	
Chromium - Total	2.36	J	1.00	10.0	ug/L	EPA 6010C	
Copper - Total	8.20	J	1.60	10.0	ug/L	EPA 6010C	
Hexavalent Chromium	0.0083	J	0.0053	0.010	mg/L	EPA 7196A	
Lead - Total	3.65	J	1.90	10.0	ug/L	EPA 6010C	
Zinc - Total	5.59	J	3.80	10.0	ug/L	EPA 6010C	

Client ID: PMW-7 **Lab ID: C110855-07RE1**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Tetrachloroethene	300	D	3.6	5.0	ug/L	EPA 8260B	
Trichloroethene	14	D	3.6	5.0	ug/L	EPA 8260B	

Client ID: PMW-2 **Lab ID: C110855-08**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Antimony - Total	0.698	J	0.220	2.00	ug/L	EPA 6020A	
Arsenic - Total	84.8		2.80	10.0	ug/L	EPA 6010C	
Beryllium - Total	2.40		0.100	1.00	ug/L	EPA 6010C	
Cadmium - Total	3.15		0.360	1.00	ug/L	EPA 6010C	
Chromium - Total	77.2		1.00	10.0	ug/L	EPA 6010C	
Copper - Total	378		1.60	10.0	ug/L	EPA 6010C	
Hexavalent Chromium	0.0094	J	0.0053	0.010	mg/L	EPA 7196A	
Lead - Total	302		1.90	10.0	ug/L	EPA 6010C	
Nickel - Total	102		1.80	10.0	ug/L	EPA 6010C	
Selenium - Total	4.84		0.830	1.00	ug/L	EPA 6020A	
Silver - Total	4.56	J	1.90	10.0	ug/L	EPA 6010C	
Zinc - Total	245		3.80	10.0	ug/L	EPA 6010C	

Client ID: PMW-2 **Lab ID: C110855-08RE1**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
1,1,2-Trichloroethane	0.85	J	0.66	1.0	ug/L	EPA 8260B	
1,1-Dichloroethane	75		0.080	1.0	ug/L	EPA 8260B	
1,1-Dichloroethene	130		0.60	1.0	ug/L	EPA 8260B	
1,2,4-Trichlorobenzene	1.3		0.58	1.0	ug/L	EPA 8260B	
1,2-Dichloroethane	3.0		0.47	1.0	ug/L	EPA 8260B	
1,4-Dichlorobenzene	1.2		0.79	1.0	ug/L	EPA 8260B	
Chloroethane	4.0		0.75	1.0	ug/L	EPA 8260B	
cis-1,2-Dichloroethene	130		0.72	1.0	ug/L	EPA 8260B	
Tetrachloroethene	1.7		0.73	1.0	ug/L	EPA 8260B	
trans-1,2-Dichloroethene	2.3		0.12	1.0	ug/L	EPA 8260B	
Trichloroethene	15		0.72	1.0	ug/L	EPA 8260B	
Vinyl chloride	44		0.60	1.0	ug/L	EPA 8260B	

Client ID: SPMW-2 **Lab ID: C110855-11**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Arsenic - Total	3.10		0.112	0.562	mg/kg dry	EPA 6010C	
Beryllium - Total	0.269		0.0135	0.0562	mg/kg dry	EPA 6010C	
Chromium - Total	14.2		0.112	0.562	mg/kg dry	EPA 6010C	
Copper - Total	6.41		0.213	0.562	mg/kg dry	EPA 6010C	
Hexavalent Chromium	0.50	J	0.18	1.1	mg/kg dry	EPA 7196A	
Lead - Total	10.6		0.135	0.562	mg/kg dry	EPA 6010C	

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Client ID: SPMW-2			Lab ID: C110855-11				
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**	**Notes**
Mercury - Total	0.0162		0.00685	0.0112	mg/kg dry	EPA 7471B	
Nickel - Total	2.41	J	0.404	2.81	mg/kg dry	EPA 6010C	
Thallium - Total	1.12		0.112	0.562	mg/kg dry	EPA 6010C	
Zinc - Total	10.1		1.24	2.81	mg/kg dry	EPA 6010C	

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ANALYTICAL RESULTS

Description: PMW-1 | **Lab Sample ID:** C110554-01 | **Received:** 09/07/11 16:40

Matrix: Water | **Sampled:** 09/06/11 15:40 | **Work Order:** C110554

Project: Parcel # 09084036 | **Sampled By:** Danny Hefner

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	18	UD	ug/L	20	18	20	1I12006	EPA 8260B	09/13/11 06:25	JKG	
1,1,1-Trichloroethane [71-55-6] ^	**780**	D	ug/L	20	13	20	1I12006	EPA 8260B	09/13/11 06:25	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	15	UD	ug/L	20	15	20	1I12006	EPA 8260B	09/13/11 06:25	JKG	
1,1,2-Trichloroethane [79-00-5] ^	**70**	D	ug/L	20	13	20	1I12006	EPA 8260B	09/13/11 06:25	JKG	
1,1-Dichloroethane [75-34-3] ^	**960**	D	ug/L	20	1.6	20	1I12006	EPA 8260B	09/13/11 06:25	JKG	
1,1-Dichloroethene [75-35-4] ^	**570**	D	ug/L	20	12	20	1I12006	EPA 8260B	09/13/11 06:25	JKG	
1,1-Dichloropropene [563-58-6] ^	13	UD	ug/L	20	13	20	1I12006	EPA 8260B	09/13/11 06:25	JKG	
1,2,3-Trichlorobenzene [87-61-6] ^	10	UD	ug/L	20	10	20	1I12006	EPA 8260B	09/13/11 06:25	JKG	
1,2,3-Trichloropropane [96-18-4] ^	14	UD	ug/L	20	14	20	1I12006	EPA 8260B	09/13/11 06:25	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	12	UD	ug/L	20	12	20	1I12006	EPA 8260B	09/13/11 06:25	JKG	
1,2,4-Trimethylbenzene [95-63-6] ^	14	UD	ug/L	20	14	20	1I12006	EPA 8260B	09/13/11 06:25	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	9.6	UD	ug/L	20	9.6	20	1I12006	EPA 8260B	09/13/11 06:25	JKG	
1,2-Dibromoethane [106-93-4] ^	13	UD	ug/L	20	13	20	1I12006	EPA 8260B	09/13/11 06:25	JKG	
1,2-Dichlorobenzene [95-50-1] ^	2.2	UD	ug/L	20	2.2	20	1I12006	EPA 8260B	09/13/11 06:25	JKG	
1,2-Dichloroethane [107-06-2] ^	**14**	JD	ug/L	20	9.4	20	1I12006	EPA 8260B	09/13/11 06:25	JKG	
1,2-Dichloropropane [78-87-5] ^	12	UD	ug/L	20	12	20	1I12006	EPA 8260B	09/13/11 06:25	JKG	
1,3,5-Trimethylbenzene [108-67-8] ^	1.3	UD	ug/L	20	1.3	20	1I12006	EPA 8260B	09/13/11 06:25	JKG	
1,3-Dichlorobenzene [541-73-1] ^	16	UD	ug/L	20	16	20	1I12006	EPA 8260B	09/13/11 06:25	JKG	
1,3-Dichloropropane [142-28-9] ^	13	UD	ug/L	20	13	20	1I12006	EPA 8260B	09/13/11 06:25	JKG	
1,4-Dichlorobenzene [106-46-7] ^	16	UD	ug/L	20	16	20	1I12006	EPA 8260B	09/13/11 06:25	JKG	
2,2-Dichloropropane [594-20-7] ^	11	UD	ug/L	20	11	20	1I12006	EPA 8260B	09/13/11 06:25	JKG	
2-Butanone [78-93-3] ^	26	UD	ug/L	20	26	100	1I12006	EPA 8260B	09/13/11 06:25	JKG	
2-Chloroethyl Vinyl Ether [110-75-8] ^	22	UD	ug/L	20	22	100	1I12006	EPA 8260B	09/13/11 06:25	JKG	
2-Chlorotoluene [95-49-8] ^	1.4	UD	ug/L	20	1.4	20	1I12006	EPA 8260B	09/13/11 06:25	JKG	
2-Hexanone [591-78-6] ^	18	UD	ug/L	20	18	100	1I12006	EPA 8260B	09/13/11 06:25	JKG	
4-Chlorotoluene [106-43-4] ^	13	UD	ug/L	20	13	20	1I12006	EPA 8260B	09/13/11 06:25	JKG	
4-Isopropyltoluene [99-87-6] ^	16	UD	ug/L	20	16	20	1I12006	EPA 8260B	09/13/11 06:25	JKG	
4-Methyl-2-pentanone [108-10-1] ^	22	UD	ug/L	20	22	100	1I12006	EPA 8260B	09/13/11 06:25	JKG	
Acetone [67-64-1] ^	24	UD	ug/L	20	24	100	1I12006	EPA 8260B	09/13/11 06:25	JKG	
Benzene [71-43-2] ^	14	UD	ug/L	20	14	20	1I12006	EPA 8260B	09/13/11 06:25	JKG	
Bromobenzene [108-86-1] ^	12	UD	ug/L	20	12	20	1I12006	EPA 8260B	09/13/11 06:25	JKG	
Bromochloromethane [74-97-5] ^	17	UD	ug/L	20	17	20	1I12006	EPA 8260B	09/13/11 06:25	JKG	
Bromodichloromethane [75-27-4] ^	15	UD	ug/L	20	15	20	1I12006	EPA 8260B	09/13/11 06:25	JKG	
Bromoform [75-25-2] ^	14	UD	ug/L	20	14	20	1I12006	EPA 8260B	09/13/11 06:25	JKG	
Bromomethane [74-83-9] ^	12	UD	ug/L	20	12	20	1I12006	EPA 8260B	09/13/11 06:25	JKG	
Carbon disulfide [75-15-0] ^	30	UD	ug/L	20	30	100	1I12006	EPA 8260B	09/13/11 06:25	JKG	
Carbon tetrachloride [56-23-5] ^	14	UD	ug/L	20	14	20	1I12006	EPA 8260B	09/13/11 06:25	JKG	
Chlorobenzene [108-90-7] ^	15	UD	ug/L	20	15	20	1I12006	EPA 8260B	09/13/11 06:25	JKG	
Chloroethane [75-00-3] ^	**49**	D	ug/L	20	15	20	1I12006	EPA 8260B	09/13/11 06:25	JKG	
Chloroform [67-66-3] ^	14	UD	ug/L	20	14	20	1I12006	EPA 8260B	09/13/11 06:25	JKG	
Chloromethane [74-87-3] ^	11	UD	ug/L	20	11	20	1I12006	EPA 8260B	09/13/11 06:25	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	**140**	D	ug/L	20	14	20	1I12006	EPA 8260B	09/13/11 06:25	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	1.5	UD	ug/L	20	1.5	20	1I12006	EPA 8260B	09/13/11 06:25	JKG	
Dibromochloromethane [124-48-1] ^	13	UD	ug/L	20	13	20	1I12006	EPA 8260B	09/13/11 06:25	JKG	
Dibromomethane [74-95-3] ^	18	UD	ug/L	20	18	20	1I12006	EPA 8260B	09/13/11 06:25	JKG	
Dichlorodifluoromethane [75-71-8] ^	11	UD	ug/L	20	11	20	1I12006	EPA 8260B	09/13/11 06:25	JKG	
Ethylbenzene [100-41-4] ^	12	UD	ug/L	20	12	20	1I12006	EPA 8260B	09/13/11 06:25	JKG	
Hexachlorobutadiene [87-68-3] ^	18	UD	ug/L	20	18	20	1I12006	EPA 8260B	09/13/11 06:25	JKG	

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Description: PMW-1
Matrix: Water
Project: Parcel # 09084036

Lab Sample ID: C110554-01
Sampled: 09/06/11 15:40
Sampled By: Danny Hefner

Received: 09/07/11 16:40
Work Order: C110554

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Isopropylbenzene [98-82-8] ^	12	UD	ug/L	20	12	20	1I12006	EPA 8260B	09/13/11 06:25	JKG	
m,p-Xylenes [108-38-3/106-42-3] ^	28	UD	ug/L	20	28	40	1I12006	EPA 8260B	09/13/11 06:25	JKG	
Methylene chloride [75-09-2] ^	2.8	UD	ug/L	20	2.8	20	1I12006	EPA 8260B	09/13/11 06:25	JKG	
Methyl-tert-Butyl Ether [1634-04-4] ^	12	UD	ug/L	20	12	20	1I12006	EPA 8260B	09/13/11 06:25	JKG	
Naphthalene [91-20-3] ^	9.2	UD	ug/L	20	9.2	20	1I12006	EPA 8260B	09/13/11 06:25	JKG	
n-Butyl Benzene [104-51-8] ^	10	UD	ug/L	20	10	20	1I12006	EPA 8260B	09/13/11 06:25	JKG	
n-Propyl Benzene [103-65-1] ^	1.9	UD	ug/L	20	1.9	20	1I12006	EPA 8260B	09/13/11 06:25	JKG	
o-Xylene [95-47-6] ^	13	UD	ug/L	20	13	20	1I12006	EPA 8260B	09/13/11 06:25	JKG	
sec-Butylbenzene [135-98-8] ^	17	UD	ug/L	20	17	20	1I12006	EPA 8260B	09/13/11 06:25	JKG	
Styrene [100-42-5] ^	1.1	UD	ug/L	20	1.1	20	1I12006	EPA 8260B	09/13/11 06:25	JKG	
tert-Butylbenzene [98-06-6] ^	16	UD	ug/L	20	16	20	1I12006	EPA 8260B	09/13/11 06:25	JKG	
Tetrachloroethene [127-18-4] ^	15	UD	ug/L	20	15	20	1I12006	EPA 8260B	09/13/11 06:25	JKG	
Toluene [108-88-3] ^	17	UD	ug/L	20	17	20	1I12006	EPA 8260B	09/13/11 06:25	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	2.4	UD	ug/L	20	2.4	20	1I12006	EPA 8260B	09/13/11 06:25	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	10	UD	ug/L	20	10	20	1I12006	EPA 8260B	09/13/11 06:25	JKG	
Trichloroethene [79-01-6] ^	**19**	JD	ug/L	20	14	20	1I12006	EPA 8260B	09/13/11 06:25	JKG	
Trichlorofluoromethane [75-69-4] ^	13	UD	ug/L	20	13	20	1I12006	EPA 8260B	09/13/11 06:25	JKG	
Vinyl chloride [75-01-4] ^	**12**	JD	ug/L	20	12	20	1I12006	EPA 8260B	09/13/11 06:25	JKG	
Xylenes (Total) [1330-20-7] ^	42	UD	ug/L	20	42	60	1I12006	EPA 8260B	09/13/11 06:25	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*47*	*1*	*50.0*	*94 %*	*51-122*	*1I12006*	*EPA 8260B*	*09/13/11 06:25*	*JKG*	
Dibromofluoromethane	*48*	*1*	*50.0*	*97 %*	*68-117*	*1I12006*	*EPA 8260B*	*09/13/11 06:25*	*JKG*	
Toluene-d8	*47*	*1*	*50.0*	*94 %*	*69-110*	*1I12006*	*EPA 8260B*	*09/13/11 06:25*	*JKG*	

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Description: PMW-1
Matrix: Water
Project: Parcel # 09084036

Lab Sample ID: C110554-01
Sampled: 09/06/11 15:40
Sampled By: Danny Hefner

Received: 09/07/11 16:40
Work Order: C110554

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	1I13013	EPA 7470A	09/13/11 14:38	NLH	

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Description: PMW-1 | **Lab Sample ID:** C110554-01 | **Received:** 09/07/11 16:40

Matrix: Water | **Sampled:** 09/06/11 15:40 | **Work Order:** C110554

Project: Parcel # 09084036 | **Sampled By:** Danny Hefner

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	**0.278**	J	ug/L	1	0.220	2.00	1I12017	EPA 6020A	09/21/11 09:46	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	1I08018	EPA 6010C	09/12/11 10:53	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1I08018	EPA 6010C	09/12/11 10:53	JDH	
Cadmium [7440-43-9] ^	**0.494**	J	ug/L	1	0.360	1.00	1I08018	EPA 6010C	09/12/11 10:53	JDH	
Chromium [7440-47-3] ^	**1.54**	J	ug/L	1	1.00	10.0	1I08018	EPA 6010C	09/12/11 10:53	JDH	
Copper [7440-50-8] ^	**2.51**	J	ug/L	1	1.60	10.0	1I08018	EPA 6010C	09/12/11 10:53	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	1I08018	EPA 6010C	09/12/11 10:53	JDH	
Nickel [7440-02-0] ^	**4.24**	J	ug/L	1	1.80	10.0	1I08018	EPA 6010C	09/12/11 10:53	JDH	
Selenium [7782-49-2] ^	2.70	U	ug/L	1	2.70	10.0	1I08018	EPA 6010C	09/12/11 10:53	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	1I12017	EPA 6020A	09/21/11 09:46	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	1I08018	EPA 6010C	09/12/11 10:53	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	1I12017	EPA 6020A	09/21/11 09:46	VLO	
Zinc [7440-66-6] ^	3.80	U	ug/L	1	3.80	10.0	1I08018	EPA 6010C	09/12/11 10:53	JDH	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: PMW-3 | **Lab Sample ID:** C110554-02 | **Received:** 09/07/11 16:40

Matrix: Water | **Sampled:** 09/06/11 16:04 | **Work Order:** C110554

Project: Parcel # 09084036 | **Sampled By:** Danny Hefner

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.90	U	ug/L	1	0.90	1.0	1I12006	EPA 8260B	09/13/11 05:56	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.65	U	ug/L	1	0.65	1.0	1I12006	EPA 8260B	09/13/11 05:56	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.75	U	ug/L	1	0.75	1.0	1I12006	EPA 8260B	09/13/11 05:56	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.66	U	ug/L	1	0.66	1.0	1I12006	EPA 8260B	09/13/11 05:56	JKG	
1,1-Dichloroethane [75-34-3] ^	0.080	U	ug/L	1	0.080	1.0	1I12006	EPA 8260B	09/13/11 05:56	JKG	
1,1-Dichloroethene [75-35-4] ^	0.60	U	ug/L	1	0.60	1.0	1I12006	EPA 8260B	09/13/11 05:56	JKG	
1,1-Dichloropropene [563-58-6] ^	0.66	U	ug/L	1	0.66	1.0	1I12006	EPA 8260B	09/13/11 05:56	JKG	
1,2,3-Trichlorobenzene [87-61-6] ^	0.51	U	ug/L	1	0.51	1.0	1I12006	EPA 8260B	09/13/11 05:56	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.72	U	ug/L	1	0.72	1.0	1I12006	EPA 8260B	09/13/11 05:56	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.58	U	ug/L	1	0.58	1.0	1I12006	EPA 8260B	09/13/11 05:56	JKG	
1,2,4-Trimethylbenzene [95-63-6] ^	0.72	U	ug/L	1	0.72	1.0	1I12006	EPA 8260B	09/13/11 05:56	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	1I12006	EPA 8260B	09/13/11 05:56	JKG	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1I12006	EPA 8260B	09/13/11 05:56	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.11	U	ug/L	1	0.11	1.0	1I12006	EPA 8260B	09/13/11 05:56	JKG	
1,2-Dichloroethane [107-06-2] ^	0.47	U	ug/L	1	0.47	1.0	1I12006	EPA 8260B	09/13/11 05:56	JKG	
1,2-Dichloropropane [78-87-5] ^	0.59	U	ug/L	1	0.59	1.0	1I12006	EPA 8260B	09/13/11 05:56	JKG	
1,3,5-Trimethylbenzene [108-67-8] ^	0.067	U	ug/L	1	0.067	1.0	1I12006	EPA 8260B	09/13/11 05:56	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.79	U	ug/L	1	0.79	1.0	1I12006	EPA 8260B	09/13/11 05:56	JKG	
1,3-Dichloropropane [142-28-9] ^	0.67	U	ug/L	1	0.67	1.0	1I12006	EPA 8260B	09/13/11 05:56	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.79	U	ug/L	1	0.79	1.0	1I12006	EPA 8260B	09/13/11 05:56	JKG	
2,2-Dichloropropane [594-20-7] ^	0.56	U	ug/L	1	0.56	1.0	1I12006	EPA 8260B	09/13/11 05:56	JKG	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	1I12006	EPA 8260B	09/13/11 05:56	JKG	
2-Chloroethyl Vinyl Ether [110-75-8] ^	1.1	U	ug/L	1	1.1	5.0	1I12006	EPA 8260B	09/13/11 05:56	JKG	
2-Chlorotoluene [95-49-8] ^	0.071	U	ug/L	1	0.071	1.0	1I12006	EPA 8260B	09/13/11 05:56	JKG	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	1I12006	EPA 8260B	09/13/11 05:56	JKG	
4-Chlorotoluene [106-43-4] ^	0.63	U	ug/L	1	0.63	1.0	1I12006	EPA 8260B	09/13/11 05:56	JKG	
4-Isopropyltoluene [99-87-6] ^	0.82	U	ug/L	1	0.82	1.0	1I12006	EPA 8260B	09/13/11 05:56	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	1I12006	EPA 8260B	09/13/11 05:56	JKG	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	1I12006	EPA 8260B	09/13/11 05:56	JKG	
Benzene [71-43-2] ^	0.68	U	ug/L	1	0.68	1.0	1I12006	EPA 8260B	09/13/11 05:56	JKG	
Bromobenzene [108-86-1] ^	0.61	U	ug/L	1	0.61	1.0	1I12006	EPA 8260B	09/13/11 05:56	JKG	
Bromochloromethane [74-97-5] ^	0.87	U	ug/L	1	0.87	1.0	1I12006	EPA 8260B	09/13/11 05:56	JKG	
Bromodichloromethane [75-27-4] ^	0.75	U	ug/L	1	0.75	1.0	1I12006	EPA 8260B	09/13/11 05:56	JKG	
Bromoform [75-25-2] ^	0.68	U	ug/L	1	0.68	1.0	1I12006	EPA 8260B	09/13/11 05:56	JKG	
Bromomethane [74-83-9] ^	0.58	U	ug/L	1	0.58	1.0	1I12006	EPA 8260B	09/13/11 05:56	JKG	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	1I12006	EPA 8260B	09/13/11 05:56	JKG	
Carbon tetrachloride [56-23-5] ^	0.69	U	ug/L	1	0.69	1.0	1I12006	EPA 8260B	09/13/11 05:56	JKG	
Chlorobenzene [108-90-7] ^	0.74	U	ug/L	1	0.74	1.0	1I12006	EPA 8260B	09/13/11 05:56	JKG	
Chloroethane [75-00-3] ^	0.75	U	ug/L	1	0.75	1.0	1I12006	EPA 8260B	09/13/11 05:56	JKG	
Chloroform [67-66-3] ^	0.70	U	ug/L	1	0.70	1.0	1I12006	EPA 8260B	09/13/11 05:56	JKG	
Chloromethane [74-87-3] ^	0.55	U	ug/L	1	0.55	1.0	1I12006	EPA 8260B	09/13/11 05:56	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	**3.9**		ug/L	1	0.72	1.0	1I12006	EPA 8260B	09/13/11 05:56	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.075	U	ug/L	1	0.075	1.0	1I12006	EPA 8260B	09/13/11 05:56	JKG	
Dibromochloromethane [124-48-1] ^	0.63	U	ug/L	1	0.63	1.0	1I12006	EPA 8260B	09/13/11 05:56	JKG	
Dibromomethane [74-95-3] ^	0.90	U	ug/L	1	0.90	1.0	1I12006	EPA 8260B	09/13/11 05:56	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.56	U	ug/L	1	0.56	1.0	1I12006	EPA 8260B	09/13/11 05:56	JKG	
Ethylbenzene [100-41-4] ^	0.62	U	ug/L	1	0.62	1.0	1I12006	EPA 8260B	09/13/11 05:56	JKG	
Hexachlorobutadiene [87-68-3] ^	0.88	U	ug/L	1	0.88	1.0	1I12006	EPA 8260B	09/13/11 05:56	JKG	
Isopropylbenzene [98-82-8] ^	0.62	U	ug/L	1	0.62	1.0	1I12006	EPA 8260B	09/13/11 05:56	JKG	
m,p-Xylenes [108-38-3/106-42-3] ^	1.4	U	ug/L	1	1.4	2.0	1I12006	EPA 8260B	09/13/11 05:56	JKG	
Methylene chloride [75-09-2] ^	0.14	U	ug/L	1	0.14	1.0	1I12006	EPA 8260B	09/13/11 05:56	JKG	

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Description: PMW-3 | **Lab Sample ID:** C110554-02 | **Received:** 09/07/11 16:40

Matrix: Water | **Sampled:** 09/06/11 16:04 | **Work Order:** C110554

Project: Parcel # 09084036 | **Sampled By:** Danny Hefner

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Methyl-tert-Butyl Ether [1634-04-4] ^	0.58	U	ug/L	1	0.58	1.0	1I12006	EPA 8260B	09/13/11 05:56	JKG	
Naphthalene [91-20-3] ^	0.46	U	ug/L	1	0.46	1.0	1I12006	EPA 8260B	09/13/11 05:56	JKG	
n-Butyl Benzene [104-51-8] ^	0.51	U	ug/L	1	0.51	1.0	1I12006	EPA 8260B	09/13/11 05:56	JKG	
n-Propyl Benzene [103-65-1] ^	0.093	U	ug/L	1	0.093	1.0	1I12006	EPA 8260B	09/13/11 05:56	JKG	
o-Xylene [95-47-6] ^	0.63	U	ug/L	1	0.63	1.0	1I12006	EPA 8260B	09/13/11 05:56	JKG	
sec-Butylbenzene [135-98-8] ^	0.84	U	ug/L	1	0.84	1.0	1I12006	EPA 8260B	09/13/11 05:56	JKG	
Styrene [100-42-5] ^	0.053	U	ug/L	1	0.053	1.0	1I12006	EPA 8260B	09/13/11 05:56	JKG	
tert-Butylbenzene [98-06-6] ^	0.79	U	ug/L	1	0.79	1.0	1I12006	EPA 8260B	09/13/11 05:56	JKG	
Tetrachloroethene [127-18-4] ^	**12**		ug/L	1	0.73	1.0	1I12006	EPA 8260B	09/13/11 05:56	JKG	
Toluene [108-88-3] ^	0.85	U	ug/L	1	0.85	1.0	1I12006	EPA 8260B	09/13/11 05:56	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.12	U	ug/L	1	0.12	1.0	1I12006	EPA 8260B	09/13/11 05:56	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.50	U	ug/L	1	0.50	1.0	1I12006	EPA 8260B	09/13/11 05:56	JKG	
Trichloroethene [79-01-6] ^	**1.9**		ug/L	1	0.72	1.0	1I12006	EPA 8260B	09/13/11 05:56	JKG	
Trichlorofluoromethane [75-69-4] ^	0.66	U	ug/L	1	0.66	1.0	1I12006	EPA 8260B	09/13/11 05:56	JKG	
Vinyl chloride [75-01-4] ^	0.60	U	ug/L	1	0.60	1.0	1I12006	EPA 8260B	09/13/11 05:56	JKG	
Xylenes (Total) [1330-20-7] ^	2.1	U	ug/L	1	2.1	3.0	1I12006	EPA 8260B	09/13/11 05:56	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*48*	*1*	*50.0*	*96 %*	*51-122*	*1I12006*	*EPA 8260B*	*09/13/11 05:56*	*JKG*	
Dibromofluoromethane	*48*	*1*	*50.0*	*96 %*	*68-117*	*1I12006*	*EPA 8260B*	*09/13/11 05:56*	*JKG*	
Toluene-d8	*47*	*1*	*50.0*	*94 %*	*69-110*	*1I12006*	*EPA 8260B*	*09/13/11 05:56*	*JKG*	

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Description: PMW-3
Matrix: Water
Project: Parcel # 09084036

Lab Sample ID: C110554-02
Sampled: 09/06/11 16:04
Sampled By: Danny Hefner

Received: 09/07/11 16:40
Work Order: C110554

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	1I13013	EPA 7470A	09/13/11 14:51	NLH	

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Description: PMW-3 | **Lab Sample ID:** C110554-02 | **Received:** 09/07/11 16:40

Matrix: Water | **Sampled:** 09/06/11 16:04 | **Work Order:** C110554

Project: Parcel # 09084036 | **Sampled By:** Danny Hefner

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	**0.227**	J	ug/L	1	0.220	2.00	1I12017	EPA 6020A	09/21/11 09:57	VLO	
Arsenic [7440-38-2] ^	**5.17**	J	ug/L	1	2.80	10.0	1I08018	EPA 6010C	09/12/11 10:55	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1I08018	EPA 6010C	09/12/11 10:55	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1I08018	EPA 6010C	09/12/11 10:55	JDH	
Chromium [7440-47-3] ^	**1.43**	J	ug/L	1	1.00	10.0	1I08018	EPA 6010C	09/12/11 10:55	JDH	
Copper [7440-50-8] ^	**5.20**	J	ug/L	1	1.60	10.0	1I08018	EPA 6010C	09/12/11 10:55	JDH	
Lead [7439-92-1] ^	**4.05**	J	ug/L	1	1.90	10.0	1I08018	EPA 6010C	09/12/11 10:55	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	1I08018	EPA 6010C	09/12/11 10:55	JDH	
Selenium [7782-49-2] ^	2.70	U	ug/L	1	2.70	10.0	1I08018	EPA 6010C	09/12/11 10:55	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	1I12017	EPA 6020A	09/21/11 09:57	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	1I08018	EPA 6010C	09/12/11 10:55	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	1I12017	EPA 6020A	09/21/11 09:57	VLO	
Zinc [7440-66-6] ^	3.80	U	ug/L	1	3.80	10.0	1I08018	EPA 6010C	09/12/11 10:55	JDH	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: PMW-4 | **Lab Sample ID:** C110554-03 | **Received:** 09/07/11 16:40

Matrix: Water | **Sampled:** 09/06/11 16:20 | **Work Order:** C110554

Project: Parcel # 09084036 | **Sampled By:** Danny Hefner

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.90	U	ug/L	1	0.90	1.0	1I09017	EPA 8260B	09/10/11 04:06	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.65	U	ug/L	1	0.65	1.0	1I09017	EPA 8260B	09/10/11 04:06	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.75	U	ug/L	1	0.75	1.0	1I09017	EPA 8260B	09/10/11 04:06	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.66	U	ug/L	1	0.66	1.0	1I09017	EPA 8260B	09/10/11 04:06	JKG	
1,1-Dichloroethane [75-34-3] ^	**0.46**	J	ug/L	1	0.080	1.0	1I09017	EPA 8260B	09/10/11 04:06	JKG	
1,1-Dichloroethene [75-35-4] ^	0.60	U	ug/L	1	0.60	1.0	1I09017	EPA 8260B	09/10/11 04:06	JKG	
1,1-Dichloropropene [563-58-6] ^	0.66	U	ug/L	1	0.66	1.0	1I09017	EPA 8260B	09/10/11 04:06	JKG	
1,2,3-Trichlorobenzene [87-61-6] ^	0.51	U	ug/L	1	0.51	1.0	1I09017	EPA 8260B	09/10/11 04:06	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.72	U	ug/L	1	0.72	1.0	1I09017	EPA 8260B	09/10/11 04:06	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.58	U	ug/L	1	0.58	1.0	1I09017	EPA 8260B	09/10/11 04:06	JKG	
1,2,4-Trimethylbenzene [95-63-6] ^	0.72	U	ug/L	1	0.72	1.0	1I09017	EPA 8260B	09/10/11 04:06	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	1I09017	EPA 8260B	09/10/11 04:06	JKG	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1I09017	EPA 8260B	09/10/11 04:06	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.11	U	ug/L	1	0.11	1.0	1I09017	EPA 8260B	09/10/11 04:06	JKG	
1,2-Dichloroethane [107-06-2] ^	0.47	U	ug/L	1	0.47	1.0	1I09017	EPA 8260B	09/10/11 04:06	JKG	
1,2-Dichloropropane [78-87-5] ^	0.59	U	ug/L	1	0.59	1.0	1I09017	EPA 8260B	09/10/11 04:06	JKG	
1,3,5-Trimethylbenzene [108-67-8] ^	0.067	U	ug/L	1	0.067	1.0	1I09017	EPA 8260B	09/10/11 04:06	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.79	U	ug/L	1	0.79	1.0	1I09017	EPA 8260B	09/10/11 04:06	JKG	
1,3-Dichloropropane [142-28-9] ^	0.67	U	ug/L	1	0.67	1.0	1I09017	EPA 8260B	09/10/11 04:06	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.79	U	ug/L	1	0.79	1.0	1I09017	EPA 8260B	09/10/11 04:06	JKG	
2,2-Dichloropropane [594-20-7] ^	0.56	U	ug/L	1	0.56	1.0	1I09017	EPA 8260B	09/10/11 04:06	JKG	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	1I09017	EPA 8260B	09/10/11 04:06	JKG	
2-Chloroethyl Vinyl Ether [110-75-8] ^	1.1	U	ug/L	1	1.1	5.0	1I09017	EPA 8260B	09/10/11 04:06	JKG	
2-Chlorotoluene [95-49-8] ^	0.071	U	ug/L	1	0.071	1.0	1I09017	EPA 8260B	09/10/11 04:06	JKG	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	1I09017	EPA 8260B	09/10/11 04:06	JKG	
4-Chlorotoluene [106-43-4] ^	0.63	U	ug/L	1	0.63	1.0	1I09017	EPA 8260B	09/10/11 04:06	JKG	
4-Isopropyltoluene [99-87-6] ^	0.82	U	ug/L	1	0.82	1.0	1I09017	EPA 8260B	09/10/11 04:06	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	1I09017	EPA 8260B	09/10/11 04:06	JKG	
Acetone [67-64-1] ^	**3.9**	J	ug/L	1	1.2	5.0	1I09017	EPA 8260B	09/10/11 04:06	JKG	
Benzene [71-43-2] ^	0.68	U	ug/L	1	0.68	1.0	1I09017	EPA 8260B	09/10/11 04:06	JKG	
Bromobenzene [108-86-1] ^	0.61	U	ug/L	1	0.61	1.0	1I09017	EPA 8260B	09/10/11 04:06	JKG	
Bromochloromethane [74-97-5] ^	0.87	U	ug/L	1	0.87	1.0	1I09017	EPA 8260B	09/10/11 04:06	JKG	
Bromodichloromethane [75-27-4] ^	0.75	U	ug/L	1	0.75	1.0	1I09017	EPA 8260B	09/10/11 04:06	JKG	
Bromoform [75-25-2] ^	0.68	U	ug/L	1	0.68	1.0	1I09017	EPA 8260B	09/10/11 04:06	JKG	
Bromomethane [74-83-9] ^	0.58	U	ug/L	1	0.58	1.0	1I09017	EPA 8260B	09/10/11 04:06	JKG	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	1I09017	EPA 8260B	09/10/11 04:06	JKG	
Carbon tetrachloride [56-23-5] ^	0.69	U	ug/L	1	0.69	1.0	1I09017	EPA 8260B	09/10/11 04:06	JKG	
Chlorobenzene [108-90-7] ^	0.74	U	ug/L	1	0.74	1.0	1I09017	EPA 8260B	09/10/11 04:06	JKG	
Chloroethane [75-00-3] ^	0.75	U	ug/L	1	0.75	1.0	1I09017	EPA 8260B	09/10/11 04:06	JKG	
Chloroform [67-66-3] ^	0.70	U	ug/L	1	0.70	1.0	1I09017	EPA 8260B	09/10/11 04:06	JKG	
Chloromethane [74-87-3] ^	0.55	U	ug/L	1	0.55	1.0	1I09017	EPA 8260B	09/10/11 04:06	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	**1.2**		ug/L	1	0.72	1.0	1I09017	EPA 8260B	09/10/11 04:06	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.075	U	ug/L	1	0.075	1.0	1I09017	EPA 8260B	09/10/11 04:06	JKG	
Dibromochloromethane [124-48-1] ^	0.63	U	ug/L	1	0.63	1.0	1I09017	EPA 8260B	09/10/11 04:06	JKG	
Dibromomethane [74-95-3] ^	0.90	U	ug/L	1	0.90	1.0	1I09017	EPA 8260B	09/10/11 04:06	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.56	U	ug/L	1	0.56	1.0	1I09017	EPA 8260B	09/10/11 04:06	JKG	
Ethylbenzene [100-41-4] ^	0.62	U	ug/L	1	0.62	1.0	1I09017	EPA 8260B	09/10/11 04:06	JKG	
Hexachlorobutadiene [87-68-3] ^	0.88	U	ug/L	1	0.88	1.0	1I09017	EPA 8260B	09/10/11 04:06	JKG	
Isopropylbenzene [98-82-8] ^	0.62	U	ug/L	1	0.62	1.0	1I09017	EPA 8260B	09/10/11 04:06	JKG	
m,p-Xylenes [108-38-3/106-42-3] ^	1.4	U	ug/L	1	1.4	2.0	1I09017	EPA 8260B	09/10/11 04:06	JKG	
Methylene chloride [75-09-2] ^	0.14	U	ug/L	1	0.14	1.0	1I09017	EPA 8260B	09/10/11 04:06	JKG	

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Description: PMW-4 | **Lab Sample ID:** C110554-03 | **Received:** 09/07/11 16:40

Matrix: Water | **Sampled:** 09/06/11 16:20 | **Work Order:** C110554

Project: Parcel # 09084036 | **Sampled By:** Danny Hefner

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Methyl-tert-Butyl Ether [1634-04-4] ^	0.58	U	ug/L	1	0.58	1.0	1I09017	EPA 8260B	09/10/11 04:06	JKG	
Naphthalene [91-20-3] ^	0.46	U	ug/L	1	0.46	1.0	1I09017	EPA 8260B	09/10/11 04:06	JKG	
n-Butyl Benzene [104-51-8] ^	0.51	U	ug/L	1	0.51	1.0	1I09017	EPA 8260B	09/10/11 04:06	JKG	
n-Propyl Benzene [103-65-1] ^	0.093	U	ug/L	1	0.093	1.0	1I09017	EPA 8260B	09/10/11 04:06	JKG	
o-Xylene [95-47-6] ^	0.63	U	ug/L	1	0.63	1.0	1I09017	EPA 8260B	09/10/11 04:06	JKG	
sec-Butylbenzene [135-98-8] ^	0.84	U	ug/L	1	0.84	1.0	1I09017	EPA 8260B	09/10/11 04:06	JKG	
Styrene [100-42-5] ^	0.053	U	ug/L	1	0.053	1.0	1I09017	EPA 8260B	09/10/11 04:06	JKG	
tert-Butylbenzene [98-06-6] ^	0.79	U	ug/L	1	0.79	1.0	1I09017	EPA 8260B	09/10/11 04:06	JKG	
Tetrachloroethene [127-18-4] ^	0.73	U	ug/L	1	0.73	1.0	1I09017	EPA 8260B	09/10/11 04:06	JKG	
Toluene [108-88-3] ^	0.85	U	ug/L	1	0.85	1.0	1I09017	EPA 8260B	09/10/11 04:06	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.12	U	ug/L	1	0.12	1.0	1I09017	EPA 8260B	09/10/11 04:06	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.50	U	ug/L	1	0.50	1.0	1I09017	EPA 8260B	09/10/11 04:06	JKG	
Trichloroethene [79-01-6] ^	0.72	U	ug/L	1	0.72	1.0	1I09017	EPA 8260B	09/10/11 04:06	JKG	
Trichlorofluoromethane [75-69-4] ^	0.66	U	ug/L	1	0.66	1.0	1I09017	EPA 8260B	09/10/11 04:06	JKG	
Vinyl chloride [75-01-4] ^	0.60	U	ug/L	1	0.60	1.0	1I09017	EPA 8260B	09/10/11 04:06	JKG	
Xylenes (Total) [1330-20-7] ^	2.1	U	ug/L	1	2.1	3.0	1I09017	EPA 8260B	09/10/11 04:06	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*47*	*1*	*50.0*	*95 %*	*51-122*	*1I09017*	*EPA 8260B*	*09/10/11 04:06*	*JKG*	
Dibromofluoromethane	*48*	*1*	*50.0*	*95 %*	*68-117*	*1I09017*	*EPA 8260B*	*09/10/11 04:06*	*JKG*	
Toluene-d8	*48*	*1*	*50.0*	*95 %*	*69-110*	*1I09017*	*EPA 8260B*	*09/10/11 04:06*	*JKG*	

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Description: PMW-4
Matrix: Water
Project: Parcel # 09084036

Lab Sample ID: C110554-03
Sampled: 09/06/11 16:20
Sampled By: Danny Hefner

Received: 09/07/11 16:40
Work Order: C110554

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	1I13013	EPA 7470A	09/13/11 14:54	NLH	

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Description: PMW-4 | **Lab Sample ID:** C110554-03 | **Received:** 09/07/11 16:40

Matrix: Water | **Sampled:** 09/06/11 16:20 | **Work Order:** C110554

Project: Parcel # 09084036 | **Sampled By:** Danny Hefner

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	**3.34**		ug/L	1	0.220	2.00	1I12017	EPA 6020A	09/21/11 10:01	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	1I08018	EPA 6010C	09/12/11 10:57	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1I08018	EPA 6010C	09/12/11 10:57	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1I08018	EPA 6010C	09/12/11 10:57	JDH	
Chromium [7440-47-3] ^	**5.36**	J	ug/L	1	1.00	10.0	1I08018	EPA 6010C	09/12/11 10:57	JDH	
Copper [7440-50-8] ^	**4.01**	J	ug/L	1	1.60	10.0	1I08018	EPA 6010C	09/12/11 10:57	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	1I08018	EPA 6010C	09/12/11 10:57	JDH	
Nickel [7440-02-0] ^	**3.39**	J	ug/L	1	1.80	10.0	1I08018	EPA 6010C	09/12/11 10:57	JDH	
Selenium [7782-49-2] ^	2.70	U	ug/L	1	2.70	10.0	1I08018	EPA 6010C	09/12/11 10:57	JDH	
Selenium [7782-49-2] ^	**0.896**	J	ug/L	1	0.830	1.00	1I12017	EPA 6020A	09/21/11 10:01	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	1I08018	EPA 6010C	09/12/11 10:57	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	1I12017	EPA 6020A	09/21/11 10:01	VLO	
Zinc [7440-66-6] ^	**6.67**	J	ug/L	1	3.80	10.0	1I08018	EPA 6010C	09/12/11 10:57	JDH	

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Description: PMW-5 | **Lab Sample ID:** C110554-04 | **Received:** 09/07/11 16:40

Matrix: Water | **Sampled:** 09/06/11 16:45 | **Work Order:** C110554

Project: Parcel # 09084036 | **Sampled By:** Danny Hefner

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.90	U	ug/L	1	0.90	1.0	1I09017	EPA 8260B	09/10/11 04:35	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.65	U	ug/L	1	0.65	1.0	1I09017	EPA 8260B	09/10/11 04:35	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.75	U	ug/L	1	0.75	1.0	1I09017	EPA 8260B	09/10/11 04:35	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.66	U	ug/L	1	0.66	1.0	1I09017	EPA 8260B	09/10/11 04:35	JKG	
1,1-Dichloroethane [75-34-3] ^	0.080	U	ug/L	1	0.080	1.0	1I09017	EPA 8260B	09/10/11 04:35	JKG	
1,1-Dichloroethene [75-35-4] ^	0.60	U	ug/L	1	0.60	1.0	1I09017	EPA 8260B	09/10/11 04:35	JKG	
1,1-Dichloropropene [563-58-6] ^	0.66	U	ug/L	1	0.66	1.0	1I09017	EPA 8260B	09/10/11 04:35	JKG	
1,2,3-Trichlorobenzene [87-61-6] ^	0.51	U	ug/L	1	0.51	1.0	1I09017	EPA 8260B	09/10/11 04:35	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.72	U	ug/L	1	0.72	1.0	1I09017	EPA 8260B	09/10/11 04:35	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.58	U	ug/L	1	0.58	1.0	1I09017	EPA 8260B	09/10/11 04:35	JKG	
1,2,4-Trimethylbenzene [95-63-6] ^	0.72	U	ug/L	1	0.72	1.0	1I09017	EPA 8260B	09/10/11 04:35	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	1I09017	EPA 8260B	09/10/11 04:35	JKG	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1I09017	EPA 8260B	09/10/11 04:35	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.11	U	ug/L	1	0.11	1.0	1I09017	EPA 8260B	09/10/11 04:35	JKG	
1,2-Dichloroethane [107-06-2] ^	0.47	U	ug/L	1	0.47	1.0	1I09017	EPA 8260B	09/10/11 04:35	JKG	
1,2-Dichloropropane [78-87-5] ^	0.59	U	ug/L	1	0.59	1.0	1I09017	EPA 8260B	09/10/11 04:35	JKG	
1,3,5-Trimethylbenzene [108-67-8] ^	0.067	U	ug/L	1	0.067	1.0	1I09017	EPA 8260B	09/10/11 04:35	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.79	U	ug/L	1	0.79	1.0	1I09017	EPA 8260B	09/10/11 04:35	JKG	
1,3-Dichloropropane [142-28-9] ^	0.67	U	ug/L	1	0.67	1.0	1I09017	EPA 8260B	09/10/11 04:35	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.79	U	ug/L	1	0.79	1.0	1I09017	EPA 8260B	09/10/11 04:35	JKG	
2,2-Dichloropropane [594-20-7] ^	0.56	U	ug/L	1	0.56	1.0	1I09017	EPA 8260B	09/10/11 04:35	JKG	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	1I09017	EPA 8260B	09/10/11 04:35	JKG	
2-Chloroethyl Vinyl Ether [110-75-8] ^	1.1	U	ug/L	1	1.1	5.0	1I09017	EPA 8260B	09/10/11 04:35	JKG	
2-Chlorotoluene [95-49-8] ^	0.071	U	ug/L	1	0.071	1.0	1I09017	EPA 8260B	09/10/11 04:35	JKG	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	1I09017	EPA 8260B	09/10/11 04:35	JKG	
4-Chlorotoluene [106-43-4] ^	0.63	U	ug/L	1	0.63	1.0	1I09017	EPA 8260B	09/10/11 04:35	JKG	
4-Isopropyltoluene [99-87-6] ^	0.82	U	ug/L	1	0.82	1.0	1I09017	EPA 8260B	09/10/11 04:35	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	1I09017	EPA 8260B	09/10/11 04:35	JKG	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	1I09017	EPA 8260B	09/10/11 04:35	JKG	
Benzene [71-43-2] ^	0.68	U	ug/L	1	0.68	1.0	1I09017	EPA 8260B	09/10/11 04:35	JKG	
Bromobenzene [108-86-1] ^	0.61	U	ug/L	1	0.61	1.0	1I09017	EPA 8260B	09/10/11 04:35	JKG	
Bromochloromethane [74-97-5] ^	0.87	U	ug/L	1	0.87	1.0	1I09017	EPA 8260B	09/10/11 04:35	JKG	
Bromodichloromethane [75-27-4] ^	0.75	U	ug/L	1	0.75	1.0	1I09017	EPA 8260B	09/10/11 04:35	JKG	
Bromoform [75-25-2] ^	0.68	U	ug/L	1	0.68	1.0	1I09017	EPA 8260B	09/10/11 04:35	JKG	
Bromomethane [74-83-9] ^	0.58	U	ug/L	1	0.58	1.0	1I09017	EPA 8260B	09/10/11 04:35	JKG	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	1I09017	EPA 8260B	09/10/11 04:35	JKG	
Carbon tetrachloride [56-23-5] ^	0.69	U	ug/L	1	0.69	1.0	1I09017	EPA 8260B	09/10/11 04:35	JKG	
Chlorobenzene [108-90-7] ^	0.74	U	ug/L	1	0.74	1.0	1I09017	EPA 8260B	09/10/11 04:35	JKG	
Chloroethane [75-00-3] ^	0.75	U	ug/L	1	0.75	1.0	1I09017	EPA 8260B	09/10/11 04:35	JKG	
Chloroform [67-66-3] ^	0.70	U	ug/L	1	0.70	1.0	1I09017	EPA 8260B	09/10/11 04:35	JKG	
Chloromethane [74-87-3] ^	0.55	U	ug/L	1	0.55	1.0	1I09017	EPA 8260B	09/10/11 04:35	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	**2.0**		ug/L	1	0.72	1.0	1I09017	EPA 8260B	09/10/11 04:35	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.075	U	ug/L	1	0.075	1.0	1I09017	EPA 8260B	09/10/11 04:35	JKG	
Dibromochloromethane [124-48-1] ^	0.63	U	ug/L	1	0.63	1.0	1I09017	EPA 8260B	09/10/11 04:35	JKG	
Dibromomethane [74-95-3] ^	0.90	U	ug/L	1	0.90	1.0	1I09017	EPA 8260B	09/10/11 04:35	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.56	U	ug/L	1	0.56	1.0	1I09017	EPA 8260B	09/10/11 04:35	JKG	
Ethylbenzene [100-41-4] ^	0.62	U	ug/L	1	0.62	1.0	1I09017	EPA 8260B	09/10/11 04:35	JKG	
Hexachlorobutadiene [87-68-3] ^	0.88	U	ug/L	1	0.88	1.0	1I09017	EPA 8260B	09/10/11 04:35	JKG	
Isopropylbenzene [98-82-8] ^	0.62	U	ug/L	1	0.62	1.0	1I09017	EPA 8260B	09/10/11 04:35	JKG	
m,p-Xylenes [108-38-3/106-42-3] ^	1.4	U	ug/L	1	1.4	2.0	1I09017	EPA 8260B	09/10/11 04:35	JKG	
Methylene chloride [75-09-2] ^	0.14	U	ug/L	1	0.14	1.0	1I09017	EPA 8260B	09/10/11 04:35	JKG	

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Description: PMW-5 | **Lab Sample ID:** C110554-04 | **Received:** 09/07/11 16:40

Matrix: Water | **Sampled:** 09/06/11 16:45 | **Work Order:** C110554

Project: Parcel # 09084036 | **Sampled By:** Danny Hefner

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Methyl-tert-Butyl Ether [1634-04-4] ^	0.58	U	ug/L	1	0.58	1.0	1I09017	EPA 8260B	09/10/11 04:35	JKG	
Naphthalene [91-20-3] ^	0.46	U	ug/L	1	0.46	1.0	1I09017	EPA 8260B	09/10/11 04:35	JKG	
n-Butyl Benzene [104-51-8] ^	0.51	U	ug/L	1	0.51	1.0	1I09017	EPA 8260B	09/10/11 04:35	JKG	
n-Propyl Benzene [103-65-1] ^	0.093	U	ug/L	1	0.093	1.0	1I09017	EPA 8260B	09/10/11 04:35	JKG	
o-Xylene [95-47-6] ^	0.63	U	ug/L	1	0.63	1.0	1I09017	EPA 8260B	09/10/11 04:35	JKG	
sec-Butylbenzene [135-98-8] ^	0.84	U	ug/L	1	0.84	1.0	1I09017	EPA 8260B	09/10/11 04:35	JKG	
Styrene [100-42-5] ^	0.053	U	ug/L	1	0.053	1.0	1I09017	EPA 8260B	09/10/11 04:35	JKG	
tert-Butylbenzene [98-06-6] ^	0.79	U	ug/L	1	0.79	1.0	1I09017	EPA 8260B	09/10/11 04:35	JKG	
Tetrachloroethene [127-18-4] ^	**4.3**		ug/L	1	0.73	1.0	1I09017	EPA 8260B	09/10/11 04:35	JKG	
Toluene [108-88-3] ^	0.85	U	ug/L	1	0.85	1.0	1I09017	EPA 8260B	09/10/11 04:35	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.12	U	ug/L	1	0.12	1.0	1I09017	EPA 8260B	09/10/11 04:35	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.50	U	ug/L	1	0.50	1.0	1I09017	EPA 8260B	09/10/11 04:35	JKG	
Trichloroethene [79-01-6] ^	**5.2**		ug/L	1	0.72	1.0	1I09017	EPA 8260B	09/10/11 04:35	JKG	
Trichlorofluoromethane [75-69-4] ^	0.66	U	ug/L	1	0.66	1.0	1I09017	EPA 8260B	09/10/11 04:35	JKG	
Vinyl chloride [75-01-4] ^	0.60	U	ug/L	1	0.60	1.0	1I09017	EPA 8260B	09/10/11 04:35	JKG	
Xylenes (Total) [1330-20-7] ^	2.1	U	ug/L	1	2.1	3.0	1I09017	EPA 8260B	09/10/11 04:35	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*48*	*1*	*50.0*	*95 %*	*51-122*	*1I09017*	*EPA 8260B*	*09/10/11 04:35*	*JKG*	
Dibromofluoromethane	*47*	*1*	*50.0*	*93 %*	*68-117*	*1I09017*	*EPA 8260B*	*09/10/11 04:35*	*JKG*	
Toluene-d8	*47*	*1*	*50.0*	*95 %*	*69-110*	*1I09017*	*EPA 8260B*	*09/10/11 04:35*	*JKG*	

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Description: PMW-5
Matrix: Water
Project: Parcel # 09084036

Lab Sample ID: C110554-04
Sampled: 09/06/11 16:45
Sampled By: Danny Hefner

Received: 09/07/11 16:40
Work Order: C110554

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	1I13013	EPA 7470A	09/13/11 14:58	NLH	

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Description: PMW-5 | **Lab Sample ID:** C110554-04 | **Received:** 09/07/11 16:40

Matrix: Water | **Sampled:** 09/06/11 16:45 | **Work Order:** C110554

Project: Parcel # 09084036 | **Sampled By:** Danny Hefner

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	**0.541**	J	ug/L	1	0.220	2.00	1I12017	EPA 6020A	09/21/11 10:05	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	1I08018	EPA 6010C	09/12/11 10:59	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1I08018	EPA 6010C	09/12/11 10:59	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1I08018	EPA 6010C	09/12/11 10:59	JDH	
Chromium [7440-47-3] ^	**4.52**	J	ug/L	1	1.00	10.0	1I08018	EPA 6010C	09/12/11 10:59	JDH	
Copper [7440-50-8] ^	**9.60**	J	ug/L	1	1.60	10.0	1I08018	EPA 6010C	09/12/11 10:59	JDH	
Lead [7439-92-1] ^	**5.13**	J	ug/L	1	1.90	10.0	1I08018	EPA 6010C	09/12/11 10:59	JDH	
Nickel [7440-02-0] ^	**4.87**	J	ug/L	1	1.80	10.0	1I08018	EPA 6010C	09/12/11 10:59	JDH	
Selenium [7782-49-2] ^	2.70	U	ug/L	1	2.70	10.0	1I08018	EPA 6010C	09/12/11 10:59	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	1I12017	EPA 6020A	09/21/11 10:05	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	1I08018	EPA 6010C	09/12/11 10:59	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	1I12017	EPA 6020A	09/21/11 10:05	VLO	
Zinc [7440-66-6] ^	**12.9**		ug/L	1	3.80	10.0	1I08018	EPA 6010C	09/12/11 10:59	JDH	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: PMW-6 | **Lab Sample ID:** C110554-05 | **Received:** 09/07/11 16:40

Matrix: Water | **Sampled:** 09/06/11 17:00 | **Work Order:** C110554

Project: Parcel # 09084036 | **Sampled By:** Danny Hefner

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.90	U	ug/L	1	0.90	1.0	1I09017	EPA 8260B	09/10/11 05:04	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.65	U	ug/L	1	0.65	1.0	1I09017	EPA 8260B	09/10/11 05:04	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.75	U	ug/L	1	0.75	1.0	1I09017	EPA 8260B	09/10/11 05:04	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.66	U	ug/L	1	0.66	1.0	1I09017	EPA 8260B	09/10/11 05:04	JKG	
1,1-Dichloroethane [75-34-3] ^	0.080	U	ug/L	1	0.080	1.0	1I09017	EPA 8260B	09/10/11 05:04	JKG	
1,1-Dichloroethene [75-35-4] ^	0.60	U	ug/L	1	0.60	1.0	1I09017	EPA 8260B	09/10/11 05:04	JKG	
1,1-Dichloropropene [563-58-6] ^	0.66	U	ug/L	1	0.66	1.0	1I09017	EPA 8260B	09/10/11 05:04	JKG	
1,2,3-Trichlorobenzene [87-61-6] ^	0.51	U	ug/L	1	0.51	1.0	1I09017	EPA 8260B	09/10/11 05:04	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.72	U	ug/L	1	0.72	1.0	1I09017	EPA 8260B	09/10/11 05:04	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.58	U	ug/L	1	0.58	1.0	1I09017	EPA 8260B	09/10/11 05:04	JKG	
1,2,4-Trimethylbenzene [95-63-6] ^	0.72	U	ug/L	1	0.72	1.0	1I09017	EPA 8260B	09/10/11 05:04	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	1I09017	EPA 8260B	09/10/11 05:04	JKG	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1I09017	EPA 8260B	09/10/11 05:04	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.11	U	ug/L	1	0.11	1.0	1I09017	EPA 8260B	09/10/11 05:04	JKG	
1,2-Dichloroethane [107-06-2] ^	0.47	U	ug/L	1	0.47	1.0	1I09017	EPA 8260B	09/10/11 05:04	JKG	
1,2-Dichloropropane [78-87-5] ^	0.59	U	ug/L	1	0.59	1.0	1I09017	EPA 8260B	09/10/11 05:04	JKG	
1,3,5-Trimethylbenzene [108-67-8] ^	0.067	U	ug/L	1	0.067	1.0	1I09017	EPA 8260B	09/10/11 05:04	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.79	U	ug/L	1	0.79	1.0	1I09017	EPA 8260B	09/10/11 05:04	JKG	
1,3-Dichloropropane [142-28-9] ^	0.67	U	ug/L	1	0.67	1.0	1I09017	EPA 8260B	09/10/11 05:04	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.79	U	ug/L	1	0.79	1.0	1I09017	EPA 8260B	09/10/11 05:04	JKG	
2,2-Dichloropropane [594-20-7] ^	0.56	U	ug/L	1	0.56	1.0	1I09017	EPA 8260B	09/10/11 05:04	JKG	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	1I09017	EPA 8260B	09/10/11 05:04	JKG	
2-Chloroethyl Vinyl Ether [110-75-8] ^	1.1	U	ug/L	1	1.1	5.0	1I09017	EPA 8260B	09/10/11 05:04	JKG	
2-Chlorotoluene [95-49-8] ^	0.071	U	ug/L	1	0.071	1.0	1I09017	EPA 8260B	09/10/11 05:04	JKG	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	1I09017	EPA 8260B	09/10/11 05:04	JKG	
4-Chlorotoluene [106-43-4] ^	0.63	U	ug/L	1	0.63	1.0	1I09017	EPA 8260B	09/10/11 05:04	JKG	
4-Isopropyltoluene [99-87-6] ^	0.82	U	ug/L	1	0.82	1.0	1I09017	EPA 8260B	09/10/11 05:04	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	1I09017	EPA 8260B	09/10/11 05:04	JKG	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	1I09017	EPA 8260B	09/10/11 05:04	JKG	
Benzene [71-43-2] ^	0.68	U	ug/L	1	0.68	1.0	1I09017	EPA 8260B	09/10/11 05:04	JKG	
Bromobenzene [108-86-1] ^	0.61	U	ug/L	1	0.61	1.0	1I09017	EPA 8260B	09/10/11 05:04	JKG	
Bromochloromethane [74-97-5] ^	0.87	U	ug/L	1	0.87	1.0	1I09017	EPA 8260B	09/10/11 05:04	JKG	
Bromodichloromethane [75-27-4] ^	0.75	U	ug/L	1	0.75	1.0	1I09017	EPA 8260B	09/10/11 05:04	JKG	
Bromoform [75-25-2] ^	0.68	U	ug/L	1	0.68	1.0	1I09017	EPA 8260B	09/10/11 05:04	JKG	
Bromomethane [74-83-9] ^	0.58	U	ug/L	1	0.58	1.0	1I09017	EPA 8260B	09/10/11 05:04	JKG	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	1I09017	EPA 8260B	09/10/11 05:04	JKG	
Carbon tetrachloride [56-23-5] ^	0.69	U	ug/L	1	0.69	1.0	1I09017	EPA 8260B	09/10/11 05:04	JKG	
Chlorobenzene [108-90-7] ^	0.74	U	ug/L	1	0.74	1.0	1I09017	EPA 8260B	09/10/11 05:04	JKG	
Chloroethane [75-00-3] ^	0.75	U	ug/L	1	0.75	1.0	1I09017	EPA 8260B	09/10/11 05:04	JKG	
Chloroform [67-66-3] ^	**1.4**		ug/L	1	0.70	1.0	1I09017	EPA 8260B	09/10/11 05:04	JKG	
Chloromethane [74-87-3] ^	0.55	U	ug/L	1	0.55	1.0	1I09017	EPA 8260B	09/10/11 05:04	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.72	U	ug/L	1	0.72	1.0	1I09017	EPA 8260B	09/10/11 05:04	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.075	U	ug/L	1	0.075	1.0	1I09017	EPA 8260B	09/10/11 05:04	JKG	
Dibromochloromethane [124-48-1] ^	0.63	U	ug/L	1	0.63	1.0	1I09017	EPA 8260B	09/10/11 05:04	JKG	
Dibromomethane [74-95-3] ^	0.90	U	ug/L	1	0.90	1.0	1I09017	EPA 8260B	09/10/11 05:04	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.56	U	ug/L	1	0.56	1.0	1I09017	EPA 8260B	09/10/11 05:04	JKG	
Ethylbenzene [100-41-4] ^	0.62	U	ug/L	1	0.62	1.0	1I09017	EPA 8260B	09/10/11 05:04	JKG	
Hexachlorobutadiene [87-68-3] ^	0.88	U	ug/L	1	0.88	1.0	1I09017	EPA 8260B	09/10/11 05:04	JKG	
Isopropylbenzene [98-82-8] ^	0.62	U	ug/L	1	0.62	1.0	1I09017	EPA 8260B	09/10/11 05:04	JKG	
m,p-Xylenes [108-38-3/106-42-3] ^	1.4	U	ug/L	1	1.4	2.0	1I09017	EPA 8260B	09/10/11 05:04	JKG	
Methylene chloride [75-09-2] ^	0.14	U	ug/L	1	0.14	1.0	1I09017	EPA 8260B	09/10/11 05:04	JKG	

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Description: PMW-6
Matrix: Water
Project: Parcel # 09084036

Lab Sample ID: C110554-05
Sampled: 09/06/11 17:00
Sampled By: Danny Hefner

Received: 09/07/11 16:40
Work Order: C110554

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Methyl-tert-Butyl Ether [1634-04-4] ^	0.58	U	ug/L	1	0.58	1.0	1I09017	EPA 8260B	09/10/11 05:04	JKG	
Naphthalene [91-20-3] ^	0.46	U	ug/L	1	0.46	1.0	1I09017	EPA 8260B	09/10/11 05:04	JKG	
n-Butyl Benzene [104-51-8] ^	0.51	U	ug/L	1	0.51	1.0	1I09017	EPA 8260B	09/10/11 05:04	JKG	
n-Propyl Benzene [103-65-1] ^	0.093	U	ug/L	1	0.093	1.0	1I09017	EPA 8260B	09/10/11 05:04	JKG	
o-Xylene [95-47-6] ^	0.63	U	ug/L	1	0.63	1.0	1I09017	EPA 8260B	09/10/11 05:04	JKG	
sec-Butylbenzene [135-98-8] ^	0.84	U	ug/L	1	0.84	1.0	1I09017	EPA 8260B	09/10/11 05:04	JKG	
Styrene [100-42-5] ^	0.053	U	ug/L	1	0.053	1.0	1I09017	EPA 8260B	09/10/11 05:04	JKG	
tert-Butylbenzene [98-06-6] ^	0.79	U	ug/L	1	0.79	1.0	1I09017	EPA 8260B	09/10/11 05:04	JKG	
Tetrachloroethene [127-18-4] ^	0.73	U	ug/L	1	0.73	1.0	1I09017	EPA 8260B	09/10/11 05:04	JKG	
Toluene [108-88-3] ^	0.85	U	ug/L	1	0.85	1.0	1I09017	EPA 8260B	09/10/11 05:04	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.12	U	ug/L	1	0.12	1.0	1I09017	EPA 8260B	09/10/11 05:04	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.50	U	ug/L	1	0.50	1.0	1I09017	EPA 8260B	09/10/11 05:04	JKG	
Trichloroethene [79-01-6] ^	0.72	U	ug/L	1	0.72	1.0	1I09017	EPA 8260B	09/10/11 05:04	JKG	
Trichlorofluoromethane [75-69-4] ^	0.66	U	ug/L	1	0.66	1.0	1I09017	EPA 8260B	09/10/11 05:04	JKG	
Vinyl chloride [75-01-4] ^	0.60	U	ug/L	1	0.60	1.0	1I09017	EPA 8260B	09/10/11 05:04	JKG	
Xylenes (Total) [1330-20-7] ^	2.1	U	ug/L	1	2.1	3.0	1I09017	EPA 8260B	09/10/11 05:04	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*47*	*1*	*50.0*	*93 %*	*51-122*	*1I09017*	*EPA 8260B*	*09/10/11 05:04*	*JKG*	
Dibromofluoromethane	*47*	*1*	*50.0*	*94 %*	*68-117*	*1I09017*	*EPA 8260B*	*09/10/11 05:04*	*JKG*	
Toluene-d8	*47*	*1*	*50.0*	*95 %*	*69-110*	*1I09017*	*EPA 8260B*	*09/10/11 05:04*	*JKG*	

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Description: PMW-6
Matrix: Water
Project: Parcel # 09084036

Lab Sample ID: C110554-05
Sampled: 09/06/11 17:00
Sampled By: Danny Hefner

Received: 09/07/11 16:40
Work Order: C110554

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	1I13013	EPA 7470A	09/13/11 15:00	NLH	

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Description: PMW-6 | **Lab Sample ID:** C110554-05 | **Received:** 09/07/11 16:40

Matrix: Water | **Sampled:** 09/06/11 17:00 | **Work Order:** C110554

Project: Parcel # 09084036 | **Sampled By:** Danny Hefner

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	1I12017	EPA 6020A	09/21/11 09:21	VLO	
Arsenic [7440-38-2] ^	**7.72**	J	ug/L	1	2.80	10.0	1I08018	EPA 6010C	09/12/11 11:01	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1I08018	EPA 6010C	09/12/11 11:01	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1I08018	EPA 6010C	09/12/11 11:01	JDH	
Chromium [7440-47-3] ^	**2.86**	J	ug/L	1	1.00	10.0	1I08018	EPA 6010C	09/12/11 11:01	JDH	
Copper [7440-50-8] ^	**5.94**	J	ug/L	1	1.60	10.0	1I08018	EPA 6010C	09/12/11 11:01	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	1I08018	EPA 6010C	09/12/11 11:01	JDH	
Nickel [7440-02-0] ^	**3.90**	J	ug/L	1	1.80	10.0	1I08018	EPA 6010C	09/12/11 11:01	JDH	
Selenium [7782-49-2] ^	2.70	U	ug/L	1	2.70	10.0	1I08018	EPA 6010C	09/12/11 11:01	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	1I12017	EPA 6020A	09/21/11 09:21	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	1I08018	EPA 6010C	09/12/11 11:01	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	1I12017	EPA 6020A	09/21/11 09:21	VLO	
Zinc [7440-66-6] ^	**7.44**	J	ug/L	1	3.80	10.0	1I08018	EPA 6010C	09/12/11 11:01	JDH	

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Description: PMW-4D
Matrix: Water
Project: Parcel # 09084036

Lab Sample ID: C110554-06
Sampled: 09/06/11 16:25
Sampled By: Danny Hefner

Received: 09/07/11 16:40
Work Order: C110554

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.90	U	ug/L	1	0.90	1.0	1I09017	EPA 8260B	09/10/11 05:33	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.65	U	ug/L	1	0.65	1.0	1I09017	EPA 8260B	09/10/11 05:33	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.75	U	ug/L	1	0.75	1.0	1I09017	EPA 8260B	09/10/11 05:33	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.66	U	ug/L	1	0.66	1.0	1I09017	EPA 8260B	09/10/11 05:33	JKG	
1,1-Dichloroethane [75-34-3] ^	0.080	U	ug/L	1	0.080	1.0	1I09017	EPA 8260B	09/10/11 05:33	JKG	
1,1-Dichloroethene [75-35-4] ^	0.60	U	ug/L	1	0.60	1.0	1I09017	EPA 8260B	09/10/11 05:33	JKG	
1,1-Dichloropropene [563-58-6] ^	0.66	U	ug/L	1	0.66	1.0	1I09017	EPA 8260B	09/10/11 05:33	JKG	
1,2,3-Trichlorobenzene [87-61-6] ^	0.51	U	ug/L	1	0.51	1.0	1I09017	EPA 8260B	09/10/11 05:33	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.72	U	ug/L	1	0.72	1.0	1I09017	EPA 8260B	09/10/11 05:33	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.58	U	ug/L	1	0.58	1.0	1I09017	EPA 8260B	09/10/11 05:33	JKG	
1,2,4-Trimethylbenzene [95-63-6] ^	0.72	U	ug/L	1	0.72	1.0	1I09017	EPA 8260B	09/10/11 05:33	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	1I09017	EPA 8260B	09/10/11 05:33	JKG	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1I09017	EPA 8260B	09/10/11 05:33	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.11	U	ug/L	1	0.11	1.0	1I09017	EPA 8260B	09/10/11 05:33	JKG	
1,2-Dichloroethane [107-06-2] ^	0.47	U	ug/L	1	0.47	1.0	1I09017	EPA 8260B	09/10/11 05:33	JKG	
1,2-Dichloropropane [78-87-5] ^	0.59	U	ug/L	1	0.59	1.0	1I09017	EPA 8260B	09/10/11 05:33	JKG	
1,3,5-Trimethylbenzene [108-67-8] ^	0.067	U	ug/L	1	0.067	1.0	1I09017	EPA 8260B	09/10/11 05:33	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.79	U	ug/L	1	0.79	1.0	1I09017	EPA 8260B	09/10/11 05:33	JKG	
1,3-Dichloropropane [142-28-9] ^	0.67	U	ug/L	1	0.67	1.0	1I09017	EPA 8260B	09/10/11 05:33	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.79	U	ug/L	1	0.79	1.0	1I09017	EPA 8260B	09/10/11 05:33	JKG	
2,2-Dichloropropane [594-20-7] ^	0.56	U	ug/L	1	0.56	1.0	1I09017	EPA 8260B	09/10/11 05:33	JKG	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	1I09017	EPA 8260B	09/10/11 05:33	JKG	
2-Chloroethyl Vinyl Ether [110-75-8] ^	1.1	U	ug/L	1	1.1	5.0	1I09017	EPA 8260B	09/10/11 05:33	JKG	
2-Chlorotoluene [95-49-8] ^	0.071	U	ug/L	1	0.071	1.0	1I09017	EPA 8260B	09/10/11 05:33	JKG	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	1I09017	EPA 8260B	09/10/11 05:33	JKG	
4-Chlorotoluene [106-43-4] ^	0.63	U	ug/L	1	0.63	1.0	1I09017	EPA 8260B	09/10/11 05:33	JKG	
4-Isopropyltoluene [99-87-6] ^	0.82	U	ug/L	1	0.82	1.0	1I09017	EPA 8260B	09/10/11 05:33	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	1I09017	EPA 8260B	09/10/11 05:33	JKG	
Acetone [67-64-1] ^	**4.6**	J	ug/L	1	1.2	5.0	1I09017	EPA 8260B	09/10/11 05:33	JKG	
Benzene [71-43-2] ^	0.68	U	ug/L	1	0.68	1.0	1I09017	EPA 8260B	09/10/11 05:33	JKG	
Bromobenzene [108-86-1] ^	0.61	U	ug/L	1	0.61	1.0	1I09017	EPA 8260B	09/10/11 05:33	JKG	
Bromochloromethane [74-97-5] ^	0.87	U	ug/L	1	0.87	1.0	1I09017	EPA 8260B	09/10/11 05:33	JKG	
Bromodichloromethane [75-27-4] ^	0.75	U	ug/L	1	0.75	1.0	1I09017	EPA 8260B	09/10/11 05:33	JKG	
Bromoform [75-25-2] ^	0.68	U	ug/L	1	0.68	1.0	1I09017	EPA 8260B	09/10/11 05:33	JKG	
Bromomethane [74-83-9] ^	0.58	U	ug/L	1	0.58	1.0	1I09017	EPA 8260B	09/10/11 05:33	JKG	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	1I09017	EPA 8260B	09/10/11 05:33	JKG	
Carbon tetrachloride [56-23-5] ^	0.69	U	ug/L	1	0.69	1.0	1I09017	EPA 8260B	09/10/11 05:33	JKG	
Chlorobenzene [108-90-7] ^	0.74	U	ug/L	1	0.74	1.0	1I09017	EPA 8260B	09/10/11 05:33	JKG	
Chloroethane [75-00-3] ^	0.75	U	ug/L	1	0.75	1.0	1I09017	EPA 8260B	09/10/11 05:33	JKG	
Chloroform [67-66-3] ^	0.70	U	ug/L	1	0.70	1.0	1I09017	EPA 8260B	09/10/11 05:33	JKG	
Chloromethane [74-87-3] ^	0.55	U	ug/L	1	0.55	1.0	1I09017	EPA 8260B	09/10/11 05:33	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	**1.1**		ug/L	1	0.72	1.0	1I09017	EPA 8260B	09/10/11 05:33	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.075	U	ug/L	1	0.075	1.0	1I09017	EPA 8260B	09/10/11 05:33	JKG	
Dibromochloromethane [124-48-1] ^	0.63	U	ug/L	1	0.63	1.0	1I09017	EPA 8260B	09/10/11 05:33	JKG	
Dibromomethane [74-95-3] ^	0.90	U	ug/L	1	0.90	1.0	1I09017	EPA 8260B	09/10/11 05:33	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.56	U	ug/L	1	0.56	1.0	1I09017	EPA 8260B	09/10/11 05:33	JKG	
Ethylbenzene [100-41-4] ^	0.62	U	ug/L	1	0.62	1.0	1I09017	EPA 8260B	09/10/11 05:33	JKG	
Hexachlorobutadiene [87-68-3] ^	0.88	U	ug/L	1	0.88	1.0	1I09017	EPA 8260B	09/10/11 05:33	JKG	
Isopropylbenzene [98-82-8] ^	0.62	U	ug/L	1	0.62	1.0	1I09017	EPA 8260B	09/10/11 05:33	JKG	
m,p-Xylenes [108-38-3/106-42-3] ^	1.4	U	ug/L	1	1.4	2.0	1I09017	EPA 8260B	09/10/11 05:33	JKG	
Methylene chloride [75-09-2] ^	0.14	U	ug/L	1	0.14	1.0	1I09017	EPA 8260B	09/10/11 05:33	JKG	

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Description: PMW-4D
Matrix: Water
Project: Parcel # 09084036

Lab Sample ID: C110554-06
Sampled: 09/06/11 16:25
Sampled By: Danny Hefner

Received: 09/07/11 16:40
Work Order: C110554

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Methyl-tert-Butyl Ether [1634-04-4] ^	0.58	U	ug/L	1	0.58	1.0	1I09017	EPA 8260B	09/10/11 05:33	JKG	
Naphthalene [91-20-3] ^	0.46	U	ug/L	1	0.46	1.0	1I09017	EPA 8260B	09/10/11 05:33	JKG	
n-Butyl Benzene [104-51-8] ^	0.51	U	ug/L	1	0.51	1.0	1I09017	EPA 8260B	09/10/11 05:33	JKG	
n-Propyl Benzene [103-65-1] ^	0.093	U	ug/L	1	0.093	1.0	1I09017	EPA 8260B	09/10/11 05:33	JKG	
o-Xylene [95-47-6] ^	0.63	U	ug/L	1	0.63	1.0	1I09017	EPA 8260B	09/10/11 05:33	JKG	
sec-Butylbenzene [135-98-8] ^	0.84	U	ug/L	1	0.84	1.0	1I09017	EPA 8260B	09/10/11 05:33	JKG	
Styrene [100-42-5] ^	0.053	U	ug/L	1	0.053	1.0	1I09017	EPA 8260B	09/10/11 05:33	JKG	
tert-Butylbenzene [98-06-6] ^	0.79	U	ug/L	1	0.79	1.0	1I09017	EPA 8260B	09/10/11 05:33	JKG	
Tetrachloroethene [127-18-4] ^	0.73	U	ug/L	1	0.73	1.0	1I09017	EPA 8260B	09/10/11 05:33	JKG	
Toluene [108-88-3] ^	0.85	U	ug/L	1	0.85	1.0	1I09017	EPA 8260B	09/10/11 05:33	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.12	U	ug/L	1	0.12	1.0	1I09017	EPA 8260B	09/10/11 05:33	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.50	U	ug/L	1	0.50	1.0	1I09017	EPA 8260B	09/10/11 05:33	JKG	
Trichloroethene [79-01-6] ^	0.72	U	ug/L	1	0.72	1.0	1I09017	EPA 8260B	09/10/11 05:33	JKG	
Trichlorofluoromethane [75-69-4] ^	0.66	U	ug/L	1	0.66	1.0	1I09017	EPA 8260B	09/10/11 05:33	JKG	
Vinyl chloride [75-01-4] ^	0.60	U	ug/L	1	0.60	1.0	1I09017	EPA 8260B	09/10/11 05:33	JKG	
Xylenes (Total) [1330-20-7] ^	2.1	U	ug/L	1	2.1	3.0	1I09017	EPA 8260B	09/10/11 05:33	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*48*	*1*	*50.0*	*96 %*	*51-122*	*1I09017*	*EPA 8260B*	*09/10/11 05:33*	*JKG*	
Dibromofluoromethane	*49*	*1*	*50.0*	*97 %*	*68-117*	*1I09017*	*EPA 8260B*	*09/10/11 05:33*	*JKG*	
Toluene-d8	*49*	*1*	*50.0*	*97 %*	*69-110*	*1I09017*	*EPA 8260B*	*09/10/11 05:33*	*JKG*	

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Description: PMW-4D
Matrix: Water
Project: Parcel # 09084036

Lab Sample ID: C110554-06
Sampled: 09/06/11 16:25
Sampled By: Danny Hefner

Received: 09/07/11 16:40
Work Order: C110554

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	1I13013	EPA 7470A	09/13/11 15:03	NLH	

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Description: PMW-4D
Matrix: Water
Project: Parcel # 09084036

Lab Sample ID: C110554-06
Sampled: 09/06/11 16:25
Sampled By: Danny Hefner

Received: 09/07/11 16:40
Work Order: C110554

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	**2.29**		ug/L	1	0.220	2.00	1I12017	EPA 6020A	09/21/11 10:08	VLO	
Arsenic [7440-38-2] ^	**5.02**	J	ug/L	1	2.80	10.0	1I08018	EPA 6010C	09/12/11 11:03	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1I08018	EPA 6010C	09/12/11 11:03	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1I08018	EPA 6010C	09/12/11 11:03	JDH	
Chromium [7440-47-3] ^	**23.0**		ug/L	1	1.00	10.0	1I08018	EPA 6010C	09/12/11 11:03	JDH	
Copper [7440-50-8] ^	**13.1**		ug/L	1	1.60	10.0	1I08018	EPA 6010C	09/12/11 11:03	JDH	
Lead [7439-92-1] ^	**20.5**		ug/L	1	1.90	10.0	1I08018	EPA 6010C	09/12/11 11:03	JDH	
Nickel [7440-02-0] ^	**18.9**		ug/L	1	1.80	10.0	1I08018	EPA 6010C	09/12/11 11:03	JDH	
Selenium [7782-49-2] ^	2.70	U	ug/L	1	2.70	10.0	1I08018	EPA 6010C	09/12/11 11:03	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	1I12017	EPA 6020A	09/21/11 10:08	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	1I08018	EPA 6010C	09/12/11 11:03	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	1I12017	EPA 6020A	09/21/11 10:08	VLO	
Zinc [7440-66-6] ^	**45.6**		ug/L	1	3.80	10.0	1I08018	EPA 6010C	09/12/11 11:03	JDH	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: Rinse Blank
Matrix: Water
Project: Parcel # 09084036

Lab Sample ID: C110554-07
Sampled: 09/06/11 14:50
Sampled By: Danny Hefner

Received: 09/07/11 16:40
Work Order: C110554

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.90	U	ug/L	1	0.90	1.0	1I09017	EPA 8260B	09/10/11 06:02	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.65	U	ug/L	1	0.65	1.0	1I09017	EPA 8260B	09/10/11 06:02	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.75	U	ug/L	1	0.75	1.0	1I09017	EPA 8260B	09/10/11 06:02	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.66	U	ug/L	1	0.66	1.0	1I09017	EPA 8260B	09/10/11 06:02	JKG	
1,1-Dichloroethane [75-34-3] ^	0.080	U	ug/L	1	0.080	1.0	1I09017	EPA 8260B	09/10/11 06:02	JKG	
1,1-Dichloroethene [75-35-4] ^	0.60	U	ug/L	1	0.60	1.0	1I09017	EPA 8260B	09/10/11 06:02	JKG	
1,1-Dichloropropene [563-58-6] ^	0.66	U	ug/L	1	0.66	1.0	1I09017	EPA 8260B	09/10/11 06:02	JKG	
1,2,3-Trichlorobenzene [87-61-6] ^	0.51	U	ug/L	1	0.51	1.0	1I09017	EPA 8260B	09/10/11 06:02	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.72	U	ug/L	1	0.72	1.0	1I09017	EPA 8260B	09/10/11 06:02	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.58	U	ug/L	1	0.58	1.0	1I09017	EPA 8260B	09/10/11 06:02	JKG	
1,2,4-Trimethylbenzene [95-63-6] ^	0.72	U	ug/L	1	0.72	1.0	1I09017	EPA 8260B	09/10/11 06:02	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	1I09017	EPA 8260B	09/10/11 06:02	JKG	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1I09017	EPA 8260B	09/10/11 06:02	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.11	U	ug/L	1	0.11	1.0	1I09017	EPA 8260B	09/10/11 06:02	JKG	
1,2-Dichloroethane [107-06-2] ^	0.47	U	ug/L	1	0.47	1.0	1I09017	EPA 8260B	09/10/11 06:02	JKG	
1,2-Dichloropropane [78-87-5] ^	0.59	U	ug/L	1	0.59	1.0	1I09017	EPA 8260B	09/10/11 06:02	JKG	
1,3,5-Trimethylbenzene [108-67-8] ^	0.067	U	ug/L	1	0.067	1.0	1I09017	EPA 8260B	09/10/11 06:02	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.79	U	ug/L	1	0.79	1.0	1I09017	EPA 8260B	09/10/11 06:02	JKG	
1,3-Dichloropropane [142-28-9] ^	0.67	U	ug/L	1	0.67	1.0	1I09017	EPA 8260B	09/10/11 06:02	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.79	U	ug/L	1	0.79	1.0	1I09017	EPA 8260B	09/10/11 06:02	JKG	
2,2-Dichloropropane [594-20-7] ^	0.56	U	ug/L	1	0.56	1.0	1I09017	EPA 8260B	09/10/11 06:02	JKG	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	1I09017	EPA 8260B	09/10/11 06:02	JKG	
2-Chloroethyl Vinyl Ether [110-75-8] ^	1.1	U	ug/L	1	1.1	5.0	1I09017	EPA 8260B	09/10/11 06:02	JKG	
2-Chlorotoluene [95-49-8] ^	0.071	U	ug/L	1	0.071	1.0	1I09017	EPA 8260B	09/10/11 06:02	JKG	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	1I09017	EPA 8260B	09/10/11 06:02	JKG	
4-Chlorotoluene [106-43-4] ^	0.63	U	ug/L	1	0.63	1.0	1I09017	EPA 8260B	09/10/11 06:02	JKG	
4-Isopropyltoluene [99-87-6] ^	0.82	U	ug/L	1	0.82	1.0	1I09017	EPA 8260B	09/10/11 06:02	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	1I09017	EPA 8260B	09/10/11 06:02	JKG	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	1I09017	EPA 8260B	09/10/11 06:02	JKG	
Benzene [71-43-2] ^	0.68	U	ug/L	1	0.68	1.0	1I09017	EPA 8260B	09/10/11 06:02	JKG	
Bromobenzene [108-86-1] ^	0.61	U	ug/L	1	0.61	1.0	1I09017	EPA 8260B	09/10/11 06:02	JKG	
Bromochloromethane [74-97-5] ^	0.87	U	ug/L	1	0.87	1.0	1I09017	EPA 8260B	09/10/11 06:02	JKG	
Bromodichloromethane [75-27-4] ^	0.75	U	ug/L	1	0.75	1.0	1I09017	EPA 8260B	09/10/11 06:02	JKG	
Bromoform [75-25-2] ^	0.68	U	ug/L	1	0.68	1.0	1I09017	EPA 8260B	09/10/11 06:02	JKG	
Bromomethane [74-83-9] ^	0.58	U	ug/L	1	0.58	1.0	1I09017	EPA 8260B	09/10/11 06:02	JKG	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	1I09017	EPA 8260B	09/10/11 06:02	JKG	
Carbon tetrachloride [56-23-5] ^	0.69	U	ug/L	1	0.69	1.0	1I09017	EPA 8260B	09/10/11 06:02	JKG	
Chlorobenzene [108-90-7] ^	0.74	U	ug/L	1	0.74	1.0	1I09017	EPA 8260B	09/10/11 06:02	JKG	
Chloroethane [75-00-3] ^	0.75	U	ug/L	1	0.75	1.0	1I09017	EPA 8260B	09/10/11 06:02	JKG	
Chloroform [67-66-3] ^	0.70	U	ug/L	1	0.70	1.0	1I09017	EPA 8260B	09/10/11 06:02	JKG	
Chloromethane [74-87-3] ^	0.55	U	ug/L	1	0.55	1.0	1I09017	EPA 8260B	09/10/11 06:02	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.72	U	ug/L	1	0.72	1.0	1I09017	EPA 8260B	09/10/11 06:02	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.075	U	ug/L	1	0.075	1.0	1I09017	EPA 8260B	09/10/11 06:02	JKG	
Dibromochloromethane [124-48-1] ^	0.63	U	ug/L	1	0.63	1.0	1I09017	EPA 8260B	09/10/11 06:02	JKG	
Dibromomethane [74-95-3] ^	0.90	U	ug/L	1	0.90	1.0	1I09017	EPA 8260B	09/10/11 06:02	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.56	U	ug/L	1	0.56	1.0	1I09017	EPA 8260B	09/10/11 06:02	JKG	
Ethylbenzene [100-41-4] ^	0.62	U	ug/L	1	0.62	1.0	1I09017	EPA 8260B	09/10/11 06:02	JKG	
Hexachlorobutadiene [87-68-3] ^	0.88	U	ug/L	1	0.88	1.0	1I09017	EPA 8260B	09/10/11 06:02	JKG	
Isopropylbenzene [98-82-8] ^	0.62	U	ug/L	1	0.62	1.0	1I09017	EPA 8260B	09/10/11 06:02	JKG	
m,p-Xylenes [108-38-3/106-42-3] ^	1.4	U	ug/L	1	1.4	2.0	1I09017	EPA 8260B	09/10/11 06:02	JKG	
Methylene chloride [75-09-2] ^	0.14	U	ug/L	1	0.14	1.0	1I09017	EPA 8260B	09/10/11 06:02	JKG	

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Description: Rinse Blank
Matrix: Water
Project: Parcel # 09084036

Lab Sample ID: C110554-07
Sampled: 09/06/11 14:50
Sampled By: Danny Hefner

Received: 09/07/11 16:40
Work Order: C110554

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Methyl-tert-Butyl Ether [1634-04-4] ^	0.58	U	ug/L	1	0.58	1.0	1I09017	EPA 8260B	09/10/11 06:02	JKG	
Naphthalene [91-20-3] ^	0.46	U	ug/L	1	0.46	1.0	1I09017	EPA 8260B	09/10/11 06:02	JKG	
n-Butyl Benzene [104-51-8] ^	0.51	U	ug/L	1	0.51	1.0	1I09017	EPA 8260B	09/10/11 06:02	JKG	
n-Propyl Benzene [103-65-1] ^	0.093	U	ug/L	1	0.093	1.0	1I09017	EPA 8260B	09/10/11 06:02	JKG	
o-Xylene [95-47-6] ^	0.63	U	ug/L	1	0.63	1.0	1I09017	EPA 8260B	09/10/11 06:02	JKG	
sec-Butylbenzene [135-98-8] ^	0.84	U	ug/L	1	0.84	1.0	1I09017	EPA 8260B	09/10/11 06:02	JKG	
Styrene [100-42-5] ^	0.053	U	ug/L	1	0.053	1.0	1I09017	EPA 8260B	09/10/11 06:02	JKG	
tert-Butylbenzene [98-06-6] ^	0.79	U	ug/L	1	0.79	1.0	1I09017	EPA 8260B	09/10/11 06:02	JKG	
Tetrachloroethene [127-18-4] ^	0.73	U	ug/L	1	0.73	1.0	1I09017	EPA 8260B	09/10/11 06:02	JKG	
Toluene [108-88-3] ^	0.85	U	ug/L	1	0.85	1.0	1I09017	EPA 8260B	09/10/11 06:02	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.12	U	ug/L	1	0.12	1.0	1I09017	EPA 8260B	09/10/11 06:02	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.50	U	ug/L	1	0.50	1.0	1I09017	EPA 8260B	09/10/11 06:02	JKG	
Trichloroethene [79-01-6] ^	0.72	U	ug/L	1	0.72	1.0	1I09017	EPA 8260B	09/10/11 06:02	JKG	
Trichlorofluoromethane [75-69-4] ^	0.66	U	ug/L	1	0.66	1.0	1I09017	EPA 8260B	09/10/11 06:02	JKG	
Vinyl chloride [75-01-4] ^	0.60	U	ug/L	1	0.60	1.0	1I09017	EPA 8260B	09/10/11 06:02	JKG	
Xylenes (Total) [1330-20-7] ^	2.1	U	ug/L	1	2.1	3.0	1I09017	EPA 8260B	09/10/11 06:02	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*48*	*1*	*50.0*	*95 %*	*51-122*	*1I09017*	*EPA 8260B*	*09/10/11 06:02*	*JKG*	
Dibromofluoromethane	*49*	*1*	*50.0*	*98 %*	*68-117*	*1I09017*	*EPA 8260B*	*09/10/11 06:02*	*JKG*	
Toluene-d8	*48*	*1*	*50.0*	*96 %*	*69-110*	*1I09017*	*EPA 8260B*	*09/10/11 06:02*	*JKG*	

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Description: Rinse Blank
Matrix: Water
Project: Parcel # 09084036

Lab Sample ID: C110554-07
Sampled: 09/06/11 14:50
Sampled By: Danny Hefner

Received: 09/07/11 16:40
Work Order: C110554

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	1I13013	EPA 7470A	09/13/11 15:06	NLH	

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Description: Rinse Blank
Matrix: Water
Project: Parcel # 09084036

Lab Sample ID: C110554-07
Sampled: 09/06/11 14:50
Sampled By: Danny Hefner

Received: 09/07/11 16:40
Work Order: C110554

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	1I12017	EPA 6020A	09/21/11 10:12	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	1I08018	EPA 6010C	09/12/11 11:05	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1I08018	EPA 6010C	09/12/11 11:05	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1I08018	EPA 6010C	09/12/11 11:05	JDH	
Chromium [7440-47-3] ^	1.00	U	ug/L	1	1.00	10.0	1I08018	EPA 6010C	09/12/11 11:05	JDH	
Copper [7440-50-8] ^	**2.04**	J	ug/L	1	1.60	10.0	1I08018	EPA 6010C	09/12/11 11:05	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	1I08018	EPA 6010C	09/12/11 11:05	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	1I08018	EPA 6010C	09/12/11 11:05	JDH	
Selenium [7782-49-2] ^	2.70	U	ug/L	1	2.70	10.0	1I08018	EPA 6010C	09/12/11 11:05	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	1I12017	EPA 6020A	09/21/11 10:12	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	1I08018	EPA 6010C	09/12/11 11:05	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	1I12017	EPA 6020A	09/21/11 10:12	VLO	
Zinc [7440-66-6] ^	3.80	U	ug/L	1	3.80	10.0	1I08018	EPA 6010C	09/12/11 11:05	JDH	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: Field Blank
Matrix: Water
Project: Parcel # 09084036

Lab Sample ID: C110554-08
Sampled: 09/06/11 16:35
Sampled By: Danny Hefner

Received: 09/07/11 16:40
Work Order: C110554

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.90	U	ug/L	1	0.90	1.0	1I09017	EPA 8260B	09/10/11 06:32	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.65	U	ug/L	1	0.65	1.0	1I09017	EPA 8260B	09/10/11 06:32	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.75	U	ug/L	1	0.75	1.0	1I09017	EPA 8260B	09/10/11 06:32	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.66	U	ug/L	1	0.66	1.0	1I09017	EPA 8260B	09/10/11 06:32	JKG	
1,1-Dichloroethane [75-34-3] ^	0.080	U	ug/L	1	0.080	1.0	1I09017	EPA 8260B	09/10/11 06:32	JKG	
1,1-Dichloroethene [75-35-4] ^	0.60	U	ug/L	1	0.60	1.0	1I09017	EPA 8260B	09/10/11 06:32	JKG	
1,1-Dichloropropene [563-58-6] ^	0.66	U	ug/L	1	0.66	1.0	1I09017	EPA 8260B	09/10/11 06:32	JKG	
1,2,3-Trichlorobenzene [87-61-6] ^	0.51	U	ug/L	1	0.51	1.0	1I09017	EPA 8260B	09/10/11 06:32	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.72	U	ug/L	1	0.72	1.0	1I09017	EPA 8260B	09/10/11 06:32	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.58	U	ug/L	1	0.58	1.0	1I09017	EPA 8260B	09/10/11 06:32	JKG	
1,2,4-Trimethylbenzene [95-63-6] ^	0.72	U	ug/L	1	0.72	1.0	1I09017	EPA 8260B	09/10/11 06:32	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	1I09017	EPA 8260B	09/10/11 06:32	JKG	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1I09017	EPA 8260B	09/10/11 06:32	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.11	U	ug/L	1	0.11	1.0	1I09017	EPA 8260B	09/10/11 06:32	JKG	
1,2-Dichloroethane [107-06-2] ^	0.47	U	ug/L	1	0.47	1.0	1I09017	EPA 8260B	09/10/11 06:32	JKG	
1,2-Dichloropropane [78-87-5] ^	0.59	U	ug/L	1	0.59	1.0	1I09017	EPA 8260B	09/10/11 06:32	JKG	
1,3,5-Trimethylbenzene [108-67-8] ^	0.067	U	ug/L	1	0.067	1.0	1I09017	EPA 8260B	09/10/11 06:32	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.79	U	ug/L	1	0.79	1.0	1I09017	EPA 8260B	09/10/11 06:32	JKG	
1,3-Dichloropropane [142-28-9] ^	0.67	U	ug/L	1	0.67	1.0	1I09017	EPA 8260B	09/10/11 06:32	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.79	U	ug/L	1	0.79	1.0	1I09017	EPA 8260B	09/10/11 06:32	JKG	
2,2-Dichloropropane [594-20-7] ^	0.56	U	ug/L	1	0.56	1.0	1I09017	EPA 8260B	09/10/11 06:32	JKG	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	1I09017	EPA 8260B	09/10/11 06:32	JKG	
2-Chloroethyl Vinyl Ether [110-75-8] ^	1.1	U	ug/L	1	1.1	5.0	1I09017	EPA 8260B	09/10/11 06:32	JKG	
2-Chlorotoluene [95-49-8] ^	0.071	U	ug/L	1	0.071	1.0	1I09017	EPA 8260B	09/10/11 06:32	JKG	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	1I09017	EPA 8260B	09/10/11 06:32	JKG	
4-Chlorotoluene [106-43-4] ^	0.63	U	ug/L	1	0.63	1.0	1I09017	EPA 8260B	09/10/11 06:32	JKG	
4-Isopropyltoluene [99-87-6] ^	0.82	U	ug/L	1	0.82	1.0	1I09017	EPA 8260B	09/10/11 06:32	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	1I09017	EPA 8260B	09/10/11 06:32	JKG	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	1I09017	EPA 8260B	09/10/11 06:32	JKG	
Benzene [71-43-2] ^	0.68	U	ug/L	1	0.68	1.0	1I09017	EPA 8260B	09/10/11 06:32	JKG	
Bromobenzene [108-86-1] ^	0.61	U	ug/L	1	0.61	1.0	1I09017	EPA 8260B	09/10/11 06:32	JKG	
Bromochloromethane [74-97-5] ^	0.87	U	ug/L	1	0.87	1.0	1I09017	EPA 8260B	09/10/11 06:32	JKG	
Bromodichloromethane [75-27-4] ^	0.75	U	ug/L	1	0.75	1.0	1I09017	EPA 8260B	09/10/11 06:32	JKG	
Bromoform [75-25-2] ^	0.68	U	ug/L	1	0.68	1.0	1I09017	EPA 8260B	09/10/11 06:32	JKG	
Bromomethane [74-83-9] ^	0.58	U	ug/L	1	0.58	1.0	1I09017	EPA 8260B	09/10/11 06:32	JKG	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	1I09017	EPA 8260B	09/10/11 06:32	JKG	
Carbon tetrachloride [56-23-5] ^	0.69	U	ug/L	1	0.69	1.0	1I09017	EPA 8260B	09/10/11 06:32	JKG	
Chlorobenzene [108-90-7] ^	0.74	U	ug/L	1	0.74	1.0	1I09017	EPA 8260B	09/10/11 06:32	JKG	
Chloroethane [75-00-3] ^	0.75	U	ug/L	1	0.75	1.0	1I09017	EPA 8260B	09/10/11 06:32	JKG	
Chloroform [67-66-3] ^	0.70	U	ug/L	1	0.70	1.0	1I09017	EPA 8260B	09/10/11 06:32	JKG	
Chloromethane [74-87-3] ^	0.55	U	ug/L	1	0.55	1.0	1I09017	EPA 8260B	09/10/11 06:32	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.72	U	ug/L	1	0.72	1.0	1I09017	EPA 8260B	09/10/11 06:32	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.075	U	ug/L	1	0.075	1.0	1I09017	EPA 8260B	09/10/11 06:32	JKG	
Dibromochloromethane [124-48-1] ^	0.63	U	ug/L	1	0.63	1.0	1I09017	EPA 8260B	09/10/11 06:32	JKG	
Dibromomethane [74-95-3] ^	0.90	U	ug/L	1	0.90	1.0	1I09017	EPA 8260B	09/10/11 06:32	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.56	U	ug/L	1	0.56	1.0	1I09017	EPA 8260B	09/10/11 06:32	JKG	
Ethylbenzene [100-41-4] ^	0.62	U	ug/L	1	0.62	1.0	1I09017	EPA 8260B	09/10/11 06:32	JKG	
Hexachlorobutadiene [87-68-3] ^	0.88	U	ug/L	1	0.88	1.0	1I09017	EPA 8260B	09/10/11 06:32	JKG	
Isopropylbenzene [98-82-8] ^	0.62	U	ug/L	1	0.62	1.0	1I09017	EPA 8260B	09/10/11 06:32	JKG	
m,p-Xylenes [108-38-3/106-42-3] ^	1.4	U	ug/L	1	1.4	2.0	1I09017	EPA 8260B	09/10/11 06:32	JKG	
Methylene chloride [75-09-2] ^	0.14	U	ug/L	1	0.14	1.0	1I09017	EPA 8260B	09/10/11 06:32	JKG	

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Description: Field Blank
Matrix: Water
Project: Parcel # 09084036

Lab Sample ID: C110554-08
Sampled: 09/06/11 16:35
Sampled By: Danny Hefner

Received: 09/07/11 16:40
Work Order: C110554

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Methyl-tert-Butyl Ether [1634-04-4] ^	0.58	U	ug/L	1	0.58	1.0	1I09017	EPA 8260B	09/10/11 06:32	JKG	
Naphthalene [91-20-3] ^	0.46	U	ug/L	1	0.46	1.0	1I09017	EPA 8260B	09/10/11 06:32	JKG	
n-Butyl Benzene [104-51-8] ^	0.51	U	ug/L	1	0.51	1.0	1I09017	EPA 8260B	09/10/11 06:32	JKG	
n-Propyl Benzene [103-65-1] ^	0.093	U	ug/L	1	0.093	1.0	1I09017	EPA 8260B	09/10/11 06:32	JKG	
o-Xylene [95-47-6] ^	0.63	U	ug/L	1	0.63	1.0	1I09017	EPA 8260B	09/10/11 06:32	JKG	
sec-Butylbenzene [135-98-8] ^	0.84	U	ug/L	1	0.84	1.0	1I09017	EPA 8260B	09/10/11 06:32	JKG	
Styrene [100-42-5] ^	0.053	U	ug/L	1	0.053	1.0	1I09017	EPA 8260B	09/10/11 06:32	JKG	
tert-Butylbenzene [98-06-6] ^	0.79	U	ug/L	1	0.79	1.0	1I09017	EPA 8260B	09/10/11 06:32	JKG	
Tetrachloroethene [127-18-4] ^	0.73	U	ug/L	1	0.73	1.0	1I09017	EPA 8260B	09/10/11 06:32	JKG	
Toluene [108-88-3] ^	0.85	U	ug/L	1	0.85	1.0	1I09017	EPA 8260B	09/10/11 06:32	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.12	U	ug/L	1	0.12	1.0	1I09017	EPA 8260B	09/10/11 06:32	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.50	U	ug/L	1	0.50	1.0	1I09017	EPA 8260B	09/10/11 06:32	JKG	
Trichloroethene [79-01-6] ^	0.72	U	ug/L	1	0.72	1.0	1I09017	EPA 8260B	09/10/11 06:32	JKG	
Trichlorofluoromethane [75-69-4] ^	0.66	U	ug/L	1	0.66	1.0	1I09017	EPA 8260B	09/10/11 06:32	JKG	
Vinyl chloride [75-01-4] ^	0.60	U	ug/L	1	0.60	1.0	1I09017	EPA 8260B	09/10/11 06:32	JKG	
Xylenes (Total) [1330-20-7] ^	2.1	U	ug/L	1	2.1	3.0	1I09017	EPA 8260B	09/10/11 06:32	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*48*	*1*	*50.0*	*95 %*	*51-122*	*1I09017*	*EPA 8260B*	*09/10/11 06:32*	*JKG*	
Dibromofluoromethane	*50*	*1*	*50.0*	*101 %*	*68-117*	*1I09017*	*EPA 8260B*	*09/10/11 06:32*	*JKG*	
Toluene-d8	*49*	*1*	*50.0*	*97 %*	*69-110*	*1I09017*	*EPA 8260B*	*09/10/11 06:32*	*JKG*	

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Description: Field Blank
Matrix: Water
Project: Parcel # 09084036

Lab Sample ID: C110554-08
Sampled: 09/06/11 16:35
Sampled By: Danny Hefner

Received: 09/07/11 16:40
Work Order: C110554

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	1I13013	EPA 7470A	09/13/11 15:09	NLH	

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Description: Field Blank
Matrix: Water
Project: Parcel # 09084036

Lab Sample ID: C110554-08
Sampled: 09/06/11 16:35
Sampled By: Danny Hefner

Received: 09/07/11 16:40
Work Order: C110554

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	1I12017	EPA 6020A	09/21/11 11:01	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	1I08018	EPA 6010C	09/12/11 11:12	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1I08018	EPA 6010C	09/12/11 11:12	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1I08018	EPA 6010C	09/12/11 11:12	JDH	
Chromium [7440-47-3] ^	1.00	U	ug/L	1	1.00	10.0	1I08018	EPA 6010C	09/12/11 11:12	JDH	
Copper [7440-50-8] ^	**2.23**	J	ug/L	1	1.60	10.0	1I08018	EPA 6010C	09/12/11 11:12	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	1I08018	EPA 6010C	09/12/11 11:12	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	1I08018	EPA 6010C	09/12/11 11:12	JDH	
Selenium [7782-49-2] ^	**2.81**	J	ug/L	1	2.70	10.0	1I08018	EPA 6010C	09/12/11 11:12	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	1I12017	EPA 6020A	09/21/11 11:01	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	1I08018	EPA 6010C	09/12/11 11:12	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	1I12017	EPA 6020A	09/21/11 11:01	VLO	
Zinc [7440-66-6] ^	3.80	U	ug/L	1	3.80	10.0	1I08018	EPA 6010C	09/12/11 11:12	JDH	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: Trip Blank
Matrix: Water
Project: Parcel # 09084036

Lab Sample ID: C110554-09
Sampled: 09/06/11 14:50
Sampled By: ENCO

Received: 09/07/11 16:40
Work Order: C110554

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.90	U	ug/L	1	0.90	1.0	1I09017	EPA 8260B	09/10/11 07:01	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.65	U	ug/L	1	0.65	1.0	1I09017	EPA 8260B	09/10/11 07:01	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.75	U	ug/L	1	0.75	1.0	1I09017	EPA 8260B	09/10/11 07:01	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.66	U	ug/L	1	0.66	1.0	1I09017	EPA 8260B	09/10/11 07:01	JKG	
1,1-Dichloroethane [75-34-3] ^	0.080	U	ug/L	1	0.080	1.0	1I09017	EPA 8260B	09/10/11 07:01	JKG	
1,1-Dichloroethene [75-35-4] ^	0.60	U	ug/L	1	0.60	1.0	1I09017	EPA 8260B	09/10/11 07:01	JKG	
1,1-Dichloropropene [563-58-6] ^	0.66	U	ug/L	1	0.66	1.0	1I09017	EPA 8260B	09/10/11 07:01	JKG	
1,2,3-Trichlorobenzene [87-61-6] ^	0.51	U	ug/L	1	0.51	1.0	1I09017	EPA 8260B	09/10/11 07:01	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.72	U	ug/L	1	0.72	1.0	1I09017	EPA 8260B	09/10/11 07:01	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.58	U	ug/L	1	0.58	1.0	1I09017	EPA 8260B	09/10/11 07:01	JKG	
1,2,4-Trimethylbenzene [95-63-6] ^	0.72	U	ug/L	1	0.72	1.0	1I09017	EPA 8260B	09/10/11 07:01	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	1I09017	EPA 8260B	09/10/11 07:01	JKG	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1I09017	EPA 8260B	09/10/11 07:01	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.11	U	ug/L	1	0.11	1.0	1I09017	EPA 8260B	09/10/11 07:01	JKG	
1,2-Dichloroethane [107-06-2] ^	0.47	U	ug/L	1	0.47	1.0	1I09017	EPA 8260B	09/10/11 07:01	JKG	
1,2-Dichloropropane [78-87-5] ^	0.59	U	ug/L	1	0.59	1.0	1I09017	EPA 8260B	09/10/11 07:01	JKG	
1,3,5-Trimethylbenzene [108-67-8] ^	0.067	U	ug/L	1	0.067	1.0	1I09017	EPA 8260B	09/10/11 07:01	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.79	U	ug/L	1	0.79	1.0	1I09017	EPA 8260B	09/10/11 07:01	JKG	
1,3-Dichloropropane [142-28-9] ^	0.67	U	ug/L	1	0.67	1.0	1I09017	EPA 8260B	09/10/11 07:01	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.79	U	ug/L	1	0.79	1.0	1I09017	EPA 8260B	09/10/11 07:01	JKG	
2,2-Dichloropropane [594-20-7] ^	0.56	U	ug/L	1	0.56	1.0	1I09017	EPA 8260B	09/10/11 07:01	JKG	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	1I09017	EPA 8260B	09/10/11 07:01	JKG	
2-Chloroethyl Vinyl Ether [110-75-8] ^	1.1	U	ug/L	1	1.1	5.0	1I09017	EPA 8260B	09/10/11 07:01	JKG	
2-Chlorotoluene [95-49-8] ^	0.071	U	ug/L	1	0.071	1.0	1I09017	EPA 8260B	09/10/11 07:01	JKG	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	1I09017	EPA 8260B	09/10/11 07:01	JKG	
4-Chlorotoluene [106-43-4] ^	0.63	U	ug/L	1	0.63	1.0	1I09017	EPA 8260B	09/10/11 07:01	JKG	
4-Isopropyltoluene [99-87-6] ^	0.82	U	ug/L	1	0.82	1.0	1I09017	EPA 8260B	09/10/11 07:01	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	1I09017	EPA 8260B	09/10/11 07:01	JKG	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	1I09017	EPA 8260B	09/10/11 07:01	JKG	
Benzene [71-43-2] ^	0.68	U	ug/L	1	0.68	1.0	1I09017	EPA 8260B	09/10/11 07:01	JKG	
Bromobenzene [108-86-1] ^	0.61	U	ug/L	1	0.61	1.0	1I09017	EPA 8260B	09/10/11 07:01	JKG	
Bromochloromethane [74-97-5] ^	0.87	U	ug/L	1	0.87	1.0	1I09017	EPA 8260B	09/10/11 07:01	JKG	
Bromodichloromethane [75-27-4] ^	0.75	U	ug/L	1	0.75	1.0	1I09017	EPA 8260B	09/10/11 07:01	JKG	
Bromoform [75-25-2] ^	0.68	U	ug/L	1	0.68	1.0	1I09017	EPA 8260B	09/10/11 07:01	JKG	
Bromomethane [74-83-9] ^	0.58	U	ug/L	1	0.58	1.0	1I09017	EPA 8260B	09/10/11 07:01	JKG	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	1I09017	EPA 8260B	09/10/11 07:01	JKG	
Carbon tetrachloride [56-23-5] ^	0.69	U	ug/L	1	0.69	1.0	1I09017	EPA 8260B	09/10/11 07:01	JKG	
Chlorobenzene [108-90-7] ^	0.74	U	ug/L	1	0.74	1.0	1I09017	EPA 8260B	09/10/11 07:01	JKG	
Chloroethane [75-00-3] ^	0.75	U	ug/L	1	0.75	1.0	1I09017	EPA 8260B	09/10/11 07:01	JKG	
Chloroform [67-66-3] ^	0.70	U	ug/L	1	0.70	1.0	1I09017	EPA 8260B	09/10/11 07:01	JKG	
Chloromethane [74-87-3] ^	0.55	U	ug/L	1	0.55	1.0	1I09017	EPA 8260B	09/10/11 07:01	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.72	U	ug/L	1	0.72	1.0	1I09017	EPA 8260B	09/10/11 07:01	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.075	U	ug/L	1	0.075	1.0	1I09017	EPA 8260B	09/10/11 07:01	JKG	
Dibromochloromethane [124-48-1] ^	0.63	U	ug/L	1	0.63	1.0	1I09017	EPA 8260B	09/10/11 07:01	JKG	
Dibromomethane [74-95-3] ^	0.90	U	ug/L	1	0.90	1.0	1I09017	EPA 8260B	09/10/11 07:01	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.56	U	ug/L	1	0.56	1.0	1I09017	EPA 8260B	09/10/11 07:01	JKG	
Ethylbenzene [100-41-4] ^	0.62	U	ug/L	1	0.62	1.0	1I09017	EPA 8260B	09/10/11 07:01	JKG	
Hexachlorobutadiene [87-68-3] ^	0.88	U	ug/L	1	0.88	1.0	1I09017	EPA 8260B	09/10/11 07:01	JKG	
Isopropylbenzene [98-82-8] ^	0.62	U	ug/L	1	0.62	1.0	1I09017	EPA 8260B	09/10/11 07:01	JKG	
m,p-Xylenes [108-38-3/106-42-3] ^	1.4	U	ug/L	1	1.4	2.0	1I09017	EPA 8260B	09/10/11 07:01	JKG	
Methylene chloride [75-09-2] ^	0.14	U	ug/L	1	0.14	1.0	1I09017	EPA 8260B	09/10/11 07:01	JKG	

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Description: Trip Blank
Matrix: Water
Project: Parcel # 09084036

Lab Sample ID: C110554-09
Sampled: 09/06/11 14:50
Sampled By: ENCO

Received: 09/07/11 16:40
Work Order: C110554

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Methyl-tert-Butyl Ether [1634-04-4] ^	0.58	U	ug/L	1	0.58	1.0	1I09017	EPA 8260B	09/10/11 07:01	JKG	
Naphthalene [91-20-3] ^	0.46	U	ug/L	1	0.46	1.0	1I09017	EPA 8260B	09/10/11 07:01	JKG	
n-Butyl Benzene [104-51-8] ^	0.51	U	ug/L	1	0.51	1.0	1I09017	EPA 8260B	09/10/11 07:01	JKG	
n-Propyl Benzene [103-65-1] ^	0.093	U	ug/L	1	0.093	1.0	1I09017	EPA 8260B	09/10/11 07:01	JKG	
o-Xylene [95-47-6] ^	0.63	U	ug/L	1	0.63	1.0	1I09017	EPA 8260B	09/10/11 07:01	JKG	
sec-Butylbenzene [135-98-8] ^	0.84	U	ug/L	1	0.84	1.0	1I09017	EPA 8260B	09/10/11 07:01	JKG	
Styrene [100-42-5] ^	0.053	U	ug/L	1	0.053	1.0	1I09017	EPA 8260B	09/10/11 07:01	JKG	
tert-Butylbenzene [98-06-6] ^	0.79	U	ug/L	1	0.79	1.0	1I09017	EPA 8260B	09/10/11 07:01	JKG	
Tetrachloroethene [127-18-4] ^	0.73	U	ug/L	1	0.73	1.0	1I09017	EPA 8260B	09/10/11 07:01	JKG	
Toluene [108-88-3] ^	0.85	U	ug/L	1	0.85	1.0	1I09017	EPA 8260B	09/10/11 07:01	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.12	U	ug/L	1	0.12	1.0	1I09017	EPA 8260B	09/10/11 07:01	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.50	U	ug/L	1	0.50	1.0	1I09017	EPA 8260B	09/10/11 07:01	JKG	
Trichloroethene [79-01-6] ^	0.72	U	ug/L	1	0.72	1.0	1I09017	EPA 8260B	09/10/11 07:01	JKG	
Trichlorofluoromethane [75-69-4] ^	0.66	U	ug/L	1	0.66	1.0	1I09017	EPA 8260B	09/10/11 07:01	JKG	
Vinyl chloride [75-01-4] ^	0.60	U	ug/L	1	0.60	1.0	1I09017	EPA 8260B	09/10/11 07:01	JKG	
Xylenes (Total) [1330-20-7] ^	2.1	U	ug/L	1	2.1	3.0	1I09017	EPA 8260B	09/10/11 07:01	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*48*	*1*	*50.0*	*97 %*	*51-122*	*1I09017*	*EPA 8260B*	*09/10/11 07:01*	*JKG*	
Dibromofluoromethane	*50*	*1*	*50.0*	*99 %*	*68-117*	*1I09017*	*EPA 8260B*	*09/10/11 07:01*	*JKG*	
Toluene-d8	*50*	*1*	*50.0*	*100 %*	*69-110*	*1I09017*	*EPA 8260B*	*09/10/11 07:01*	*JKG*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: PMW-1
Matrix: Ground Water
Project: Parcel # 09084036

Lab Sample ID: C110855-01
Sampled: 09/08/11 16:45
Sampled By: Danny Hefner

Received: 09/09/11 09:48
Work Order: C110855

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Hexavalent Chromium [1854-02-99] ^	**0.0094**	J	mg/L	1	0.0053	0.010	1I09012	EPA 7196A	09/09/11 11:16	AJB	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: PMW-3
Matrix: Ground Water
Project: Parcel # 09084036

Lab Sample ID: C110855-02
Sampled: 09/08/11 17:05
Sampled By: Danny Hefner

Received: 09/09/11 09:48
Work Order: C110855

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Hexavalent Chromium [1854-02-99] ^	**0.0073**	J	mg/L	1	0.0053	0.010	1I09012	EPA 7196A	09/09/11 11:16	AJB	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: PMW-4
Matrix: Ground Water
Project: Parcel # 09084036

Lab Sample ID: C110855-03
Sampled: 09/08/11 17:14
Sampled By: Danny Hefner

Received: 09/09/11 09:48
Work Order: C110855

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Hexavalent Chromium [1854-02-99] ^	0.0053	U	mg/L	1	0.0053	0.010	1I09012	EPA 7196A	09/09/11 11:16	AJB	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: PMW-4D
Matrix: Ground Water
Project: Parcel # 09084036

Lab Sample ID: C110855-04
Sampled: 09/08/11 17:18
Sampled By: Danny Hefner

Received: 09/09/11 09:48
Work Order: C110855

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Hexavalent Chromium [1854-02-99] ^	**0.0057**	J	mg/L	1	0.0053	0.010	1I09012	EPA 7196A	09/09/11 11:16	AJB	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: PMW-5
Matrix: Ground Water
Project: Parcel # 09084036

Lab Sample ID: C110855-05
Sampled: 09/08/11 17:21
Sampled By: Danny Hefner

Received: 09/09/11 09:48
Work Order: C110855

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Hexavalent Chromium [1854-02-99] ^	0.0053	U	mg/L	1	0.0053	0.010	1I09012	EPA 7196A	09/09/11 11:16	AJB	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: PMW-6
Matrix: Ground Water
Project: Parcel # 09084036

Lab Sample ID: C110855-06
Sampled: 09/08/11 17:32
Sampled By: Danny Hefner

Received: 09/09/11 09:48
Work Order: C110855

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Hexavalent Chromium [1854-02-99] ^	0.0053	U	mg/L	1	0.0053	0.010	1I09012	EPA 7196A	09/09/11 11:16	AJB	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: PMW-7 | **Lab Sample ID:** C110855-07 | **Received:** 09/09/11 09:48

Matrix: Water | **Sampled:** 09/08/11 17:33 | **Work Order:** C110855

Project: Parcel # 09084036 | **Sampled By:** Danny Hefner

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	4.5	UD	ug/L	5	4.5	5.0	1I15001	EPA 8260B	09/15/11 16:33	jkg	
1,1,1-Trichloroethane [71-55-6] ^	3.2	UD	ug/L	5	3.2	5.0	1I15001	EPA 8260B	09/15/11 16:33	jkg	
1,1,2,2-Tetrachloroethane [79-34-5] ^	3.8	UD	ug/L	5	3.8	5.0	1I15001	EPA 8260B	09/15/11 16:33	jkg	
1,1,2-Trichloroethane [79-00-5] ^	3.3	UD	ug/L	5	3.3	5.0	1I15001	EPA 8260B	09/15/11 16:33	jkg	
1,1-Dichloroethane [75-34-3] ^	0.40	UD	ug/L	5	0.40	5.0	1I15001	EPA 8260B	09/15/11 16:33	jkg	
1,1-Dichloroethene [75-35-4] ^	3.0	UD	ug/L	5	3.0	5.0	1I15001	EPA 8260B	09/15/11 16:33	jkg	
1,1-Dichloropropene [563-58-6] ^	3.3	UD	ug/L	5	3.3	5.0	1I15001	EPA 8260B	09/15/11 16:33	jkg	
1,2,3-Trichlorobenzene [87-61-6] ^	2.6	UD	ug/L	5	2.6	5.0	1I15001	EPA 8260B	09/15/11 16:33	jkg	
1,2,3-Trichloropropane [96-18-4] ^	3.6	UD	ug/L	5	3.6	5.0	1I15001	EPA 8260B	09/15/11 16:33	jkg	
1,2,4-Trichlorobenzene [120-82-1] ^	2.9	UD	ug/L	5	2.9	5.0	1I15001	EPA 8260B	09/15/11 16:33	jkg	
1,2,4-Trimethylbenzene [95-63-6] ^	3.6	UD	ug/L	5	3.6	5.0	1I15001	EPA 8260B	09/15/11 16:33	jkg	
1,2-Dibromo-3-chloropropane [96-12-8] ^	2.4	UD	ug/L	5	2.4	5.0	1I15001	EPA 8260B	09/15/11 16:33	jkg	
1,2-Dibromoethane [106-93-4] ^	3.3	UD	ug/L	5	3.3	5.0	1I15001	EPA 8260B	09/15/11 16:33	jkg	
1,2-Dichlorobenzene [95-50-1] ^	0.55	UD	ug/L	5	0.55	5.0	1I15001	EPA 8260B	09/15/11 16:33	jkg	
1,2-Dichloroethane [107-06-2] ^	2.4	UD	ug/L	5	2.4	5.0	1I15001	EPA 8260B	09/15/11 16:33	jkg	
1,2-Dichloropropane [78-87-5] ^	3.0	UD	ug/L	5	3.0	5.0	1I15001	EPA 8260B	09/15/11 16:33	jkg	
1,3,5-Trimethylbenzene [108-67-8] ^	0.34	UD	ug/L	5	0.34	5.0	1I15001	EPA 8260B	09/15/11 16:33	jkg	
1,3-Dichlorobenzene [541-73-1] ^	4.0	UD	ug/L	5	4.0	5.0	1I15001	EPA 8260B	09/15/11 16:33	jkg	
1,3-Dichloropropane [142-28-9] ^	3.4	UD	ug/L	5	3.4	5.0	1I15001	EPA 8260B	09/15/11 16:33	jkg	
1,4-Dichlorobenzene [106-46-7] ^	4.0	UD	ug/L	5	4.0	5.0	1I15001	EPA 8260B	09/15/11 16:33	jkg	
2,2-Dichloropropane [594-20-7] ^	2.8	UD	ug/L	5	2.8	5.0	1I15001	EPA 8260B	09/15/11 16:33	jkg	
2-Butanone [78-93-3] ^	6.5	UD	ug/L	5	6.5	25	1I15001	EPA 8260B	09/15/11 16:33	jkg	
2-Chloroethyl Vinyl Ether [110-75-8] ^	5.5	UD	ug/L	5	5.5	25	1I15001	EPA 8260B	09/15/11 16:33	jkg	
2-Chlorotoluene [95-49-8] ^	0.36	UD	ug/L	5	0.36	5.0	1I15001	EPA 8260B	09/15/11 16:33	jkg	
2-Hexanone [591-78-6] ^	4.4	UD	ug/L	5	4.4	25	1I15001	EPA 8260B	09/15/11 16:33	jkg	
4-Chlorotoluene [106-43-4] ^	3.2	UD	ug/L	5	3.2	5.0	1I15001	EPA 8260B	09/15/11 16:33	jkg	
4-Isopropyltoluene [99-87-6] ^	4.1	UD	ug/L	5	4.1	5.0	1I15001	EPA 8260B	09/15/11 16:33	jkg	
4-Methyl-2-pentanone [108-10-1] ^	5.5	UD	ug/L	5	5.5	25	1I15001	EPA 8260B	09/15/11 16:33	jkg	
Acetone [67-64-1] ^	6.0	UD	ug/L	5	6.0	25	1I15001	EPA 8260B	09/15/11 16:33	jkg	
Benzene [71-43-2] ^	3.4	UD	ug/L	5	3.4	5.0	1I15001	EPA 8260B	09/15/11 16:33	jkg	
Bromobenzene [108-86-1] ^	3.0	UD	ug/L	5	3.0	5.0	1I15001	EPA 8260B	09/15/11 16:33	jkg	
Bromochloromethane [74-97-5] ^	4.4	UD	ug/L	5	4.4	5.0	1I15001	EPA 8260B	09/15/11 16:33	jkg	
Bromodichloromethane [75-27-4] ^	3.8	UD	ug/L	5	3.8	5.0	1I15001	EPA 8260B	09/15/11 16:33	jkg	
Bromoform [75-25-2] ^	3.4	UD	ug/L	5	3.4	5.0	1I15001	EPA 8260B	09/15/11 16:33	jkg	
Bromomethane [74-83-9] ^	2.9	UD	ug/L	5	2.9	5.0	1I15001	EPA 8260B	09/15/11 16:33	jkg	
Carbon disulfide [75-15-0] ^	7.5	UD	ug/L	5	7.5	25	1I15001	EPA 8260B	09/15/11 16:33	jkg	
Carbon tetrachloride [56-23-5] ^	3.4	UD	ug/L	5	3.4	5.0	1I15001	EPA 8260B	09/15/11 16:33	jkg	
Chlorobenzene [108-90-7] ^	3.7	UD	ug/L	5	3.7	5.0	1I15001	EPA 8260B	09/15/11 16:33	jkg	
Chloroethane [75-00-3] ^	3.8	UD	ug/L	5	3.8	5.0	1I15001	EPA 8260B	09/15/11 16:33	jkg	
Chloroform [67-66-3] ^	3.5	UD	ug/L	5	3.5	5.0	1I15001	EPA 8260B	09/15/11 16:33	jkg	
Chloromethane [74-87-3] ^	2.8	UD	ug/L	5	2.8	5.0	1I15001	EPA 8260B	09/15/11 16:33	jkg	
cis-1,2-Dichloroethene [156-59-2] ^	3.6	UD	ug/L	5	3.6	5.0	1I15001	EPA 8260B	09/15/11 16:33	jkg	
cis-1,3-Dichloropropene [10061-01-5] ^	0.38	UD	ug/L	5	0.38	5.0	1I15001	EPA 8260B	09/15/11 16:33	jkg	
Dibromochloromethane [124-48-1] ^	3.2	UD	ug/L	5	3.2	5.0	1I15001	EPA 8260B	09/15/11 16:33	jkg	
Dibromomethane [74-95-3] ^	4.5	UD	ug/L	5	4.5	5.0	1I15001	EPA 8260B	09/15/11 16:33	jkg	
Dichlorodifluoromethane [75-71-8] ^	2.8	UD	ug/L	5	2.8	5.0	1I15001	EPA 8260B	09/15/11 16:33	jkg	
Ethylbenzene [100-41-4] ^	3.1	UD	ug/L	5	3.1	5.0	1I15001	EPA 8260B	09/15/11 16:33	jkg	
Hexachlorobutadiene [87-68-3] ^	4.4	UD	ug/L	5	4.4	5.0	1I15001	EPA 8260B	09/15/11 16:33	jkg	
Isopropylbenzene [98-82-8] ^	3.1	UD	ug/L	5	3.1	5.0	1I15001	EPA 8260B	09/15/11 16:33	jkg	
m,p-Xylenes [108-38-3/106-42-3] ^	7.0	UD	ug/L	5	7.0	10	1I15001	EPA 8260B	09/15/11 16:33	jkg	
Methylene chloride [75-09-2] ^	0.70	UD	ug/L	5	0.70	5.0	1I15001	EPA 8260B	09/15/11 16:33	jkg	

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Description: PMW-7
Matrix: Water
Project: Parcel # 09084036

Lab Sample ID: C110855-07
Sampled: 09/08/11 17:33
Sampled By: Danny Hefner

Received: 09/09/11 09:48
Work Order: C110855

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Methyl-tert-Butyl Ether [1634-04-4] ^	2.9	UD	ug/L	5	2.9	5.0	1I15001	EPA 8260B	09/15/11 16:33	jkg	
Naphthalene [91-20-3] ^	2.3	UD	ug/L	5	2.3	5.0	1I15001	EPA 8260B	09/15/11 16:33	jkg	
n-Butyl Benzene [104-51-8] ^	2.6	UD	ug/L	5	2.6	5.0	1I15001	EPA 8260B	09/15/11 16:33	jkg	
n-Propyl Benzene [103-65-1] ^	0.46	UD	ug/L	5	0.46	5.0	1I15001	EPA 8260B	09/15/11 16:33	jkg	
o-Xylene [95-47-6] ^	3.2	UD	ug/L	5	3.2	5.0	1I15001	EPA 8260B	09/15/11 16:33	jkg	
sec-Butylbenzene [135-98-8] ^	4.2	UD	ug/L	5	4.2	5.0	1I15001	EPA 8260B	09/15/11 16:33	jkg	
Styrene [100-42-5] ^	0.26	UD	ug/L	5	0.26	5.0	1I15001	EPA 8260B	09/15/11 16:33	jkg	
tert-Butylbenzene [98-06-6] ^	4.0	UD	ug/L	5	4.0	5.0	1I15001	EPA 8260B	09/15/11 16:33	jkg	
Tetrachloroethene [127-18-4] ^	**300**	D	ug/L	5	3.6	5.0	1I15001	EPA 8260B	09/15/11 16:33	jkg	
Toluene [108-88-3] ^	4.2	UD	ug/L	5	4.2	5.0	1I15001	EPA 8260B	09/15/11 16:33	jkg	
trans-1,2-Dichloroethene [156-60-5] ^	0.60	UD	ug/L	5	0.60	5.0	1I15001	EPA 8260B	09/15/11 16:33	jkg	
trans-1,3-Dichloropropene [10061-02-6] ^	2.5	UD	ug/L	5	2.5	5.0	1I15001	EPA 8260B	09/15/11 16:33	jkg	
Trichloroethene [79-01-6] ^	**14**	D	ug/L	5	3.6	5.0	1I15001	EPA 8260B	09/15/11 16:33	jkg	
Trichlorofluoromethane [75-69-4] ^	3.3	UD	ug/L	5	3.3	5.0	1I15001	EPA 8260B	09/15/11 16:33	jkg	
Vinyl chloride [75-01-4] ^	3.0	UD	ug/L	5	3.0	5.0	1I15001	EPA 8260B	09/15/11 16:33	jkg	
Xylenes (Total) [1330-20-7] ^	10	UD	ug/L	5	10	15	1I15001	EPA 8260B	09/15/11 16:33	jkg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*40*	*1*	*50.0*	*80 %*	*51-122*	*1I15001*	*EPA 8260B*	*09/15/11 16:33*	*jkg*	
Dibromofluoromethane	*40*	*1*	*50.0*	*81 %*	*68-117*	*1I15001*	*EPA 8260B*	*09/15/11 16:33*	*jkg*	
Toluene-d8	*42*	*1*	*50.0*	*84 %*	*69-110*	*1I15001*	*EPA 8260B*	*09/15/11 16:33*	*jkg*	

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Description: PMW-7
Matrix: Water
Project: Parcel # 09084036

Lab Sample ID: C110855-07
Sampled: 09/08/11 17:33
Sampled By: Danny Hefner

Received: 09/09/11 09:48
Work Order: C110855

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	1I13013	EPA 7470A	09/13/11 14:17	NLH	

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Description: PMW-7 | **Lab Sample ID:** C110855-07 | **Received:** 09/09/11 09:48

Matrix: Water | **Sampled:** 09/08/11 17:33 | **Work Order:** C110855

Project: Parcel # 09084036 | **Sampled By:** Danny Hefner

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	**0.356**	J	ug/L	1	0.220	2.00	1I12017	EPA 6020A	09/21/11 11:04	VLO	
Arsenic [7440-38-2] ^	**8.41**	J	ug/L	1	2.80	10.0	1I12016	EPA 6010C	09/14/11 12:04	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1I12016	EPA 6010C	09/14/11 12:04	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1I12016	EPA 6010C	09/14/11 12:04	JDH	
Chromium [7440-47-3] ^	**2.36**	J	ug/L	1	1.00	10.0	1I12016	EPA 6010C	09/14/11 12:04	JDH	
Copper [7440-50-8] ^	**8.20**	J	ug/L	1	1.60	10.0	1I12016	EPA 6010C	09/14/11 12:04	JDH	
Lead [7439-92-1] ^	**3.65**	J	ug/L	1	1.90	10.0	1I12016	EPA 6010C	09/14/11 12:04	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	1I12016	EPA 6010C	09/14/11 12:04	JDH	
Selenium [7782-49-2] ^	2.70	U	ug/L	1	2.70	10.0	1I12016	EPA 6010C	09/14/11 12:04	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	1I12017	EPA 6020A	09/21/11 11:04	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	1I12016	EPA 6010C	09/14/11 12:04	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	1I12017	EPA 6020A	09/21/11 11:04	VLO	
Zinc [7440-66-6] ^	**5.59**	J	ug/L	1	3.80	10.0	1I12016	EPA 6010C	09/14/11 12:04	JDH	

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Description: PMW-7
Matrix: Water
Project: Parcel # 09084036

Lab Sample ID: C110855-07
Sampled: 09/08/11 17:33
Sampled By: Danny Hefner

Received: 09/09/11 09:48
Work Order: C110855

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Hexavalent Chromium [1854-02-99] ^	**0.0083**	J	mg/L	1	0.0053	0.010	1I09012	EPA 7196A	09/09/11 11:16	AJB	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: PMW-2 | **Lab Sample ID:** C110855-08 | **Received:** 09/09/11 09:48

Matrix: Water | **Sampled:** 09/08/11 17:50 | **Work Order:** C110855

Project: Parcel # 09084036 | **Sampled By:** Danny Hefner

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.90	U	ug/L	1	0.90	1.0	1I15001	EPA 8260B	09/15/11 17:03	jkg	
1,1,1-Trichloroethane [71-55-6] ^	0.65	U	ug/L	1	0.65	1.0	1I15001	EPA 8260B	09/15/11 17:03	jkg	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.75	U	ug/L	1	0.75	1.0	1I15001	EPA 8260B	09/15/11 17:03	jkg	
1,1,2-Trichloroethane [79-00-5] ^	**0.85**	J	ug/L	1	0.66	1.0	1I15001	EPA 8260B	09/15/11 17:03	jkg	
1,1-Dichloroethane [75-34-3] ^	**75**		ug/L	1	0.080	1.0	1I15001	EPA 8260B	09/15/11 17:03	jkg	
1,1-Dichloroethene [75-35-4] ^	**130**		ug/L	1	0.60	1.0	1I15001	EPA 8260B	09/15/11 17:03	jkg	
1,1-Dichloropropene [563-58-6] ^	0.66	U	ug/L	1	0.66	1.0	1I15001	EPA 8260B	09/15/11 17:03	jkg	
1,2,3-Trichlorobenzene [87-61-6] ^	0.51	U	ug/L	1	0.51	1.0	1I15001	EPA 8260B	09/15/11 17:03	jkg	
1,2,3-Trichloropropane [96-18-4] ^	0.72	U	ug/L	1	0.72	1.0	1I15001	EPA 8260B	09/15/11 17:03	jkg	
1,2,4-Trichlorobenzene [120-82-1] ^	**1.3**		ug/L	1	0.58	1.0	1I15001	EPA 8260B	09/15/11 17:03	jkg	
1,2,4-Trimethylbenzene [95-63-6] ^	0.72	U	ug/L	1	0.72	1.0	1I15001	EPA 8260B	09/15/11 17:03	jkg	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	1I15001	EPA 8260B	09/15/11 17:03	jkg	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1I15001	EPA 8260B	09/15/11 17:03	jkg	
1,2-Dichlorobenzene [95-50-1] ^	0.11	U	ug/L	1	0.11	1.0	1I15001	EPA 8260B	09/15/11 17:03	jkg	
1,2-Dichloroethane [107-06-2] ^	**3.0**		ug/L	1	0.47	1.0	1I15001	EPA 8260B	09/15/11 17:03	jkg	
1,2-Dichloropropane [78-87-5] ^	0.59	U	ug/L	1	0.59	1.0	1I15001	EPA 8260B	09/15/11 17:03	jkg	
1,3,5-Trimethylbenzene [108-67-8] ^	0.067	U	ug/L	1	0.067	1.0	1I15001	EPA 8260B	09/15/11 17:03	jkg	
1,3-Dichlorobenzene [541-73-1] ^	0.79	U	ug/L	1	0.79	1.0	1I15001	EPA 8260B	09/15/11 17:03	jkg	
1,3-Dichloropropane [142-28-9] ^	0.67	U	ug/L	1	0.67	1.0	1I15001	EPA 8260B	09/15/11 17:03	jkg	
1,4-Dichlorobenzene [106-46-7] ^	**1.2**		ug/L	1	0.79	1.0	1I15001	EPA 8260B	09/15/11 17:03	jkg	
2,2-Dichloropropane [594-20-7] ^	0.56	U	ug/L	1	0.56	1.0	1I15001	EPA 8260B	09/15/11 17:03	jkg	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	1I15001	EPA 8260B	09/15/11 17:03	jkg	
2-Chloroethyl Vinyl Ether [110-75-8] ^	1.1	U	ug/L	1	1.1	5.0	1I15001	EPA 8260B	09/15/11 17:03	jkg	
2-Chlorotoluene [95-49-8] ^	0.071	U	ug/L	1	0.071	1.0	1I15001	EPA 8260B	09/15/11 17:03	jkg	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	1I15001	EPA 8260B	09/15/11 17:03	jkg	
4-Chlorotoluene [106-43-4] ^	0.63	U	ug/L	1	0.63	1.0	1I15001	EPA 8260B	09/15/11 17:03	jkg	
4-Isopropyltoluene [99-87-6] ^	0.82	U	ug/L	1	0.82	1.0	1I15001	EPA 8260B	09/15/11 17:03	jkg	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	1I15001	EPA 8260B	09/15/11 17:03	jkg	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	1I15001	EPA 8260B	09/15/11 17:03	jkg	
Benzene [71-43-2] ^	0.68	U	ug/L	1	0.68	1.0	1I15001	EPA 8260B	09/15/11 17:03	jkg	
Bromobenzene [108-86-1] ^	0.61	U	ug/L	1	0.61	1.0	1I15001	EPA 8260B	09/15/11 17:03	jkg	
Bromochloromethane [74-97-5] ^	0.87	U	ug/L	1	0.87	1.0	1I15001	EPA 8260B	09/15/11 17:03	jkg	
Bromodichloromethane [75-27-4] ^	0.75	U	ug/L	1	0.75	1.0	1I15001	EPA 8260B	09/15/11 17:03	jkg	
Bromoform [75-25-2] ^	0.68	U	ug/L	1	0.68	1.0	1I15001	EPA 8260B	09/15/11 17:03	jkg	
Bromomethane [74-83-9] ^	0.58	U	ug/L	1	0.58	1.0	1I15001	EPA 8260B	09/15/11 17:03	jkg	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	1I15001	EPA 8260B	09/15/11 17:03	jkg	
Carbon tetrachloride [56-23-5] ^	0.69	U	ug/L	1	0.69	1.0	1I15001	EPA 8260B	09/15/11 17:03	jkg	
Chlorobenzene [108-90-7] ^	0.74	U	ug/L	1	0.74	1.0	1I15001	EPA 8260B	09/15/11 17:03	jkg	
Chloroethane [75-00-3] ^	**4.0**		ug/L	1	0.75	1.0	1I15001	EPA 8260B	09/15/11 17:03	jkg	
Chloroform [67-66-3] ^	0.70	U	ug/L	1	0.70	1.0	1I15001	EPA 8260B	09/15/11 17:03	jkg	
Chloromethane [74-87-3] ^	0.55	U	ug/L	1	0.55	1.0	1I15001	EPA 8260B	09/15/11 17:03	jkg	
cis-1,2-Dichloroethene [156-59-2] ^	**130**		ug/L	1	0.72	1.0	1I15001	EPA 8260B	09/15/11 17:03	jkg	
cis-1,3-Dichloropropene [10061-01-5] ^	0.075	U	ug/L	1	0.075	1.0	1I15001	EPA 8260B	09/15/11 17:03	jkg	
Dibromochloromethane [124-48-1] ^	0.63	U	ug/L	1	0.63	1.0	1I15001	EPA 8260B	09/15/11 17:03	jkg	
Dibromomethane [74-95-3] ^	0.90	U	ug/L	1	0.90	1.0	1I15001	EPA 8260B	09/15/11 17:03	jkg	
Dichlorodifluoromethane [75-71-8] ^	0.56	U	ug/L	1	0.56	1.0	1I15001	EPA 8260B	09/15/11 17:03	jkg	
Ethylbenzene [100-41-4] ^	0.62	U	ug/L	1	0.62	1.0	1I15001	EPA 8260B	09/15/11 17:03	jkg	
Hexachlorobutadiene [87-68-3] ^	0.88	U	ug/L	1	0.88	1.0	1I15001	EPA 8260B	09/15/11 17:03	jkg	
Isopropylbenzene [98-82-8] ^	0.62	U	ug/L	1	0.62	1.0	1I15001	EPA 8260B	09/15/11 17:03	jkg	
m,p-Xylenes [108-38-3/106-42-3] ^	1.4	U	ug/L	1	1.4	2.0	1I15001	EPA 8260B	09/15/11 17:03	jkg	
Methylene chloride [75-09-2] ^	0.14	U	ug/L	1	0.14	1.0	1I15001	EPA 8260B	09/15/11 17:03	jkg	

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Description: PMW-2 | **Lab Sample ID:** C110855-08 | **Received:** 09/09/11 09:48

Matrix: Water | **Sampled:** 09/08/11 17:50 | **Work Order:** C110855

Project: Parcel # 09084036 | **Sampled By:** Danny Hefner

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Methyl-tert-Butyl Ether [1634-04-4] ^	0.58	U	ug/L	1	0.58	1.0	1I15001	EPA 8260B	09/15/11 17:03	jkg	
Naphthalene [91-20-3] ^	0.46	U	ug/L	1	0.46	1.0	1I15001	EPA 8260B	09/15/11 17:03	jkg	
n-Butyl Benzene [104-51-8] ^	0.51	U	ug/L	1	0.51	1.0	1I15001	EPA 8260B	09/15/11 17:03	jkg	
n-Propyl Benzene [103-65-1] ^	0.093	U	ug/L	1	0.093	1.0	1I15001	EPA 8260B	09/15/11 17:03	jkg	
o-Xylene [95-47-6] ^	0.63	U	ug/L	1	0.63	1.0	1I15001	EPA 8260B	09/15/11 17:03	jkg	
sec-Butylbenzene [135-98-8] ^	0.84	U	ug/L	1	0.84	1.0	1I15001	EPA 8260B	09/15/11 17:03	jkg	
Styrene [100-42-5] ^	0.053	U	ug/L	1	0.053	1.0	1I15001	EPA 8260B	09/15/11 17:03	jkg	
tert-Butylbenzene [98-06-6] ^	0.79	U	ug/L	1	0.79	1.0	1I15001	EPA 8260B	09/15/11 17:03	jkg	
Tetrachloroethene [127-18-4] ^	**1.7**		ug/L	1	0.73	1.0	1I15001	EPA 8260B	09/15/11 17:03	jkg	
Toluene [108-88-3] ^	0.85	U	ug/L	1	0.85	1.0	1I15001	EPA 8260B	09/15/11 17:03	jkg	
trans-1,2-Dichloroethene [156-60-5] ^	**2.3**		ug/L	1	0.12	1.0	1I15001	EPA 8260B	09/15/11 17:03	jkg	
trans-1,3-Dichloropropene [10061-02-6] ^	0.50	U	ug/L	1	0.50	1.0	1I15001	EPA 8260B	09/15/11 17:03	jkg	
Trichloroethene [79-01-6] ^	**15**		ug/L	1	0.72	1.0	1I15001	EPA 8260B	09/15/11 17:03	jkg	
Trichlorofluoromethane [75-69-4] ^	0.66	U	ug/L	1	0.66	1.0	1I15001	EPA 8260B	09/15/11 17:03	jkg	
Vinyl chloride [75-01-4] ^	**44**		ug/L	1	0.60	1.0	1I15001	EPA 8260B	09/15/11 17:03	jkg	
Xylenes (Total) [1330-20-7] ^	2.1	U	ug/L	1	2.1	3.0	1I15001	EPA 8260B	09/15/11 17:03	jkg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*40*	*1*	*50.0*	*80 %*	*51-122*	*1I15001*	*EPA 8260B*	*09/15/11 17:03*	*jkg*	
Dibromofluoromethane	*39*	*1*	*50.0*	*79 %*	*68-117*	*1I15001*	*EPA 8260B*	*09/15/11 17:03*	*jkg*	
Toluene-d8	*42*	*1*	*50.0*	*84 %*	*69-110*	*1I15001*	*EPA 8260B*	*09/15/11 17:03*	*jkg*	

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Description: PMW-2
Matrix: Water
Project: Parcel # 09084036

Lab Sample ID: C110855-08
Sampled: 09/08/11 17:50
Sampled By: Danny Hefner

Received: 09/09/11 09:48
Work Order: C110855

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	1I13013	EPA 7470A	09/13/11 15:12	NLH	

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Description: PMW-2 | **Lab Sample ID:** C110855-08 | **Received:** 09/09/11 09:48

Matrix: Water | **Sampled:** 09/08/11 17:50 | **Work Order:** C110855

Project: Parcel # 09084036 | **Sampled By:** Danny Hefner

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	**0.698**	J	ug/L	1	0.220	2.00	1I12017	EPA 6020A	09/21/11 11:08	VLO	
Arsenic [7440-38-2] ^	**84.8**		ug/L	1	2.80	10.0	1I12016	EPA 6010C	09/14/11 12:06	JDH	
Beryllium [7440-41-7] ^	**2.40**		ug/L	1	0.100	1.00	1I12016	EPA 6010C	09/14/11 12:06	JDH	
Cadmium [7440-43-9] ^	**3.15**		ug/L	1	0.360	1.00	1I12016	EPA 6010C	09/14/11 12:06	JDH	
Chromium [7440-47-3] ^	**77.2**		ug/L	1	1.00	10.0	1I12016	EPA 6010C	09/14/11 12:06	JDH	
Copper [7440-50-8] ^	**378**		ug/L	1	1.60	10.0	1I12016	EPA 6010C	09/14/11 12:06	JDH	
Lead [7439-92-1] ^	**302**		ug/L	1	1.90	10.0	1I12016	EPA 6010C	09/14/11 12:06	JDH	
Nickel [7440-02-0] ^	**102**		ug/L	1	1.80	10.0	1I12016	EPA 6010C	09/14/11 12:06	JDH	
Selenium [7782-49-2] ^	2.70	U	ug/L	1	2.70	10.0	1I12016	EPA 6010C	09/14/11 12:06	JDH	
Selenium [7782-49-2] ^	**4.84**		ug/L	1	0.830	1.00	1I12017	EPA 6020A	09/21/11 11:08	VLO	
Silver [7440-22-4] ^	**4.56**	J	ug/L	1	1.90	10.0	1I12016	EPA 6010C	09/14/11 12:06	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	1I12017	EPA 6020A	09/21/11 11:08	VLO	
Zinc [7440-66-6] ^	**245**		ug/L	1	3.80	10.0	1I12016	EPA 6010C	09/14/11 12:06	JDH	

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Description: PMW-2
Matrix: Water
Project: Parcel # 09084036

Lab Sample ID: C110855-08
Sampled: 09/08/11 17:50
Sampled By: Danny Hefner

Received: 09/09/11 09:48
Work Order: C110855

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Hexavalent Chromium [1854-02-99] ^	**0.0094**	J	mg/L	1	0.0053	0.010	1I09012	EPA 7196A	09/09/11 11:16	AJB	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: Rinse Blank | **Lab Sample ID:** C110855-09 | **Received:** 09/09/11 09:48

Matrix: Water | **Sampled:** 09/08/11 16:30 | **Work Order:** C110855

Project: Parcel # 09084036 | **Sampled By:** Danny Hefner

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.90	U	ug/L	1	0.90	1.0	1I13024	EPA 8260B	09/14/11 11:34	jkg	
1,1,1-Trichloroethane [71-55-6] ^	0.65	U	ug/L	1	0.65	1.0	1I13024	EPA 8260B	09/14/11 11:34	jkg	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.75	U	ug/L	1	0.75	1.0	1I13024	EPA 8260B	09/14/11 11:34	jkg	
1,1,2-Trichloroethane [79-00-5] ^	0.66	U	ug/L	1	0.66	1.0	1I13024	EPA 8260B	09/14/11 11:34	jkg	
1,1-Dichloroethane [75-34-3] ^	0.080	U	ug/L	1	0.080	1.0	1I13024	EPA 8260B	09/14/11 11:34	jkg	
1,1-Dichloroethene [75-35-4] ^	0.60	U	ug/L	1	0.60	1.0	1I13024	EPA 8260B	09/14/11 11:34	jkg	
1,1-Dichloropropene [563-58-6] ^	0.66	U	ug/L	1	0.66	1.0	1I13024	EPA 8260B	09/14/11 11:34	jkg	
1,2,3-Trichlorobenzene [87-61-6] ^	0.51	U	ug/L	1	0.51	1.0	1I13024	EPA 8260B	09/14/11 11:34	jkg	
1,2,3-Trichloropropane [96-18-4] ^	0.72	U	ug/L	1	0.72	1.0	1I13024	EPA 8260B	09/14/11 11:34	jkg	
1,2,4-Trichlorobenzene [120-82-1] ^	0.58	U	ug/L	1	0.58	1.0	1I13024	EPA 8260B	09/14/11 11:34	jkg	
1,2,4-Trimethylbenzene [95-63-6] ^	0.72	U	ug/L	1	0.72	1.0	1I13024	EPA 8260B	09/14/11 11:34	jkg	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	1I13024	EPA 8260B	09/14/11 11:34	jkg	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1I13024	EPA 8260B	09/14/11 11:34	jkg	
1,2-Dichlorobenzene [95-50-1] ^	0.11	U	ug/L	1	0.11	1.0	1I13024	EPA 8260B	09/14/11 11:34	jkg	
1,2-Dichloroethane [107-06-2] ^	0.47	U	ug/L	1	0.47	1.0	1I13024	EPA 8260B	09/14/11 11:34	jkg	
1,2-Dichloropropane [78-87-5] ^	0.59	U	ug/L	1	0.59	1.0	1I13024	EPA 8260B	09/14/11 11:34	jkg	
1,3,5-Trimethylbenzene [108-67-8] ^	0.067	U	ug/L	1	0.067	1.0	1I13024	EPA 8260B	09/14/11 11:34	jkg	
1,3-Dichlorobenzene [541-73-1] ^	0.79	U	ug/L	1	0.79	1.0	1I13024	EPA 8260B	09/14/11 11:34	jkg	
1,3-Dichloropropane [142-28-9] ^	0.67	U	ug/L	1	0.67	1.0	1I13024	EPA 8260B	09/14/11 11:34	jkg	
1,4-Dichlorobenzene [106-46-7] ^	0.79	U	ug/L	1	0.79	1.0	1I13024	EPA 8260B	09/14/11 11:34	jkg	
2,2-Dichloropropane [594-20-7] ^	0.56	U	ug/L	1	0.56	1.0	1I13024	EPA 8260B	09/14/11 11:34	jkg	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	1I13024	EPA 8260B	09/14/11 11:34	jkg	
2-Chloroethyl Vinyl Ether [110-75-8] ^	1.1	U	ug/L	1	1.1	5.0	1I13024	EPA 8260B	09/14/11 11:34	jkg	
2-Chlorotoluene [95-49-8] ^	0.071	U	ug/L	1	0.071	1.0	1I13024	EPA 8260B	09/14/11 11:34	jkg	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	1I13024	EPA 8260B	09/14/11 11:34	jkg	
4-Chlorotoluene [106-43-4] ^	0.63	U	ug/L	1	0.63	1.0	1I13024	EPA 8260B	09/14/11 11:34	jkg	
4-Isopropyltoluene [99-87-6] ^	0.82	U	ug/L	1	0.82	1.0	1I13024	EPA 8260B	09/14/11 11:34	jkg	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	1I13024	EPA 8260B	09/14/11 11:34	jkg	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	1I13024	EPA 8260B	09/14/11 11:34	jkg	
Benzene [71-43-2] ^	0.68	U	ug/L	1	0.68	1.0	1I13024	EPA 8260B	09/14/11 11:34	jkg	
Bromobenzene [108-86-1] ^	0.61	U	ug/L	1	0.61	1.0	1I13024	EPA 8260B	09/14/11 11:34	jkg	
Bromochloromethane [74-97-5] ^	0.87	U	ug/L	1	0.87	1.0	1I13024	EPA 8260B	09/14/11 11:34	jkg	
Bromodichloromethane [75-27-4] ^	0.75	U	ug/L	1	0.75	1.0	1I13024	EPA 8260B	09/14/11 11:34	jkg	
Bromoform [75-25-2] ^	0.68	U	ug/L	1	0.68	1.0	1I13024	EPA 8260B	09/14/11 11:34	jkg	
Bromomethane [74-83-9] ^	0.58	U	ug/L	1	0.58	1.0	1I13024	EPA 8260B	09/14/11 11:34	jkg	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	1I13024	EPA 8260B	09/14/11 11:34	jkg	
Carbon tetrachloride [56-23-5] ^	0.69	U	ug/L	1	0.69	1.0	1I13024	EPA 8260B	09/14/11 11:34	jkg	
Chlorobenzene [108-90-7] ^	0.74	U	ug/L	1	0.74	1.0	1I13024	EPA 8260B	09/14/11 11:34	jkg	
Chloroethane [75-00-3] ^	0.75	U	ug/L	1	0.75	1.0	1I13024	EPA 8260B	09/14/11 11:34	jkg	
Chloroform [67-66-3] ^	0.70	U	ug/L	1	0.70	1.0	1I13024	EPA 8260B	09/14/11 11:34	jkg	
Chloromethane [74-87-3] ^	0.55	U	ug/L	1	0.55	1.0	1I13024	EPA 8260B	09/14/11 11:34	jkg	
cis-1,2-Dichloroethene [156-59-2] ^	0.72	U	ug/L	1	0.72	1.0	1I13024	EPA 8260B	09/14/11 11:34	jkg	
cis-1,3-Dichloropropene [10061-01-5] ^	0.075	U	ug/L	1	0.075	1.0	1I13024	EPA 8260B	09/14/11 11:34	jkg	
Dibromochloromethane [124-48-1] ^	0.63	U	ug/L	1	0.63	1.0	1I13024	EPA 8260B	09/14/11 11:34	jkg	
Dibromomethane [74-95-3] ^	0.90	U	ug/L	1	0.90	1.0	1I13024	EPA 8260B	09/14/11 11:34	jkg	
Dichlorodifluoromethane [75-71-8] ^	0.56	U	ug/L	1	0.56	1.0	1I13024	EPA 8260B	09/14/11 11:34	jkg	
Ethylbenzene [100-41-4] ^	0.62	U	ug/L	1	0.62	1.0	1I13024	EPA 8260B	09/14/11 11:34	jkg	
Hexachlorobutadiene [87-68-3] ^	0.88	U	ug/L	1	0.88	1.0	1I13024	EPA 8260B	09/14/11 11:34	jkg	
Isopropylbenzene [98-82-8] ^	0.62	U	ug/L	1	0.62	1.0	1I13024	EPA 8260B	09/14/11 11:34	jkg	
m,p-Xylenes [108-38-3/106-42-3] ^	1.4	U	ug/L	1	1.4	2.0	1I13024	EPA 8260B	09/14/11 11:34	jkg	
Methylene chloride [75-09-2] ^	0.14	U	ug/L	1	0.14	1.0	1I13024	EPA 8260B	09/14/11 11:34	jkg	

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Description: Rinse Blank
Matrix: Water
Project: Parcel # 09084036

Lab Sample ID: C110855-09
Sampled: 09/08/11 16:30
Sampled By: Danny Hefner

Received: 09/09/11 09:48
Work Order: C110855

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Methyl-tert-Butyl Ether [1634-04-4] ^	0.58	U	ug/L	1	0.58	1.0	1I13024	EPA 8260B	09/14/11 11:34	jkg	
Naphthalene [91-20-3] ^	0.46	U	ug/L	1	0.46	1.0	1I13024	EPA 8260B	09/14/11 11:34	jkg	
n-Butyl Benzene [104-51-8] ^	0.51	U	ug/L	1	0.51	1.0	1I13024	EPA 8260B	09/14/11 11:34	jkg	
n-Propyl Benzene [103-65-1] ^	0.093	U	ug/L	1	0.093	1.0	1I13024	EPA 8260B	09/14/11 11:34	jkg	
o-Xylene [95-47-6] ^	0.63	U	ug/L	1	0.63	1.0	1I13024	EPA 8260B	09/14/11 11:34	jkg	
sec-Butylbenzene [135-98-8] ^	0.84	U	ug/L	1	0.84	1.0	1I13024	EPA 8260B	09/14/11 11:34	jkg	
Styrene [100-42-5] ^	0.053	U	ug/L	1	0.053	1.0	1I13024	EPA 8260B	09/14/11 11:34	jkg	
tert-Butylbenzene [98-06-6] ^	0.79	U	ug/L	1	0.79	1.0	1I13024	EPA 8260B	09/14/11 11:34	jkg	
Tetrachloroethene [127-18-4] ^	0.73	U	ug/L	1	0.73	1.0	1I13024	EPA 8260B	09/14/11 11:34	jkg	
Toluene [108-88-3] ^	0.85	U	ug/L	1	0.85	1.0	1I13024	EPA 8260B	09/14/11 11:34	jkg	
trans-1,2-Dichloroethene [156-60-5] ^	0.12	U	ug/L	1	0.12	1.0	1I13024	EPA 8260B	09/14/11 11:34	jkg	
trans-1,3-Dichloropropene [10061-02-6] ^	0.50	U	ug/L	1	0.50	1.0	1I13024	EPA 8260B	09/14/11 11:34	jkg	
Trichloroethene [79-01-6] ^	0.72	U	ug/L	1	0.72	1.0	1I13024	EPA 8260B	09/14/11 11:34	jkg	
Trichlorofluoromethane [75-69-4] ^	0.66	U	ug/L	1	0.66	1.0	1I13024	EPA 8260B	09/14/11 11:34	jkg	
Vinyl chloride [75-01-4] ^	0.60	U	ug/L	1	0.60	1.0	1I13024	EPA 8260B	09/14/11 11:34	jkg	
Xylenes (Total) [1330-20-7] ^	2.1	U	ug/L	1	2.1	3.0	1I13024	EPA 8260B	09/14/11 11:34	jkg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*41*	*1*	*50.0*	*82 %*	*51-122*	*1I13024*	*EPA 8260B*	*09/14/11 11:34*	*jkg*	
Dibromofluoromethane	*41*	*1*	*50.0*	*82 %*	*68-117*	*1I13024*	*EPA 8260B*	*09/14/11 11:34*	*jkg*	
Toluene-d8	*41*	*1*	*50.0*	*82 %*	*69-110*	*1I13024*	*EPA 8260B*	*09/14/11 11:34*	*jkg*	

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Description: Rinse Blank
Matrix: Water
Project: Parcel # 09084036

Lab Sample ID: C110855-09
Sampled: 09/08/11 16:30
Sampled By: Danny Hefner

Received: 09/09/11 09:48
Work Order: C110855

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	1I13013	EPA 7470A	09/13/11 15:15	NLH	

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Description: Rinse Blank
Matrix: Water
Project: Parcel # 09084036

Lab Sample ID: C110855-09
Sampled: 09/08/11 16:30
Sampled By: Danny Hefner

Received: 09/09/11 09:48
Work Order: C110855

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	1I12017	EPA 6020A	09/21/11 11:11	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	1I12016	EPA 6010C	09/14/11 12:08	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1I12016	EPA 6010C	09/14/11 12:08	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1I12016	EPA 6010C	09/14/11 12:08	JDH	
Chromium [7440-47-3] ^	1.00	U	ug/L	1	1.00	10.0	1I12016	EPA 6010C	09/14/11 12:08	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	1I12016	EPA 6010C	09/14/11 12:08	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	1I12016	EPA 6010C	09/14/11 12:08	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	1I12016	EPA 6010C	09/14/11 12:08	JDH	
Selenium [7782-49-2] ^	2.70	U	ug/L	1	2.70	10.0	1I12016	EPA 6010C	09/14/11 12:08	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	1I12017	EPA 6020A	09/21/11 11:11	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	1I12016	EPA 6010C	09/14/11 12:08	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	1I12017	EPA 6020A	09/21/11 11:11	VLO	
Zinc [7440-66-6] ^	3.80	U	ug/L	1	3.80	10.0	1I12016	EPA 6010C	09/14/11 12:08	JDH	

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Description: Rinse Blank
Matrix: Water
Project: Parcel # 09084036

Lab Sample ID: C110855-09
Sampled: 09/08/11 16:30
Sampled By: Danny Hefner

Received: 09/09/11 09:48
Work Order: C110855

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Hexavalent Chromium [1854-02-99] ^	0.0053	U	mg/L	1	0.0053	0.010	1I09012	EPA 7196A	09/09/11 11:16	AJB	

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Description:	SPMW-1	**Lab Sample ID:**	C110855-10	**Received:**	09/09/11 09:48
Matrix:	Soil	**Sampled:**	09/08/11 14:25	**Work Order:**	C110855
Project:	Parcel # 09084036	**Sampled By:**	Danny Hefner	**% Solids:**	89.1

Polychlorinated Biphenyls by GC

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
PCB-1016/1242 [12674-11-2/53469-21-9]	0.0086	U	mg/kg dry	1	0.0086	0.019	1I13003	EPA 8082A	09/13/11 18:43	MSZ	
PCB-1221 [11104-28-2]	0.0058	U	mg/kg dry	1	0.0058	0.019	1I13003	EPA 8082A	09/13/11 18:43	MSZ	
PCB-1232 [11141-16-5]	0.0058	U	mg/kg dry	1	0.0058	0.019	1I13003	EPA 8082A	09/13/11 18:43	MSZ	
PCB-1248 [12672-29-6]	0.0058	U	mg/kg dry	1	0.0058	0.019	1I13003	EPA 8082A	09/13/11 18:43	MSZ	
PCB-1254 [11097-69-1]	0.0058	U	mg/kg dry	1	0.0058	0.019	1I13003	EPA 8082A	09/13/11 18:43	MSZ	
PCB-1260 [11096-82-5]	0.0046	U	mg/kg dry	1	0.0046	0.019	1I13003	EPA 8082A	09/13/11 18:43	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.040*	*1*	*0.0374*	*106 %*	*44-168*	*1I13003*	*EPA 8082A*	*09/13/11 18:43*	*MSZ*	
Decachlorobiphenyl	*0.046*	*1*	*0.0374*	*122 %*	*51-154*	*1I13003*	*EPA 8082A*	*09/13/11 18:43*	*MSZ*	

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Description:	SPMW-2	**Lab Sample ID:**	C110855-11	**Received:**	09/09/11 09:48
Matrix:	Soil	**Sampled:**	09/08/11 13:43	**Work Order:**	C110855
Project:	Parcel # 09084036	**Sampled By:**	Danny Hefner	**% Solids:**	89.0

Polychlorinated Biphenyls by GC

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
PCB-1016/1242 [12674-11-2/53469-21-9]	0.0086	U	mg/kg dry	1	0.0086	0.019	1I13003	EPA 8082A	09/13/11 18:56	MSZ	
PCB-1221 [11104-28-2]	0.0058	U	mg/kg dry	1	0.0058	0.019	1I13003	EPA 8082A	09/13/11 18:56	MSZ	
PCB-1232 [11141-16-5]	0.0058	U	mg/kg dry	1	0.0058	0.019	1I13003	EPA 8082A	09/13/11 18:56	MSZ	
PCB-1248 [12672-29-6]	0.0058	U	mg/kg dry	1	0.0058	0.019	1I13003	EPA 8082A	09/13/11 18:56	MSZ	
PCB-1254 [11097-69-1]	0.0058	U	mg/kg dry	1	0.0058	0.019	1I13003	EPA 8082A	09/13/11 18:56	MSZ	
PCB-1260 [11096-82-5]	0.0046	U	mg/kg dry	1	0.0046	0.019	1I13003	EPA 8082A	09/13/11 18:56	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.040*	*1*	*0.0374*	*106 %*	*44-168*	*1I13003*	*EPA 8082A*	*09/13/11 18:56*	*MSZ*	
Decachlorobiphenyl	*0.045*	*1*	*0.0374*	*120 %*	*51-154*	*1I13003*	*EPA 8082A*	*09/13/11 18:56*	*MSZ*	

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Description:	SPMW-2	**Lab Sample ID:**	C110855-11	**Received:**	09/09/11 09:48
Matrix:	Soil	**Sampled:**	09/08/11 13:43	**Work Order:**	C110855
Project:	Parcel # 09084036	**Sampled By:**	Danny Hefner	**% Solids:**	89.0

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.124	U	mg/kg dry	1	0.124	1.12	1I13016	EPA 6010C	09/14/11 13:04	JDH	
Arsenic [7440-38-2] ^	**3.10**		mg/kg dry	1	0.112	0.562	1I13016	EPA 6010C	09/14/11 13:04	JDH	
Beryllium [7440-41-7] ^	**0.269**		mg/kg dry	1	0.0135	0.0562	1I13016	EPA 6010C	09/14/11 13:04	JDH	
Cadmium [7440-43-9] ^	0.0108	U	mg/kg dry	1	0.0108	0.0562	1I13016	EPA 6010C	09/14/11 13:04	JDH	
Chromium [7440-47-3] ^	**14.2**		mg/kg dry	1	0.112	0.562	1I13016	EPA 6010C	09/14/11 13:04	JDH	
Copper [7440-50-8] ^	**6.41**		mg/kg dry	1	0.213	0.562	1I13016	EPA 6010C	09/14/11 13:04	JDH	
Lead [7439-92-1] ^	**10.6**		mg/kg dry	1	0.135	0.562	1I13016	EPA 6010C	09/14/11 13:04	JDH	
Mercury [7439-97-6] ^	**0.0162**		mg/kg dry	1	0.00685	0.0112	1I14017	EPA 7471B	09/14/11 14:59	NLH	
Nickel [7440-02-0] ^	**2.41**	J	mg/kg dry	1	0.404	2.81	1I13016	EPA 6010C	09/14/11 13:04	JDH	
Selenium [7782-49-2] ^	0.112	U	mg/kg dry	1	0.112	0.562	1I13016	EPA 6010C	09/14/11 13:04	JDH	
Silver [7440-22-4] ^	0.112	U	mg/kg dry	1	0.112	0.562	1I13016	EPA 6010C	09/14/11 13:04	JDH	
Thallium [7440-28-0] ^	**1.12**		mg/kg dry	1	0.112	0.562	1I13016	EPA 6010C	09/14/11 13:04	JDH	
Zinc [7440-66-6] ^	**10.1**		mg/kg dry	1	1.24	2.81	1I13016	EPA 6010C	09/14/11 13:04	JDH	

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Description:	SPMW-2	**Lab Sample ID:**	C110855-11	**Received:**	09/09/11 09:48
Matrix:	Soil	**Sampled:**	09/08/11 13:43	**Work Order:**	C110855
Project:	Parcel # 09084036	**Sampled By:**	Danny Hefner	**% Solids:**	89.0

Classical Chemistry Parameters

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Hexavalent Chromium [1854-02-99]	**0.50**	J	mg/kg dry	1	0.18	1.1	1I14016	EPA 7196A	09/15/11 10:40	NP	

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Description:	SPMW-3	**Lab Sample ID:**	C110855-12	**Received:**	09/09/11 09:48
Matrix:	Soil	**Sampled:**	09/08/11 13:56	**Work Order:**	C110855
Project:	Parcel # 09084036	**Sampled By:**	Danny Hefner	**% Solids:**	84.3

Polychlorinated Biphenyls by GC

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
PCB-1016/1242 [12674-11-2/53469-21-9]	0.0091	U	mg/kg dry	1	0.0091	0.020	1I13003	EPA 8082A	09/13/11 19:10	MSZ	
PCB-1221 [11104-28-2]	0.0062	U	mg/kg dry	1	0.0062	0.020	1I13003	EPA 8082A	09/13/11 19:10	MSZ	
PCB-1232 [11141-16-5]	0.0062	U	mg/kg dry	1	0.0062	0.020	1I13003	EPA 8082A	09/13/11 19:10	MSZ	
PCB-1248 [12672-29-6]	0.0062	U	mg/kg dry	1	0.0062	0.020	1I13003	EPA 8082A	09/13/11 19:10	MSZ	
PCB-1254 [11097-69-1]	0.0062	U	mg/kg dry	1	0.0062	0.020	1I13003	EPA 8082A	09/13/11 19:10	MSZ	
PCB-1260 [11096-82-5]	0.0049	U	mg/kg dry	1	0.0049	0.020	1I13003	EPA 8082A	09/13/11 19:10	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.046*	*1*	*0.0395*	*116 %*	*44-168*	*1I13003*	*EPA 8082A*	*09/13/11 19:10*	*MSZ*	
Decachlorobiphenyl	*0.049*	*1*	*0.0395*	*123 %*	*51-154*	*1I13003*	*EPA 8082A*	*09/13/11 19:10*	*MSZ*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 1I09017 - EPA 5030B_MS

Blank (1I09017-BLK1) Prepared: 09/09/2011 12:26 Analyzed: 09/10/2011 00:13

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.90	U	1.0	ug/L							
1,1,1-Trichloroethane	0.65	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.75	U	1.0	ug/L							
1,1,2-Trichloroethane	0.66	U	1.0	ug/L							
1,1-Dichloroethane	0.080	U	1.0	ug/L							
1,1-Dichloroethene	0.60	U	1.0	ug/L							
1,1-Dichloropropene	0.66	U	1.0	ug/L							
1,2,3-Trichlorobenzene	0.51	U	1.0	ug/L							
1,2,3-Trichloropropane	0.72	U	1.0	ug/L							
1,2,4-Trichlorobenzene	0.58	U	1.0	ug/L							
1,2,4-Trimethylbenzene	0.72	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.66	U	1.0	ug/L							
1,2-Dichlorobenzene	0.11	U	1.0	ug/L							
1,2-Dichloroethane	0.47	U	1.0	ug/L							
1,2-Dichloropropane	0.59	U	1.0	ug/L							
1,3,5-Trimethylbenzene	0.067	U	1.0	ug/L							
1,3-Dichlorobenzene	0.79	U	1.0	ug/L							
1,3-Dichloropropane	0.67	U	1.0	ug/L							
1,4-Dichlorobenzene	0.79	U	1.0	ug/L							
2,2-Dichloropropane	0.56	U	1.0	ug/L							
2-Butanone	1.3	U	5.0	ug/L							
2-Chloroethyl Vinyl Ether	1.1	U	5.0	ug/L							
2-Chlorotoluene	0.071	U	1.0	ug/L							
2-Hexanone	0.88	U	5.0	ug/L							
4-Chlorotoluene	0.63	U	1.0	ug/L							
4-Isopropyltoluene	0.82	U	1.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.2	U	5.0	ug/L							
Benzene	0.68	U	1.0	ug/L							
Bromobenzene	0.61	U	1.0	ug/L							
Bromochloromethane	0.87	U	1.0	ug/L							
Bromodichloromethane	0.75	U	1.0	ug/L							
Bromoform	0.68	U	1.0	ug/L							
Bromomethane	0.58	U	1.0	ug/L							
Carbon disulfide	1.5	U	5.0	ug/L							
Carbon tetrachloride	0.69	U	1.0	ug/L							
Chlorobenzene	0.74	U	1.0	ug/L							
Chloroethane	0.75	U	1.0	ug/L							
Chloroform	0.70	U	1.0	ug/L							
Chloromethane	0.55	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.72	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.075	U	1.0	ug/L							
Dibromochloromethane	0.63	U	1.0	ug/L							
Dibromomethane	0.90	U	1.0	ug/L							
Dichlorodifluoromethane	0.56	U	1.0	ug/L							
Ethylbenzene	0.62	U	1.0	ug/L							
Hexachlorobutadiene	0.88	U	1.0	ug/L							
Isopropylbenzene	0.62	U	1.0	ug/L							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 1I09017 - EPA 5030B_MS

Blank (1I09017-BLK1) Continued Prepared: 09/09/2011 12:26 Analyzed: 09/10/2011 00:13

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
m,p-Xylenes	1.4	U	2.0	ug/L							
Methylene chloride	0.14	U	1.0	ug/L							
Methyl-tert-Butyl Ether	0.58	U	1.0	ug/L							
Naphthalene	0.46	U	1.0	ug/L							
n-Butyl Benzene	0.51	U	1.0	ug/L							
n-Propyl Benzene	0.093	U	1.0	ug/L							
o-Xylene	0.63	U	1.0	ug/L							
sec-Butylbenzene	0.84	U	1.0	ug/L							
Styrene	0.053	U	1.0	ug/L							
tert-Butylbenzene	0.79	U	1.0	ug/L							
Tetrachloroethene	0.73	U	1.0	ug/L							
Toluene	0.85	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.12	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.50	U	1.0	ug/L							
Trichloroethene	0.72	U	1.0	ug/L							
Trichlorofluoromethane	0.66	U	1.0	ug/L							
Vinyl chloride	0.60	U	1.0	ug/L							
Xylenes (Total)	2.1	U	3.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*47*			*ug/L*	*50.0*		*95*	*51-122*			
Surrogate: Dibromofluoromethane	*48*			*ug/L*	*50.0*		*96*	*68-117*			
Surrogate: Toluene-d8	*48*			*ug/L*	*50.0*		*96*	*69-110*			

LCS (1I09017-BS1) Prepared: 09/09/2011 12:26 Analyzed: 09/10/2011 01:41

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	22		1.0	ug/L	20.0		111	75-133			
Benzene	21		1.0	ug/L	20.0		104	81-134			
Chlorobenzene	21		1.0	ug/L	20.0		104	83-117			
Toluene	22		1.0	ug/L	20.0		109	71-118			
Trichloroethene	21		1.0	ug/L	20.0		106	75-115			
Surrogate: 4-Bromofluorobenzene	*47*			*ug/L*	*50.0*		*94*	*51-122*			
Surrogate: Dibromofluoromethane	*46*			*ug/L*	*50.0*		*91*	*68-117*			
Surrogate: Toluene-d8	*48*			*ug/L*	*50.0*		*97*	*69-110*			

Matrix Spike (1I09017-MS1) Prepared: 09/09/2011 12:26 Analyzed: 09/10/2011 00:42

Source: C110854-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	23		1.0	ug/L	20.0	0.60 U	115	75-133			
Benzene	23		1.0	ug/L	20.0	0.68 U	113	81-134			
Chlorobenzene	22		1.0	ug/L	20.0	0.74 U	112	83-117			
Toluene	24		1.0	ug/L	20.0	0.85 U	118	71-118			
Trichloroethene	22		1.0	ug/L	20.0	0.72 U	112	75-115			
Surrogate: 4-Bromofluorobenzene	*47*			*ug/L*	*50.0*		*95*	*51-122*			
Surrogate: Dibromofluoromethane	*47*			*ug/L*	*50.0*		*95*	*68-117*			
Surrogate: Toluene-d8	*49*			*ug/L*	*50.0*		*99*	*69-110*			

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 1I09017 - EPA 5030B_MS

Matrix Spike Dup (1I09017-MSD1) Prepared: 09/09/2011 12:26 Analyzed: 09/10/2011 01:11

Source: C110854-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	22		1.0	ug/L	20.0	0.60 U	112	75-133	2	20	
Benzene	22		1.0	ug/L	20.0	0.68 U	108	81-134	5	17	
Chlorobenzene	22		1.0	ug/L	20.0	0.74 U	108	83-117	3	16	
Toluene	23		1.0	ug/L	20.0	0.85 U	115	71-118	2	17	
Trichloroethene	22		1.0	ug/L	20.0	0.72 U	112	75-115	0.1	18	
Surrogate: 4-Bromofluorobenzene	*49*			*ug/L*	*50.0*		*97*	*51-122*			
Surrogate: Dibromofluoromethane	*46*			*ug/L*	*50.0*		*92*	*68-117*			
Surrogate: Toluene-d8	*49*			*ug/L*	*50.0*		*97*	*69-110*			

Batch 1I12006 - EPA 5030B_MS

Blank (1I12006-BLK1) Prepared: 09/12/2011 08:31 Analyzed: 09/13/2011 00:08

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.90	U	1.0	ug/L							
1,1,1-Trichloroethane	0.65	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.75	U	1.0	ug/L							
1,1,2-Trichloroethane	0.66	U	1.0	ug/L							
1,1-Dichloroethane	0.080	U	1.0	ug/L							
1,1-Dichloroethene	0.60	U	1.0	ug/L							
1,1-Dichloropropene	0.66	U	1.0	ug/L							
1,2,3-Trichlorobenzene	0.51	U	1.0	ug/L							
1,2,3-Trichloropropane	0.72	U	1.0	ug/L							
1,2,4-Trichlorobenzene	0.58	U	1.0	ug/L							
1,2,4-Trimethylbenzene	0.72	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.66	U	1.0	ug/L							
1,2-Dichlorobenzene	0.11	U	1.0	ug/L							
1,2-Dichloroethane	0.47	U	1.0	ug/L							
1,2-Dichloropropane	0.59	U	1.0	ug/L							
1,3,5-Trimethylbenzene	0.067	U	1.0	ug/L							
1,3-Dichlorobenzene	0.79	U	1.0	ug/L							
1,3-Dichloropropane	0.67	U	1.0	ug/L							
1,4-Dichlorobenzene	0.79	U	1.0	ug/L							
2,2-Dichloropropane	0.56	U	1.0	ug/L							
2-Butanone	1.3	U	5.0	ug/L							
2-Chloroethyl Vinyl Ether	1.1	U	5.0	ug/L							
2-Chlorotoluene	0.071	U	1.0	ug/L							
2-Hexanone	0.88	U	5.0	ug/L							
4-Chlorotoluene	0.63	U	1.0	ug/L							
4-Isopropyltoluene	0.82	U	1.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.2	U	5.0	ug/L							
Benzene	0.68	U	1.0	ug/L							
Bromobenzene	0.61	U	1.0	ug/L							
Bromochloromethane	0.87	U	1.0	ug/L							
Bromodichloromethane	0.75	U	1.0	ug/L							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 1I12006 - EPA 5030B_MS

Blank (1I12006-BLK1) Continued Prepared: 09/12/2011 08:31 Analyzed: 09/13/2011 00:08

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Bromoform	0.68	U	1.0	ug/L							
Bromomethane	0.58	U	1.0	ug/L							
Carbon disulfide	1.5	U	5.0	ug/L							
Carbon tetrachloride	0.69	U	1.0	ug/L							
Chlorobenzene	0.74	U	1.0	ug/L							
Chloroethane	0.75	U	1.0	ug/L							
Chloroform	0.70	U	1.0	ug/L							
Chloromethane	0.55	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.72	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.075	U	1.0	ug/L							
Dibromochloromethane	0.63	U	1.0	ug/L							
Dibromomethane	0.90	U	1.0	ug/L							
Dichlorodifluoromethane	0.56	U	1.0	ug/L							
Ethylbenzene	0.62	U	1.0	ug/L							
Hexachlorobutadiene	0.88	U	1.0	ug/L							
Isopropylbenzene	0.62	U	1.0	ug/L							
m,p-Xylenes	1.4	U	2.0	ug/L							
Methylene chloride	0.14	U	1.0	ug/L							
Methyl-tert-Butyl Ether	0.58	U	1.0	ug/L							
Naphthalene	0.46	U	1.0	ug/L							
n-Butyl Benzene	0.51	U	1.0	ug/L							
n-Propyl Benzene	0.093	U	1.0	ug/L							
o-Xylene	0.63	U	1.0	ug/L							
sec-Butylbenzene	0.84	U	1.0	ug/L							
Styrene	0.053	U	1.0	ug/L							
tert-Butylbenzene	0.79	U	1.0	ug/L							
Tetrachloroethene	0.73	U	1.0	ug/L							
Toluene	0.85	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.12	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.50	U	1.0	ug/L							
Trichloroethene	0.72	U	1.0	ug/L							
Trichlorofluoromethane	0.66	U	1.0	ug/L							
Vinyl chloride	0.60	U	1.0	ug/L							
Xylenes (Total)	2.1	U	3.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*48*			*ug/L*	*50.0*		*96*	*51-122*			
Surrogate: Dibromofluoromethane	*46*			*ug/L*	*50.0*		*91*	*68-117*			
Surrogate: Toluene-d8	*47*			*ug/L*	*50.0*		*94*	*69-110*			

LCS (1I12006-BS1) Prepared: 09/12/2011 08:31 Analyzed: 09/13/2011 00:37

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	22		1.0	ug/L	20.0		109	75-133			
Benzene	21		1.0	ug/L	20.0		103	81-134			
Chlorobenzene	21		1.0	ug/L	20.0		104	83-117			
Toluene	22		1.0	ug/L	20.0		110	71-118			
Trichloroethene	21		1.0	ug/L	20.0		104	75-115			
Surrogate: 4-Bromofluorobenzene	*47*			*ug/L*	*50.0*		*94*	*51-122*			
Surrogate: Dibromofluoromethane	*45*			*ug/L*	*50.0*		*90*	*68-117*			

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 1I12006 - EPA 5030B_MS

LCS (1I12006-BS1) Continued Prepared: 09/12/2011 08:31 Analyzed: 09/13/2011 00:37

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Surrogate: Toluene-d8	*47*			*ug/L*	*50.0*		*95*	*69-110*			

Matrix Spike (1I12006-MS1) Prepared: 09/12/2011 08:31 Analyzed: 09/13/2011 01:06

Source: C110854-05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	23		1.0	ug/L	20.0	0.60 U	116	75-133			
Benzene	22		1.0	ug/L	20.0	0.68 U	109	81-134			
Chlorobenzene	23		1.0	ug/L	20.0	0.74 U	113	83-117			
Toluene	24		1.0	ug/L	20.0	0.85 U	119	71-118			QM-07
Trichloroethene	21		1.0	ug/L	20.0	0.72 U	105	75-115			
Surrogate: 4-Bromofluorobenzene	*49*			*ug/L*	*50.0*		*98*	*51-122*			
Surrogate: Dibromofluoromethane	*47*			*ug/L*	*50.0*		*93*	*68-117*			
Surrogate: Toluene-d8	*48*			*ug/L*	*50.0*		*96*	*69-110*			

Matrix Spike Dup (1I12006-MSD1) Prepared: 09/12/2011 08:31 Analyzed: 09/13/2011 01:35

Source: C110854-05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	20		1.0	ug/L	20.0	0.60 U	101	75-133	14	20	
Benzene	20		1.0	ug/L	20.0	0.68 U	100	81-134	8	17	
Chlorobenzene	21		1.0	ug/L	20.0	0.74 U	103	83-117	9	16	
Toluene	22		1.0	ug/L	20.0	0.85 U	108	71-118	9	17	
Trichloroethene	20		1.0	ug/L	20.0	0.72 U	99	75-115	6	18	
Surrogate: 4-Bromofluorobenzene	*49*			*ug/L*	*50.0*		*97*	*51-122*			
Surrogate: Dibromofluoromethane	*45*			*ug/L*	*50.0*		*90*	*68-117*			
Surrogate: Toluene-d8	*48*			*ug/L*	*50.0*		*97*	*69-110*			

Batch 1I13024 - EPA 5030B_MS

Blank (1I13024-BLK1) Prepared: 09/13/2011 12:52 Analyzed: 09/14/2011 05:07

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.90	U	1.0	ug/L							
1,1,1-Trichloroethane	0.65	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.75	U	1.0	ug/L							
1,1,2-Trichloroethane	0.66	U	1.0	ug/L							
1,1-Dichloroethane	0.080	U	1.0	ug/L							
1,1-Dichloroethene	0.60	U	1.0	ug/L							
1,1-Dichloropropene	0.66	U	1.0	ug/L							
1,2,3-Trichlorobenzene	0.51	U	1.0	ug/L							
1,2,3-Trichloropropane	0.72	U	1.0	ug/L							
1,2,4-Trichlorobenzene	0.58	U	1.0	ug/L							
1,2,4-Trimethylbenzene	0.72	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.66	U	1.0	ug/L							
1,2-Dichlorobenzene	0.11	U	1.0	ug/L							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 1I13024 - EPA 5030B_MS

Blank (1I13024-BLK1) Continued Prepared: 09/13/2011 12:52 Analyzed: 09/14/2011 05:07

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,2-Dichloroethane	0.47	U	1.0	ug/L							
1,2-Dichloropropane	0.59	U	1.0	ug/L							
1,3,5-Trimethylbenzene	0.067	U	1.0	ug/L							
1,3-Dichlorobenzene	0.79	U	1.0	ug/L							
1,3-Dichloropropane	0.67	U	1.0	ug/L							
1,4-Dichlorobenzene	0.79	U	1.0	ug/L							
2,2-Dichloropropane	0.56	U	1.0	ug/L							
2-Butanone	1.3	U	5.0	ug/L							
2-Chloroethyl Vinyl Ether	1.1	U	5.0	ug/L							
2-Chlorotoluene	0.071	U	1.0	ug/L							
2-Hexanone	0.88	U	5.0	ug/L							
4-Chlorotoluene	0.63	U	1.0	ug/L							
4-Isopropyltoluene	0.82	U	1.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.2	U	5.0	ug/L							
Benzene	0.68	U	1.0	ug/L							
Bromobenzene	0.61	U	1.0	ug/L							
Bromochloromethane	0.87	U	1.0	ug/L							
Bromodichloromethane	0.75	U	1.0	ug/L							
Bromoform	0.68	U	1.0	ug/L							
Bromomethane	0.58	U	1.0	ug/L							
Carbon disulfide	1.5	U	5.0	ug/L							
Carbon tetrachloride	0.69	U	1.0	ug/L							
Chlorobenzene	0.74	U	1.0	ug/L							
Chloroethane	0.75	U	1.0	ug/L							
Chloroform	0.70	U	1.0	ug/L							
Chloromethane	0.55	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.72	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.075	U	1.0	ug/L							
Dibromochloromethane	0.63	U	1.0	ug/L							
Dibromomethane	0.90	U	1.0	ug/L							
Dichlorodifluoromethane	0.56	U	1.0	ug/L							
Ethylbenzene	0.62	U	1.0	ug/L							
Hexachlorobutadiene	0.88	U	1.0	ug/L							
Isopropylbenzene	0.62	U	1.0	ug/L							
m,p-Xylenes	1.4	U	2.0	ug/L							
Methylene chloride	0.14	U	1.0	ug/L							
Methyl-tert-Butyl Ether	0.58	U	1.0	ug/L							
Naphthalene	0.46	U	1.0	ug/L							
n-Butyl Benzene	0.51	U	1.0	ug/L							
n-Propyl Benzene	0.093	U	1.0	ug/L							
o-Xylene	0.63	U	1.0	ug/L							
sec-Butylbenzene	0.84	U	1.0	ug/L							
Styrene	0.053	U	1.0	ug/L							
tert-Butylbenzene	0.79	U	1.0	ug/L							
Tetrachloroethene	0.73	U	1.0	ug/L							
Toluene	0.85	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.12	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.50	U	1.0	ug/L							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 1I13024 - EPA 5030B_MS

Blank (1I13024-BLK1) Continued Prepared: 09/13/2011 12:52 Analyzed: 09/14/2011 05:07

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Trichloroethene	0.72	U	1.0	ug/L							
Trichlorofluoromethane	0.66	U	1.0	ug/L							
Vinyl chloride	0.60	U	1.0	ug/L							
Xylenes (Total)	2.1	U	3.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*41*			*ug/L*	*50.0*		*82*	*51-122*			
Surrogate: Dibromofluoromethane	*41*			*ug/L*	*50.0*		*81*	*68-117*			
Surrogate: Toluene-d8	*41*			*ug/L*	*50.0*		*82*	*69-110*			

LCS (1I13024-BS1) Prepared: 09/13/2011 12:52 Analyzed: 09/14/2011 05:36

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	19		1.0	ug/L	20.0		94	75-133			
Benzene	19		1.0	ug/L	20.0		95	81-134			
Chlorobenzene	19		1.0	ug/L	20.0		95	83-117			
Toluene	19		1.0	ug/L	20.0		93	71-118			
Trichloroethene	20		1.0	ug/L	20.0		99	75-115			
Surrogate: 4-Bromofluorobenzene	*41*			*ug/L*	*50.0*		*83*	*51-122*			
Surrogate: Dibromofluoromethane	*40*			*ug/L*	*50.0*		*79*	*68-117*			
Surrogate: Toluene-d8	*42*			*ug/L*	*50.0*		*84*	*69-110*			

Matrix Spike (1I13024-MS1) Prepared: 09/13/2011 12:52 Analyzed: 09/14/2011 06:06

Source: C111155-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	20		1.0	ug/L	20.0	0.60 U	98	75-133			
Benzene	20		1.0	ug/L	20.0	0.68 U	99	81-134			
Chlorobenzene	19		1.0	ug/L	20.0	0.74 U	97	83-117			
Toluene	20		1.0	ug/L	20.0	0.85 U	98	71-118			
Trichloroethene	21		1.0	ug/L	20.0	0.72 U	105	75-115			
Surrogate: 4-Bromofluorobenzene	*41*			*ug/L*	*50.0*		*82*	*51-122*			
Surrogate: Dibromofluoromethane	*40*			*ug/L*	*50.0*		*79*	*68-117*			
Surrogate: Toluene-d8	*42*			*ug/L*	*50.0*		*83*	*69-110*			

Matrix Spike Dup (1I13024-MSD1) Prepared: 09/13/2011 12:52 Analyzed: 09/14/2011 06:36

Source: C111155-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	19		1.0	ug/L	20.0	0.60 U	94	75-133	5	20	
Benzene	19		1.0	ug/L	20.0	0.68 U	97	81-134	3	17	
Chlorobenzene	19		1.0	ug/L	20.0	0.74 U	97	83-117	0.1	16	
Toluene	19		1.0	ug/L	20.0	0.85 U	95	71-118	2	17	
Trichloroethene	20		1.0	ug/L	20.0	0.72 U	101	75-115	4	18	
Surrogate: 4-Bromofluorobenzene	*42*			*ug/L*	*50.0*		*84*	*51-122*			
Surrogate: Dibromofluoromethane	*40*			*ug/L*	*50.0*		*80*	*68-117*			
Surrogate: Toluene-d8	*42*			*ug/L*	*50.0*		*84*	*69-110*			

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 1I15001 - EPA 5030B_MS

Blank (1I15001-BLK1) Prepared: 09/15/2011 07:34 Analyzed: 09/15/2011 13:36

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.90	U	1.0	ug/L							
1,1,1-Trichloroethane	0.65	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.75	U	1.0	ug/L							
1,1,2-Trichloroethane	0.66	U	1.0	ug/L							
1,1-Dichloroethane	0.080	U	1.0	ug/L							
1,1-Dichloroethene	0.60	U	1.0	ug/L							
1,1-Dichloropropene	0.66	U	1.0	ug/L							
1,2,3-Trichlorobenzene	0.51	U	1.0	ug/L							
1,2,3-Trichloropropane	0.72	U	1.0	ug/L							
1,2,4-Trichlorobenzene	0.58	U	1.0	ug/L							
1,2,4-Trimethylbenzene	0.72	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.66	U	1.0	ug/L							
1,2-Dichlorobenzene	0.11	U	1.0	ug/L							
1,2-Dichloroethane	0.47	U	1.0	ug/L							
1,2-Dichloropropane	0.59	U	1.0	ug/L							
1,3,5-Trimethylbenzene	0.067	U	1.0	ug/L							
1,3-Dichlorobenzene	0.79	U	1.0	ug/L							
1,3-Dichloropropane	0.67	U	1.0	ug/L							
1,4-Dichlorobenzene	0.79	U	1.0	ug/L							
2,2-Dichloropropane	0.56	U	1.0	ug/L							
2-Butanone	1.3	U	5.0	ug/L							
2-Chloroethyl Vinyl Ether	1.1	U	5.0	ug/L							
2-Chlorotoluene	0.071	U	1.0	ug/L							
2-Hexanone	0.88	U	5.0	ug/L							
4-Chlorotoluene	0.63	U	1.0	ug/L							
4-Isopropyltoluene	0.82	U	1.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.2	U	5.0	ug/L							
Benzene	0.68	U	1.0	ug/L							
Bromobenzene	0.61	U	1.0	ug/L							
Bromochloromethane	0.87	U	1.0	ug/L							
Bromodichloromethane	0.75	U	1.0	ug/L							
Bromoform	0.68	U	1.0	ug/L							
Bromomethane	0.58	U	1.0	ug/L							
Carbon disulfide	1.5	U	5.0	ug/L							
Carbon tetrachloride	0.69	U	1.0	ug/L							
Chlorobenzene	0.74	U	1.0	ug/L							
Chloroethane	0.75	U	1.0	ug/L							
Chloroform	0.70	U	1.0	ug/L							
Chloromethane	0.55	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.72	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.075	U	1.0	ug/L							
Dibromochloromethane	0.63	U	1.0	ug/L							
Dibromomethane	0.90	U	1.0	ug/L							
Dichlorodifluoromethane	0.56	U	1.0	ug/L							
Ethylbenzene	0.62	U	1.0	ug/L							
Hexachlorobutadiene	0.88	U	1.0	ug/L							
Isopropylbenzene	0.62	U	1.0	ug/L							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 1I15001 - EPA 5030B_MS

Blank (1I15001-BLK1) Continued Prepared: 09/15/2011 07:34 Analyzed: 09/15/2011 13:36

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
m,p-Xylenes	1.4	U	2.0	ug/L							
Methylene chloride	0.14	U	1.0	ug/L							
Methyl-tert-Butyl Ether	0.58	U	1.0	ug/L							
Naphthalene	0.46	U	1.0	ug/L							
n-Butyl Benzene	0.51	U	1.0	ug/L							
n-Propyl Benzene	0.093	U	1.0	ug/L							
o-Xylene	0.63	U	1.0	ug/L							
sec-Butylbenzene	0.84	U	1.0	ug/L							
Styrene	0.053	U	1.0	ug/L							
tert-Butylbenzene	0.79	U	1.0	ug/L							
Tetrachloroethene	0.73	U	1.0	ug/L							
Toluene	0.85	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.12	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.50	U	1.0	ug/L							
Trichloroethene	0.72	U	1.0	ug/L							
Trichlorofluoromethane	0.66	U	1.0	ug/L							
Vinyl chloride	0.60	U	1.0	ug/L							
Xylenes (Total)	2.1	U	3.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*40*			*ug/L*	*50.0*		*79*	*51-122*			
Surrogate: Dibromofluoromethane	*41*			*ug/L*	*50.0*		*81*	*68-117*			
Surrogate: Toluene-d8	*41*			*ug/L*	*50.0*		*82*	*69-110*			

LCS (1I15001-BS1) Prepared: 09/15/2011 07:34 Analyzed: 09/15/2011 14:05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	21		1.0	ug/L	20.0		103	75-133			
Benzene	20		1.0	ug/L	20.0		102	81-134			
Chlorobenzene	20		1.0	ug/L	20.0		98	83-117			
Toluene	20		1.0	ug/L	20.0		100	71-118			
Trichloroethene	20		1.0	ug/L	20.0		101	75-115			
Surrogate: 4-Bromofluorobenzene	*41*			*ug/L*	*50.0*		*82*	*51-122*			
Surrogate: Dibromofluoromethane	*41*			*ug/L*	*50.0*		*81*	*68-117*			
Surrogate: Toluene-d8	*42*			*ug/L*	*50.0*		*84*	*69-110*			

Matrix Spike (1I15001-MS1) Prepared: 09/15/2011 07:34 Analyzed: 09/15/2011 14:35

Source: C111155-08

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	22		1.0	ug/L	20.0	0.60 U	108	75-133			
Benzene	21		1.0	ug/L	20.0	0.68 U	106	81-134			
Chlorobenzene	21		1.0	ug/L	20.0	0.74 U	103	83-117			
Toluene	20		1.0	ug/L	20.0	0.85 U	101	71-118			
Trichloroethene	21		1.0	ug/L	20.0	0.72 U	103	75-115			
Surrogate: 4-Bromofluorobenzene	*41*			*ug/L*	*50.0*		*81*	*51-122*			
Surrogate: Dibromofluoromethane	*41*			*ug/L*	*50.0*		*82*	*68-117*			
Surrogate: Toluene-d8	*43*			*ug/L*	*50.0*		*85*	*69-110*			

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 1I15001 - EPA 5030B_MS

Matrix Spike Dup (1I15001-MSD1) Prepared: 09/15/2011 07:34 Analyzed: 09/15/2011 15:05

Source: C111155-08

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	20		1.0	ug/L	20.0	0.60 U	102	75-133	6	20	
Benzene	20		1.0	ug/L	20.0	0.68 U	100	81-134	6	17	
Chlorobenzene	20		1.0	ug/L	20.0	0.74 U	99	83-117	4	16	
Toluene	20		1.0	ug/L	20.0	0.85 U	98	71-118	3	17	
Trichloroethene	20		1.0	ug/L	20.0	0.72 U	101	75-115	2	18	
Surrogate: 4-Bromofluorobenzene	*41*			*ug/L*	*50.0*		*81*	*51-122*			
Surrogate: Dibromofluoromethane	*40*			*ug/L*	*50.0*		*79*	*68-117*			
Surrogate: Toluene-d8	*43*			*ug/L*	*50.0*		*85*	*69-110*			

Polychlorinated Biphenyls by GC - Quality Control

Batch 1I13003 - EPA 3550C

Blank (1I13003-BLK1) Prepared: 09/13/2011 06:44 Analyzed: 09/13/2011 17:50

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
PCB-1016/1242	0.0077	U	0.017	mg/kg wet							
PCB-1221	0.0052	U	0.017	mg/kg wet							
PCB-1232	0.0052	U	0.017	mg/kg wet							
PCB-1248	0.0052	U	0.017	mg/kg wet							
PCB-1254	0.0052	U	0.017	mg/kg wet							
PCB-1260	0.0041	U	0.017	mg/kg wet							
Surrogate: 2,4,5,6-TCMX	*0.034*			*mg/kg wet*	*0.0333*		*103*	*44-168*			
Surrogate: Decachlorobiphenyl	*0.035*			*mg/kg wet*	*0.0333*		*105*	*51-154*			

LCS (1I13003-BS1) Prepared: 09/13/2011 06:44 Analyzed: 09/13/2011 18:03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
PCB-1016/1242	0.32		0.017	mg/kg wet	0.333		97	18-178			
PCB-1260	0.37		0.017	mg/kg wet	0.333		111	59-144			
Surrogate: 2,4,5,6-TCMX	*0.035*			*mg/kg wet*	*0.0333*		*106*	*44-168*			
Surrogate: Decachlorobiphenyl	*0.043*			*mg/kg wet*	*0.0333*		*128*	*51-154*			

Matrix Spike (1I13003-MS1) Prepared: 09/13/2011 06:44 Analyzed: 09/13/2011 18:17

Source: C110855-11

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
PCB-1016/1242	0.36		0.019	mg/kg dry	0.374	0.0086 U	95	18-178			
PCB-1260	0.41		0.019	mg/kg dry	0.374	0.0046 U	111	59-144			
Surrogate: 2,4,5,6-TCMX	*0.040*			*mg/kg dry*	*0.0374*		*106*	*44-168*			
Surrogate: Decachlorobiphenyl	*0.045*			*mg/kg dry*	*0.0374*		*119*	*51-154*			

Matrix Spike Dup (1I13003-MSD1) Prepared: 09/13/2011 06:44 Analyzed: 09/13/2011 18:30

Source: C110855-11

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

QUALITY CONTROL

Polychlorinated Biphenyls by GC - Quality Control

Batch 1I13003 - EPA 3550C

Matrix Spike Dup (1I13003-MSD1) Continued Prepared: 09/13/2011 06:44 Analyzed: 09/13/2011 18:30

Source: C110855-11

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
PCB-1016/1242	0.36		0.019	mg/kg dry	0.374	0.0086 U	97	18-178	2	42	
PCB-1260	0.38		0.019	mg/kg dry	0.374	0.0046 U	102	59-144	8	36	
Surrogate: 2,4,5,6-TCMX	*0.040*			*mg/kg dry*	*0.0374*		*107*	*44-168*			
Surrogate: Decachlorobiphenyl	*0.036*			*mg/kg dry*	*0.0374*		*95*	*51-154*			

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 1I13013 - EPA 245.1

Blank (1I13013-BLK1) Prepared: 09/13/2011 11:00 Analyzed: 09/13/2011 14:11

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.170	U	0.200	ug/L							

LCS (1I13013-BS1) Prepared: 09/13/2011 11:00 Analyzed: 09/13/2011 14:14

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.76		0.200	ug/L	5.00		95	85-115			

Matrix Spike (1I13013-MS1) Prepared: 09/13/2011 11:00 Analyzed: 09/13/2011 14:20

Source: C110855-07

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.52		0.200	ug/L	5.00	0.170 U	90	85-115			

Matrix Spike Dup (1I13013-MSD1) Prepared: 09/13/2011 11:00 Analyzed: 09/13/2011 14:23

Source: C110855-07

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.61		0.200	ug/L	5.00	0.170 U	92	85-115	2	15	

Post Spike (1I13013-PS1) Prepared: 09/13/2011 11:00 Analyzed: 09/13/2011 14:25

Source: C110855-07

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.07		0.200	ug/L	5.00	0.00430	81	75-125			

Batch 1I13016 - EPA 3050B

Blank (1I13016-BLK1) Prepared: 09/13/2011 12:00 Analyzed: 09/14/2011 12:45

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	0.110	U	1.00	mg/kg wet							
Arsenic	0.100	U	0.500	mg/kg wet							
Beryllium	0.0120	U	0.0500	mg/kg wet							
Cadmium	0.00960	U	0.0500	mg/kg wet							

QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 1I13016 - EPA 3050B

Blank (1I13016-BLK1) Continued Prepared: 09/13/2011 12:00 Analyzed: 09/14/2011 12:45

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chromium	0.100	U	0.500	mg/kg wet							
Copper	0.190	U	0.500	mg/kg wet							
Lead	0.120	U	0.500	mg/kg wet							
Nickel	0.360	U	2.50	mg/kg wet							
Selenium	0.100	U	0.500	mg/kg wet							
Silver	0.100	U	0.500	mg/kg wet							
Thallium	0.100	U	0.500	mg/kg wet							
Zinc	1.10	U	2.50	mg/kg wet							

LCS (1I13016-BS1) Prepared: 09/13/2011 12:00 Analyzed: 09/14/2011 12:49

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	9.91		1.00	mg/kg wet	10.1		98	80-120			
Arsenic	9.73		0.500	mg/kg wet	10.1		96	80-120			
Beryllium	1.00		0.0500	mg/kg wet	1.01		99	80-120			
Cadmium	1.05		0.0500	mg/kg wet	1.01		104	80-120			
Chromium	10.2		0.500	mg/kg wet	10.1		101	80-120			
Copper	10.0		0.500	mg/kg wet	10.1		99	80-120			
Lead	10.3		0.500	mg/kg wet	10.1		102	80-120			
Nickel	10.6		2.50	mg/kg wet	10.1		105	80-120			
Selenium	9.92		0.500	mg/kg wet	10.1		98	80-120			
Silver	10.3		0.500	mg/kg wet	10.1		102	80-120			
Thallium	9.87		0.500	mg/kg wet	10.1		98	80-120			
Zinc	10.7		2.50	mg/kg wet	10.1		105	80-120			

Matrix Spike (1I13016-MS1) Prepared: 09/13/2011 12:00 Analyzed: 09/14/2011 12:55

Source: C110482-07

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	7.33		1.15	mg/kg dry	11.5	0.983	55	75-125			QM-07
Arsenic	15.1		0.576	mg/kg dry	11.5	2.46	110	75-125			
Beryllium	1.72		0.0576	mg/kg dry	1.15	0.430	112	75-125			
Cadmium	0.632		0.0576	mg/kg dry	1.15	0.0111 U	55	75-125			QM-07
Chromium	36.8		0.576	mg/kg dry	11.5	19.3	151	75-125			QM-07
Copper	22.1		0.576	mg/kg dry	11.5	10.1	104	75-125			
Lead	31.0		0.576	mg/kg dry	11.5	19.1	103	75-125			
Nickel	22.6		2.88	mg/kg dry	11.5	9.33	116	75-125			
Selenium	8.41		0.576	mg/kg dry	11.5	0.115 U	73	75-125			QM-07
Silver	11.8		0.576	mg/kg dry	11.5	0.185	101	75-125			
Thallium	8.04		0.576	mg/kg dry	11.5	0.115 U	70	75-125			QM-07
Zinc	54.0		2.88	mg/kg dry	11.5	39.5	126	75-125			QM-07

Matrix Spike Dup (1I13016-MSD1) Prepared: 09/13/2011 12:00 Analyzed: 09/14/2011 12:58

Source: C110482-07

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	7.05		1.15	mg/kg dry	11.6	0.983	52	75-125	4	20	QM-07

QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 1I13016 - EPA 3050B

Matrix Spike Dup (1I13016-MSD1) Continued Prepared: 09/13/2011 12:00 Analyzed: 09/14/2011 12:58

Source: C110482-07

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	13.2		0.576	mg/kg dry	11.6	2.46	92	75-125	13	20	
Beryllium	1.61		0.0576	mg/kg dry	1.16	0.430	101	75-125	7	20	
Cadmium	0.808		0.0576	mg/kg dry	1.16	0.0111 U	69	75-125	24	20	QM-07, QM-11
Chromium	30.5		0.576	mg/kg dry	11.6	19.3	96	75-125	19	20	
Copper	20.7		0.576	mg/kg dry	11.6	10.1	90	75-125	7	20	
Lead	32.4		0.576	mg/kg dry	11.6	19.1	115	75-125	5	20	
Nickel	19.1		2.88	mg/kg dry	11.6	9.33	84	75-125	17	20	
Selenium	9.05		0.576	mg/kg dry	11.6	0.115 U	78	75-125	7	20	
Silver	11.9		0.576	mg/kg dry	11.6	0.185	100	75-125	0.6	20	
Thallium	7.64		0.576	mg/kg dry	11.6	0.115 U	66	75-125	5	20	QM-07
Zinc	52.8		2.88	mg/kg dry	11.6	39.5	114	75-125	2	20	

Post Spike (1I13016-PS1) Prepared: 09/13/2011 12:00 Analyzed: 09/14/2011 13:00

Source: C110482-07

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	0.217		0.0200	mg/L	0.200	0.0171	100	80-120			
Arsenic	0.243		0.0100	mg/L	0.200	0.0426	100	80-120			
Beryllium	0.0276		0.00100	mg/L	0.0200	0.00746	101	80-120			
Cadmium	0.0148		0.00100	mg/L	0.0200	-0.00516	100	80-120			
Chromium	0.531		0.0100	mg/L	0.200	0.335	98	80-120			
Copper	0.378		0.0100	mg/L	0.200	0.176	101	80-120			
Lead	0.524		0.0100	mg/L	0.200	0.332	96	80-120			
Nickel	0.352		0.0500	mg/L	0.200	0.162	95	80-120			
Selenium	0.169		0.0100	mg/L	0.200	-0.0368	103	80-120			
Silver	0.153		0.0100	mg/L	0.200	0.00322	75	80-120			QM-08
Thallium	0.169		0.0100	mg/L	0.200	-0.0273	98	80-120			
Zinc	0.870		0.0500	mg/L	0.200	0.686	92	80-120			

Batch 1I14017 - EPA 7471B

Blank (1I14017-BLK1) Prepared: 09/14/2011 10:04 Analyzed: 09/14/2011 14:14

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.00610	U	0.0100	mg/kg wet							

LCS (1I14017-BS1) Prepared: 09/14/2011 10:04 Analyzed: 09/14/2011 14:16

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.247		0.0100	mg/kg wet	0.246		100	85-115			

Matrix Spike (1I14017-MS1) Prepared: 09/14/2011 10:04 Analyzed: 09/14/2011 14:23

Source: C110573-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.281		0.0108	mg/kg dry	0.274	0.0309	91	80-120			

QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 1I14017 - EPA 7471B

Matrix Spike Dup (1I14017-MSD1) Prepared: 09/14/2011 10:04 Analyzed: 09/14/2011 14:26

Source: C110573-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.307		0.0108	mg/kg dry	0.274	0.0309	101	80-120	9	20	

Post Spike (1I14017-PS1) Prepared: 09/14/2011 10:04 Analyzed: 09/14/2011 14:28

Source: C110573-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	5.64		0.200	ug/L	5.00	0.573	101	75-125			

Metals (total recoverable) by EPA 6000/7000 Series Methods - Quality Control

Batch 1I08018 - EPA 3005A

Blank (1I08018-BLK1) Prepared: 09/08/2011 10:53 Analyzed: 09/12/2011 10:21

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	2.80	U	10.0	ug/L							
Beryllium	0.100	U	1.00	ug/L							
Cadmium	0.360	U	1.00	ug/L							
Chromium	1.00	U	10.0	ug/L							
Copper	1.60	U	10.0	ug/L							
Lead	1.90	U	10.0	ug/L							
Nickel	1.80	U	10.0	ug/L							
Selenium	2.70	U	10.0	ug/L							
Silver	1.90	U	10.0	ug/L							
Zinc	3.80	U	10.0	ug/L							

LCS (1I08018-BS1) Prepared: 09/08/2011 10:53 Analyzed: 09/12/2011 10:23

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	210		10.0	ug/L	200		105	80-120			
Beryllium	21.3		1.00	ug/L	20.0		106	80-120			
Cadmium	22.7		1.00	ug/L	20.0		114	80-120			
Chromium	214		10.0	ug/L	200		107	80-120			
Copper	212		10.0	ug/L	200		106	80-120			
Lead	217		10.0	ug/L	200		108	80-120			
Nickel	225		10.0	ug/L	200		112	80-120			
Selenium	213		10.0	ug/L	200		107	80-120			
Silver	221		10.0	ug/L	200		111	80-120			
Zinc	223		10.0	ug/L	200		112	80-120			

Matrix Spike (1I08018-MS1) Prepared: 09/08/2011 10:53 Analyzed: 09/12/2011 10:29

Source: C110661-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	212		10.0	ug/L	200	2.80 U	106	75-125			
Beryllium	21.2		1.00	ug/L	20.0	0.100 U	106	75-125			

QUALITY CONTROL

Metals (total recoverable) by EPA 6000/7000 Series Methods - Quality Control

Batch 1I08018 - EPA 3005A

Matrix Spike (1I08018-MS1) Continued Prepared: 09/08/2011 10:53 Analyzed: 09/12/2011 10:29

Source: C110661-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Cadmium	22.5		1.00	ug/L	20.0	0.360 U	113	75-125			
Chromium	213		10.0	ug/L	200	1.71	106	75-125			
Copper	213		10.0	ug/L	200	3.02	105	75-125			
Lead	216		10.0	ug/L	200	1.90 U	108	75-125			
Nickel	222		10.0	ug/L	200	1.91	110	75-125			
Selenium	218		10.0	ug/L	200	2.70 U	109	75-125			
Silver	219		10.0	ug/L	200	1.90 U	110	75-125			
Zinc	227		10.0	ug/L	200	3.80 U	113	75-125			

Matrix Spike Dup (1I08018-MSD1) Prepared: 09/08/2011 10:53 Analyzed: 09/12/2011 10:31

Source: C110661-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	213		10.0	ug/L	200	2.80 U	106	75-125	0.5	20	
Beryllium	21.1		1.00	ug/L	20.0	0.100 U	105	75-125	0.5	20	
Cadmium	22.3		1.00	ug/L	20.0	0.360 U	112	75-125	0.9	20	
Chromium	212		10.0	ug/L	200	1.71	105	75-125	0.6	20	
Copper	213		10.0	ug/L	200	3.02	105	75-125	0.04	20	
Lead	215		10.0	ug/L	200	1.90 U	107	75-125	0.3	20	
Nickel	221		10.0	ug/L	200	1.91	110	75-125	0.5	20	
Selenium	211		10.0	ug/L	200	2.70 U	106	75-125	3	20	
Silver	218		10.0	ug/L	200	1.90 U	109	75-125	0.6	20	
Zinc	226		10.0	ug/L	200	3.80 U	113	75-125	0.4	20	

Post Spike (1I08018-PS1) Prepared: 09/08/2011 10:53 Analyzed: 09/12/2011 10:33

Source: C110661-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	0.207		0.0100	mg/L	0.200	0.000962	103	80-120			
Beryllium	0.0205		0.00100	mg/L	0.0200	-0.000160	103	80-120			
Cadmium	0.0218		0.00100	mg/L	0.0200	-7.31E-5	109	80-120			
Chromium	0.207		0.0100	mg/L	0.200	0.00171	102	80-120			
Copper	0.207		0.0100	mg/L	0.200	0.00302	102	80-120			
Lead	0.212		0.0100	mg/L	0.200	0.00115	105	80-120			
Nickel	0.217		0.0100	mg/L	0.200	0.00191	108	80-120			
Selenium	0.210		0.0100	mg/L	0.200	-0.00286	107	80-120			
Silver	0.159		0.0100	mg/L	0.200	0.00105	79	80-120			QM-08
Zinc	0.222		0.0100	mg/L	0.200	0.00275	110	80-120			

Batch 1I12016 - EPA 3005A

Blank (1I12016-BLK1) Prepared: 09/12/2011 10:20 Analyzed: 09/14/2011 11:21

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	2.80	U	10.0	ug/L							
Beryllium	0.100	U	1.00	ug/L							
Cadmium	0.360	U	1.00	ug/L							

QUALITY CONTROL

Metals (total recoverable) by EPA 6000/7000 Series Methods - Quality Control

Batch 1I12016 - EPA 3005A

Blank (1I12016-BLK1) Continued Prepared: 09/12/2011 10:20 Analyzed: 09/14/2011 11:21

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chromium	1.00	U	10.0	ug/L							
Copper	1.60	U	10.0	ug/L							
Lead	1.90	U	10.0	ug/L							
Nickel	1.80	U	10.0	ug/L							
Selenium	2.70	U	10.0	ug/L							
Silver	1.90	U	10.0	ug/L							
Zinc	3.80	U	10.0	ug/L							

LCS (1I12016-BS1) Prepared: 09/12/2011 10:20 Analyzed: 09/14/2011 11:24

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	199		10.0	ug/L	200		100	80-120			
Beryllium	20.0		1.00	ug/L	20.0		100	80-120			
Cadmium	21.0		1.00	ug/L	20.0		105	80-120			
Chromium	200		10.0	ug/L	200		100	80-120			
Copper	196		10.0	ug/L	200		98	80-120			
Lead	200		10.0	ug/L	200		100	80-120			
Nickel	209		10.0	ug/L	200		104	80-120			
Selenium	197		10.0	ug/L	200		98	80-120			
Silver	205		10.0	ug/L	200		103	80-120			
Zinc	208		10.0	ug/L	200		104	80-120			

Matrix Spike (1I12016-MS1) Prepared: 09/12/2011 10:20 Analyzed: 09/14/2011 11:33

Source: C110359-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	200		10.0	ug/L	200	2.80 U	100	75-125			
Beryllium	20.2		1.00	ug/L	20.0	0.100 U	101	75-125			
Cadmium	21.2		1.00	ug/L	20.0	0.360 U	106	75-125			
Chromium	201		10.0	ug/L	200	1.00 U	100	75-125			
Copper	199		10.0	ug/L	200	1.97	98	75-125			
Lead	201		10.0	ug/L	200	1.90 U	101	75-125			
Nickel	211		10.0	ug/L	200	2.29	104	75-125			
Selenium	201		10.0	ug/L	200	2.70 U	101	75-125			
Silver	204		10.0	ug/L	200	1.90 U	102	75-125			
Zinc	213		10.0	ug/L	200	4.49	104	75-125			

Matrix Spike Dup (1I12016-MSD1) Prepared: 09/12/2011 10:20 Analyzed: 09/14/2011 11:35

Source: C110359-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	199		10.0	ug/L	200	2.80 U	100	75-125	0.1	20	
Beryllium	20.1		1.00	ug/L	20.0	0.100 U	101	75-125	0.2	20	
Cadmium	20.8		1.00	ug/L	20.0	0.360 U	104	75-125	2	20	
Chromium	200		10.0	ug/L	200	1.00 U	100	75-125	0.4	20	
Copper	197		10.0	ug/L	200	1.97	97	75-125	0.8	20	
Lead	200		10.0	ug/L	200	1.90 U	100	75-125	0.4	20	

QUALITY CONTROL

Metals (total recoverable) by EPA 6000/7000 Series Methods - Quality Control

Batch 1I12016 - EPA 3005A

Matrix Spike Dup (1I12016-MSD1) Continued Prepared: 09/12/2011 10:20 Analyzed: 09/14/2011 11:35

Source: C110359-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nickel	208		10.0	ug/L	200	2.29	103	75-125	1	20	
Selenium	197		10.0	ug/L	200	2.70 U	99	75-125	2	20	
Silver	204		10.0	ug/L	200	1.90 U	102	75-125	0.09	20	
Zinc	212		10.0	ug/L	200	4.49	104	75-125	0.7	20	

Post Spike (1I12016-PS1) Prepared: 09/12/2011 10:20 Analyzed: 09/14/2011 11:37

Source: C110359-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	0.199		0.0100	mg/L	0.200	0.00228	98	80-120			
Beryllium	0.0201		0.00100	mg/L	0.0200	-5.79E-5	101	80-120			
Cadmium	0.0208		0.00100	mg/L	0.0200	-5.74E-5	104	80-120			
Chromium	0.199		0.0100	mg/L	0.200	0.000572	99	80-120			
Copper	0.197		0.0100	mg/L	0.200	0.00197	98	80-120			
Lead	0.198		0.0100	mg/L	0.200	0.000729	99	80-120			
Nickel	0.207		0.0100	mg/L	0.200	0.00229	103	80-120			
Selenium	0.198		0.0100	mg/L	0.200	-0.00216	100	80-120			
Silver	0.147		0.0100	mg/L	0.200	0.000567	73	80-120			QM-08
Zinc	0.211		0.0100	mg/L	0.200	0.00449	103	80-120			

Batch 1I12017 - EPA 3005A

Blank (1I12017-BLK1) Prepared: 09/12/2011 10:25 Analyzed: 09/21/2011 09:14

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	0.220	U	2.00	ug/L							
Selenium	0.830	U	1.00	ug/L							
Thallium	0.110	U	1.00	ug/L							

LCS (1I12017-BS1) Prepared: 09/12/2011 10:25 Analyzed: 09/21/2011 09:18

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	24.6		2.00	ug/L	25.0		98	80-120			
Selenium	24.5		1.00	ug/L	25.0		98	80-120			
Thallium	27.3		1.00	ug/L	25.0		109	80-120			

Matrix Spike (1I12017-MS1) Prepared: 09/12/2011 10:25 Analyzed: 09/21/2011 09:25

Source: C110554-05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	21.7		2.00	ug/L	25.0	0.220 U	87	75-125			
Selenium	21.3		1.00	ug/L	25.0	0.830 U	85	75-125			
Thallium	24.7		1.00	ug/L	25.0	0.110 U	99	75-125			

Matrix Spike Dup (1I12017-MSD1) Prepared: 09/12/2011 10:25 Analyzed: 09/21/2011 09:29

Source: C110554-05

QUALITY CONTROL

Metals (total recoverable) by EPA 6000/7000 Series Methods - Quality Control

Batch 1I12017 - EPA 3005A

Matrix Spike Dup (1I12017-MSD1) Continued Prepared: 09/12/2011 10:25 Analyzed: 09/21/2011 09:29

Source: C110554-05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	21.9		2.00	ug/L	25.0	0.220 U	87	75-125	0.7	20	
Selenium	21.2		1.00	ug/L	25.0	0.830 U	85	75-125	0.2	20	
Thallium	24.9		1.00	ug/L	25.0	0.110 U	99	75-125	0.7	20	

Post Spike (1I12017-PS1) Prepared: 09/12/2011 10:25 Analyzed: 09/21/2011 09:32

Source: C110554-05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	25.6		2.00	ug/L	25.0	0.120	102	80-120			
Selenium	24.6		1.00	ug/L	25.0	0.0270	98	80-120			
Thallium	27.0		1.00	ug/L	25.0	-0.0150	108	80-120			

Classical Chemistry Parameters - Quality Control

Batch 1I09012 - NO PREP

Blank (1I09012-BLK1) Prepared & Analyzed: 09/09/2011 11:16

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Hexavalent Chromium	0.0053	U	0.010	mg/L							

LCS (1I09012-BS1) Prepared & Analyzed: 09/09/2011 11:16

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Hexavalent Chromium	0.25		0.010	mg/L	0.249		100	80-120			

LCS (1I09012-BS2) Prepared & Analyzed: 09/09/2011 11:16

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Hexavalent Chromium	0.25		0.010	mg/L	0.249		100	80-120			

Matrix Spike (1I09012-MS1) Prepared & Analyzed: 09/09/2011 11:16

Source: C110855-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Hexavalent Chromium	0.26		0.010	mg/L	0.249	0.0094	102	75-125			

Matrix Spike Dup (1I09012-MSD1) Prepared & Analyzed: 09/09/2011 11:16

Source: C110855-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Hexavalent Chromium	0.26		0.010	mg/L	0.249	0.0094	102	75-125	0	20	

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 1I14016 - NO PREP

Blank (1I14016-BLK1) Prepared: 09/14/2011 10:57 Analyzed: 09/15/2011 10:40

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Hexavalent Chromium	0.16	U	1.0	mg/kg wet							

LCS (1I14016-BS1) Prepared: 09/14/2011 10:57 Analyzed: 09/15/2011 10:40

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Hexavalent Chromium	10		1.0	mg/kg wet	10.0		102	84-124			

Matrix Spike (1I14016-MS1) Prepared: 09/14/2011 10:57 Analyzed: 09/15/2011 10:40

Source: C110855-11

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Hexavalent Chromium	11		1.1	mg/kg dry	11.1	0.50	99	84-124			

Matrix Spike Dup (1I14016-MSD1) Prepared: 09/14/2011 10:57 Analyzed: 09/15/2011 10:40

Source: C110855-11

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Hexavalent Chromium	11		1.1	mg/kg dry	11.3	0.50	94	84-124	3	11	

FLAGS/NOTES AND DEFINITIONS

B	The analyte was detected in the associated method blank.
D	The sample was analyzed at dilution.
J	The reported value is between the laboratory method detection limit (MDL) and the laboratory method reporting limit (MRL), adjusted for actual sample preparation data and moisture content, where applicable.
U	The analyte was analyzed for but not detected to the level shown, adjusted for actual sample preparation data and moisture content, where applicable.
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate.
MRL	Method Reporting Limit. The MRL is roughly equivalent to the practical quantitation limit (PQL) and is based on the low point of the calibration curve, when applicable, sample preparation factor, dilution factor, and, in the case of soil samples, moisture content.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QM-08	Post-digestion spike did not meet method requirements due to confirmed matrix effects (dilution test).
QM-11	Precision between duplicate matrix spikes of the same sample was outside acceptance limits.

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

10775 Central Port Dr.
Orlando, FL 32824
(407) 826-5314 Fax (407) 850-6945

4810 Executive Park Court, Suite 211
Jacksonville, FL 32216-6069
(904) 296-3007 Fax (904) 296-6210

102-A Woodwinds Industrial Ct.
Cary, NC 27511
(919) 467-3090 Fax (919) 467-3515

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Page ____ of ____

Client Name: Shield Engineering, Inc. (SH007)	Project Number: 1110051-02
Address: 4301 Taggart Creek Road	Project Name/Desc: Parcel # 09084036
City/ST/Zip: Charlotte, NC 28208	PO # / Billing Info
Tel: (704) 394-6913 Fax: (704) 394-6968	Reporting Contact: David Wallace
Sampler(s) Name, Affiliation (Print): DANNY HEFNER, SHIELD ENGR	Billing Contact: Accounts Payable
Sampler(s) Signature: [signature]	Site Location / Time Zone: NC

Requested Analyses

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

___ Standard

___ Expedited

Due ___/___/___

Lab Workorder: C110554

Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	% Solids, Ag, As, Be, Cd, Cr, CrVI, Cu, Hg, Ni, Pb, Sb, Se, Tl, Zn	8260B	Ag, As, Be, Cd, Cr, Cu, Ni, Pb, Sb, Se, Se, Tl, Zn	CrVI	Hg						Sample Comments
	PMW-1	9/6/11	1540		WA	5		X	X	X	X						
	~~PMW-2~~ DWH 9/6/11				~~WA~~	~~5~~		~~X~~	~~X~~	~~X~~	~~X~~						
	PMW-3	9/6/11	1604		WA	5		X	X	X	X						
	PMW-4	9/6/11	1620		WA	5		X	X	X	X						
	PMW-5	9/6/11	1645		WA	5		X	X	X	X						
	PMW-6	9/6/11	1700		WA	5		X	X	X	X						
	~~PMW-7~~ DWH 9/6/11				~~WA~~	~~5~~		~~X~~	~~X~~	~~X~~	~~X~~						
	PMW-4D	9/6/11	1625		DWH ~~WA~~	5	DWH ~~X~~	X	X	X	X						
	RINSE BLANK	9/6/11	1450		DWH ~~WA~~	5	DWH ~~X~~	X	X	X	X						
					SO	5	X	X									
	Field Blank	9/6/11	16:35		WA	5		X	X	X	X						
	Trip Blank				WA	2		X									

<-- Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By	Date/Time	Received By	Date/Time
SPF	8/30/11	[signature]	9/6/11 1900	Briana Gregory	~~9/8~~ 9/7/11 16:40
Comments/Special Reporting Requirements: O-Phos received out of hold, due to lateness of delivery. Client will resample, cancelled on this COC. BSG 9/8/11		Relinquished By	Date/Time	Received By	Date/Time BSG
		Relinquished By	Date/Time	Received By	Date/Time
		Cooler #'s & Temps on Receipt: C-3604 C-6 3.1°C		Condition Upon Receipt: X Acceptable ___ Unacceptable	

Matrix : GW-Groundwater SO-Soil DW-Drinking Water SE-Sediment SW-Surface Water WW-Wastewater A-Air O-Other (detail in comments) Preservation: I-Ice H-HCl N-HNO3 S-H2SO4 NO-NaOH O-Other (detail in comments)

Note : All samples submitted to ENCO Labs are in accordance with the terms and conditions listed on the reverse of this form, unless prior written agreements exist

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

10775 Central Port Dr. Orlando, FL 32824 (407) 826-5314 Fax (407) 850-6945
4810 Executive Park Court, Suite 211 Jacksonville, FL 32216-6069 (904) 296-3007 Fax (904) 296-6210
102-A Woodwinds Industrial Ct. Cary, NC 27511 (919) 467-3090 Fax (919) 467-3515

Page 1 of 1

Client Name: SHIELD ENGINEERING	Project Number: 1110051-02
Address: 4301 TAGGART CREEK RD	Project Name/Desc: PARCEL 09094036
City/ST/Zip: CHARLOTTE, NC 28208	PO # / Billing Info:
Tel: 704-394-6913 Fax: 704-394-6968	Reporting Contact: DAVID WALLACE
Sampler(s) Name, Affiliation (Print): DANNY HEFNER, SHIELD ENGR	Billing Contact: ACCOUNTS PAYABLE
Sampler(s) Signature: [signature]	Facility # (if required): NC

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

___ Standard

___ Expedited

Due ___/___/___

Lab Workorder: C110855

Requested Analyses / Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	Cr VI	8260 B	Ag, As, Be, Cd, Cr, Cu, Ni, Pb, Sb, Se, Tl, Zn.	Hg	8270 B, Ag, As, Be, Cd, Cr, Cr VI, Cu, Hg, Ni, Pb, Sb, Se, Tl, Zn.	PCB's					Sample Comments
	PMW-1	9-8-11	1645	GRAB	GW	1	X										
	PMW-3		1705			1	X										
	PMW-4		1714			1	X										
	PMW-4D		1718			1	X										
	PMW-5		1721			1	X										
	PMW-6		1732			1	X										
	PMW-7		1733			5	X	X	X	X							
	PMW-2		1750			5	X	X	X	X							
	RINSE BLANK		1630			5	X	X	X	X							
	SPMW-1		1425		SO	1						X					
	SPMW-2		1343		SO	2					X	X					
	SPMW-3		1356		SO	1						X					

<-- Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By	Date/Time	Received By	Date/Time
		[signature]	9/9/11 2000	[signature]	9/9/11 9:48
Comments		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time

Cooler #'s & Temps on Receipt: C264 5.5°C

Condition Upon Receipt: X Acceptable ___ Unacceptable

Matrix : GW-Groundwater SO-Soil SE-Sediment SW-Surface Water WW-Wastewater A-Air O-Other (detail in comments)

Preservation: I-Ice H-HCl N-HNO3 S-H2SO4 NO-NaOH O-Other (detail in comments)

Note : All samples submitted to ENCO Labs are in accordance with the terms and conditions listed on the reverse of this form, unless prior written agreements exist