September 16, 2013
Project No.: 2339353-03-00

SITE INVESTIGATION AND REMEDIATION WORK PLAN

128(a) IFA GRANT FOR SUPPLEMENTAL ASSESSMENT OF Former Carpenter Manufacturing Site 1100 Industries Road Richmond, Indiana Brownfields Site # 4020031

Funded by:

U.S.EPA by 128(a) Brownfield Grant to the Indiana Finance Authority/Indiana Brownfields Program

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EXECUTIVE SUMMARY

Weaver Boos Consultants, LLC (Weaver Boos) has prepared this Site Investigation/Remediation Work Plan (SI/RWP) on behalf of the Indiana Brownfields Program (IBP) for the former Carpenter Manufacturing Company (Carpenter) Site located in Richmond, Wayne County, Indiana. The SI/RWP is funded by the United States Environmental Protection Agency via 128(a) Brownfield Grant to the Indiana Finance Authority/Indiana Brownfields Program (IFA/IBP).

The purpose of this SI/RWP is to provide a plan for remediating petroleum hydrocarbons found intruding the sanitary sewer system by the Richmond Sanitary District in early 2011 when an adjoining property owner complained of gasoline-like odors in his residence.

The current Site Investigation and historical environmental assessments indicate that groundwater and the subsurface soil are affected by elevated concentrations of aromatic hydrocarbons (benzene, toluene, ethylbenzene, xylenes, and others) and polycyclic aromatic hydrocarbon (naphthalene). Additionally, 3.15 ft of light non-aqueous phase liquid (LNAPL) with an appearance and odor of weathered gasoline also accumulated in monitoring well WB-8. Insomuch as none of the current light industrial tenants occupying the Site are known to store or dispense motor fuel, and whereas Carpenter (and its predecessor(s)) formerly did so, the petroleum hydrocarbons are presumed to originate from historical activities at the Site. An underground tank system formerly used to store gasoline was formerly located near where the highest concentrations of petroleum hydrocarbons were encountered.

Subsurface conditions at the Site are characterized by a 10 ft to 15 ft of silty clay till underlain by one or more thin layers of hydraulically conductive medium to coarse sand and fine gravel, which is in turn underlain by additional silty clay. The layers of sand and fine gravel generally occur between about 10 ft and 18 ft below ground surface (bgs) and bear groundwater under slightly confined conditions measured at between 9 ft and 14 ft bgs. The shallow groundwater flows through the sand and gravel towards the south-southeast where it appears to be intercepted (at least in part) by a relatively deep sanitary sewer line trench located beneath Enterprise Avenue, 200 ft to 300 ft downgradient from where the highest concentrations of petroleum hydrocarbons were detected in monitoring wells WB-1, WB-8, and P-22. After the contaminated groundwater enters the sewer line backfill, which is presumed to include hydraulically conductive backfill, it appears to flow west-southwesterly to sanitary sewer Manhole #8 where it has been observed to enter the manhole through an opening in its barrel. After the petroleum hydrocarbons enter the sanitary sewer at or near Manhole #8, they are conveyed southerly by a collector and continue south through Manhole #046 and beyond. A lateral from the collector to the private residence located several hundred feet further south is

believed to have conveyed petroleum vapors to the residence. Weaver Boos understands that the lateral to the residence had no trap, but has since been fitted with a trap and therefore, petroleum odors are no longer present. However, the petroleum hydrocarbons still enter the sewer system where they are conveyed to the Richmond Sanitary District, an obviously undesirable and potentially unsafe condition. Additionally, the LNAPL and elevated concentrations of volatile aromatic hydrocarbons poses a risk of vapor intrusion to office buildings located at the south-central part of the former Carpenter building.

The shallow sand aquifer beneath approximately 2 acres of the Site appears to be affected (or potentially affected) by elevated concentration of petroleum hydrocarbons. The hydrocarbons are vertically confined to a thin sand and gravel aquifer layer occurring between about 10 ft and 18 ft bgs. High-vacuum dual-phase extraction (HVDPE) of groundwater and soil vapor has been found to be the most appropriate among several remedies and is expected to be capable of mitigating the current risks in the short term and permanently removing them over a longer term. Hydraulic calculations indicate a radius of influence extending slightly more than 100 ft from a HVDPE well under the conditions specific to the Site. Six HVDPE wells should therefore be sufficient to provide coverage of the affected part of the Site. Each well is expected to yield between about 0.8 and 3.1 gallons per minute (gpm) for a total system flow ranging from 4.8 gpm to 19 gpm. Flows will likely be greatest when the operation is initiated and then decline owing to drainage and presumed limited recharge of the shallow confined aquifer.

The aqueous discharge will initially contain highly elevated concentrations of aromatic hydrocarbons and will require treatment before it can be discharged. The Richmond Sanitary District has indicated in discussions that groundwater can be discharged to the sanitary sewer system provided that it has been treated to non-detectable levels of organic compounds. Air stripping is proposed as primary treatment, with carbon polishing proposed as secondary treatment if it is found necessary. The vapor phase emission will initially be very concentrated, possibly ignitable, and therefore will be treated until the emission concentrations and total emissions decline to de minims levels.

Experience with similar remedial operations indicates that the HVDPE system will need to be operated on the order of two years to achieve its maximum benefit. Groundwater concentrations, exhaust emissions, and water treatment efficiency will be monitored during active remediation and quarterly reports prepared to assess the performance of the remedy. Low levels of residual hydrocarbons will remain after remediation is completed to the extent practicable, and so groundwater monitoring will continue on a quarterly basis for at least one year after active remediation has ended. When the remediation objectives are met, the subsequent report will be prepared to include a description of remediation completion.

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FORMER CARPENTER MANUFACTURING SITE

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1.0 INTRODUCTION

1.1 Project Background

Weaver Boos Consultants, LLC (Weaver Boos) has prepared this Site Investigation/Remediation Work Plan (SI/RWP) on behalf of the Indiana Brownfields Program (IBP) for the former Carpenter Manufacturing (Carpenter) Site located in Richmond, Wayne County, Indiana as shown on **Figure 1**. The SI/RWP is funded by the United States Environmental Protection Agency via 128(a) Brownfield Grant to the Indiana Finance Authority/Indiana Brownfields Program (IFA/IBP). This work was authorized by the IBP's Project Amendment #6 approving Weaver Boos Proposal No. WBCP-003-00-13 on January 24, 2013. The scope of work was subsequently increased under our April 26, 2013 proposed change order WBCP-003-00-13A on May 16, 2013.

The purpose of this SI/RWP is to provide a plan for remediating petroleum hydrocarbons found intruding the sanitary sewer system by the Richmond Sanitary District in early 2011 when an adjoining property owner complained of gasoline-like odors in his residence. The specific objectives of the RWP include the following:

1. Describe and summarize the data and information characterizing the current environmental condition of the Site.

2. Assess potential risks associated with current conditions based on the soil and groundwater Screening Levels (SLs) listed in the Indiana Department of Environmental Management's (IDEM) Remediation Closure Guide (RCG).

3. Identify remedial action objectives for specific environmental media (i.e., soil and groundwater).

4. Identify and select an appropriate remedy for conditions and risks posed by the Site consistent with its proposed redevelopment.

5. Provide a specific plan for implementing the remedy, including a monitoring plan and schedule.

Because the Brownfields Program does not provide specific guidance for developing a RWP, this plan is organized and presented in general accordance with the Remediation Work Plan outline listed in State Form 53413, "Remediation Work Plan Completeness Checklist" used for evaluating similar plans under the Voluntary Remediation Program (VRP). The remediation objectives and remediation plan listed herein are based on the Remediation Closure Guide

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(RCG) non-rule policy that came into effect on March 22, 2012 and therefore reflect the IDEM's current risk-based corrective action non-rule policy.

This **Section 1.0** of the SI/RWP introduces the Site and provides an overview of environmental impact to soil or groundwater based on review of historical data and information. **Section 2.0** provides background information and presents a baseline project assessment. **Section 3.0** describes the methods of investigation used during the Site Investigation in 2011, 2012, and 2013, thus providing a statement of work. **Section 4.0** presents the results of the Site Investigation. Conclusions supported by the Site Investigation are provided **Section 5.0**. **Section 6.0** provides the remediation plan, including an evaluation of remedial alternatives, the selected remedial technologies, the sampling plan, and project schedule. **Section 7.0** provides certain assumptions, qualifications, and limitations regarding site characterization and remedial design. References cited are listed in **Section 8.0**. Supporting data and information are summarized and presented on the figures and tables and appended in greater detail.

1.2 Project Identification

The Site is located at the interchange of Interstate 70 and U.S. Hwy 35 as shown on the U.S. Geological Survey topographic provided as **Figure 1**. The property included approximately 93 acres bounded on the north by Interstate 70, on the west by U.S. Hwy 35, on the south by Industries Road, and on the east by private property. An approximately 500,000 ft^2 manufacturing building is located near the center of the Site. The area of interest under this SI/RWP is illustrated on **Figure 2**. The current owner is as follows:

MRJ3, LLC
c/o: Richard E. Jeffers
3501 Geraldine Lane
Richmond, IN 47374
(812) 969-2411

1.3 Historical Environmental Investigations

1.3.1 1991 through 1996

Environmental conditions at the Site have been previously assessed several times between 1991 and 1996. The Site was enrolled into Indiana's Voluntary Remediation Program (VRP) in 1994. As described in the Phase II Investigation Report by Hull & Associates, Inc. (Hull) dated October 24, 1996, historical environmental assessments of the Site included the following:

1. Environ Corporation, 1991, Phase I Environmental Site Assessment.

2. Hull & Associates, Inc., 1992, Phase II Environmental Site Assessment (1st Sampling Event).

3. Hull & Associates, Inc., 1993, Phase II Environmental Site Assessment (2nd Sampling Event).

4. Hull & Associates, Inc., Phase II Environmental Site Assessment (3rd Sampling Event).

5. Hull & Associates, Inc., Phase II Environmental Site Assessment (4th Sampling Event).

Information reported by Hull (1996) summarizes the above-listed reports and describes the results obtained from 61 soil borings and 42 monitoring wells. An extensive excerpt from Hull (1996) is provided herein in **Appendix A**. Hull's investigations focused on four areas of the Site as illustrated in Hull's Plate 2 and also on **Figure 2** of this report:

1. Area A – The north above ground tanks (ASTs) and associated piping storing naphtha and "Wayne 50/50".

2. Area B – The west ASTs and associated piping storing butyl acetate and lacquer thinner.

3. Area C – Underground tanks (USTs) storing gasoline and diesel fuel directly east of the front office.

4. Area D – USTs storing gasoline and diesel fuel south of the front office, just south of what is now Enterprise Avenue.

Hull's soil borings extended to a maximum depth of 75 ft bgs and encountered glacial till sediments comprised mostly of silty clay. Water-bearing sand seams were encountered interbedded within the till at several elevations. A sand seam approximately 15 to 18 ft bgs was reported to be fairly continuous beneath broad areas of the Site. Chlorinated aliphatic hydrocarbons such as 1,1,1-trichloroethane and trichloroethene were found in Area A along with lesser concentrations of aromatic hydrocarbons such as benzene. Aromatic hydrocarbons were the primary contaminants detected in Areas B and C. Only trace concentrations of aromatic hydrocarbons were detected in Area D. The highest benzene concentrations detected by Hull in each of the four areas are listed on **Figure 2**. Groundwater in the sand seam at 15 to 18 ft bgs was reported to flow generally southerly, where it converged towards Manhole #8 aligned along a historic drainage swale as also illustrated.

Hull's (1996) Site Investigation reported that the contamination was confined within the property boundaries of the Site. Hull further reported that all potential sources (ASTs, USTs, and piping) were emptied and secured against future use, and concluded that all source areas were eliminated

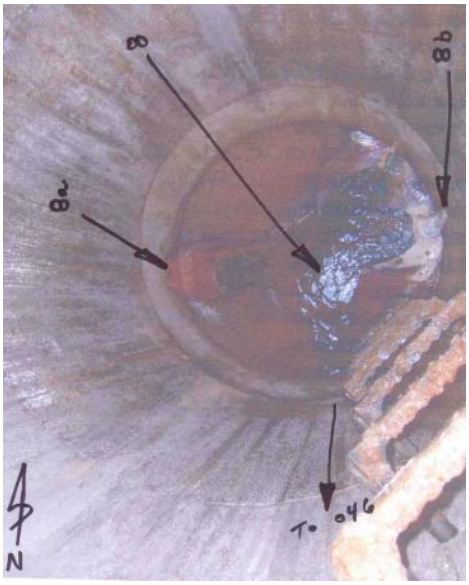
and future increase(s) in groundwater contaminant concentrations were unlikely. Preliminary remedial alternatives proffered by Hull focused primarily on contaminant fate and transport modeling and establishment of institutional controls to mitigate future exposure.

1.3.2 1996 through 2004

According to the Remediation Work Plan for the Former Wayne Corporation/Carpenter Manufacturing Facility dated February 2004 prepared by Clayton Environmental, the environmental due diligence process was continued at the Site by further soil and groundwater investigations. Clayton conducted remedial activities at the Site in an attempt to eliminate the risk to human health and the environment; the remedial activities included groundwater bioattenuation via chemical injection of sodium lactate. Clayton has since performed quarterly groundwater monitoring at the Site to assess the effectiveness of the bioattenuation in impacted wells. The areas of the continued environmental due diligence and remedial activities have been focused within and on the north side of the on-site building. Weaver Boos understands that Site was eventually withdrawn from the VRP without obtaining a certificate of completion of covenant not to sue.

1.3.3 Early 2011

According to the IFA/IBP, a nearby property owner's complaint prompted the Richmond Sanitary District to investigate and consequently identify two manholes on the Site as being contaminated with petroleum products. The Sanitary District sampled Manholes #2, #3, #4, #5, #6, #7, #8, #9, and #046 located as shown on **Figure 2** for benzene, toluene, ethylbenzene, total xylenes (BTEX), and methyl-tert-butyl ether (MTBE) between February 24 and March 3 2011.



Sewer Manhole # 8

At Manhole #8, samples were collected from three parts of the flow in the manhole, including "8" representing the collective flow, "8a" representing in-flow from the west, and "8b", believed to represent a seep of groundwater into the manhole. Sample "8" collected from the bottom of the manhole indicated benzene at 29 ug/L, while Sample "8b" indicated benzene at 42 ug/L. No BTEX or MTBE were detected in 8a, indicating no contribution from the western leg of the sewer. Furthermore, no BTEX or MTBE were detected in samples collected from manholes #2, #3, #4, #5, #6, #7, or #9, indicating no

contribution from the western or eastern legs of the sewer system. The apparent seep represented by sample "8b" appears to be benzene's point of entry based on these results. Manhole #046, located downstream from # 8 also indicated benzene at 11 ug/L. Ethylbenzene, total xylene, and MTBE were detected along with the benzene at 11 ug/L to 25 ug/L, suggesting gasoline as the source of the petroleum hydrocarbons.

Weaver Boos began work at the Site by meeting with representatives of the Richmond Sanitary District to discuss their findings regarding the manholes. We observed the interiors of the affected manholes on May 24, 2011. Our observation of the interior of Manhole #8 indicates that BTEX-containing influent identified by the Richmond Sanitary District originates as groundwater intrusion to the manhole. BTEX-affected groundwater therefore appears to be of greatest interest in identifying a source.

1.3.4 2011-2013 Site Investigation

The most recent phases of investigation were completed by Weaver Boos during 2011, 2012, and 2013, culminating in this SI/RWP report. The 2011 - 2013 Site Investigation activities were funded by the U.S. Environmental Protection Agency (U.S. EPA) through its Section 128(a) Brownfields Grant program and implemented in accordance with the Quality Assurance Project Plan (QAPP) initially approved by the U.S. EPA in 2011 and subsequently updated and again approved during 2012 and 2013. Our work was conducted in several phases according to the following plans:

1. June 22, 2011 Sampling and Analysis Plan (SAP), Revision 1, which was approved by U.S. EPA in electronic correspondence, dated June 28, 2011.

2. August 10, 2012 SAP for Supplemental Assessment, approved on August 10, 2012.

3. February 26, 2013 SAP approved on March 7, 2013.

4. May 30, 2013 SAP Addendum No. 1 approved on May 30, 2013.

The overall scope of the multi-phase SI scope of work included 28 soil probes, the majority of which were completed and sampled as temporary groundwater monitoring wells. Nine (9) additional soil probes were completed as long-term 2-inch diameter groundwater monitoring wells. The soil probes, temporary, and long-term groundwater monitoring wells were advanced and completed at the locations illustrated on Figure 2. Subsurface soil was sampled at 19 separate locations or intervals, and 27 groundwater samples were collected to characterize the

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nature, concentration, and extent of petroleum hydrocarbon constituents throughout the affected portion of the Site subsurface.

The methods of investigation for the current Site Investigation are described in detail in **Section 3.0** and the results obtained are described in **Section 4.0**. The overall results for the SI indicate that the thin, shallow sand aquifer beneath approximately 2 acres of the Site at depths of 10 to 18 ft bgs is affected (or potentially affected) by elevated concentration of petroleum hydrocarbons. The contaminants of concern include aromatic hydrocarbons (benzene, toluene, ethylbenzene, xylenes, and others) and polycyclic aromatic hydrocarbons (naphthalene). Additionally, 3.15 ft of light non-aqueous phase liquid (LNAPL) with an appearance and odor of weathered gasoline also accumulated in monitoring well WB-8, located next to the front office of the former Carpenter facility. Groundwater within the shallow aquifer flows south-southeasterly for 200 to 300 ft where it is intercepted (at least in part) by the deep sanitary sewer line trench located beneath Enterprise Avenue. Benzene continues to be detected in Manhole #8.

1.4 Remedial Action Objectives

Performance-based and numerical remedial action objectives are proposed for mitigation of the contamination beneath parts of the former Carpenter Site as described herein. If the numerical objectives are met, the performance objectives are also expected to be achieved.

1.4.1 Performance-Based Remedial Action Objectives

Performance-based remedial action objectives focus on the removal of contaminants and mitigation of current and future potential exposure or continued migration. These objectives are qualitative, yet are considered primary for the success of the remedial action:

1. LNAPL free product will be removed to the extent practicable, and will be reduced to not more than a sheen as observed in the groundwater monitoring wells.

2. Groundwater containing detectable concentrations of BTEX or related petroleum hydrocarbons intruding the sanitary sewer system will be eliminated.

3. Potential or future potential for the intrusion of BTEX vapors into on-site or off-site buildings will be eliminated.

1.4.2 Numerical Remedial Action Objectives

The Indiana Department of Environmental Management's Remediation Closure Guide (RCG) provides numeric remedial action objectives in the form of screening levels (SLs) for the relevant exposure routes and land uses. Land use at the Site is currently commercial/industrial,

and is expected to remain so for the foreseeable future. Specific SLs supporting the primary performance-based objectives will therefore include the following:

1. Soil - Commercial/Industrial Direct Contact
2. Soil - Excavation Worker Direct Contact
3. Soil - Residential Soil Migration to Groundwater
4. Groundwater - Commercial/Industrial Vapor Exposure
5. Groundwater – Residential Tap

The remedial objectives listed below for contaminates of concern detected at concentrations above applicable soil SLs will provide numerical remedial objectives for soil as follows:

Soil Remedial Action Objectives

Applicable Numerical Remediation Objectives for Site Soil	Units	Benzene	Ethylbenzene	n-Hexane	Naphthalene	n-Propylbenzene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Xylenes (Total)
Commercial/Industrial SLs	µg/kg	54,000	270,000	140,000	180,000	260,000	220,000	180,000	260,000
Excavation SLs	µg/kg	750,000	480,000	140,000	1,000,000	260,000	220,000	180,000	260,000
Soil MTG Residential SLs	µg/kg	51	16,000	34,000	92	20,000	440	2,500	200,000

Screening Levels (SLs) Remediation Closure Guide (RCG) Appendix A, with corrections through March 1, 2013.

The remedial objectives listed below for contaminates of concern detected at concentrations above applicable groundwater SLs will provide numerical remedial objectives for groundwater as follows:

Groundwater Remedial Action Objectives

Applicable Numerical Remediation Objectives for Site Groundwater	Units	Benzene	2-Chlorotoluene	Ethylbenzene	n-Hexane	Methyl-tert-butyl ether (MTBE)	Naphthalene	n-Propylbenzene	Toluene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl chloride	Xylenes (Total)
Res. Tap Water SLs	µg/L	5	180	700	250	120	1.4	530	1,000	15	87	2	10,000
Com/Ind Vapor SLs	µg/L	120	---	---	---	---	460	---	---	---	---	35	---

Screening Levels (SLs) Remediation Closure Guide (RCG) Appendix A, with corrections through March 1, 2013.

1.5 Summary of Remedial Work Plan

High-vacuum dual-phase extraction (HVDPE) of groundwater and soil vapor will be used to remediate the soil and groundwater. Hydraulic calculations indicate a radius of influence extending slightly more than 100 ft from a HVDPE well under the conditions specific to the Site. Six HVDPE wells should therefore be sufficient to provide coverage of the affected part of the Site. Each well is expected to yield between about 0.8 and 3.1 gallons per minute (gpm) for a total system flow ranging from 4.8 gpm to 19 gpm. Flows will likely be greatest when the operation is initiated and then decline owing to drainage and presumed limited recharge of the shallow confined aquifer.

The aqueous discharge will initially contain highly elevated concentrations of aromatic hydrocarbons and will require treatment before it can be discharged. The Richmond Sanitary District has indicated in discussions that groundwater can be discharged to the sanitary sewer provided that is treated to non-detectable levels of organic compounds. Air stripping is proposed as primary treatment, with carbon polishing proposed as secondary treatment, if it is found necessary. The vapor phase emission will initially be very concentrated, possibly ignitable, and therefore will be treated until the emission concentrations and total emissions decline to de minims levels.

Experience with similar remedial operations indicates that the HVDPE system will need to be operated on the order of two years to achieve its maximum benefit. Groundwater concentrations,

exhaust emissions, and water treatment efficiency will be monitored during active remediation and quarterly reports prepared to assess the performance of the remedy. Low levels of residual hydrocarbons will remain after remediation is completed to the extent practicable, and so groundwater monitoring will continue on a quarterly basis for at least one year after active remediation is ended. When the remediation objectives are met, the subsequent report will be prepared to include a description of remediation completion.

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2.0 SITE BACKGROUND

2.1 Site History

Historical records reported by Hull (1996) indicate that the Site was used for agricultural purposes prior to its development by the Wayne Corporation as a bus manufacturing facility in 1967. The Carnegie Pension Fund owned the Site from 1967 until 1993. The Site was occupied during this period by the Wayne Corporation who rented it or leased it out for the manufacturing of bus bodies. The City of Richmond purchased the Site in 1993 and leased it to Carpenter Manufacturing, who also manufactured school buses there until going out of business in October 2000. The City of Richmond subsequently sold the Property to MRJ3, LLC who leases portions of the facility to several light industrial and transportation-related tenants, including a school for over-the-road truck drivers.

2.2 Geologic Information

2.2.1 Surficial and Unconsolidated Geology

The Site is in the central part of the New Castle Till Plains and Drainageways Physiographic Division of the Central Till Plain region (Gray, 2000). The New Castle Till Plains and Drainageways Physiographic Division near the study area is characterized by thin deposits of till (less than 50 ft to 100 ft thick), terminal moraine deposits (Gray, 2000; Woodfield, 1994), and valleytrain deposits where tributaries of the Whitewater River have incised valleys. The unconsolidated geology at the Site is mapped as till consisting mainly of ground moraine deposits of the Trafalgar Formation according to Gray, et al. (1972).

2.2.2 Bedrock Geology

Bedrock beneath the Site is mostly shale of the Orodvician-age Maquoketa Group. Limestone in the upper part of the Group may yield small and uncertain quantities of water from joints and solution cavities. Shale forming the majority of the Group is of very low permeability and does not yield water (Gray, 1973).

2.2.3 Hydrogeology

The Site is located in an upland area between the Nolands and East Forks of the Whitewater River which flows generally southerly. The area is underlain by the Wayne-Henry Aquifer System, which is an intra-till system characterized by thin sand and gravel aquifer zones contained within silty clay sequences of variable thickness. The system is thicker than 75 ft

beneath the Site as indicated by Hull (1996) in its deepest soil borings. The productive zones in this aquifer system are usually less than 10 ft thick and generally adequate for domestic supply purposes (IDNR, 1988).

The Site is located about equidistant between two creek or stream tributaries. The inferred direction of subsurface groundwater flow is radial from the Site towards the southwest, south, and southeast. The drainage through the sewer system also appears to be southerly, consistent with the slope of the land.

2.3 Preliminary Evaluation of Potentially Susceptible Areas

2.3.1 Geologic

According to the IDNR (1988), the thin aquifer zones within the Wayne-Henry Aquifer System are usually confined above and below by thick sequences of till, and are not particularly susceptible to contamination owing to surface spills. Weaver Boos does not know the area to be characterized by karst terrain, sinkholes, or other particularly geologically susceptible features.

2.3.2 Wellhead Protection Areas

Potable water for the City of Richmond is obtained largely from groundwater wells located along the Middle and East Forks of the Whitewater River, several miles southeast and east, respectively from the Site. Weaver Boos inquired with City of Richmond as to whether the Site is located within a wellhead protection area. According to the City Planner and another member of the City staff, the Site is not located within a regulated wellhead protection area. Our inquiry and responses are documented as shown in **Appendix B**.

Weaver Boos searched the Indiana Department of Natural Resources online water well database for wells located near the Site and tabulated and mapped the results as shown in **Appendix B**. Based on our review of nearby water well record listings and mapping of their locations during 2012, Weaver Boos identified fifty-one (51) low capacity water wells appearing to be located within approximately 1.0 mile from the Site. Seventeen (17) high-capacity wells were identified within a 2-mile radius of the Site. Based upon our review of their locations as mapped, none of these nearby water wells is believed likely to be influenced by the petroleum hydrocarbons identified in the shallow subsurface beneath the Site.

2.3.3 Social

The Site is located within an area used for residential, commercial, industrial, and institutional purposes and may include socially sensitive areas. Specifically, a residence directly south of the

facility complained about petroleum odors appearing to emanate from the sanitary sewer. The Asera Care Hospice Center appears to be located approximately ¼ mile southwest of the Site, as is a moderately large concentration of single-family homes.

2.3.4 Ecological

With regard for ecologically susceptible areas, the Site is built over, paved, or mowed and offers little in the way of quality wildlife habitat. Lands adjoining the Site are generally fully developed for residential, commercial, industrial, or institutional land uses and are therefore unexpected to offer quality ecological habitat. No specific ecologically susceptible areas were identified based on this preliminary review.

2.4 Contaminants of Concern

The contaminants of concern identified during the SI include aromatic and polyaromatic hydrocarbons typically found in gasoline, and to a lesser extent, diesel fuel. The following specific contaminants were detected in groundwater and soil of the thin, shallow aquifer layer at depths of about 10 to 18 ft bgs:

1. Benzene
2. 2-Chlorotoluene
3. Ethylbenzene
4. n-Hexane
5. Methyl-Tert-Butyl Ether
6. Naphthalene
7. n-Propylbenzene
8. Toluene
9. 1,2,4-Trimethylbenzene
10. 1,3,5-Trimethylbenzene
11. Vinyl Chloride (at 2.3 ug/L in a single groundwater sample)
12. Xylenes

2.5 Preliminary Evaluation of Contaminant Transport Mechanisms

Results of the SI indicate that contaminant transport is dominated by groundwater advection and dispersion along preferred pathways both natural and manmade. The thin sand and gravel aquifer occurring at 10 to 18 ft bgs provides a natural preferred migration pathway for south-southeasterly horizontal migration. The deep sewer line trench beneath the centerline of Enterprise Avenue appears to provide a manmade preferred path of migration. Groundwater is believed to be intercepted by the trench backfill, where it is conveyed west-southwesterly towards Manhole #8 where it appears to intrude. The sanitary sewer is itself a manmade preferred transport pathway, carrying the contaminants of concern down stream from the site as hydraulic flow and vapor within the system.

2.6 Preliminary Evaluation of Potential Human Exposure Pathways

Environmental conditions at the Property, current land use, and anticipated future land use suggest that the following human exposure routes may be relevant for the indicated media and potentially exposed populations:

1. Direct contact with subsurface soil by industrial or construction workers during maintenance or construction projects.
2. Ingestion of groundwater by future users of water wells that might be drilled at the Site.
3. Transport of contaminated groundwater that intrudes the sewer system.
4. Vapor intrusion to indoor air of the former Carpenter front office building and possibly into other buildings connected to the downstream reaches of the sanitary sewer system.

2.7 Identification of Historical Data Gaps

Historical investigations previously described were extensive, yet did not reveal the presence or extent of petroleum hydrocarbon impacts to the shallow sand and gravel aquifer as determined during this SI. Additionally, the historical investigations did not identify or investigate preferred migration pathways such as the sanitary sewer system.

3.0 METHODS OF INVESTIGATION

3.1 Sampling and Analysis Plan

The approved SAPs (see **Section 1.3.4**) specify the purpose, objectives, scope of work, and methodologies for the Site Investigation activities described in this report. Field sampling and analytical protocol for the Site Investigation were conducted as specified in the approved 2011 QAPP and updated 2012 and 2013 QAPP, respectively. Pursuant to the approved plans, the following investigation activities were completed:

3.1.1 2011 Site Investigation Activities

1. Historical reports and information, including sampling data collected by the Richmond Sanitary District, were reviewed in an attempt to infer potential source(s) for the aromatic hydrocarbons detected in Manholes #8 and 046. Historical data and information are provided as **Appendix A**.

2. An electromagnetic geophysical survey was performed over selected parts of the Site on June 9, 2011. The survey was implemented using a Geonics EM-61 Time Domain Electromgnetic (TDEM) detector in an attempt to identify buried ferrous metal objects such as USTs. Cultural interference from other structures such as fire protection water lines, hydrants, electrical wiring, etc. generally limited the utility of the survey. The results for the electromagnetic survey were previously described in our Phase II Site Investigation Report dated August 25, 2011 and are not presented herein.

3. On July 6, 2011, EnviroCore, Ltd., advanced direct-push soil probes P-1 through P-8 under the supervision of a Weaver Boos geologist in areas north and northeast of sanitary Manhole #8 as illustrated on **Figure 2**. Soil samples were continuously collected at 4-foot intervals by hydraulically driving a hollow sampling tool into the underlying unconsolidated material. Weaver Boos observed, classified, field screened the soil cores using a photoionization detection (PID) and logged the holes as shown in **Appendix C**. One soil sample from probe P-3 was collected for laboratory analysis based on an elevated PID reading and the presence of an odor.

4. Temporary groundwater monitoring wells were installed in each of the soil probes. The temporary wells were constructed of 1-inch inner-diameter, flush-threaded, schedule 40 polyvinyl chloride (PVC), terminated with 5 feet of 0.010-inch slotted screen set into the saturated zone. Groundwater samples were collected from all eight of the wells on July 7, 2011 for laboratory analysis of volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs) and total petroleum hydrocarbons (TPH) gasoline range organics (GRO) and diesel range organics (DRO). Sampling of the monitoring wells was conducted using a pneumatic bladder pump for VOCs and TPH-GRO and disposable bailers were used to fill the remaining vessels in the bottle sets for SVOC and TPH-DRO analysis. The discrete groundwater samples, in addition to necessary quality

control/quality assurance (QA/QC) samples, were sealed, labeled, placed on ice, documented with a chain-of-custody form and shipped to the laboratory via overnight courier. Groundwater sampling field forms are included as **Appendix D**. The temporary monitoring well locations were subsequently surveyed as described in **Appendix E**.

3.1.2 2012 Site Investigation Activities

1. On August 15, 2012, EnviroCore, Ltd., advanced direct-push soil probes P-9 through P-19 under the supervision of a Weaver Boos geologist to explore the former UST cavity identified as Area C (see **Figure 2**), which was believed to represent a potential source of petroleum hydrocarbons. Soil samples were continuously collected at four-foot intervals. Weaver Boos examined each soil sample in the field for evidence of impacts (i.e. staining or odors), with various samples exhibiting odors, field screened the samples using a PID, and logged the holes as described in **Appendix C**.

2. Soil probe P-10 exhibited apparent shallow soil contamination due to elevated PID results (i.e. 52.8 ppm) in the intervals less than eight feet below ground surface (bgs). In consultation with the IFA/IBP Project Manager, eight additional shallow soil probes were advanced in proximity to P-10. This was done in an attempt to delineate of the area of potential contamination and subsequently aid in any remediation quantity estimates in the RWP. These additional probes were designated P-12 through P-19 and extended to 8 feet bgs.

3. Ten (10) soil samples plus the requisite field QA/QC samples were selected from the probes based on PID readings and submitted for VOCs, SVOCs, and TPH-GRO/DRO.

4. Temporary groundwater monitoring wells were installed in soil probes P-9, P-10, and P-11 and sampled for VOCs, SVOCs, and TPH-GRO/DRO using the same methods employed during 2011.

3.1.3 2013 Site Investigation Activities

Site investigation activities were conducted in two phases during 2013, the first of which included additional soil probes and temporary monitoring wells. The second phase was to install longer-term semi-permanent 2-inch groundwater monitoring wells to facilitate periodic performance monitoring during remediation.

1. On March 27, 2013, EnviroCore, Ltd., advanced direct-push soil probes P-22 through P-30 under the supervision of a Weaver Boos scientist to explore for petroleum hydrocarbons previously detected in temporary well P-6, along a line from Area C towards Manhole #8, and along the south side of Enterprise Avenue to further assess Area D as a potential source. Soil samples were continuously collected at four-foot intervals. Weaver Boos examined each soil sample in the field for evidence of impacts (i.e. staining or odors), with various samples exhibiting odors, field screened the samples using a PID, and logged the holes as described in **Appendix C**.

2. Soil samples were collected from depth intervals representing the shallow aquifer sand and gravel at probes P-22 through P-29 and submitted for VOC analysis.

3. Temporary groundwater monitoring wells were installed in soil probes P-22, P-24, P-25, P-26, P-28, P-29, and P-30 and sampled for VOCs using the pneumatic bladder pump on March 28, 2013. Additionally, the flow at the bottom of Mahnole #8 was also sampled for VOCs.

4. On June 4 and 5, 2013, EnviroCore, Ltd., advanced direct-push soil probes WB-1 through WB-9 under the supervision of a Weaver Boos scientist to explore the nature and extent of petroleum hydrocarbons prominently detected in temporary monitoring well P-22, P-25, P-26, P-29, and P-30 during the March 2013 field mobilization. Soil samples were continuously collected at four-foot intervals. Weaver Boos examined each soil sample in the field for evidence of impacts (i.e. staining or odors), with various samples exhibiting odors, field screened the samples using a PID, and logged the holes as described in **Appendix C**.

5. The direct-push probes WB-1 through WB-9 were each completed as 2-inch diameter semi-permanent groundwater monitoring wells with 10 ft of screen set to intersect the uppermost shallow aquifer layer encountered at each location. Construction diagrams are included on the probe logs provided in **Appendix C**. The wells were developed by bailing, and subsequently purged and sampled on June 6 using the pneumatic bladder pump. The groundwater samples were analyzed for VOCs.

6. The semi-permanent groundwater monitoring wells were surveyed and checked for free product using an interface probe on June 19, 2013. Monitoring well WB-8 showed particular evidence of free product when the bailer was found coated with LNAPL resembling weathered petroleum as it was developed on June 6.

3.2 Survey Control

Horizontal survey control for this work is North American Datum of 1983 (NAD83), Indiana State Plane East Zone. Survey control during 2011 was under the supervision of a Weaver Boos Licensed land surveyor using sub-centimeter GPS equipment. The 2012 work subtending only a small area of the Site was measured relative to the office building. Horizontal survey control during 2013 was performed using a 2-meter GPS unit and vertical survey control was by optical autolevel using soil probe P-3 as a benchmark. The survey results are provided in **Appendix D**.

3.3 Analytical Work

The investigational samples and required quality control/quality assurance (QA/QC) samples collected as part of this site investigation were submitted under chain of custody to Pace

Analytical Services, Inc. in Indianapolis. The analytical reports are provided in **Appendix F**. Analytical parameters analyzed during the SI included the following:

1. Volatile organic compounds (VOCs) via Methods 5035/8260;
2. Semi-volatile organic compounds (SVOCs) via Method 8270; and
3. Total petroleum hydrocarbons gasoline range organics/diesel range organics (TPH GRO/DRO) via Method 8015.

3.4 Field QA/QC Samples

Field QA/QC soil samples collected during the SI included one field duplicate and one matrix spike/matrix spike duplicate (MS/MSD) sample for each batch of up to 20 samples. Field QA/QC specific to groundwater sampling included the collection of one equipment blank for each batch of samples collected by running distilled deionized water through the sampling device. Sample coolers containing the samples to be analyzed for VOCs, also included a trip blank that was analyzed for VOCs. The trip blank was prepared by the laboratory and accompanied the sampling containers and samples beginning with their delivery to Weaver Boos and ending with their return to the laboratory.

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4.0 INVESTIGATION RESULTS

4.1 Subsurface Geology Investigation Results

Subsurface geologic conditions encountered during the SI are consistent with the professional literature and prior assessments of the Site. The soil types encountered during drilling included primarily silty clay till with one or sometimes two thin layers of medium to coarse sand and fine gravel. Orthogonal hydrogeological cross sections A-A' and B-B' crossing at monitoring well WB-8 where LNAPL free product was encountered during 2013 are provided on **Figure 3**.

Cross section A-A' shows the thin sand and gravel aquifer occurring at about 10 to 18 ft bgs and appearing to extend continuously in the downgradient flow direction from temporary groundwater monitoring well P-24 to monitoring well WB-7. We note that the fluid level measured in sanitary Manhole #9 is significantly lower than the head level of the thin aquifer beneath its base. This result indicates that groundwater would tend to flow into the sewer line or manhole through any discontinuities.

Cross section B-B' shows the same thin aquifer layer appearing to be discontinuous from monitoring wells WB-4 to WB-9. It is also noted that B-B' is approximately orthogonal to groundwater flow that would project from the page if it were so illustrated. Similar to A-A', the fluid level measured in sanitary Manhole #8 is lower than the surrounding groundwater, indicating that groundwater would tend to intrude into the manhole through any discontinuities in the sewer line or manhole barrel. Neither cross section attempts to illustrate the extent of the sanitary sewer line trench or backfill because its extent, depth, and texture have not been investigated.

4.2 Hydrogeology Investigation Results

Groundwater level elevations measured in monitoring wells WB-1 through WB-9 are listed on **Table 1** showing depths to groundwater on June 6 and June 19, 2013. The depth to groundwater ranges from 9.00 ft to 16.60 ft, with the deepest depth at WB-8 depressed by 3.15 ft of LNAPL. The "water level elevation" reported for WB-8 on Table 1 is corrected for the LNAPL assuming a specific gravity of 0.74 g/cm^3, which is typical for gasoline. Because we did not measure the density of the LNAPL, the corrected elevation remains uncertain and was not considered during potentiometric mapping.

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The groundwater flow direction on June 19, 2013 is indicated on the potentiometric surface map provided as **Figure 4**. Groundwater flow is south-southeasterly from the former Carpenter front office building towards Enterprise Avenue. A flow gradient is estimated along the direction of downgradient flow from monitoring well WB-2 towards WB-6 as (1,048.39 ft - 1,046.75 ft)/315 ft = 0.0052 ft/ft. The hydraulic conductivity of the thin sand and gravel aquifer was not measured during this SI, yet was previously measured by slug testing of numerous monitoring wells by Hull as reported in 1996. The geometric mean of slug test results reported by Hull for 18 monitoring wells is calculated as 23.55 ft/day. Assuming an effective porosity of 0.3 which is typical for sand and gravel aquifers, the horizontal groundwater flow velocity beneath the Site is estimated using Darcy's law as approximately (23.55 ft/day)(0.0052 ft/ft)/0.3 = 0.4 ft/day.

4.3 Laboratory Analytical Results

4.3.1 Soil Results

Soil results are compared with RCG SLs for VOCs on **Table 2-1**, SLs for SVOCs on **Table 2-2**, and former RISC Default Closure Levels for TPH on **Table 2-3**. They are also summarized on **Figure 5**. Soil probes indicating concentrations exceeding one or more contaminant-specific SL include P-14, P-22, and P-26. From soil probe P-14, the sample collected from shallow subsurface soil at 0 to 4 ft indicated naphthalene at 4,070 ug/kg, 1,2,4-trimethethylbenzene at 14,800 ug/kg, and 1,3,5-trimethylbenzene at 4,030 ug/kg. Other petroleum hydrocarbon compounds were also detected in P-14 at concentrations less than their applicable SLs, suggesting residual contamination following the reported removal of USTs formerly located at Area C.

From soil probe P-22, the sample collected from the sand and gravel aquifer matrix soil at 15 to 17 ft bgs indicated concentrations of several hydrocarbons at concentrations exceeding their respective SLs. These include benzene detected at 4,020 ug/kg, ethylbenzene at 65,800 ug/kg, n-hexane at 99,000 ug/kg, naphthalene at 26,400 ug/kg, n-propylbenzene at 26,600 ug/kg, 1,2,4-trimethylbenzene at 140,000 ug/kg, 1,3,5-trimethylbenzene at 46,000 ug/kg, and total xylenes at 284,000 ug/kg. Other petroleum hydrocarbon compounds were also detected in P-22 at concentrations less than their applicable SLs. Consistent with the hydrocarbons that were detected, this sample exhibited a strong odor similar to that of gasoline.

From soil probe P-25, the sample collected from the sand and gravel aquifer matrix soil at 12 to 16 ft bgs indicated benzene at 57.6 ug/kg, exceeding the migration to groundwater SL, and several other petroleum hydrocarbon compounds at concentrations less than their applicable SLs.

Consistent with the hydrocarbons that were detected, this sample exhibited a faint odor similar to gasoline.

Petroleum hydrocarbon compounds were also detected in soil samples from several other soil probes, but their concentrations were below all of the SLs. Soil results for samples collected during the SI are mapped to the Site as illustrated on **Figure 5**. The isoconcentration line of 51 ug/kg for benzene is shown to illustrate the inferred lateral extent of contamination exceeding its applicable SL for soil migration to residential groundwater. This SL is considered relevant as a means for assessing continued future intrusion into the sanitary sewer system at detectable concentrations that the Richmond Sanitary District has stated are impermissible. Although one sample (P-14 (0 to 4 ft bgs)) exceeded the migration to groundwater SL for naphthalene and trimethylbenzene, this is not regarded as particularly significant because the contamination is positioned well above the groundwater level and these are among the least mobile petroleum hydrocarbons detected at the Site.

4.3.2 Groundwater Results

Groundwater results are compared with RCG SLs for VOCs on **Table 3-1**, SLs for SVOCs on **Table 3-2**, and former RISC Default Closure Levels for TPH on **Table 3-3**. They are also summarized on **Figure 6**. Temporary and permanent monitoring wells indicating concentrations exceeding one or more contaminant-specific SLs included P-4, P-6, P-22, P-25, P-26, P-29, P-30, WB1, and WB8.

Groundwater from temporary monitoring well P-4 indicated 1,2,4-trimethethylbenzene at 109 ug/l, 1,3,5-trimethylbenzene at 8.1 ug/l, and vinyl chloride at 2.3 ug/l. Groundwater from temporary monitoring well P-6 indicated benzene at 292 ug/l, naphthalene at 53.6 ug/l, 1,2,4-trimethylbenzene at 207 ug/l, and naphthalene at 33.5 ug/l. Groundwater from temporary monitoring well P-22 indicated benzene at 1,640 ug/l, ethylbenzene at 1,850 ug/l, n-hexane at 329 ug/l, methyl-tert-butyl-ether at 219 ug/l, naphthalene at 473 ug/l, toluene at 1,770 ug/l, 1,2,4-trimethylbenzene at 1,560 ug/l, and 1,3,5-trimethylbenzene at 420 ug/l. Groundwater from temporary monitoring well P-25 indicated benzene at 39.5 ug/l, naphthalene at 33.5 ug/l, and 1,2,4-trimethylbenzene at 166 ug/l. Groundwater from temporary monitoring well P-26 indicated benzene at 106 ug/l, naphthalene at 34.9 ug/l, and 1,2,4-trimethylbenzene at 195 ug/l. Groundwater from temporary monitoring well P-30 indicated benzene at 22.1 ug/l as well as ethylbenzene and metyl-tert-butyl ether at concentrations less than their respective SLs. Many of these temporary monitoring wells also indicated the presence of apparently gasoline-related

petroleum hydrocarbon compounds at concentrations less than their respective SLs, suggesting common or similar source(s).

Groundwater from monitoring well WB-1 indicated benzene at 17.8 ug/l, naphthalene at 19.7 ug/l and 1,2,4-trimethylbenzene at 168 ug/l. Light non-aqueous phase liquid with an odor and appearance of gasoline accumulated in monitoring well WB-8 and so the sample was drawn from the aqueous phase below the LNAPL phase using the bladder pump. Groundwater from monitoring well WB-8 indicated benzene at 1,030 ug/l, 2-chlorotoluene at 220 ug/l, ethylbenzene at 4,040 ug/l, n-hexane at 2,610 ug/l, naphthalene at 1,500 ug/l, n-propylbenzene at 1,120 ug/l, toluene at 6,690 ug/l, 1,2,4-trimethylbenzene at 7,970 ug/l, and 1,3,5-trimethylbenzene at 2,200 ug/l, and total xylenes at 20,200 ug/l. These monitoring wells also indicated the presence of apparently gasoline-related petroleum hydrocarbon compounds at concentrations less than their respective SLs, suggesting common or similar source(s).

Sewerage sampled from the bottom flow in Manhole #8 indicated benzene at between 28 ug/l and 14.2 ug/l during early 2011 and again early in 2013. Ethylbenzene, methyl-tert-butyl-ether or total xylenes were also detected at concentrations below their respective groundwater SLs.

Groundwater from temporary monitoring well P-29, located near Area D indicated only benzene at 287 ug/l. Dissimilar from all other samples collected at the Site, no other related petroleum hydrocarbons were detected in the sample from this temporary well.

Groundwater results for samples collected during the SI are mapped to the Site as illustrated on **Figure 6**. The isoconcentration line of 5 ug/l for benzene is shown to illustrate the inferred lateral extent of contamination exceeding the residential tap water SLs through the thin sand and gravel aquifer layer relative to the Richmond Sanitary District's requirement that no detectable concentrations of organic compounds intrude its sanitary sewer system. The isocentration line of 120 ug/l is shown to illustrate the inferred lateral extent of contamination exceeding the commercial/industrial vapor intrusion SL for benzene and is relevant for the former Carpenter front office building.

4.4 Data Quality Assessment

Data quality is discussed in terms of sample delivery and analytical work, field QA/QC results, and finally, in terms of the data quality objectives (DQOs) stated in the approved SAP.

4.4.1 Sample Delivery and Analytical Work

4.4.1.1 Sample Delivery and Analytical Work - 2011

The samples were collected on July 6-7, 2011 and shipped to the laboratory via FedEx on July 8. The laboratory indicated that the samples were received in good condition on July 9th with the exception of two 1-liter amber bottles for groundwater sample P-8 being broken in transit. The samples were recollected and shipped on July 20th and received by the laboratory in good condition on July 21st. The laboratory reported its analytical results with qualifications generally limited to the method hold time for dichlorodifluoromethane in several samples. Additional details are provided in the analytical report.

4.4.1.2 Sample Delivery and Analytical Work - 2012

The samples were collected on August 15-16, 2012 and delivered by Pace's courier on August 16. The laboratory indicated that the samples were received in good condition except that the P-14 (0-4ft) sample container for SVOCs was broken. Additionally, 4-ounce containers for P-11 (12-14ft), P-9 (0-4ft), and both EB-2 amber liters were received out of temperature (12.9 degrees C). The laboratory reported its analytical results with qualifications generally limited to the MS/MSD RPD for TPH-GRO and two specific VOCs, elevated MS/MSD recoveries for several VOCs and SVOCs. Additional details are provided in the analytical report.

4.4.1.3 Sample Delivery and Analytical Work – 2013

Soil samples were collected on March 27, 2013 and hand delivered by Weaver Boos on the same day. The samples were received in good order. The laboratory reported its analytical results with qualifications generally limited to dilution of the P-22 sample containing very high concentrations of a variety of petroleum hydrocarbons. Additional details are provided in the analytical report.

Groundwater samples were collected on March 28, 2013 and hand delivered by Weaver Boos on March 28, 2013, and the laboratory reported receiving the samples in good order. The laboratory reported its analytical results with no significant qualifications. Additional details are provided in the analytical report.

Groundwater samples were also collected on June 6, 2013 and hand delivered by Weaver Boos on the same day. The samples were received in good order. The laboratory reported its analytical results with no significant qualifications. Additional details are provided in the analytical report.

4.4.2 Field QA/QC Results

Qualitative review of **Tables 2** and **3** shows that similar results were obtained for soil and groundwater samples that were collected in duplicate, meeting the Quality Assurance Project Plan precision objectives for soil and groundwater duplicate samples are 50% and 35%, respectively. Results for the trip blanks and equipment blanks collected during 2011, 2012, and 2013 identified no constituents above the laboratory reporting limits. Therefore, no cross contamination during sampling or sample transportation is inferred.

4.5 Data Quality Objectives

Although completed over the course of three years, the data quality objectives (DQO) remained as originally specified in the approved 2011 SAP:

1. If present, identify potential sources of COCs (e.g., USTs) and preferred subsurface migration pathways such as pipes, underground utility backfill trenches or coarse-textured saturated soils exhibiting indications of petroleum product migration; and,

2. If present, delineate the horizontal extent of petroleum product migration in groundwater from the sewer intrusion point (manhole #8) back in the hydraulically upgradient direction to its possible source.

Given the results obtained, Weaver Boos believes that the DQOs for this project are essentially met. Area C has been identified as a potential source of petroleum hydrocarbons. Preferred migration routes such as coarse textured soil and the sanitary sewer line trench along Enterprise Avenue have been identified. The horizontal and vertical extent of petroleum hydrocarbon impacts has been established along the thin uppermost aquifer. Uncertainty remains primarily with regard for direct investigation of a private sanitary sewer line trench extending from the former Carpenter building towards Manhole #8; the presence of contamination within the backfill along the Enterprise Avenue sanitary sewer trench has not been directly verified. We note however, that this potential data gap is not particularly significant because migration along these pathways will be mitigated together with the migration delineated along the shallow thin sand and gravel aquifer.

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5.0 SITE INVESTIGATION CONCLUSIONS

5.1 Summary of Conclusions

The current SI and historical environmental assessments indicate that groundwater and the subsurface soil are affected by elevated concentrations of aromatic hydrocarbons (benzene, toluene, ethylbenzene, xylenes, and others) and polycyclic aromatic hydrocarbons (naphthalene). Additionally, 3.15 ft of light non-aqueous phase liquid (LNAPL) with an appearance and odor of weathered gasoline also accumulated in monitoring well WB-8. Insomuch as none of the current light industrial tenants occupying the Site are known to store or dispense motor fuel, and whereas Carpenter (and its predecessor(s)) formerly did so, the petroleum hydrocarbons are presumed to originate from historical activities at the Site. An underground tank system formerly used to store gasoline was formerly located near where the highest concentrations of petroleum hydrocarbons were encountered.

Subsurface conditions at the Site are characterized by a 10 ft to 15 ft of silty clay till underlain by one or more thin layers of hydraulically conductive medium to coarse sand and fine gravel, which is in turn underlain by additional silty clay. The layers of sand and fine gravel generally occur between about 10 ft and 18 ft below ground surface (bgs) and bear groundwater under slightly confined conditions measured at between 9 ft and 14 ft bgs. The shallow groundwater flows through the sand and gravel towards the south-southeast where it appears to be intercepted (at least in part) by a relatively deep sanitary sewer line trench located beneath Enterprise Avenue, 200 ft to 300 ft downgradient from where the highest concentrations of petroleum hydrocarbons were detected in monitoring wells WB-1, WB-8, and P-22. After the contaminated groundwater enters the sewer line backfill, which is presumed to include hydraulically conductive backfill, it appears to flow west-southwesterly to sanitary sewer Manhole #8 where it has been observed to enter the manhole through an opening in its barrel. After the petroleum hydrocarbons enter the sanitary sewer at or near Manhole #8, they are conveyed southerly by a collector and continue south through Manhole #046 and beyond. A lateral from the collector to the private residence located several hundred feet further south is believed to have conveyed petroleum vapors to the residence. Weaver Boos understands that the lateral to the residence had no trap, but has since been fitted with a trap. Petroleum odors are no longer present. However, the petroleum hydrocarbons still enter the sewer system where they are conveyed to the Richmond Sanitary District, an obviously undesirable and potentially unsafe condition. Additionally, the LNAPL and elevated concentrations of volatile aromatic

hydrocarbons poses a risk of vapor intrusion to office buildings located at the south-central part of the former Carpenter building.

5.2 Summary of Potential Risks Associated with the Site

Environmental conditions at the Site, current land use, and its continued future commercial/industrial redevelopment indicates the following existing or potential risks:

1. LNAPL free product found in monitoring well MW-8 provides a long-term continuing source of dissolved phase contaminants to groundwater flowing south-southeasterly towards the sanitary sewer line located beneath Enterprise Avenue.

2. Groundwater containing detectable concentrations of BTEX or related petroleum hydrocarbons intrudes the sanitary sewer line located beneath Enterprise Avenue, representing a significant potential health and safety risk.

3. Potential or future potential for the intrusion of BTEX vapors into on-site or off-site buildings poses a significant potential health and safety risk.

4. On-site workers or future construction workers performing maintenance or excavation face a potential for exposure to subsurface soil and groundwater containing elevated concentrations of petroleum hydrocarbons.

5. Potential future use of shallow water supply wells, if located on the affected area of the Site, pose a potential risk of exposure by direct contact, ingestion, or inhalation.

6.0 REMEDIATION PLAN

6.1 Extent of Remediation

The shallow sand aquifer beneath approximately 2 acres of the Site appears to be affected (or potentially affected) by elevated concentration of petroleum hydrocarbons. The hydrocarbons are vertically confined to thin sand and gravel aquifer layer occurring between about 10 ft and 18 ft bgs. The extent of the affected area of the Site is illustrated on **Figure 7**.

6.2 Evaluation and Selection of Remedial Alternatives

6.2.1 Potentially Applicable Remedial Technologies

Remedial alternatives evaluated herein are believed potentially capable of meeting the remediation objectives stated in **Section 1.4**. Additional supporting measures will include institutional controls to mitigate future exposure to residual petroleum hydrocarbons likely to remain after remediation is complete to the extent practicable.

6.2.1.1 Evaluation of Applicable Remedial Technologies

Three remediation technologies are considered. These include:

1. Emplacement of oxygen release compounds (ORC) at the source and to form a reactive barrier against contaminated migration to the sanitary sewer.

2. In-situ air sparging and soil vapor extraction (AS/SVE) at the source and further downgradient to remove the contaminants.

3. High-vacuum dual-phase extraction (HVDPE) at the source and further downgradient to remove the contaminants.

6.2.1.1.1 Oxygen Release Compound

Oxygen release compound holds the potential to significantly reduce the concentrations of benzene and related hydrocarbons in the thin aquifer layer by promoting natural biological degradation. Implementation would involve the injection of the material near and downgradient from the source area(s) and could also be placed in the form of a lateral barrier directly upgradient from the sanitary sewer trench along the centerline of Enterprise Avenue. Several applications would likely be necessary over a period of months or years. The probable cost for implementing this technology is preliminarily estimated as follows:

Cost for Oxygen Release Compound Approach

Item	Low-Range Cost	Higher-Range Cost
ORC Placement once per year (3 years)	$240,000	$360,000
Quarterly monitoring (4 years)	$80,000	$100,000
PROBABLE COST:	**$320,000**	**$460,000**

Potential advantages to this approach include no need for treatment or discharge of water and no air emissions requiring control. The costs are reasonable for three years of implementation. Potential disadvantages include the large mass of petroleum hydrocarbon as evidenced by high concentrations and LNAPL free product. Treatment might need to be repeated for later years if the ORC is depleted without causing the oxidation of the majority of the contaminants. This technology is therefore only recommended as a low-cost stop-gap measure because its beneficial effect is unlikely to be permanent.

6.2.1.1.2 Air Sparging/Soil Vapor Extraction

In-situ air sparging/soil vapor extraction holds the potential to significantly reduce the concentrations of benzene and related hydrocarbons in the thin aquifer layer. Implementation would involve the installation of numerous air injection wells near and further downgradient from the source area(s). Soil vapor extraction trenches or wells would be positioned above and around the air-sparging outlets. Because the vapor emissions from the SVE system will be particularly concentrated at start up and likely for a considerable period thereafter, emissions controls are recommended. This method has been used by Weaver Boos with considerable success under appropriate site conditions. The probable cost for implementing this technology is preliminarily estimated as follows:

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Cost for In-Situ Air Sparging/Soil Vapor Extraction

Item	**Low-Range Cost**	**Higher-Range Cost**
Capital construction/installation	$200,000	$300,000
System Operations and Maintenance (3 years)	$100,000	$150,000
Quarterly monitoring (4 years)	$80,000	$100,000
PROBABLE COST:	**$380,000**	**$550,000**

Potential advantages of this technology include the fact that no aqueous discharge would require treatment and the technology should have relatively quick and permanent effect. Potential disadvantages include the presence of free product and potential for driving vapor intrusion to the former Carpenter front office building overlaying the affected part of the Site. Additionally, the affected shallow aquifer is quite thin (2 to 3.5 ft), and so the disruptive installation of numerous sparging wells and extensive vapor extraction facilities would be necessary. Given the potential for inducing vapor intrusion, this technology is not recommended.

6.2.1.1.3 High-Vacuum Dual-Phase Extraction

High-vacuum dual-phase extraction holds the potential to significantly and rapidly reduce the concentrations of benzene and related hydrocarbons in the thin aquifer layer. Implementation would involve the installation of several dual-phase extraction wells near and further downgradient from the source area(s). Because the vapor emissions from the HVDPE system will be particularly concentrated at start up and likely for a considerable period thereafter, emissions controls are recommended. This method has been used by Weaver Boos with considerable success under conditions similar to those present at the Site. The probable cost for implementing this technology is preliminarily estimated as follows:

Cost for High-Vacuum Dual-Phase Extraction

Item	Low-Range Cost	Higher-Range Cost
Capital construction/installation	$250,000	$350,000
System Operations and Maintenance (2 years)	$100,000	$150,000
Quarterly monitoring (3 years)	$65,000	$80,000
PROBABLE COST:	**$415,000**	**$530,000**

Advantages of this technology include relatively quick and permanent effect with no risk of inducing vapor intrusion. System O&M is estimated to extend for only two years using this technology. Potential disadvantages include the need to control and treat a continuous aqueous discharge and continuous vapor emission. The annual quarterly monitoring cost is a little higher because regular monitoring of the aqueous discharge will be required. This technology is considered most appropriate for achieving timely and permanent remediation of the petroleum hydrocarbon contamination consistent with the remedial objectives established for this Site.

6.2.2 Treatability Studies

Treatability studies in the form of detailed calculations should be performed if the ORC option is selected for economic reasons. Implementation of HVDPE will require no treatability studies because its performance aspects and treatment technologies are well known.

6.3 Description of Selected Remedial Alternative

Weaver Boos recommends implementation of the HVDP technology if it is economically feasible and so this is the selected remedial alternative described herein.

Hydraulic calculations provided in **Appendix G** indicate a radius of influence extending slightly more than 100 ft from a HVDPE well under the conditions specific to the Site. Weaver Boos expects that the HVDPE wells will effectively mitigate LNAPLE or high concentrations of BTEX or MTBE under the footprint of the office building, thereby mitigating the potential for future vapor intrusion. Six HVDPE wells should be sufficient to provide coverage of the affected part of the Site and should be located as shown on **Figure 7**. The HVDPE wells will be drilled using hollow stem augers of at least 6.25-inch inside diameter and screened with 10 ft of #30 wire-wound stainless steel screen backfilled with Global Drilling Supply #5 filter sand (or

equivalent, subject to confirmation using standard well screen/filter pack selection criteria). The well casing/rise will be constructed of 4-inch inside diameter stainless steel, either ASTM Schedule 5 or Schedule 10. The screened interval is expected to be from 10 ft to 20 ft bgs based on available information, but will be confirmed prior to drilling by continuous core sampling reviewed by a Licensed Professional Geologist (LPG) before the well is constructed. The terminal depth of the screen will be approximately 2 ft below the base of the thin, shallow sand and gravel aquifer expected to occur at each location at approximately 15 ft to 18 ft below ground surface.

Each HVDPE well constructed as describe above is expected to yield between about 0.8 and 3.1 gallons per minute (gpm) for a total system flow ranging from 4.8 gpm to 19 gpm. Flows will likely be greatest when the operation is initiated and then decline owing to drainage and presumed limited recharge of the shallow confined aquifer. The operational principle for the HVDPE wells is illustrated on the upper part of **Figure 8**.

The aqueous discharge will initially contain highly elevated concentrations of aromatic hydrocarbons and will require treatment before it can be discharged. The Richmond Sanitary District has indicated in discussions that groundwater can be discharged to the sanitary sewer provided that is treated to non-detectable levels of organic compounds. Air stripping is proposed as primary treatment, with carbon polishing proposed as secondary treatment if it is found necessary. The vapor phase emission will initially be very concentrated, possibly ignitable, and so will be treated until the emission concentrations and total emissions decline to de minims levels. Vapor phase emissions may be controlled using either vapor phase granular activated carbon (GAC), a catalytic thermal oxidizer, or by other means. The lower portion of **Figure 8** provides a schematic diagram for the recommended HVDPE technology and will require refinement by a vendor/designer who might be retained for implementation.

Experience with similar remedial operations indicates that the HVDPE system will need to be operated on the order of two years to achieve its maximum benefit. Groundwater concentrations, exhaust emissions, and water treatment efficiency will be monitored during active remediation and quarterly reports prepared to assess the performance of the remedy. Low levels of residual hydrocarbons will remain after remediation is completed to the extent practicable, and so groundwater monitoring will continue on a quarterly basis for at least one year after active remediation is ended. When the remediation objectives are met, the subsequent report will be prepared to include a description of remediation completion.

Because residual petroleum hydrocarbons are likely to persist at concentrations above health-based ingestion SLs, potential future exposure may be prevented using an institutional control prohibiting the installation or use of water supply wells in affected or potentially affected parts of the Site as illustrated on **Figure 7**. The form of the Environmental Restrictive Covenant to be used will be as provided in **Appendix H**.

6.3.1 No Need for Risk Assessment

The remedies and remediation objectives proposed are intended to achieve the performance-based remedial objectives and supporting numerical risk-based numerical SLs determined by the IDEM as listed in the RCG or on institutional controls. No further risk assessment is therefore believed necessary or proposed at this time

6.3.2 State or Federal Permits

Because the remediation system emit soil vapor and air stripper exhaust to the atmosphere, 326 IAC Rule 5.1. Construction of New Sources was reviewed to evaluate potential air-related permitting requirements. Based on this review, Weaver Boos concludes that if the total potential to emit VOCs is less than 10 tons per year, no construction permit or registration is required. For purposes of this review, the total mass of VOCs in the groundwater are assumed to comprise the complete potential to emit for the groundwater remediation system. The total mass of VOC in groundwater is conservatively estimated as follows: 300 ft long x 300 ft wide x 3 ft thick (plume size) x 62.4 lbs/cf (density of water) x 0.3 (porosity) x 47.4 mg/l (maximum total VOC concentration in WB8) / 1,000,000 x 1 ton / 2,000 lbs = 0.12 tons VOC. The mass of VOC included in the LNAPL pool is impossible to accurately estimate, and so to account for this uncertainty, it is assumed to comprise 20 times the dissolved phase mass, or 2.4 tons. Because the total potential to emit (2.5 tons) is well below 10 tons, no registration or air permitting application is required for the groundwater treatment system. Other than a registration with the Indiana Department of Air Quality, no state permit is believed to be necessary for the activities described herein. No federal permit is believed to be necessary for the activities described herein.

6.3.3 Local Permits

It is anticipated that prior to beginning construction, a local building permit will need to be obtained from the City of Richmond. Local approval for discharge of the treated aqueous effluent will be needed from the Richmond Sanitary District.

6.4 Monitoring and Sampling Plan

Monitoring and sampling will be conducted to support the implementation of the remedy and to verify that the remedial objectives are met. The following description is general. More detailed information is provided for the specific sampling and analytical methods as specified in the QAPP approved for the Site during 2013. Remedial objectives include numeric SLs for contaminant concentrations in the groundwater and aqueous discharge.

6.4.1 Sampling Plan Detail

Remedial progress and performance will include quarterly monitoring of the long-term groundwater monitoring wells illustrated on **Figure 7**, which includes WB-1 through WB-9. Additionally, sanitary Manholes #6, #7, #8, and #9 will also be monitored on a quarterly basis. Given that the nature of the petroleum hydrocarbons is now well established, it is proposed that quarterly ground water and manhole monitoring parameters be focused on benzene, toluene, ethylbenzene, total xylenes and methyl tert-butyl-ether (BTEX/MTBE) to be analyzed according to EPA Method 8260B.

The groundwater levels and free product thickness will be measured in each monitoring well before it is sampled using an electronic interface probe. Additionally, the well head vapor pressure will be measured at each monitoring well using a digital manometer capable of reading to the nearest 0.01 inches of vacuum/pressure. The water levels, free product thickness, and vapor pressures will be recorded to support quarterly assessments of the radius of influence exerted by the DPE remediation wells. The monitoring wells will be sampled using low-flow techniques with a pneumatic bladder pump according to the approved QAPP standard operating procedures.

Before each of the specified sanitary sewer manholes is sampled, its headspace vapor will be checked for potential explosive atmospheres using a lower explosive limit (LEL) meter and the result recorded. If any of the manholes indicates a measurement greater five (5) percent of the LEL, the Richmond Sanitary District and Richmond Fire Department will both be immediately contacted and notified of a potentially unsafe condition. If the explosive vapor concentration is measured at less than 5 percent of the LEL, aqueous flow through each manhole will be sampled for BTEX/MTBE. Flow inside the sanitary manholes will be sampled using a dipper because the depth of flow is typically only about an inch or two at the bottom of the manhole.

Operational monitoring will include monthly monitoring of the treated aqueous discharge to the Richmond Sanitary District. These samples will be analyzed for VOCs according to Method

8260B to address the sanitary district's needs. The VOC analysis will cover BTEX/MTBE and the other petroleum hydrocarbons detected at the Site, including naphthalene. These samples will be collected from the influent and effluent spigots inside the remediation system enclosure.

6.4.1.1 Schedule for Submittal of Results

Sampling and analysis results will be compiled in an electronic data base as they are received and made available to Indiana's Project Manager as frequently as desired. Monitoring and progress reports will be prepared and submitted on a quarterly basis during active remediation and for at least one year after active remediation is suspended or terminated.

6.4.1.2 Data Management

Data management will be in accordance with the procedures listed in the QAPP, Section 2.0. In summary, this will include the following procedures:

- Data Reduction
- Data Validation
- Data Reporting
- Comparison of Results with Applicable Remedial Objectives

The final step in the DQO process will be to report the results in a uniform tabular format and compare the results with applicable remedial objectives to support the decision-making process for each of the applicable sampling strategies. Deliverable materials will include sections of the Remediation Completion Report describing the results of the overall DQO process and the conclusions that may be drawn from the available data.

6.5 Projected Work Schedule

6.5.1 Implementation

Construction of the remediation system will be preceded by a detailed exploration and location of underground utilities in areas subject to drilling, boring, or excavation. Such efforts will include the use of ground penetrating radar to verify utility alignments, and pot holing using an air or water knife to verify the depth of burial of water lines, sewer lines, natural gas lines, and the like. The resulting data and information will be used to carefully avoid existing underground utilities, and further evaluate the potential for preferred migration routes for petroleum, such as through permeable sewer pipe bedding. If direct evidence of active preferred pathways is

identified, remediation system element locations will be adjusted as necessary to mitigate such migration.

Installation of the HVDPE remediation system is expected to require approximately six months from the selection of a qualified contractor through system shake-down and commissioning. It is anticipated that the system will achieve its maximum practicable benefit after two years and that post-operational groundwater monitoring well extend for at least one additional year. The project duration is therefore estimated at 3.5 years.

6.5.2 Operations and Maintenance

Operations and maintenance will be performed on a monthly basis. These activities will include sampling of the treated aqueous discharge and checking and maintenance of the remediation equipment. When a detailed design is finalized for the system, a standard operating procedure (SOP) will be prepared along with a field form for recording important measurements such as vacuum in the main collection header, vacuum at the wellheads, flow rates and total flows of both groundwater and vapor. These data will be tabulated regularly to estimate the mass of VOC removed and remaining concentrations contained in the upstream influent.

6.5.2.1 Contingency Plan

Contingencies as necessary will be taken to maintain proper operation of the remediation system. Such contingencies are expected to include the following:

1. Annual cleaning of the air stripper to remove mineral scale or biofouling using muriatic acid. The acid will be introduced upstream from the air stripper and circulated through the unit. If necessary, the air stripper or other components will be disassembled for more intensive manual cleaning. Residues will be collected and neutralized and managed in accordance with all applicable regulations, which may include discharge to the sanitary sewer in accordance with the local permit to be secured with the Richmond Sanitary District.

2. If the remediation system wells become biofouled or scaled, they will be cleaned in place using chiefly muriatic acid solutions by in-place jetting. Residues will be collected and managed as described above.

3. Any system components will be repaired or replace following partial or complete failure within 14 to 30 days of problem identification.

6.5.2.2 Compliance with Institutional Controls

The City will inspect the property at intervals of not more than five (5) years to assess compliance with IC(s) listed in the ERC. Such inspections will include a visual component, and after redevelopment takes place, visit(s) to interview commercial/industrial occupants. The results of each inspection will be recorded in the form of a written letter to the IDEM and will be retained on file for the project at least until the completion of the subsequent inspection. In the event that instance(s) of non-compliance are identified, the non-compliant occupant will be informed in writing by the City the nature of non-compliance and potential consequences of such non-compliance.

6.6 Health and Safety Plan

A Health and Safety Plan (H&S Plan) for use during construction monitoring activities by Weaver Boos is provided as **Appendix I**. The information in the H&S Plan has been developed based on a review of 29 CFR 1910.120, the hazards likely to be encountered, and a review of the elements required for such a plan as listed under 29 CFR 1910.120 (b)(4)(ii). To the extent required, the following elements are therefore included in the plan:

1. A safety and health risk or hazard analysis for each site task and operation
2. Employee training assignments
3. Personal protective equipment
4. Medical surveillance requirements
5. Frequency and types of air monitoring
6. Site access control measures
7. Decontamination procedures
8. Contingency plan

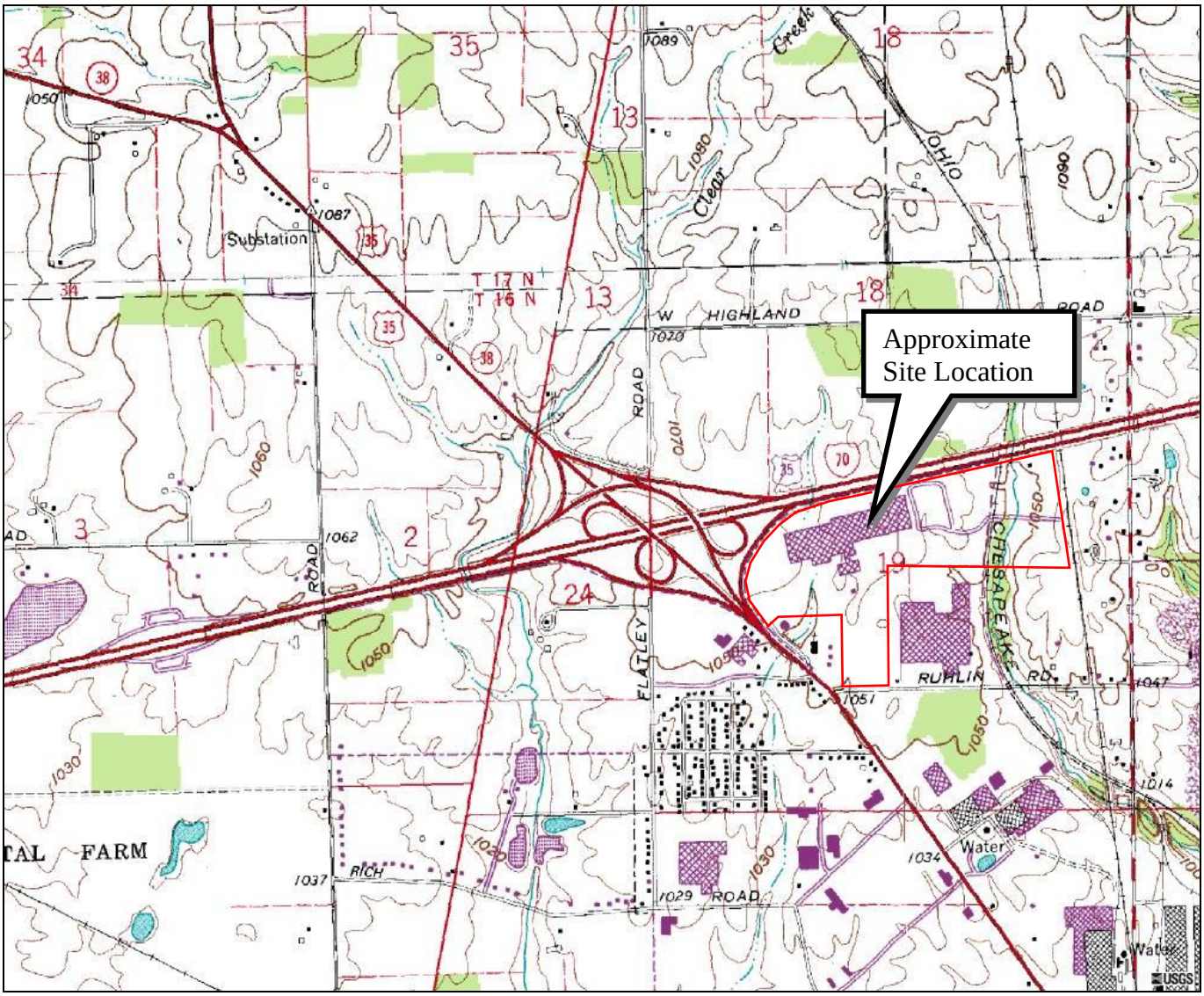
The Contractor who implements the proposed remediation will be required to prepare a comprehensive H&S Plan for use during construction activities. It shall be the responsibility of the Contractor to determine and comply with all applicable Occupational Safety and Health Administration (OSHA), local, state, and federal regulations or any other worker safety codes with respect to the project.

6.7 Estimated Cost for Selected Remedy

Weaver Boos' opinion of probable cost for implementing the selected remedy for two years followed by one year of post-operational groundwater monitoring ranges from $415,000 to $530,000 as described in **Section 6.2.1.1.3**. This estimated cost assumes good economic efficiency that might be further reducible if suitable previously used remediation equipment is identified and procured at reduced pricing. Actual costs may vary significantly depending upon conditions encountered during implementation and operation.

4085 Meghan Beeler Court
South Bend, IN 46628

FIGURES



Richmond, Indiana 7/1/1984

WEAVER
BOOS
CONSULTANTS

Site Location Map

Former Carpenter Manufacturing
1100 Industries Road
Richmond, Indiana

N

Drawn by: SMS	**Not to Scale**	**Date: 2/26/13**	**Project No.: 2339-353-03-02**	**Figure 1**

I-70 WESTBOUND

I-70 EASTBOUND

RAMP TO EASTBOUND I-70

ROAD

EXISTING BUILDING
(MULTI-TENANT INDUSTRIAL/COMMERCIAL)

AREA A
FORMER USTS
Historical benzene in shallow groundwater at up to 11.4 ug/l.

AREA B
FORMER TANKS
Historical benzene in shallow groundwater at up to 200 ug/l.

HISTORICAL SWALE OR STREAM CHANNEL (POTENTIAL PREFERRED MIGRATION PATHWAY)

AREA C
FORMER GASOLINE AND DIESEL USTS
Historical benzene in subsurface soil at up to 1.29 mg/kg and up to 3,800 ug/l in shallow groundwater (western UST pit).

GRASS

PARKING

PAVED

GRAVEL PARKING

ENTERPRISE AVE

MANHOLE 8 (SAMPLED BY CITY)
Benzene at 42 ug/l (seep, 3/3/2011)
Benzene at 29 ug/l (bottom, 3/3/2011).

AREA D
FORMER UST 1 AND 2
Historical benzene in susrface soil at up to 0.070 mg/kg. None detected in shallow groundwater.

MANHOLE 46 (SAMPLED BY CITY)
Benzene at 11 ug/l (seep, 3/3/2011).

DRY

LEGEND

6 ●	MANHOLE
←	SEWER
P-5	WEAVER BOOS SOIL PROBE WITH TEMPORARY WELL
P-12	WEAVER BOOS SOIL PROBE WITHOUT TEMPORARY WELL
WB3	WEAVER BOOS GROUNDWATER MONITORING WELL

SCALE
1 INCH = 140 FEET
0 140' 280'

NOTE:
1. THIS DRAWING IS INTENDED TO SHOW APPROXIMATE LOCATION OF FINDINGS, NO ATTEMPT SHOULD BE MADE TO SCALE INFORMATION SHOWN HEREON.

2. HISTORICAL BENZENE RESULTS FOR AREAS A, B, C, AND D FROM "REMEDIATION WORK PLAN", HULL & ASSOCIATES, INC. SEPTEMBER 1997 (VFC DOC. 47017513).

PREPARED FOR
INDIANA BROWNFIELDS PROGRAM

SAMPLING LOCATIONS \ HISTORICAL RESULTS
SUPPLEMENTAL ASSESSMENT
CARPENTER MANUFACTURING
1100 INDUSTRIES ROAD, RICHMOND, INDIANA

No.	DATE	REVISION DESCRIPTION	BY
1			
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3			
4			
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WEAVER BOOS CONSULTANTS
4085 MEGHAN BEELER COURT
SOUTH BEND, IN 46628
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DESIGNED BY:	COF
REVIEWED BY:	XXX
DATE:	07/20/2013
FILE:	2339-353-03-00
CAD:	Carpenter 2013-1.DWG

FIGURE 2

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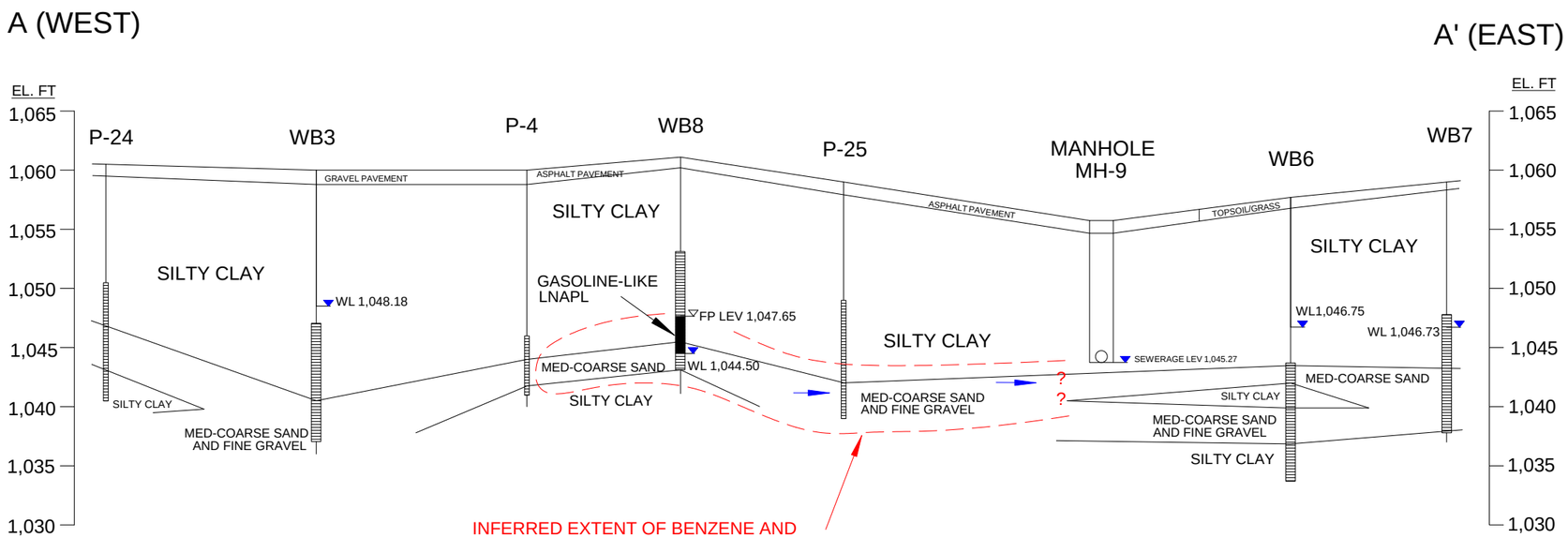

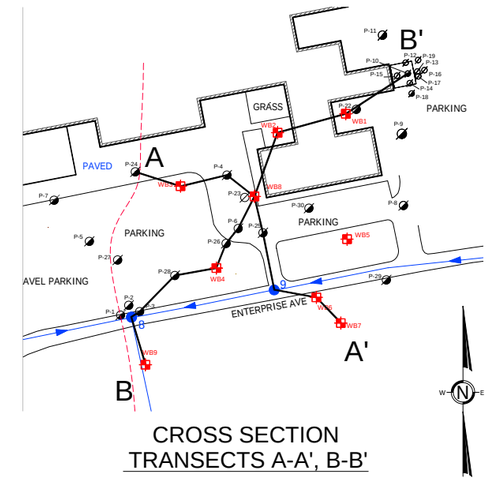

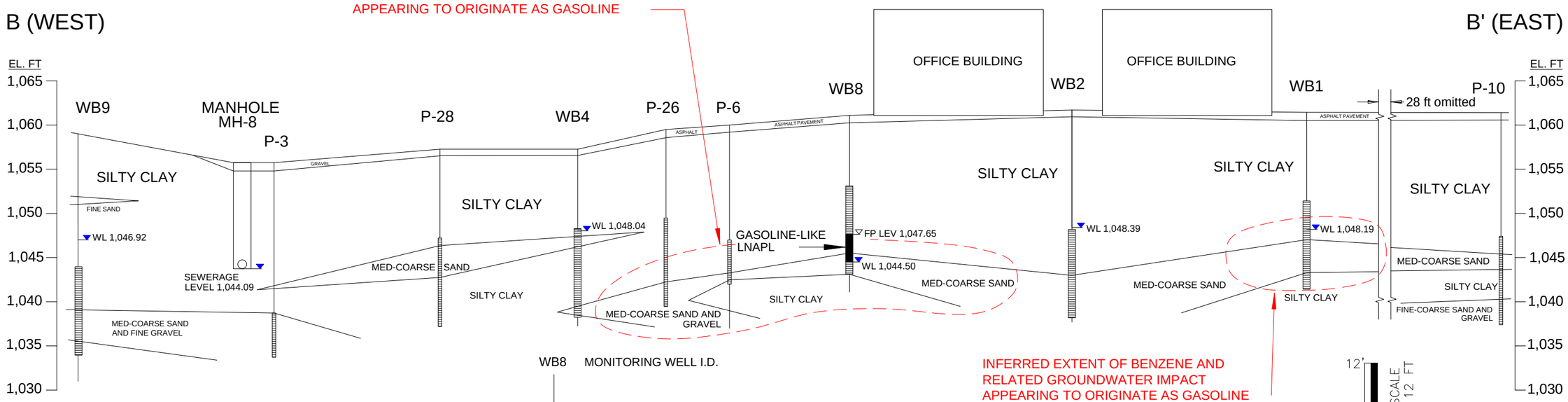

NOTE:
1. THIS DRAWING IS INTENDED TO SHOW APPROXIMATE LOCATION OF FINDINGS, NO ATTEMPT SHOULD BE MADE TO SCALE INFORMATION SHOWN HEREON.
2. CROSS SECTION IS INFERRED FROM WIDELY-SPACED SOIL BORINGS. ACTUAL CONDITIONS MAY DIFFER SIGNIFICANTLY FROM THOSE ILLUSTRATED. ADDITIONALLY, CONDITIONS SUCH AS GROUNDWATER LEVELS MAY VARY OVER TIME.
3. GROUNDWATER ELEVATION MEASURED ON JUNE 19, 2013.

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PREPARED FOR
INDIANA BROWNFIELDS PROGRAM

HYDROGEOLOGICAL CROSS SECTIONS SUPPLEMENTAL ASSESSMENT

CARPENTER MANUFACTURING
1100 INDUSTRIES ROAD, RICHMOND, INDIANA

No.	DATE	REVISION DESCRIPTION	BY
1			
2			
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6			
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DESIGNED BY:	SMS
REVIEWED BY:	SMS
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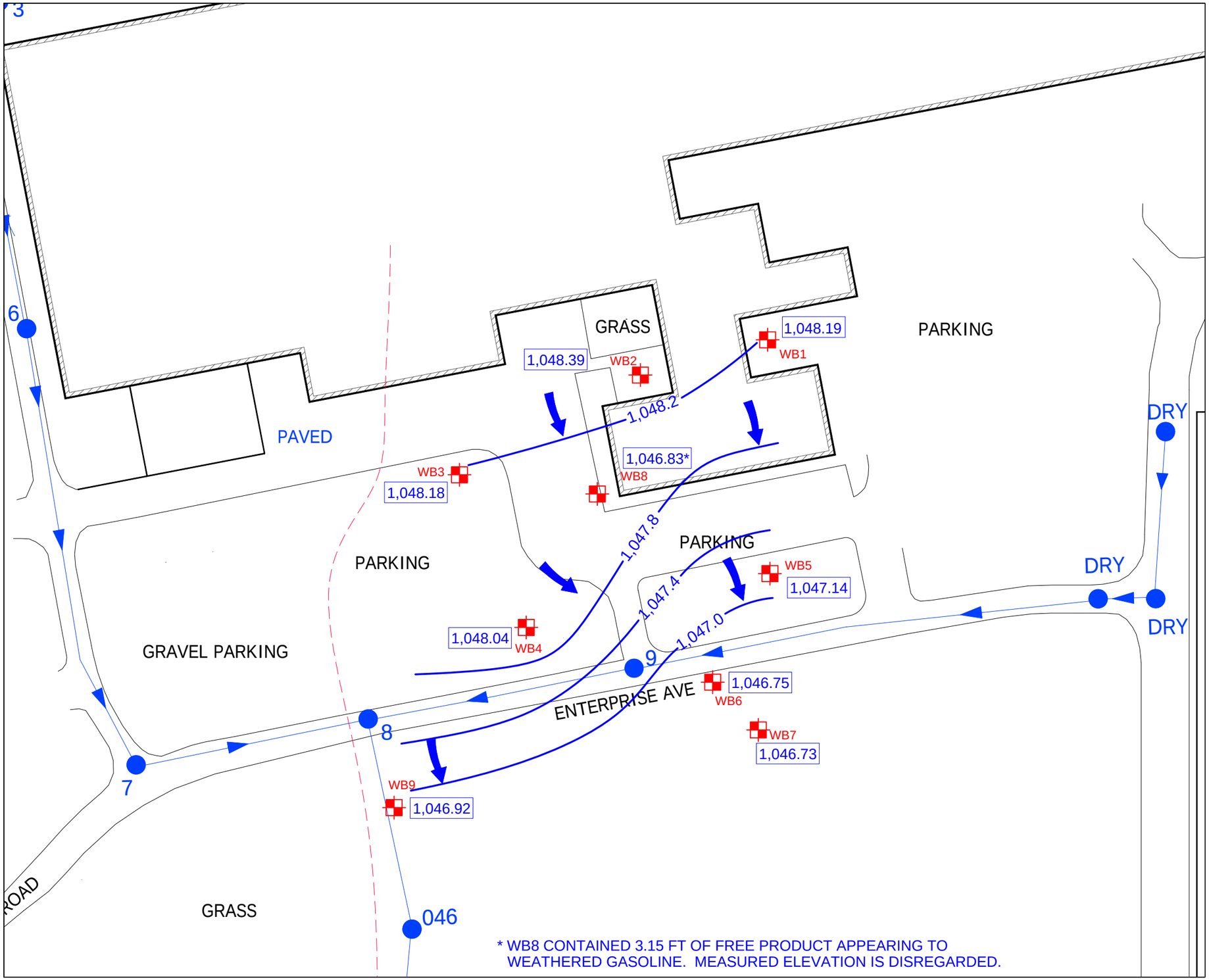
FIGURE 3



* WB8 CONTAINED 3.15 FT OF FREE PRODUCT APPEARING TO WEATHERED GASOLINE. MEASURED ELEVATION IS DISREGARDED.

LEGEND

- 6 — MANHOLE
- SEWER
- P-5 — WEAVER BOOS SOIL PROBE WITH TEMPORARY WELL
- P-12 — WEAVER BOOS SOIL PROBE WITHOUT TEMPORARY WELL
- WB3 — GROUNDWATER MONITORING WELL LOCATION (2013)
- BENZENE CONCENTRATION CONTOUR (ug/l)
- 1,047.14 — MEASURED GROUNDWATER ELEVATION (FT)
- 1,047.8 — INFERRED GROUNDWATER ELEVATION (FT)
- INFERRED GROUNDWATER FLOW DIRECTION

SCALE
1 INCH = 100 FEET
0 100' 200'

W N E

NOTE:
1. THIS DRAWING IS INTENDED TO SHOW APPROXIMATE LOCATION OF FINDINGS, NO ATTEMPT SHOULD BE MADE TO SCALE INFORMATION SHOWN HEREON.
2. GROUNDWATER ELEVATIONS MEASURED ON JUNE 19, 2013.

PREPARED FOR
INDIANA BROWNFIELDS PROGRAM

GROUNDWATER FLOW MAP (6/19/13)
SUPPLEMENTAL ASSESSMENT
CARPENTER MANUFACTURING
1100 INDUSTRIES ROAD, RICHMOND, INDIANA

No.	DATE	REVISION DESCRIPTION	BY
1			
2			
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FIGURE 4

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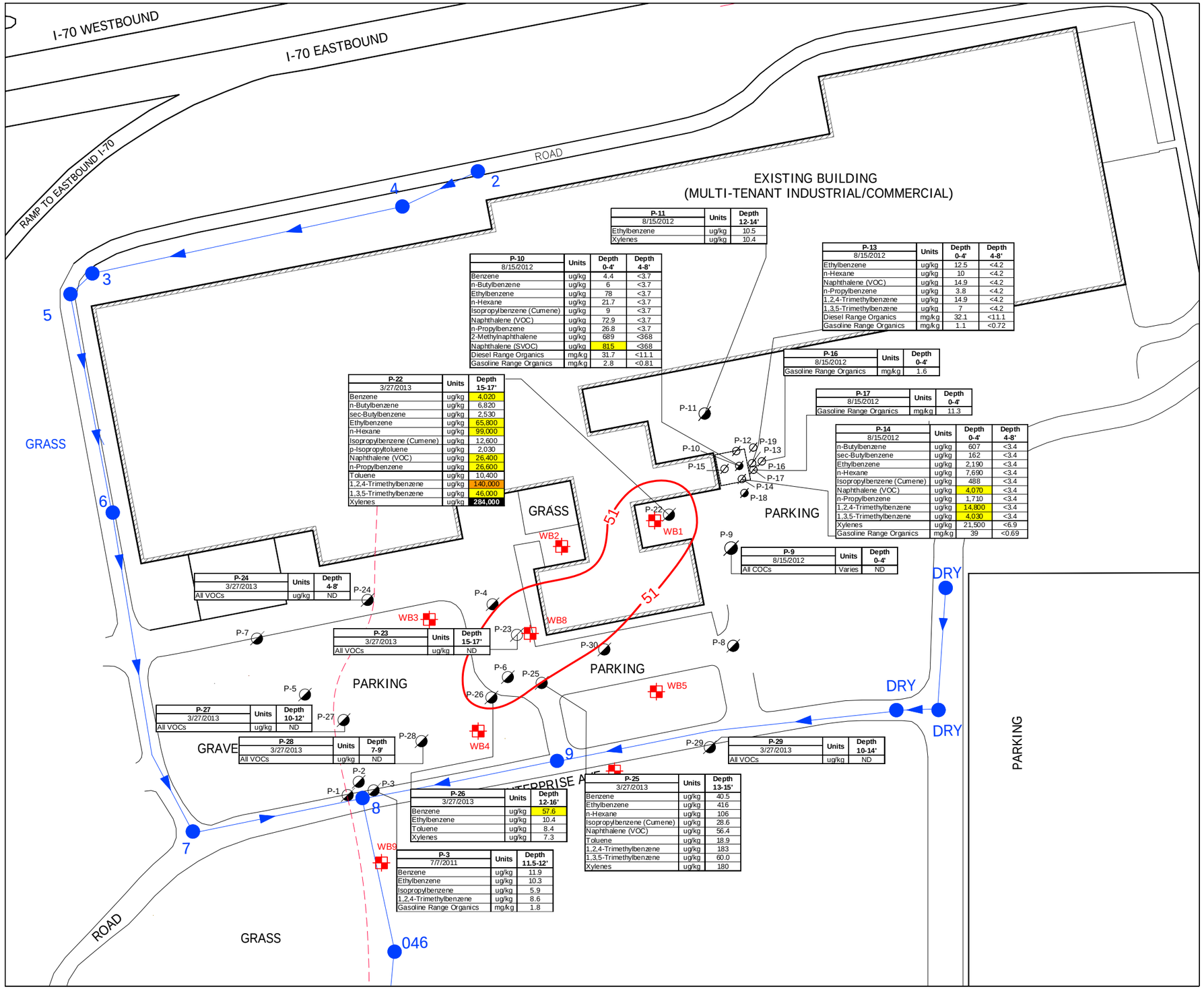

P-11 8/15/2012	Units	Depth 12-14'
Ethylbenzene	ug/kg	10.5
Xylenes	ug/kg	10.4

P-10 8/15/2012	Units	Depth 0-4'	Depth 4-8'
Benzene	ug/kg	4.4	<3.7
n-Butylbenzene	ug/kg	6	<3.7
Ethylbenzene	ug/kg	78	<3.7
n-Hexane	ug/kg	21.7	<3.7
Isopropylbenzene (Cumene)	ug/kg	9	<3.7
Naphthalene (VOC)	ug/kg	72.9	<3.7
n-Propylbenzene	ug/kg	26.8	<3.7
2-Methylnaphthalene	ug/kg	689	<368
Naphthalene (SVOC)	ug/kg	815	<368
Diesel Range Organics	mg/kg	31.7	<11.1
Gasoline Range Organics	mg/kg	2.8	<0.81

P-13 8/15/2012	Units	Depth 0-4'	Depth 4-8'
Ethylbenzene	ug/kg	12.5	<4.2
n-Hexane	ug/kg	10	<4.2
Naphthalene (VOC)	ug/kg	14.9	<4.2
n-Propylbenzene	ug/kg	3.8	<4.2
1,2,4-Trimethylbenzene	ug/kg	14.9	<4.2
1,3,5-Trimethylbenzene	ug/kg	7	<4.2
Diesel Range Organics	mg/kg	32.1	<11.1
Gasoline Range Organics	mg/kg	1.1	<0.72

P-16 8/15/2012	Units	Depth 0-4'
Gasoline Range Organics	mg/kg	1.6

P-17 8/15/2012	Units	Depth 0-4'
Gasoline Range Organics	mg/kg	11.3

P-14 8/15/2012	Units	Depth 0-4'	Depth 4-8'
n-Butylbenzene	ug/kg	607	<3.4
sec-Butylbenzene	ug/kg	162	<3.4
Ethylbenzene	ug/kg	2,190	<3.4
n-Hexane	ug/kg	7,690	<3.4
Isopropylbenzene (Cumene)	ug/kg	488	<3.4
Naphthalene (VOC)	ug/kg	4,070	<3.4
n-Propylbenzene	ug/kg	1,710	<3.4
1,2,4-Trimethylbenzene	ug/kg	14,800	<3.4
1,3,5-Trimethylbenzene	ug/kg	4,030	<3.4
Xylenes	ug/kg	21,500	<6.9
Gasoline Range Organics	mg/kg	39	<0.69

P-9 8/15/2012	Units	Depth 0-4'
All COCs	Varies	ND

P-22 3/27/2013	Units	Depth 15-17'
Benzene	ug/kg	4,020
n-Butylbenzene	ug/kg	6,820
sec-Butylbenzene	ug/kg	2,530
Ethylbenzene	ug/kg	65,800
n-Hexane	ug/kg	99,000
Isopropylbenzene (Cumene)	ug/kg	12,600
p-Isopropyltoluene	ug/kg	2,030
Naphthalene (VOC)	ug/kg	26,400
n-Propylbenzene	ug/kg	26,600
Toluene	ug/kg	10,400
1,2,4-Trimethylbenzene	ug/kg	140,000
1,3,5-Trimethylbenzene	ug/kg	46,000
Xylenes	ug/kg	284,000

P-24 3/27/2013	Units	Depth 4-8'
All VOCs	ug/kg	ND

P-23 3/27/2013	Units	Depth 15-17'
All VOCs	ug/kg	ND

P-27 3/27/2013	Units	Depth 10-12'
All VOCs	ug/kg	ND

P-28 3/27/2013	Units	Depth 7-9'
All VOCs	ug/kg	ND

P-29 3/27/2013	Units	Depth 10-14'
All VOCs	ug/kg	ND

P-26 3/27/2013	Units	Depth 12-16'
Benzene	ug/kg	57.6
Ethylbenzene	ug/kg	10.4
Toluene	ug/kg	8.4
Xylenes	ug/kg	7.3

P-3 7/7/2011	Units	Depth 11.5-12'
Benzene	ug/kg	11.9
Ethylbenzene	ug/kg	10.3
Isopropylbenzene	ug/kg	5.9
1,2,4-Trimethylbenzene	ug/kg	8.6
Gasoline Range Organics	mg/kg	1.8

P-25 3/27/2013	Units	Depth 13-15'
Benzene	ug/kg	40.5
Ethylbenzene	ug/kg	416
n-Hexane	ug/kg	106
Isopropylbenzene (Cumene)	ug/kg	28.6
Naphthalene (VOC)	ug/kg	56.4
Toluene	ug/kg	18.9
1,2,4-Trimethylbenzene	ug/kg	183
1,3,5-Trimethylbenzene	ug/kg	60.0
Xylenes	ug/kg	180

LEGEND

6 MANHOLE

SEWER

P-5 WEAVER BOOS SOIL PROBE WITH TEMPORARY WELL

P-12 WEAVER BOOS SOIL PROBE WITHOUT TEMPORARY WELL

P-22 3/27/2013	Units	Depth 15-17'	
Benzene	ug/kg	4,020	YELLOW - EXCEEDS MTG SL
n-Butylbenzene	ug/kg	6,820	
sec-Butylbenzene	ug/kg	2,530	
Ethylbenzene	ug/kg	65,800	
n-Hexane	ug/kg	99,000	BLUE - EXCEEDS MTG, RES, AND COM/IND SL
Isopropylbenzene (Cumene)	ug/kg	12,600	
p-Isopropyltoluene	ug/kg	2,030	
Naphthalene (VOC)	ug/kg	26,400	
n-Propylbenzene	ug/kg	26,600	
Toluene	ug/kg	10,400	
1,2,4-Trimethylbenzene	ug/kg	140,000	ORANGE - EXCEEDS MTG, AND RES SL
1,3,5-Trimethylbenzene	ug/kg	46,000	
Xylenes	ug/kg	284,000	BLACK - EXCEEDS MTG, RES, COM/IND AND EXCAVATION SL

51 BENZENE CONCENTRATION CONTOUR (ug/kg)

SCALE
1 INCH = 140 FEET
0 140' 280'

NOTE:
1. THIS DRAWING IS INTENDED TO SHOW APPROXIMATE LOCATION OF FINDINGS, NO ATTEMPT SHOULD BE MADE TO SCALE INFORMATION SHOWN HEREON.

2. HISTORICAL BENZENE RESULTS FOR AREAS A, B, C, AND D FROM "REMEDIATION WORK PLAN", HULL & ASSOCIATES, INC. SEPTEMBER 1997 (VFC DOC. 47017513).

PREPARED FOR
INDIANA BROWNFIELDS PROGRAM

SOIL SAMPLE RESULTS SUPPLEMENTAL ASSESSMENT

CARPENTER MANUFACTURING
1100 INDUSTRIES ROAD, RICHMOND, INDIANA

No.	DATE	REVISION DESCRIPTION	BY
1			
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WEAVER BOOS CONSULTANTS
4085 MEGHAN BEELER COURT
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FILE: 2339-353-03-00
CAD: Carpenter 2013-1.DWG

FIGURE 5

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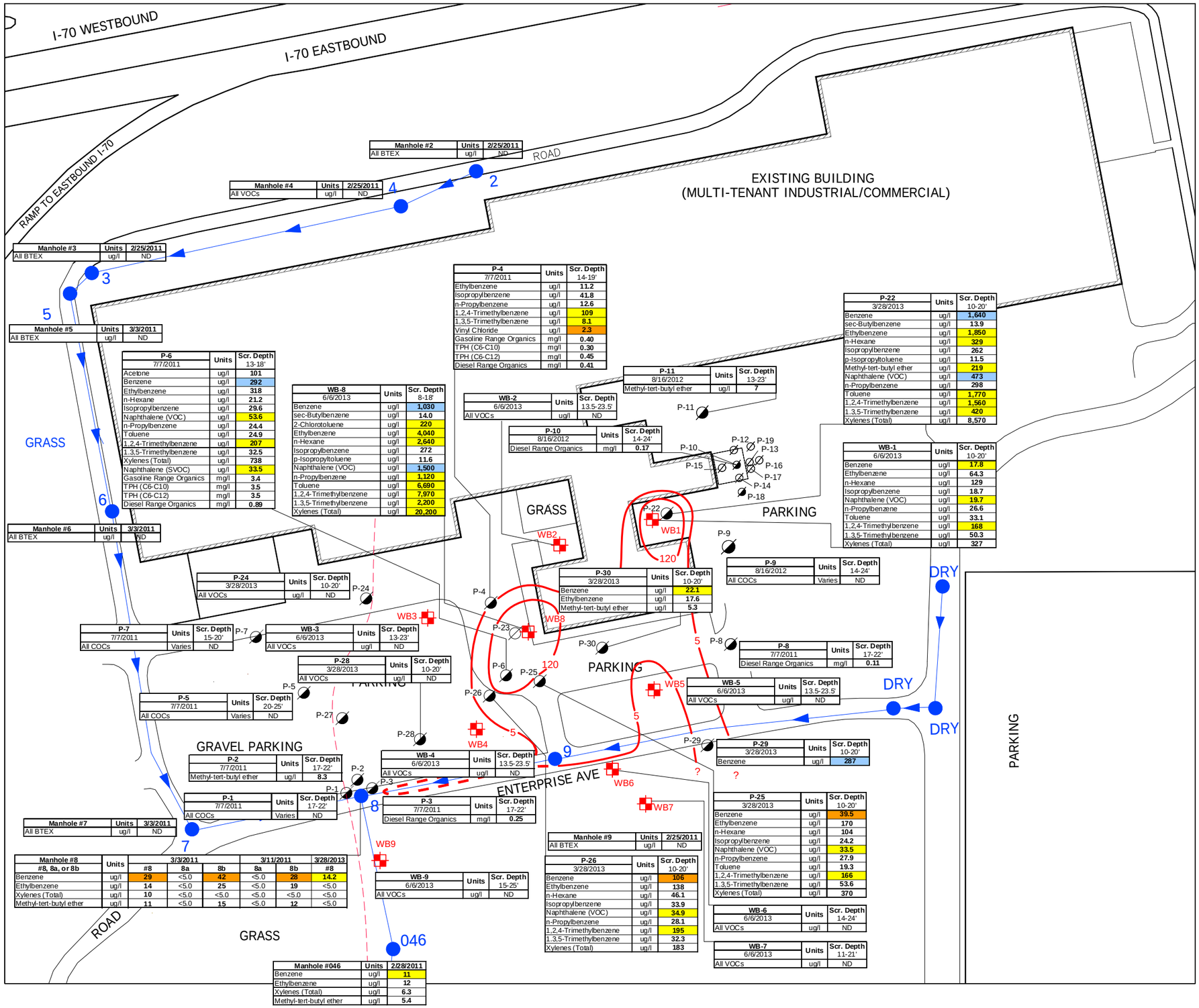

Manhole #2	Units	2/25/2011
All BTEX	ug/l	ND

Manhole #4	Units	2/25/2011
All VOCs	ug/l	ND

Manhole #3	Units	2/25/2011
All BTEX	ug/l	ND

Manhole #5	Units	3/3/2011
All BTEX	ug/l	ND

Manhole #6	Units	3/3/2011
All BTEX	ug/l	ND

Manhole #7	Units	3/3/2011
All BTEX	ug/l	ND

Manhole #8	Units	3/3/2011			3/11/2011		3/28/2013
#8, 8a, or 8b		#8	8a	8b	8a	8b	#8
Benzene	ug/l	29	<5.0	42	<5.0	28	14.2
Ethylbenzene	ug/l	14	<5.0	25	<5.0	19	<5.0
Xylenes (Total)	ug/l	10	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl-tert-butyl ether	ug/l	11	<5.0	15	<5.0	12	<5.0

P-6 7/7/2011	Units	Scr. Depth 13-18'
Acetone	ug/l	101
Benzene	ug/l	292
Ethylbenzene	ug/l	318
n-Hexane	ug/l	21.2
Isopropylbenzene	ug/l	29.6
Naphthalene (VOC)	ug/l	53.6
n-Propylbenzene	ug/l	24.4
Toluene	ug/l	24.9
1,2,4-Trimethylbenzene	ug/l	207
1,3,5-Trimethylbenzene	ug/l	32.5
Xylenes (Total)	ug/l	738
Naphthalene (SVOC)	ug/l	33.5
Gasoline Range Organics	mg/l	3.4
TPH (C6-C10)	mg/l	3.5
TPH (C6-C12)	mg/l	3.5
Diesel Range Organics	mg/l	0.89

WB-8 6/6/2013	Units	Scr. Depth 8-18'
Benzene	ug/l	1,030
sec-Butylbenzene	ug/l	14.0
2-Chlorotoluene	ug/l	220
Ethylbenzene	ug/l	4,040
n-Hexane	ug/l	2,640
Isopropylbenzene	ug/l	272
p-Isopropyltoluene	ug/l	11.6
Naphthalene (VOC)	ug/l	1,500
n-Propylbenzene	ug/l	1,120
Toluene	ug/l	6,690
1,2,4-Trimethylbenzene	ug/l	7,970
1,3,5-Trimethylbenzene	ug/l	2,200
Xylenes (Total)	ug/l	20,200

P-4 7/7/2011	Units	Scr. Depth 14-19'
Ethylbenzene	ug/l	11.2
Isopropylbenzene	ug/l	41.8
n-Propylbenzene	ug/l	12.6
1,2,4-Trimethylbenzene	ug/l	109
1,3,5-Trimethylbenzene	ug/l	8.1
Vinyl Chloride	ug/l	2.3
Gasoline Range Organics	mg/l	0.40
TPH (C6-C10)	mg/l	0.30
TPH (C6-C12)	mg/l	0.45
Diesel Range Organics	mg/l	0.41

WB-2 6/6/2013	Units	Scr. Depth 13.5-23.5'
All VOCs	ug/l	ND

P-10 8/16/2012	Units	Scr. Depth 14-24'
Diesel Range Organics	mg/l	0.17

P-11 8/16/2012	Units	Scr. Depth 13-23'
Methyl-tert-butyl ether	ug/l	7

P-22 3/28/2013	Units	Scr. Depth 10-20'
Benzene	ug/l	1,640
sec-Butylbenzene	ug/l	13.9
Ethylbenzene	ug/l	1,850
n-Hexane	ug/l	329
Isopropylbenzene	ug/l	262
p-Isopropyltoluene	ug/l	11.5
Methyl-tert-butyl ether	ug/l	219
Naphthalene (VOC)	ug/l	473
n-Propylbenzene	ug/l	298
Toluene	ug/l	1,770
1,2,4-Trimethylbenzene	ug/l	1,560
1,3,5-Trimethylbenzene	ug/l	420
Xylenes (Total)	ug/l	8,570

WB-1 6/6/2013	Units	Scr. Depth 10-20'
Benzene	ug/l	17.8
Ethylbenzene	ug/l	64.3
n-Hexane	ug/l	129
Isopropylbenzene	ug/l	18.7
Naphthalene (VOC)	ug/l	19.7
n-Propylbenzene	ug/l	26.6
Toluene	ug/l	33.1
1,2,4-Trimethylbenzene	ug/l	168
1,3,5-Trimethylbenzene	ug/l	50.3
Xylenes (Total)	ug/l	327

P-24 3/28/2013	Units	Scr. Depth 10-20'
All VOCs	ug/l	ND

P-7 7/7/2011	Units	Scr. Depth 15-20'
All COCs	Varies	ND

WB-3 6/6/2013	Units	Scr. Depth 13-23'
All VOCs	ug/l	ND

P-28 3/28/2013	Units	Scr. Depth 10-20'
All VOCs	ug/l	ND

P-5 7/7/2011	Units	Scr. Depth 20-25'
All COCs	Varies	ND

P-2 7/7/2011	Units	Scr. Depth 17-22'
Methyl-tert-butyl ether	ug/l	8.3

P-1 7/7/2011	Units	Scr. Depth 17-22'
All COCs	Varies	ND

WB-4 6/6/2013	Units	Scr. Depth 13.5-23.5'
All VOCs	ug/l	ND

P-3 7/7/2011	Units	Scr. Depth 17-22'
Diesel Range Organics	mg/l	0.25

WB-9 6/6/2013	Units	Scr. Depth 15-25'
All VOCs	ug/l	ND

Manhole #046	Units	2/28/2011
Benzene	ug/l	11
Ethylbenzene	ug/l	12
Xylenes (Total)	ug/l	6.3
Methyl-tert-butyl ether	ug/l	5.4

P-30 3/28/2013	Units	Scr. Depth 10-20'
Benzene	ug/l	22.1
Ethylbenzene	ug/l	17.6
Methyl-tert-butyl ether	ug/l	5.3

P-9 8/16/2012	Units	Scr. Depth 14-24'
All COCs	Varies	ND

P-8 7/7/2011	Units	Scr. Depth 17-22'
Diesel Range Organics	mg/l	0.11

WB-5 6/6/2013	Units	Scr. Depth 13.5-23.5'
All VOCs	ug/l	ND

P-29 3/28/2013	Units	Scr. Depth 10-20'
Benzene	ug/l	287

Manhole #9	Units	2/25/2011
All BTEX	ug/l	ND

P-26 3/28/2013	Units	Scr. Depth 10-20'
Benzene	ug/l	106
Ethylbenzene	ug/l	138
n-Hexane	ug/l	46.1
Isopropylbenzene	ug/l	33.9
Naphthalene (VOC)	ug/l	34.9
n-Propylbenzene	ug/l	28.1
1,2,4-Trimethylbenzene	ug/l	195
1,3,5-Trimethylbenzene	ug/l	32.3
Xylenes (Total)	ug/l	183

P-25 3/28/2013	Units	Scr. Depth 10-20'
Benzene	ug/l	39.5
Ethylbenzene	ug/l	170
n-Hexane	ug/l	104
Isopropylbenzene	ug/l	24.2
Naphthalene (VOC)	ug/l	33.5
n-Propylbenzene	ug/l	27.9
Toluene	ug/l	19.3
1,2,4-Trimethylbenzene	ug/l	166
1,3,5-Trimethylbenzene	ug/l	53.6
Xylenes (Total)	ug/l	370

WB-6 6/6/2013	Units	Scr. Depth 14-24'
All VOCs	ug/l	ND

WB-7 6/6/2013	Units	Scr. Depth 11-21'
All VOCs	ug/l	ND

LEGEND

6 ● MANHOLE

SEWER

P-5 WEAVER BOOS SOIL PROBE WITH TEMPORARY WELL

P-12 WEAVER BOOS SOIL PROBE WITHOUT TEMPORARY WELL

P-22 3/28/2013	Units	Scr. Depth 10-20'	
Benzene	ug/l	1,640	YELLOW - EXCEEDS RES TAP WATER SL
sec-Butylbenzene	ug/l	13.9	
Ethylbenzene	ug/l	1,850	
n-Hexane	ug/l	329	
Isopropylbenzene	ug/l	262	
p-Isopropyltoluene	ug/l	11.5	
Methyl-tert-butyl ether	ug/l	219	
Naphthalene (VOC)	ug/l	473	BLUE - EXCEEDS COM/IND VI SL
n-Propylbenzene	ug/l	298	
Toluene	ug/l	1,770	
1,2,4-Trimethylbenzene	ug/l	1,560	
1,3,5-Trimethylbenzene	ug/l	420	
Xylenes (Total)	ug/l	8,570	ORANGE - EXCEEDS RES VI SL

120 BENZENE CONCENTRATION CONTOUR (ug/l)

WB3 GROUNDWATER MONITORING WELL (2013)

SCALE
1 INCH = 140 FEET
0 140' 280'

W N E

NOTE:
1. THIS DRAWING IS INTENDED TO SHOW APPROXIMATE LOCATION OF FINDINGS, NO ATTEMPT SHOULD BE MADE TO SCALE INFORMATION SHOWN HEREON.

2. HISTORICAL BENZENE RESULTS FOR AREAS A, B, C, AND D FROM "REMEDIATION WORK PLAN", HULL & ASSOCIATES, INC. SEPTEMBER 1997 (VFC DOC. 47017513).

PREPARED FOR
INDIANA BROWNFIELDS PROGRAM

GROUNDWATER SAMPLE RESULTS SUPPLEMENTAL ASSESSMENT

CARPENTER MANUFACTURING
1100 INDUSTRIES ROAD, RICHMOND, INDIANA

No.	DATE	REVISION DESCRIPTION	BY
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REVIEWED BY: SMS
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CAD: Carpenter 2013-1.DWG

FIGURE 6

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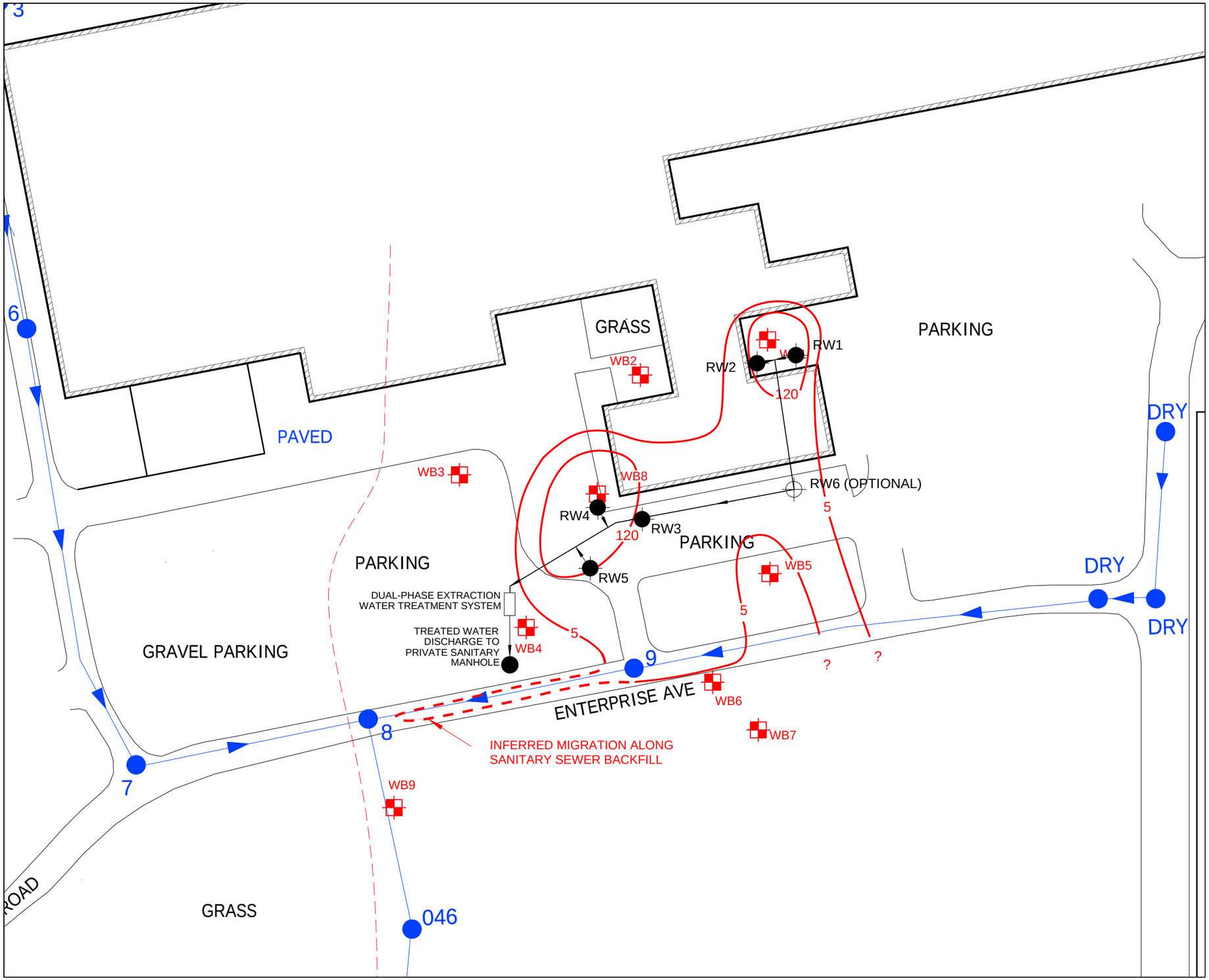

LEGEND

6 ●	MANHOLE
←	SEWER
P-5	WEAVER BOOS SOIL PROBE WITH TEMPORARY WELL
P-12	WEAVER BOOS SOIL PROBE WITHOUT TEMPORARY WELL
WB3	GROUNDWATER MONITORING WELL LOCATION (2013)
120	BENZENE CONCENTRATION CONTOUR (ug/l)
RW1	PROPOSED DUAL-PHASE EXTRACTION WELL

SCALE
1 INCH = 100 FEET
0 100' 200'

W N E

NOTE:
1. THIS DRAWING IS INTENDED TO SHOW APPROXIMATE LOCATION OF FINDINGS, NO ATTEMPT SHOULD BE MADE TO SCALE INFORMATION SHOWN HEREON.
2. GROUNDWATER ELEVATIONS MEASURED ON JUNE 19, 2013.

PREPARED FOR
INDIANA BROWNFIELDS PROGRAM

PROPOSED REMEDIATION SYSTEM LAYOUT SUPPLEMENTAL ASSESSMENT

CARPENTER MANUFACTURING
1100 INDUSTRIES ROAD, RICHMOND, INDIANA

No.	DATE	REVISION DESCRIPTION	BY
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FIGURE 7

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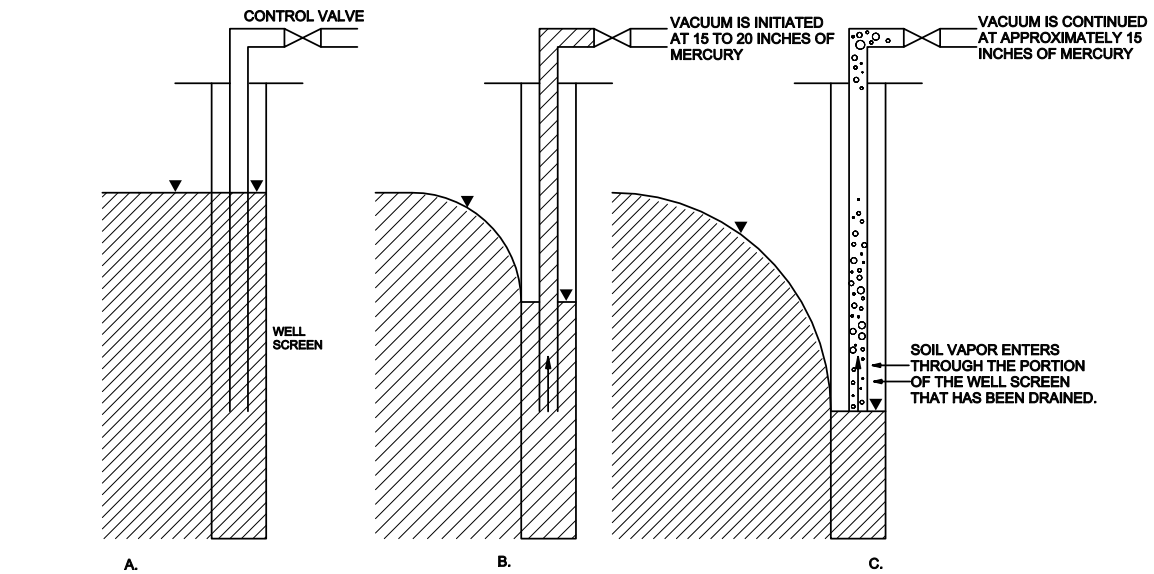
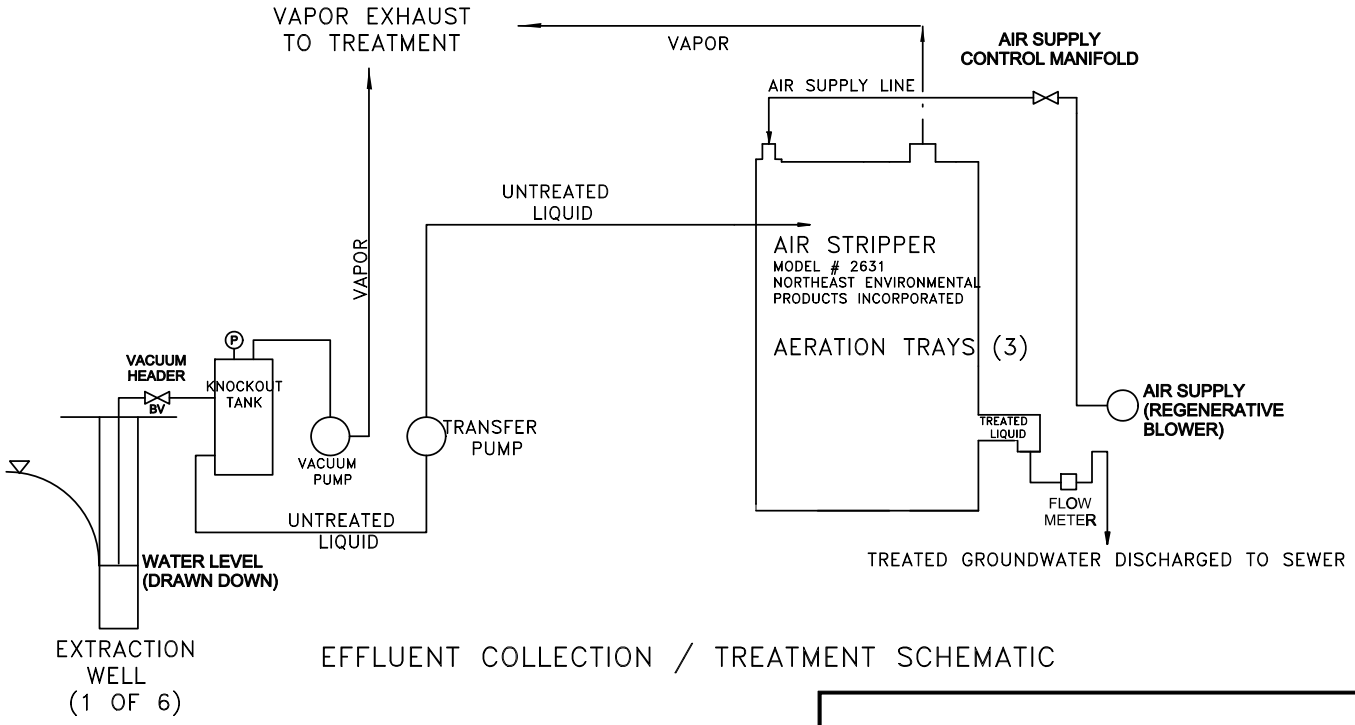


A. WATER LEVEL AT ITS INITIAL LEVEL PRIOR TO PUMPING.

B. WHEN PUMPING IS INITIATED, ONLY LIQUID IS RECOVERED BY THE DROP TUBE AND THE WATER TABLE IS DRAWN DOWN.

C. ONCE THE WATER TABLE IS DRAWN DOWN TO TO BOTTOM OF THE DROP TUBE, THE SURFACE OF THE WATER IS SKIMMED AND BOTH LIQUID AND VAPOR ARE COLLECTED.

MULTI-PHASE EXTRACTION PRINCIPLE



EFFLUENT COLLECTION / TREATMENT SCHEMATIC

REMEDIATION SYSTEM SCHEMATIC

CARPENTER MANUFACTURING
1100 INDUSTRIES ROAD
RICHMOND, INDIANA

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REVIEWED BY: SMS	CAD: 2013-2.DWG	FIGURE 8

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TABLES

Table 1: Monitoring Well and Groundwater Level Elevations
Former Carpenter Facility
1100 Industries Road, Richmond, IN 47374
Prepared by Weaver Boos Consultants

Monitoring Well I.D.	Easting (feet) (NAD83)	Northing (feet) (NAD83)	Top of Well Casing Elevation (feet)	Date of Measurment	Depth to Water (feet)	Depth to Free Product (feet)	Water Level Elevation[a] (feet)
WB-1	538,086	1,682,887	1,061.44	6/6/2013	12.97	None	1048.47
				6/19/2013	13.25	None	1048.19
WB-2	537,930	1,682,892	1,061.69	6/6/2013	13.16	None	1048.53
				6/19/2013	13.30	None	1048.39
WB-3	537,780	1,682,759	1,059.98	6/6/2013	11.59	None	1048.39
				6/19/2013	11.80	None	1048.18
WB-4	537,847	1,682,606	1,057.27	6/6/2013	9.00	None	1048.27
				6/19/2013	9.23	None	1048.04
WB-5	538,091	1,682,660	1,061.22	6/6/2013	13.90	None	1047.32
				6/19/2013	14.08	None	1047.14
WB-6	538,034	1,682,551	1,057.72	6/6/2013	10.80	None	1046.92
				6/19/2013	10.97	None	1046.75
WB-7	538,080	1,682,503	1,059.01	6/6/2013	12.10	None	1046.91
				6/19/2013	12.28	None	1046.73
WB-8	537,918	1,682,740	1,061.10	6/6/2013	15.50	Not Measured	1045.60
				6/19/2013	16.60	13.45	1046.83
WB-9	537,714	1,682,425	1,058.92	6/6/2013	11.33	None	1047.59
				6/19/2013	12.00	None	1046.92
Manhole 8[b] (top of rim)	537,685	1,682,516	1,055.74	6/6/2013	11.65	None	1044.09
				6/19/2013	11.65	None	1044.09
Manhole 9[b] (top of rim)	537,955	1,682,567	1,057.27	6/6/2013	12.00	None	1045.27
				6/19/2013	12.00	None	1045.27

a - Water level in well(s) containing light non-aqueous phase free product is corrected assuming a specific gravity of 0.74 g/cm^3.
b - Depth to water measured in Manholes 8 and 9 is the invert elevation for the manhole and connecting pipes and is assumed constant. Neither manhole flows with more than few inches of sanitary sewerage under normal conditions.

Table 2-1: Soil Volatile Organic Compounds (VOCs)
Former Carpenter Facility
1100 Industries Road, Richmond, IN 47374
Prepared by Weaver Boos Consultants

Sample/Probe ID	Date	Units	Acetone	Acrolein	Acrylonitrile	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	2-Butanone (MEK)	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane
P-3 11.5-12'	7/6/2011	µg/kg	<100	<100	<100	**11.9**	<5	<5	<5	<5	<5	<25.1	<5	<5	<5	<10	<5	<5	<5	<5	<5
P-9 0-4'	8/15/2012	µg/kg	<101	<101	<101	<5	<5	<5	<5	<5	<5	<25.2	<5	<5	<5	<10.1	<5	<5	<5	<5	<5
P-10 0-4'	8/15/2012	µg/kg	<86.5	<86.5	<86.5	**4.4**	<4.3	<4.3	<4.3	<4.3	<4.3	<21.6	**6**	<4.3	<4.3	<8.6	<4.3	<4.3	<4.3	<4.3	<4.3
P-10 4-8'	8/15/2012	µg/kg	<73.4	<73.4	<73.4	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<18.4	<3.7	<3.7	<3.7	<7.3	<3.7	<3.7	<3.7	<3.7	<3.7
P-11 12-14'	8/15/2012	µg/kg	<74	<74	<74	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<18.5	<3.7	<3.7	<3.7	<7.4	<3.7	<3.7	<3.7	<3.7	<3.7
P-13 0-4'	8/15/2012	µg/kg	<71.4	<71.4	<71.4	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<17.9	<3.6	<3.6	<3.6	<7.1	<3.6	<3.6	<3.6	<3.6	<3.6
P-13 4-8'	8/15/2012	µg/kg	<84.1	<84.1	<84.1	<4.2	<4.2	<4.2	<4.2	<4.2	<4.2	<21	<4.2	<4.2	<4.2	<8.4	<4.2	<4.2	<4.2	<4.2	<4.2
P-14 0-4'	8/15/2012	µg/kg	<3250	<3250	<3250	<163	<163	<163	<163	<163	<163	<813	**607**	**162**	<163	<325	<163	<163	<163	<163	<163
P-14 4-8'	8/15/2012	µg/kg	<68.7	<68.7	<68.7	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<17.2	<3.4	<3.4	<3.4	<6.9	<3.4	<3.4	<3.4	<3.4	<3.4
P-16 0-4'	8/15/2012	µg/kg	<82.5	<82.5	<82.5	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<20.6	<4.1	<4.1	<4.1	<8.3	<4.1	<4.1	<4.1	<4.1	<4.1
P-17 0-4'	8/15/2012	µg/kg	<77.1	<77.1	<77.1	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<19.3	<3.9	<3.9	<3.9	<7.7	<3.9	<3.9	<3.9	<3.9	<3.9
Field Dup	8/15/2012	µg/kg	<104	<104	<104	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<26.1	<5.2	<5.2	<5.2	<10.4	<5.2	<5.2	<5.2	<5.2	<5.2
Trip Blank	8/15/2012	µg/kg	<100	<100	<100	<5	<5	<5	<5	<5	<5	<25	<5	<5	<5	<10	<5	<5	<5	<5	<5
P-22 15-17'	3/27/2013	µg/kg	<4,500	<4,500	<4,500	**4,020**	<225	<225	<225	<225	<225	<1130	**6,820**	**2,530**	<225	<450	<225	<225	<225	<225	<225
P-23 15-17'	3/27/2013	µg/kg	<77.2	<77.2	<77.2	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<19.3	<3.9	<3.9	<3.9	<7.7	<3.9	<3.9	<3.9	<3.9	<3.9
P-24 4-8'	3/27/2013	µg/kg	<95.4	<95.4	<95.4	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<23.8	<4.8	<4.8	<4.8	<9.5	<4.8	<4.8	<4.8	<4.8	<4.8
P-25 13-15'	3/27/2013	µg/kg	<65.8	<65.8	<65.8	**40.5**	<3.3	<3.3	<3.3	<3.3	<3.3	<16.4	<3.3	<3.3	<3.3	<6.6	<3.3	<3.3	<3.3	<3.3	<3.3
P-26 12-16'	3/27/2013	µg/kg	<68.2	<68.2	<68.2	**57.6**	<3.4	<3.4	<3.4	<3.4	<3.4	<17.0	<3.4	<3.4	<3.4	<6.8	<3.4	<3.4	<3.4	<3.4	<3.4
P-27 10-12'	3/27/2013	µg/kg	<72.8	<72.8	<72.8	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<18.2	<3.6	<3.6	<3.6	<7.3	<3.6	<3.6	<3.6	<3.6	<3.6
P-28 7-9'	3/27/2013	µg/kg	<74.2	<74.2	<74.2	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<18.6	<3.7	<3.7	<3.7	<7.4	<3.7	<3.7	<3.7	<3.7	<3.7
P-29 10-14'	3/27/2013	µg/kg	<67.7	<67.7	<67.7	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<16.9	<3.4	<3.4	<3.4	<6.8	<3.4	<3.4	<3.4	<3.4	<3.4
Field Dup 10-12'	3/27/2013	µg/kg	<69.9	<69.9	<69.9	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<17.5	<3.5	<3.5	<3.5	<7.0	<3.5	<3.5	<3.5	<3.5	<3.5
Trip Blank	3/27/2013	µg/kg	<100	<100	<100	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<25.0	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0

Residential SLs	µg/kg	85,000,000	210	340	15,000	420,000	220,000	3,800	870,000	10,000	28,000,000	110,000	---	---	740,000	8,500	410,000	2,100,000	4,100	170,000
Commercial/Industrial SLs	µg/kg	100,000,000	650	1,200	54,000	680,000	680,000	14,000	2,200,000	32,000	28,000,000	110,000	---	---	740,000	30,000	760,000	2,100,000	15,000	500,000
Excavation SLs	µg/kg	100,000,000	1,100	12,000	750,000	680,000	1,100,000	930,000	20,000,000	54,000	28,000,000	110,000	---	---	740,000	460,000	760,000	2,100,000	1,800,000	840,000
Soil MTG Residential SLs	µg/kg	49,000	0.17	2	51	730	41	430	42	35	21,000	50,000	---	---	4,200	39	1,400	120,000	440	980

Screening Levels (SLs) derived from Indiana Department of Environmental Management (IDEM) Remediation Closure Guide (RCG) Appendix A, with corrections through March 1, 2013.

123.45 Values in **BOLD** are concentrations above the detection limit.

123.45 Highlighted cells exceed the Screening Level corresponding to that color.

--- Three dashes indicate that the Screening Level was not listed in RCG Appendix A.

Table 2-1: Soil Volatile Organic Compounds (VOCs)
Former Carpenter Facility
1100 Industries Road, Richmond, IN 47374
Prepared by Weaver Boos Consultants

Sample/Probe ID	Date	Units	2-Chlorotoluene	4-Chlorotoluene	Dibromochloromethane	1,2-Dibromoethane (EDB)	Dibromomethane	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	trans-1,4-Dichloro-2-butene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,2-Dichloropropane	1,3-Dichloropropane	2,2-Dichloropropane	1,1-Dichloropropene	cis-1,3-Dichloropropene
P-3 11.5-12'	7/6/2011	µg/kg	<5	<5	<5	<5	<5	<5	<5	<5	<100	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
P-9 0-4'	8/15/2012	µg/kg	<5	<5	<5	<5	<5	<5	<5	<5	<101	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
P-10 0-4'	8/15/2012	µg/kg	<4.3	<4.3	<4.3	<4.3	<4.3	<4.3	<4.3	<4.3	<86.5	<4.3	<4.3	<4.3	<4.3	<4.3	<4.3	<4.3	<4.3	<4.3	<4.3	<4.3
P-10 4-8'	8/15/2012	µg/kg	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<73.4	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7
P-11 12-14'	8/15/2012	µg/kg	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<74	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7
P-13 0-4'	8/15/2012	µg/kg	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<71.4	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
P-13 4-8'	8/15/2012	µg/kg	<4.2	<4.2	<4.2	<4.2	<4.2	<4.2	<4.2	<4.2	<84.1	<4.2	<4.2	<4.2	<4.2	<4.2	<4.2	<4.2	<4.2	<4.2	<4.2	<4.2
P-14 0-4'	8/15/2012	µg/kg	<163	<163	<163	<163	<163	<163	<163	<163	<3250	<163	<163	<163	<163	<163	<163	<163	<163	<163	<163	<163
P-14 4-8'	8/15/2012	µg/kg	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<68.7	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4
P-16 0-4'	8/15/2012	µg/kg	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<82.5	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1
P-17 0-4'	8/15/2012	µg/kg	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<77.1	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9
Field Dup	8/15/2012	µg/kg	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<104	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2
Trip Blank	8/15/2012	µg/kg	<5	<5	<5	<5	<5	<5	<5	<5	<100	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
P-22 15-17'	3/27/2013	µg/kg	<225	<225	<225	<225	<225	<225	<225	<225	<4,500	<225	<225	<225	<225	<225	<225	<225	<225	<225	<225	<225
P-23 15-17'	3/27/2013	µg/kg	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<77.2	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9
P-24 4-8'	3/27/2013	µg/kg	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<95.4	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8
P-25 13-15'	3/27/2013	µg/kg	<3.3	<3.3	<3.3	<3.3	<3.3	<3.3	<3.3	<3.3	<65.8	<3.3	<3.3	<3.3	<3.3	<3.3	<3.3	<3.3	<3.3	<3.3	<3.3	<3.3
P-26 12-16'	3/27/2013	µg/kg	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<68.2	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4
P-27 10-12'	3/27/2013	µg/kg	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<72.8	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
P-28 7-9'	3/27/2013	µg/kg	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<74.2	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7
P-29 10-14'	3/27/2013	µg/kg	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<67.7	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4
Field Dup 10-12'	3/27/2013	µg/kg	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<69.9	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5
Trip Blank	3/27/2013	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0

Residential SLs	µg/kg	910,000	250,000	9,500	480	35,000	380,000	---	34,000	97	130,000	46,000	6,000	340,000	220,000	210,000	13,000	1,500,000	---	---	24,000
Commercial/Industrial SLs	µg/kg	910,000	250,000	3,300	1,700	110,000	380,000	---	120,000	350	400,000	170,000	22,000	1,100,000	2,000,000	690,000	47,000	1,500,000	---	---	83,000
Excavation SLs	µg/kg	910,000	250,000	800,000	180,000	180,000	380,000	---	17,000,000	49,000	670,000	1,700,000	250,000	1,200,000	2,400,000	1,200,000	120,000	1,500,000	---	---	570,000
Soil MTG Residential SLs	µg/kg	3,500	3,700	430	0.28	39	12,000	---	1,400	0.11	5,700	140	28	50	410	590	33	2,000	---	---	29

Screening Levels (SLs) derived from Indiana Department of Environmental Management (IDEM) Remediation Closure Guide (RCG) Appendix A, with corrections through March 1, 2013.

123.45 Values in **BOLD** are concentrations above the detection limit.

123.45 Highlighted cells exceed the Screening Level corresponding to that color.

--- Three dashes indicate that the Screening Level was not listed in RCG Appendix A.

Table 2-1: Soil Volatile Organic Compounds (VOCs)
Former Carpenter Facility
1100 Industries Road, Richmond, IN 47374
Prepared by Weaver Boos Consultants

Sample/Probe ID	Date	Units	trans-1,3-Dichloropropene	Ethylbenzene	Ethyl methacrylate	Hexachloro-1,3-butadiene	n-Hexane	2-Hexanone	Iodomethane	Isopropylbenzene (Cumene)	p-Isopropyltoluene	Methylene Chloride	4-Methyl-2-pentanone (MIBK)	Methyl-tert-butyl ether (MTBE)	Naphthalene	n-Propylbenzene	Styrene	1,1,1,2-Tetrachloroethane	1,1,2,2-Tetrachloroethane	Tetrachloroethene	Toluene
P-3 11.5-12'	7/6/2011	µg/kg	<5	**10.3**	<100	<5	<5	<100	<100	**5.9**	<5	<20.1	<25.1	<5	<5	<5	<5	<5	<5	<5	<5
P-9 0-4'	8/15/2012	µg/kg	<5	<5	<101	<5	<5	<101	<101	<5	<5	<20	<25.2	<5	<5	<5	<5	<5	<5	<5	<5
P-10 0-4'	8/15/2012	µg/kg	<4.3	**78**	<86.5	<4.3	**21.7**	<86.5	<86.5	**9**	<4.3	<17.3	<21.6	<4.3	**72.9**	**26.8**	<4.3	<4.3	<4.3	<4.3	<4.3
P-10 4-8'	8/15/2012	µg/kg	<3.7	<3.7	<73.4	<3.7	<3.7	<73.4	<73.4	<3.7	<3.7	<14.7	<18.4	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7
P-11 12-14'	8/15/2012	µg/kg	<3.7	**10.5**	<74	<3.7	<3.7	<74	<74	<3.7	<3.7	<14.8	<18.5	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7
P-13 0-4'	8/15/2012	µg/kg	<3.6	**12.5**	<71.4	<3.6	**10**	<71.4	<71.4	<3.6	<3.6	<14.3	<17.9	<3.6	**14.9**	**3.8**	<3.6	<3.6	<3.6	<3.6	<3.6
P-13 4-8'	8/15/2012	µg/kg	<4.2	<4.2	<84.1	<4.2	<4.2	<84.1	<84.1	<4.2	<4.2	<16.8	<21	<4.2	<4.2	<4.2	<4.2	<4.2	<4.2	<4.2	<4.2
P-14 0-4'	8/15/2012	µg/kg	<163	**2,190**	<3250	<163	**7,690**	<3250	<3,250	**488**	<163	<650	<813	<163	**4,070**	**1,710**	<163	<163	<163	<163	<163
P-14 4-8'	8/15/2012	µg/kg	<3.4	<3.4	<68.7	<3.4	<3.4	<68.7	<68.7	<3.4	<3.4	<13.7	<17.2	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4
P-16 0-4'	8/15/2012	µg/kg	<4.1	<4.1	<82.5	<4.1	<4.1	<82.5	<82.5	<4.1	<4.1	<16.5	<20.6	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1
P-17 0-4'	8/15/2012	µg/kg	<3.9	<3.9	<77.1	<3.9	<3.9	<77.1	<77.1	<3.9	<3.9	<15.4	<19.3	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9
Field Dup	8/15/2012	µg/kg	<5.2	7.6	<104	<5.2	<5.2	<104	<104	<5.2	<5.2	<20	<26.1	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2
Trip Blank	8/15/2012	µg/kg	<5	<5	<100	<5	<5	<100	<100	<5	<5	<20	<25	<5	<5	<5	<5	<5	<5	<5	<5
P-22 15-17'	3/27/2013	µg/kg	<225	**65,800**	<4,500	<225	**99,000**	<4,500	<4,500	**12,600**	**2,030**	<900	<1,130	<225	**26,400**	**26,600**	<225	<225	<225	<225	**10,400**
P-23 15-17'	3/27/2013	µg/kg	<3.9	<3.9	<77.2	<3.9	<3.9	<77.2	<77.2	<3.9	<3.9	<15.4	<19.3	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9
P-24 4-8'	3/27/2013	µg/kg	<4.8	<4.8	<95.4	<4.8	<4.8	<95.4	<95.4	<4.8	<4.8	<19.1	<23.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8
P-25 13-15'	3/27/2013	µg/kg	<3.3	**416**	<65.8	<3.3	<3.3	<65.8	<65.8	**28.6**	<3.3	<13.2	<16.4	<3.3	**56.4**	**38**	<3.3	<3.3	<3.3	<3.3	**18.9**
P-26 12-16'	3/27/2013	µg/kg	<3.4	**10.4**	<68.2	<3.4	<3.4	<68.2	<68.2	<3.4	<3.4	<13.6	<17.0	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4
P-27 10-12'	3/27/2013	µg/kg	<3.6	<3.6	<72.8	<3.6	<3.6	<72.8	<72.8	<3.6	<3.6	<14.6	<18.2	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
P-28 7-9'	3/27/2013	µg/kg	<3.7	<3.7	<74.2	<3.7	<3.7	<74.2	<74.2	<3.7	<3.7	<14.8	<18.6	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7
P-29 10-14'	3/27/2013	µg/kg	<3.4	<3.4	<67.7	<3.4	<3.4	<67.7	<67.7	<3.4	<3.4	<13.5	<16.9	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4
Field Dup 10-12'	3/27/2013	µg/kg	<3.5	<3.5	<69.9	<3.5	<3.5	<69.9	<69.9	<3.5	<3.5	<14.0	<17.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5
Trip Blank	3/27/2013	µg/kg	<5.0	<5.0	<100	<5.0	<5.0	<100	<100	<5.0	<5.0	<20.0	<20.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0

Residential SLs	µg/kg	24,000	76,000	1,100,000	85,000	140,000	290,000	---	270,000	---	500,000	3,400,000	600,000	50,000	260,000	870,000	27,000	7,800	120,000	820,000
Commercial/Industrial SLs	µg/kg	83,000	270,000	1,100,000	220,000	140,000	1,400,000	---	270,000	---	3,100,000	3,400,000	2,200,000	180,000	260,000	870,000	93,000	28,000	170,000	820,000
Excavation SLs	µg/kg	570,000	480,000	1,100,000	1,000,000	140,000	2,300,000	---	270,000	---	3,300,000	3,400,000	8,900,000	1,000,000	260,000	870,000	680,000	1,900,000	170,000	820,000
Soil MTG Residential SLs	µg/kg	29	16,000	2,000	100	34,000	160	---	13,000	---	25	4,500	540	92	20,000	2,200	38	5.2	45	14,000

Screening Levels (SLs) derived from Indiana Department of Environmental Management (IDEM) Remediation Closure Guide (RCG) Appendix A, with corrections through March 1, 2013.

123.45 Values in **BOLD** are concentrations above the detection limit.

123.45 Highlighted cells exceed the Screening Level corresponding to that color.

--- Three dashes indicate that the Screening Level was not listed in RCG Appendix A.

Table 2-1: Soil Volatile Organic Compounds (VOCs)
Former Carpenter Facility
1100 Industries Road, Richmond, IN 47374
Prepared by Weaver Boos Consultants

Sample/Probe ID	Date	Units	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene (TCE)	Trichlorofluoromethane	1,2,3-Trichloropropane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl acetate	Vinyl chloride	Xylenes (Total)
P-3 11.5-12'	7/6/2011	µg/kg	<5	<5	<5	<5	<5	<5	<5	**8.6**	<5	<100	<5	<10
P-9 0-4'	8/15/2012	µg/kg	<5	<5	<5	<5	<5	<5	<5	<5	<5	<101	<5	<10.1
P-10 0-4'	8/15/2012	µg/kg	<4.3	<4.3	<4.3	<4.3	<4.3	<4.3	<4.3	<4.3	<4.3	<86.5	<4.3	<8.6
P-10 4-8'	8/15/2012	µg/kg	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<73.4	<3.7	<7.3
P-11 12-14'	8/15/2012	µg/kg	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<74	<3.7	**10.4**
P-13 0-4'	8/15/2012	µg/kg	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	**14.9**	**7**	<71.4	<3.6	<7.1
P-13 4-8'	8/15/2012	µg/kg	<4.2	<4.2	<4.2	<4.2	<4.2	<4.2	<4.2	<4.2	<4.2	<84.1	<4.2	<8.4
P-14 0-4'	8/15/2012	µg/kg	<163	<163	<163	<163	<163	<163	<163	**14,800**	**4,030**	<3250	<163	**21,500**
P-14 4-8'	8/15/2012	µg/kg	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<68.7	<3.4	<6.9
P-16 0-4'	8/15/2012	µg/kg	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<82.5	<4.1	<8.3
P-17 0-4'	8/15/2012	µg/kg	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<77.1	<3.9	<7.7
Field Dup	8/15/2012	µg/kg	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<104	<5.2	<10.4
Trip Blank	8/15/2012	µg/kg	<5	<5	<5	<5	<5	<5	<5	<5	<5	<100	<5	<10
P-22 15-17'	3/27/2013	µg/kg	<225	<225	<225	<225	<225	<225	<225	**140,000**	**46,000**	<225	<225	**284,000**
P-23 15-17'	3/27/2013	µg/kg	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<77.2	<3.9	<7.7
P-24 4-8'	3/27/2013	µg/kg	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<95.4	<4.8	<9.5
P-25 13-15'	3/27/2013	µg/kg	<3.3	<3.3	<3.3	<3.3	<3.3	<3.3	<3.3	**183**	**60**	<65.8	<3.3	**180**
P-26 12-16'	3/27/2013	µg/kg	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<68.2	<3.4	**7.3**
P-27 10-12'	3/27/2013	µg/kg	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<72.8	<3.6	<7.3
P-28 7-9'	3/27/2013	µg/kg	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<74.2	<3.7	<7.4
P-29 10-14'	3/27/2013	µg/kg	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<67.7	<3.4	<6.8
Field Dup 10-12'	3/27/2013	µg/kg	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<69.9	<3.5	<7.0
Trip Blank	3/27/2013	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<100	<5.0	<10.0

Residential SLs	µg/kg	69,000	87,000	640,000	2,200	6,200	1,100,000	70	87,000	180,000	1,400,000	840	260,000
Commercial/Industrial SLs	µg/kg	490,000	270,000	640,000	6,800	20,000	1,200,000	950	220,000	180,000	2,800,000	17,000	260,000
Excavation SLs	µg/kg	820,000	400,000	640,000	1,100	34,000	1,200,000	37,000	220,000	180,000	2,800,000	660,000	260,000
Soil MTG Residential SLs	µg/kg	310	4,100	1,400	32	36	14,000	0.056	440	2,500	1,700	14	200,000

Screening Levels (SLs) derived from Indiana Department of Environmental Management (IDEM) Remediation Closure Guide (RCG) Appendix A, with corrections through March 1, 2013.

123.45 Values in **BOLD** are concentrations above the detection limit.

123.45 Highlighted cells exceed the Screening Level corresponding to that color.

--- Three dashes indicate that the Screening Level was not listed in RCG Appendix A.

Table 2-2: Soil Semi-Volatile Organic Compounds (SVOCs)
Former Carpenter Facility
1100 Industries Road, Richmond, IN 47374
Prepared by Weaver Boos Consultants

Sample/Probe ID	Date	Units	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Benzyl alcohol	4-Bromophenylphenyl ether	Butyl benzyl phthlate	4-Chloro-3-methylphenol	4-Chloroaniline	bis(2-Chloroethoxy)methane	bis(2-Chloroethyl) ether	bis(2-chloro-1-methylethyl) ether	2-Chloronaphthalene	2-Chlorophenol	4-Chlorophenyl phenyl ether	Chrysene	Dibenz(a,h)anthracene	Dibenzofuran
P-3 11.5-12'	7/6/2011	µg/kg	<363	<363	<363	<363	<363	<363	<363	<363	<726	<363	<363	<726	<726	<363	<363	<363	<363	<363	<363	<363	<363	<363
P-9 0-4'	8/15/2012	µg/kg	<360	<360	<360	<360	<360	<360	<360	<360	<720	<360	<360	<720	<720	<360	<360	<360	<360	<360	<360	<360	<360	<360
P-10 0-4'	8/15/2012	µg/kg	<368	<368	<368	<368	<368	<368	<368	<368	<736	<368	<368	<736	<736	<368	<368	<368	<368	<368	<368	<368	<368	<368
P-10 4-8'	8/15/2012	µg/kg	<368	<368	<368	<368	<368	<368	<368	<368	<736	<368	<368	<736	<736	<368	<368	<368	<368	<368	<368	<368	<368	<368
P-11 12-14'	8/15/2012	µg/kg	<362	<362	<362	<362	<362	<362	<362	<362	<724	<362	<362	<724	<724	<362	<362	<362	<362	<362	<362	<362	<362	<362
P-13 0-4'	8/15/2012	µg/kg	<363	<363	<363	<363	<363	<363	<363	<363	<727	<363	<363	<727	<727	<363	<363	<363	<363	<363	<363	<363	<363	<363
P-13 4-8'	8/15/2012	µg/kg	<367	<367	<367	<367	<367	<367	<367	<367	<733	<367	<367	<733	<733	<367	<367	<367	<367	<367	<367	<367	<367	<367
P-14 0-4'	8/15/2012	µg/kg	The container for sample P-14 0-4' was broken upon receipt by the laboratory; no soil was extracted for SVOC analysis.																					
P-14 4-8'	8/15/2012	µg/kg	<364	<364	<364	<364	<364	<364	<364	<364	<728	<364	<364	<728	<728	<364	<364	<364	<364	<364	<364	<364	<364	<364
P-16 0-4'	8/15/2012	µg/kg	<360	<360	<360	<360	<360	<360	<360	<360	<719	<360	<360	<719	<719	<360	<360	<360	<360	<360	<360	<360	<360	<360
P-17 0-4'	8/15/2012	µg/kg	<360	<360	<360	<360	<360	<360	<360	<360	<719	<360	<360	<719	<719	<360	<360	<360	<360	<360	<360	<360	<360	<360
Field Dup	8/15/2012	µg/kg	<364	<364	<364	<364	<364	<364	<364	<364	<727	<364	<364	<727	<727	<364	<364	<364	<364	<364	<364	<364	<364	<364
Residential SLs		µg/kg	4,800,000	---	24,000,000	2,100	210	2,100	---	21,000	8,500,000	---	3,600,000	8,500,000	34,000	250,000	2,900	64,000	8,800,000	550,000	---	210,000	210	110,000
Commercial/Industrial SLs		µg/kg	33,000,000	---	100,000,000	21,000	2,100	21,000	---	1,210,000	62,000,000	---	9,100,000	62,000,000	86,000	1,800,000	10,000	220,000	82,000,000	5,100,000	---	2,100,000	2,100	1,000,000
Excavation SLs		µg/kg	55,000,000	---	100,000,000	1,300,000	130,000	1,300,000	---	13,000,000	100,000,000	---	100,000,000	100,000,000	4,200,000	3,100,000	750,000	1,000,000	100,000,000	8,600,000	---	100,000,000	130,000	1,700,000
Soil MTG Residential SLs		µg/kg	82,000	---	860,000	2,100	4,700	7,000	---	68,000	7,300	---	41,000	26,000	27	210	0.63	23	57,000	1,200	---	210,000	2,200	2,100

Screening Levels (SLs) derived from Indiana Department of Environmental Management (IDEM) Remediation Closure Guide (RCG) Appendix A, with corrections through March 1, 2013.

123.45 Values in **BOLD** are concentrations above the detection limit.

123.45 Highlighted cells exceed the Screening Level corresponding to that color.

--- Three dashes indicate that the Screening Level was not listed in RCG Appendix A.

Table 2-2: Soil Semi-Volatile Organic Compounds (SVOCs)
Former Carpenter Facility
1100 Industries Road, Richmond, IN 47374
Prepared by Weaver Boos Consultants

Sample/Probe ID	Date	Units	3,3'-Dichlorobenzidine	2,4-Dichlorophenol	Diethyl phthalate	2,4-Dimethylphenol	Dimethyl phthalate	Di-n-butyl phthalate	4,6-Dinitro-2-methylphenol	2,4-Dinitrophenol	2,4-Dinitrotoluene	2,6-Dinitrotoluene	Di-n-octylphthalate	bis(2-Ethylhexyl)phthalate	Fluoranthene	Fluorene	Hexachloro-1,3-butadiene	Hexachlorobenzene	Hexachlorocyclopentadiene	Hexachloroethane	Indeno(1,2,3-cd)pyrene	Isophorone	2-Methylnaphthalene	2-Methylphenol (o-Cresol)
P-3 11.5-12'	7/6/2011	µg/kg	<726	<363	<363	<363	<363	<363	<1760	<1760	<363	<363	<363	<363	<363	<363	<363	<363	<363	<363	<363	<363	<363	<363
P-9 0-4'	8/15/2012	µg/kg	<720	<360	<360	<360	<360	<360	<1750	<1750	<360	<360	<360	<360	<360	<360	<360	<360	<360	<360	<360	<360	<360	<360
P-10 0-4'	8/15/2012	µg/kg	<736	<368	<368	<368	<368	<368	<1780	<1780	<368	<368	<368	<368	<368	<368	<368	<368	<368	<368	<368	<368	**689**	<368
P-10 4-8'	8/15/2012	µg/kg	<736	<368	<368	<368	<368	<368	<1780	<1780	<368	<368	<368	<368	<368	<368	<368	<368	<368	<368	<368	<368	<368	<368
P-11 12-14'	8/15/2012	µg/kg	<724	<362	<362	<362	<362	<362	<1750	<1750	<362	<362	<362	<362	<362	<362	<362	<362	<362	<362	<362	<362	<362	<362
P-13 0-4'	8/15/2012	µg/kg	<727	<363	<363	<363	<363	<363	<1760	<1760	<363	<363	<363	<363	<363	<363	<363	<363	<363	<363	<363	<363	<363	<363
P-13 4-8'	8/15/2012	µg/kg	<733	<367	<367	<367	<367	<367	<1780	<1780	<367	<367	<367	<367	<367	<367	<367	<367	<367	<367	<367	<367	<367	<367
P-14 0-4'	8/15/2012	µg/kg	The container for sample P-14 0-4' was broken upon receipt by the laboratory; no soil was extracted for SVOC analysis.																					
P-14 4-8'	8/15/2012	µg/kg	<728	<364	<364	<364	<364	<364	<1770	<1770	<364	<364	<364	<364	<364	<364	<364	<364	<364	<364	<364	<364	<364	<364
P-16 0-4'	8/15/2012	µg/kg	<719	<360	<360	<360	<360	<360	<1740	<1740	<360	<360	<360	<360	<360	<360	<360	<360	<360	<360	<360	<360	<360	<360
P-17 0-4'	8/15/2012	µg/kg	<719	<360	<360	<360	<360	<360	<1740	<1740	<360	<360	<360	<360	<360	<360	<360	<360	<360	<360	<360	<360	<360	<360
Field Dup	8/15/2012	µg/kg	<727	<364	<364	<364	<364	<364	<1760	<1760	<364	<364	<364	<364	<364	<364	<364	<364	<364	<364	<364	<364	<364	<364

Residential SLs	µg/kg	15,000	250,000	69,000,000	1,700,000	---	8,500,000	6,900	170,000	22,000	85,000	1,000,000	490,000	3,200,000	3,200,000	85,000	4,200	520,000	60,000	2,100	7,100,000	320,000	4,300,000
Commercial/Industrial SLs	µg/kg	38,000	1,800,000	100,000,000	12,000,000	---	62,000,000	49,000	1,200,000	55,000	620,000	7,400,000	1,200,000	22,000,000	22,000,000	220,000	11,000	3,700,000	430,000	21,000	18,000,000	2,200,000	31,000,000
Excavation SLs	µg/kg	2,200,000	3,100,000	100,000,000	20,000,000	---	100,000,000	82,000	2,000,000	2,000,000	1,000,000	12,000,000	20,000,000	37,000,000	37,000,000	1,000,000	630,000	6,200,000	730,000	1,300,000	100,000,000	3,700,000	52,000,000
Soil MTG Residential SLs	µg/kg	140	830	90,000	6,400	---	34,000	41	670	54	410	1,100,000	29,000	1,400,000	81,000	100	250	3,100	62	40,000	4,400	2,800	12,000

Screening Levels (SLs) derived from Indiana Department of Environmental Management (IDEM) Remediation Closure Guide (RCG) Appendix A, with corrections through March 1, 2013.

123.45 Values in **BOLD** are concentrations above the detection limit.

123.45 Highlighted cells exceed the Screening Level corresponding to that color.

--- Three dashes indicate that the Screening Level was not listed in RCG Appendix A.

Table 2-2: Soil Semi-Volatile Organic Compounds (SVOCs)
Former Carpenter Facility
1100 Industries Road, Richmond, IN 47374
Prepared by Weaver Boos Consultants

Sample/Probe ID	Date	Units	3 & 4-Methylphenol (m- & p-Cresol)	Naphthalene	2-Nitroaniline	3-Nitroaniline	4-Nitroaniline	Nitrobenzene	2-Nitrophenol	4-Nitrophenol	N-Nitroso-di-n-propylamine	N-Nitrosodiphenylamine	Pentachlorophenol	Phenanthrene	Phenol	Pyrene	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol
P-3 11.5-12'	7/6/2011	µg/kg	<726	<363	<1760	<1760	<1760	<363	<363	<1760	<363	<363	<1760	<363	<363	<363	<363	<363
P-9 0-4'	8/15/2012	µg/kg	<720	<360	<1750	<1750	<1750	<360	<360	<1750	<360	<360	<1750	<360	<360	<360	<360	<360
P-10 0-4'	8/15/2012	µg/kg	<736	**815**	<1780	<1780	<1780	<368	<368	<1780	<368	<368	<1780	<368	<368	<368	<368	<368
P-10 4-8'	8/15/2012	µg/kg	<736	<368	<1780	<1780	<1780	<368	<368	<1780	<368	<368	<1780	<368	<368	<368	<368	<368
P-11 12-14'	8/15/2012	µg/kg	<724	<362	<1750	<1750	<1750	<362	<362	<1750	<362	<362	<1750	<362	<362	<362	<362	<362
P-13 0-4'	8/15/2012	µg/kg	<727	<363	<1760	<1760	<1760	<363	<363	<1760	<363	<363	<1760	<363	<363	<363	<363	<363
P-13 4-8'	8/15/2012	µg/kg	<733	<367	<1780	<1780	<1780	<367	<367	<1780	<367	<367	<1780	<367	<367	<367	<367	<367
P-14 0-4'	8/15/2012	µg/kg	The container for sample P-14 0-4' was broken upon receipt by the laboratory; no soil was extracted for SVOC analysis.															
P-14 4-8'	8/15/2012	µg/kg	<728	<364	<1770	<1770	<1770	<364	<364	<1770	<364	<364	<1770	<364	<364	<364	<364	<364
P-16 0-4'	8/15/2012	µg/kg	<719	<360	<1740	<1740	<1740	<360	<360	<1740	<360	<360	<1740	<360	<360	<360	<360	<360
P-17 0-4'	8/15/2012	µg/kg	<719	<360	<1740	<1740	<1740	<360	<360	<1740	<360	<360	<1740	<360	<360	<360	<360	<360
Field Dup	8/15/2012	µg/kg	<727	<364	<1760	<1760	<1760	<364	<364	<1760	<364	<364	<1760	<364	<364	<364	<364	<364
Residential SLs		µg/kg	4,300,000	50,000	850,000	---	340,000	67,000	---	---	970	1,400,000	12,000	---	25,000,000	2,400,000	8,500,000	85,000
Commercial/Industrial SLs		µg/kg	31,000,000	180,000	6,000,000	---	860,000	240,000	---	---	2,500	3,500,000	27,000	---	100,000,000	17,000,000	62,000,000	620,000
Excavation SLs		µg/kg	52,000,000	1,000,000	9,900,000	---	4,200,000	2,000,000	---	---	140,000	100,000,000	2,000,000	---	100,000,000	28,000,000	100,000,000	1,000,000
Soil MTG Residential SLs		µg/kg	12,000	92	1,300	---	280	16	---	---	1.4	11,000	200	---	52,000	190,000	67,000	680

Screening Levels (SLs) derived from Indiana Department of Environmental Management (IDEM) Remediation Closure Guide (RCG) Appendix A, with corrections through March 1, 2013.

123.45 Values in **BOLD** are concentrations above the detection limit.

123.45 Highlighted cells exceed the Screening Level corresponding to that color.

--- Three dashes indicate that the Screening Level was not listed in RCG Appendix A.

Table 2-3: Soil Total Petroleum Hydrocarbons (TPHs)

Former Carpenter Facility

1100 Industries Road, Richmond, IN 47374

Prepared by Weaver Boos Consultants

Sample/Probe ID	Date	Units	Gasoline Range Organics	Diesel Range Organics (C8-C28)
P-3 11.5-12'	7/6/2011	mg/kg	**1.8**	<11
P-9 0-4'	8/15/2012	mg/kg	<0.84	<10.9
P-10 0-4'	8/15/2012	mg/kg	**2.8**	**31.7**
P-10 4-8'	8/15/2012	mg/kg	<0.81	<11.1
P-11 12-14'	8/15/2012	mg/kg	<0.95	<11
P-13 0-4'	8/15/2012	mg/kg	**1.1**	**32.1**
P-13 4-8'	8/15/2012	mg/kg	<0.72	<11.1
P-14 0-4'	8/15/2012	mg/kg	**39.2**	-
P-14 4-8'	8/15/2012	mg/kg	<0.69	<11
P-16 0-4'	8/15/2012	mg/kg	**1.6**	<10.9
P-17 0-4'	8/15/2012	mg/kg	**11.3**	<10.9
Field Dup	8/15/2012	mg/kg	<0.73	<11

IDEM RISC Residential Default Closure Level	mg/kg	120	230
IDEM RISC Industrial Default Closure Level	mg/kg	1,500	2,300

Note: IDEM's RISC guidelines have been superseded by RCG, but we use the old standard because RCG provides no Screening Levels for TPHs.

123.45	**BOLD** values are concentrations above the detection limit.
123.45	Highlighted cells exceed the corresponding Closure Level.
-	One dash indicates the constituent was not measured.

Table 3-1: Groundwater Volatile Organic Compounds (VOCs)
Former Carpenter Facility
1100 Industries Road, Richmond, IN 47374
Prepared by Weaver Boos Consultants

Well/Sample ID	Date	Units	Acetone	Acrolein	Acrylonitrile	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	2-Butanone (MEK)	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	2-Chlorotoluene	4-Chlorotoluene	Dibromochloromethane	1,2-Dibromoethane (EDB)	Dibromomethane
P-1	7/7/2011	µg/L	<100	<50	<100	<5	<5	<5	<5	<5	<5	<25	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
P-2	7/7/2011	µg/L	<100	<50	<100	<5	<5	<5	<5	<5	<5	<25	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
P-3	7/7/2011	µg/L	<100	<50	<100	<5	<5	<5	<5	<5	<5	<25	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
P-4	7/7/2011	µg/L	<100	<50	<100	<5	<5	<5	<5	<5	<5	<25	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
P-5	7/7/2011	µg/L	<100	<50	<100	<5	<5	<5	<5	<5	<5	<25	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
P-6	7/7/2011	µg/L	**101**	<50	<100	**292**	<5	<5	<5	<5	<5	<25	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
P-7	7/7/2011	µg/L	<100	<50	<100	<5	<5	<5	<5	<5	<5	<25	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
P-8	7/7/2011	µg/L	<100	<50	<100	<5	<5	<5	<5	<5	<5	<25	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Field Dup	7/7/2011	µg/L	<100	<50	<100	**271**	<5	<5	<5	<5	<5	<25	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Equip Blank	7/7/2011	µg/L	<100	<50	<100	<5	<5	<5	<5	<5	<5	<25	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Trip Blank	7/7/2011	µg/L	<100	<50	<100	<5	<5	<5	<5	<5	<5	<25	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
P-9	8/16/2012	µg/L	<100	<50	<100	<5	<5	<5	<5	<5	<5	<25	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
P-10	8/16/2012	µg/L	<100	<50	<100	<5	<5	<5	<5	<5	<5	<25	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
P-11	8/16/2012	µg/L	<100	<50	<100	<5	<5	<5	<5	<5	<5	<25	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Field Dup-2	8/16/2012	µg/L	<100	<50	<100	<5	<5	<5	<5	<5	<5	<25	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Equip Blank-2	8/16/2012	µg/L	<100	<50	<100	<5	<5	<5	<5	<5	<5	<25	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Trip Blank	8/16/2012	µg/L	<100	<50	<100	<5	<5	<5	<5	<5	<5	<25	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Manhole #8	3/28/2013	µg/L	<100	<50	<100	**14.2**	<5	<5	<5	<5	<5	<25	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
P-22	3/28/2013	µg/L	<100	<50	<100	**1640**	<5	<5	<5	<5	<5	<25	<5	**13.9**	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
P-24	3/28/2013	µg/L	<100	<50	<100	<5	<5	<5	<5	<5	<5	<25	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
P-25	3/28/2013	µg/L	<100	<50	<100	**39.5**	<5	<5	<5	<5	<5	<25	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
P-26	3/28/2013	µg/L	<100	<50	<100	**106**	<5	<5	<5	<5	<5	<25	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
P-28	3/28/2013	µg/L	<100	<50	<100	<5	<5	<5	<5	<5	<5	<25	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
P-29	3/28/2013	µg/L	<100	<50	<100	**287**	<5	<5	<5	<5	<5	<25	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
P-30	3/28/2013	µg/L	<100	<50	<100	**22.1**	<5	<5	<5	<5	<5	<25	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Field Dup	3/28/2013	µg/L	<100	<50	<100	**34.6**	<5	<5	<5	<5	<5	<25	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Equip Blank	3/28/2013	µg/L	<100	<50	<100	<5	<5	<5	<5	<5	<5	<25	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Trip Blank	3/28/2013	µg/L	<100	<50	<100	<5	<5	<5	<5	<5	<5	<25	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
WB-1	6/6/2013	µg/L	<100	<50	<100	**17.8**	<5	<5	<5	<5	<5	<25	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
WB-2	6/6/2013	µg/L	<100	<50	<100	<5	<5	<5	<5	<5	<5	<25	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
WB-3	6/6/2013	µg/L	<100	<50	<100	<5	<5	<5	<5	<5	<5	<25	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
WB-4	6/6/2013	µg/L	<100	<50	<100	<5	<5	<5	<5	<5	<5	<25	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
WB-5	6/6/2013	µg/L	<100	<50	<100	<5	<5	<5	<5	<5	<5	<25	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
WB-6	6/6/2013	µg/L	<100	<50	<100	<5	<5	<5	<5	<5	<5	<25	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
WB-7	6/6/2013	µg/L	<100	<50	<100	<5	<5	<5	<5	<5	<5	<25	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
WB-8	6/6/2013	µg/L	<100	<50	<100	**1030**	<5	<5	<5	<5	<5	<25	<5	**14.0**	<5	<10	<5	<5	<5	<5	<5	**220**	<5	<5	<5	<5
WB-9	6/6/2013	µg/L	<100	<50	<100	<5	<5	<5	<5	<5	<5	<25	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Field Dup	6/6/2013	µg/L	<100	<50	<100	<5	<5	<5	<5	<5	<5	<25	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Equip Blank	6/6/2013	µg/L	<100	<50	<100	<5	<5	<5	<5	<5	<5	<25	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Trip Blank	6/6/2013	µg/L	<100	<50	<100	<5	<5	<5	<5	<5	<5	<25	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Res. Tap Water SLs		µg/L	12,000	0.041	0.45	5	54	83	80	80	7	4,900	780	---	---	720	5	100	21,000	80	190	180	190	80	0.05	7.9
Res. Vapor SLs		µg/L	---	---	---	24	---	---	---	---	---	---	---	---	---	---	5.7	---	---	---	---	---	---	---	---	---
Com/Ind Vapor SLs		µg/L	---	---	---	120	---	---	---	---	---	---	---	---	---	---	28	---	---	---	---	---	---	---	---	---

Screening Levels (SLs) derived from Indiana Department of Environmental Management (IDEM) Remediation Closure Guide (RCG) Appendix A, with corrections through March 1, 2013.

-	One dash indicates that the constituent was not analyzed for that sample.
123.45	Values in **BOLD** are concentrations above the detection limit.
123.45	Highlighted cells exceed the Screening Level corresponding to that color.
---	Three dashes indicate that the Screening Level was not listed in RCG Appendix A.

Table 3-1: Groundwater Volatile Organic Compounds (VOCs)
Former Carpenter Facility
1100 Industries Road, Richmond, IN 47374
Prepared by Weaver Boos Consultants

Well/Sample ID	Date	Units	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	trans-1,4-Dichloro-2-butene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,2-Dichloropropane	1,3-Dichloropropane	2,2-Dichloropropane	1,1-Dichloropropene	cis-1,3-Dichloropropene	trans-1,3-Dichloropropene	1,4-Dioxane (p-Dioxane)	Ethylbenzene	Ethyl methacrylate	Hexachloro-1,3-butadiene	n-Hexane	2-Hexanone	Iodomethane	Isopropylbenzene (Cumene)	p-Isopropyltoluene
P-1	7/7/2011	µg/L	<5	<5	<5	<100	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<100	<5	<100	<5	<5	<25	<10	<5	<5
P-2	7/7/2011	µg/L	<5	<5	<5	<100	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<100	<5	<100	<5	<5	<25	<10	<5	<5
P-3	7/7/2011	µg/L	<5	<5	<5	<100	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<100	<5	<100	<5	<5	<25	<10	<5	<5
P-4	7/7/2011	µg/L	<5	<5	<5	<100	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<100	**11.2**	<100	<5	<5	<25	<10	**41.8**	<5
P-5	7/7/2011	µg/L	<5	<5	<5	<100	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<100	<5	<100	<5	<5	<25	<10	<5	<5
P-6	7/7/2011	µg/L	<5	<5	<5	<100	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<100	**318**	<100	<5	**21.2**	<25	<10	**29.6**	<5
P-7	7/7/2011	µg/L	<5	<5	<5	<100	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<100	<5	<100	<5	<5	<25	<10	<5	<5
P-8	7/7/2011	µg/L	<5	<5	<5	<100	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<100	<5	<100	<5	<5	<25	<10	<5	<5
Field Dup	7/7/2011	µg/L	<5	<5	<5	<100	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<100	**289**	<100	<5	**15.8**	<25	<10	**23.8**	<5
Equip Blank	7/7/2011	µg/L	<5	<5	<5	<100	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<100	<5	<100	<5	<5	<25	<10	<5	<5
Trip Blank	7/7/2011	µg/L	<5	<5	<5	<100	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<100	<5	<100	<5	<5	<25	<10	<5	<5
P-9	8/16/2012	µg/L	<5	<5	<5	<100	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	-	<5	<100	<5	<5	<25	<10	<5	<5
P-10	8/16/2012	µg/L	<5	<5	<5	<100	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	-	<5	<100	<5	<5	<25	<10	<5	<5
P-11	8/16/2012	µg/L	<5	<5	<5	<100	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	-	<5	<100	<5	<5	<25	<10	<5	<5
Field Dup-2	8/16/2012	µg/L	<5	<5	<5	<100	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	-	<5	<100	<5	<5	<25	<10	<5	<5
Equip Blank-2	8/16/2012	µg/L	<5	<5	<5	<100	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	-	<5	<100	<5	<5	<25	<10	<5	<5
Trip Blank	8/16/2012	µg/L	<5	<5	<5	<100	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	-	<5	<100	<5	<5	<25	<10	<5	<5
Manhole #8	3/28/2013	µg/L	<5	<5	<5	<100	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	-	<5	<100	<5	<5	<25	<10	<5	<5
P-22	3/28/2013	µg/L	<5	<5	<5	<100	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	-	**1850**	<100	<5	**329**	<25	<10	**262**	**11.5**
P-24	3/28/2013	µg/L	<5	<5	<5	<100	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	-	<5	<100	<5	<5	<25	<10	<5	<5
P-25	3/28/2013	µg/L	<5	<5	<5	<100	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	-	**170**	<100	<5	**104**	<25	<10	**24.2**	<5
P-26	3/28/2013	µg/L	<5	<5	<5	<100	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	-	**138**	<100	<5	**46.1**	<25	<10	**33.9**	<5
P-28	3/28/2013	µg/L	<5	<5	<5	<100	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	-	<5	<100	<5	<5	<25	<10	<5	<5
P-29	3/28/2013	µg/L	<5	<5	<5	<100	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	-	<5	<100	<5	<5	<25	<10	<5	<5
P-30	3/28/2013	µg/L	<5	<5	<5	<100	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	-	**17.6**	<100	<5	<5	<25	<10	<5	<5
Field Dup	3/28/2013	µg/L	<5	<5	<5	<100	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	-	**150**	<100	<5	**86.7**	<25	<10	**21.1**	<5
Equip Blank	3/28/2013	µg/L	<5	<5	<5	<100	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	-	<5	<100	<5	<5	<25	<10	<5	<5
Trip Blank	3/28/2013	µg/L	<5	<5	<5	<100	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	-	<5	<100	<5	<5	<25	<10	<5	<5
WB-1	6/6/2013	µg/L	<5	<5	<5	<100	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	-	**64.3**	<100	<5	**129**	<25	<10	**18.7**	<5
WB-2	6/6/2013	µg/L	<5	<5	<5	<100	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	-	<5	<100	<5	<5	<25	<10	<5	<5
WB-3	6/6/2013	µg/L	<5	<5	<5	<100	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	-	<5	<100	<5	<5	<25	<10	<5	<5
WB-4	6/6/2013	µg/L	<5	<5	<5	<100	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	-	<5	<100	<5	<5	<25	<10	<5	<5
WB-5	6/6/2013	µg/L	<5	<5	<5	<100	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	-	<5	<100	<5	<5	<25	<10	<5	<5
WB-6	6/6/2013	µg/L	<5	<5	<5	<100	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	-	<5	<100	<5	<5	<25	<10	<5	<5
WB-7	6/6/2013	µg/L	<5	<5	<5	<100	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	-	<5	<100	<5	<5	<25	<10	<5	<5
WB-8	6/6/2013	µg/L	<5	<5	<5	<100	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	-	**4040**	<100	<5	**2640**	<25	<10	**272**	**11.6**
WB-9	6/6/2013	µg/L	<5	<5	<5	<100	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	-	<5	<100	<5	<5	<25	<10	<5	<5
Field Dup	6/6/2013	µg/L	<5	<5	<5	<100	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	-	<5	<100	<5	<5	<25	<10	<5	<5
Equip Blank	6/6/2013	µg/L	<5	<5	<5	<100	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	-	<5	<100	<5	<5	<25	<10	<5	<5
Trip Blank	6/6/2013	µg/L	<5	<5	<5	<100	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	-	<5	<100	<5	<5	<25	<10	<5	<5
Res. Tap Water SLs		µg/L	600	---	75	0.012	190	24	5	7	70	100	5	290	---	---	4.1	4.1	6.7	700	420	2.6	250	34	---	390	---
Res. Vapor SLs		µg/L	---	---	---	---	---	110	43	300	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Com/Ind Vapor SLs		µg/L	---	---	---	---	---	550	210	1,300	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Screening Levels (SLs) derived from Indiana Department of Environmental Management (IDEM) Remediation Closure Guide (RCG) Appendix A, with corrections through March 1, 2013.

-	One dash indicates that the constituent was not analyzed for that sample.
123.45	Values in **BOLD** are concentrations above the detection limit.
123.45	Highlighted cells exceed the Screening Level corresponding to that color.
---	Three dashes indicate that the Screening Level was not listed in RCG Appendix A.

Table 3-1: Groundwater Volatile Organic Compounds (VOCs)
Former Carpenter Facility
1100 Industries Road, Richmond, IN 47374
Prepared by Weaver Boos Consultants

Well/Sample ID	Date	Units	Methylene Chloride	4-Methyl-2-pentanone (MIBK)	Methyl-tert-butyl ether (MTBE)	Naphthalene	n-Propylbenzene	Styrene	1,1,1,2-Tetrachloroethane	1,1,2,2-Tetrachloroethane	Tetrachloroethene	Toluene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene (TCE)	Trichlorofluoromethane	1,2,3-Trichloropropane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl acetate	Vinyl chloride	Xylenes (Total)
P-1	7/7/2011	µg/L	<5	<25	<4	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<50	<2	<10
P-2	7/7/2011	µg/L	<5	<25	**8.3**	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<50	<2	<10
P-3	7/7/2011	µg/L	<5	<25	<4	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<50	<2	<10
P-4	7/7/2011	µg/L	<5	<25	<4	<5	**12.6**	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	**109**	**8.1**	<50	**2.3**	<10
P-5	7/7/2011	µg/L	<5	<25	<4	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<50	<2	<10
P-6	7/7/2011	µg/L	<5	<25	<4	**53.6**	**24.4**	<5	<5	<5	<5	**24.9**	<5	<5	<5	<5	<5	<5	<5	**207**	**32.5**	<50	<2	**738**
P-7	7/7/2011	µg/L	<5	<25	<4	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<50	<2	<10
P-8	7/7/2011	µg/L	<5	<25	<4	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<50	<2	<10
Field Dup	7/7/2011	µg/L	<5	<25	<4	**42.4**	**18.6**	<5	<5	<5	<5	**23.5**	<5	<5	<5	<5	<5	<5	<5	**188**	**29.2**	<50	<2	**672**
Equip Blank	7/7/2011	µg/L	<5	<25	<4	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<50	<2	<10
Trip Blank	7/7/2011	µg/L	<5	<25	<4	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<50	<2	<10
P-9	8/16/2012	µg/L	<5	<25	<4	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<50	<2	<10
P-10	8/16/2012	µg/L	<5	<25	<4	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<50	<2	<10
P-11	8/16/2012	µg/L	<5	<25	**7**	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<50	<2	<10
Field Dup-2	8/16/2012	µg/L	<5	<25	<4	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<50	<2	<10
Equip Blank-2	8/16/2012	µg/L	<5	<25	<4	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<50	<2	<10
Trip Blank	8/16/2012	µg/L	<5	<25	<4	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<50	<2	<10
Manhole #8	3/28/2013	µg/L	<5	<25	<4	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<50	<2	<10
P-22	3/28/2013	µg/L	<5	<25	**219**	**473**	**298**	<5	<5	<5	<5	**1770**	<5	<5	<5	<5	<5	<5	<5	**1560**	**420**	<50	<2	**8570**
P-24	3/28/2013	µg/L	<5	<25	<4	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<50	<2	<10
P-25	3/28/2013	µg/L	<5	<25	<4	**33.5**	**27.9**	<5	<5	<5	<5	**19.3**	<5	<5	<5	<5	<5	<5	<5	**166**	**53.6**	<50	<2	**370**
P-26	3/28/2013	µg/L	<5	<25	<4	**34.9**	**28.1**	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	**195**	**32.3**	<50	<2	**183**
P-28	3/28/2013	µg/L	<5	<25	<4	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<50	<2	<10
P-29	3/28/2013	µg/L	<5	<25	<4	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<50	<2	<10
P-30	3/28/2013	µg/L	<5	<25	**5.3**	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<50	<2	<10
Field Dup	3/28/2013	µg/L	<5	<25	<4	**36.6**	**23.3**	<5	<5	<5	<5	**18.1**	<5	<5	<5	<5	<5	<5	<5	**141**	**45**	<50	<2	**323**
Equip Blank	3/28/2013	µg/L	<5	<25	<4	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<50	<2	<10
Trip Blank	3/28/2013	µg/L	<5	<25	<4	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<50	<2	<10
WB-1	6/6/2013	µg/L	<5	<25	<4	**19.7**	**26.6**	<5	<5	<5	<5	**33.1**	<5	<5	<5	<5	<5	<5	<5	**168**	**50.3**	<50	<2	**327**
WB-2	6/6/2013	µg/L	<5	<25	<4	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<50	<2	<10
WB-3	6/6/2013	µg/L	<5	<25	<4	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<50	<2	<10
WB-4	6/6/2013	µg/L	<5	<25	<4	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<50	<2	<10
WB-5	6/6/2013	µg/L	<5	<25	<4	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<50	<2	<10
WB-6	6/6/2013	µg/L	<5	<25	<4	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<50	<2	<10
WB-7	6/6/2013	µg/L	<5	<25	<4	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<50	<2	<10
WB-8	6/6/2013	µg/L	<5	<25	<4	**1500**	**1120**	<5	<5	<5	<5	**6690**	<5	<5	<5	<5	<5	<5	<5	**7970**	**2200**	<50	<2	**20200**
WB-9	6/6/2013	µg/L	<5	<25	<4	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<50	<2	<10
Field Dup	6/6/2013	µg/L	<5	<25	<4	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<50	<2	<10
Equip Blank	6/6/2013	µg/L	<5	<25	<4	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<50	<2	<10
Trip Blank	6/6/2013	µg/L	<5	<25	<4	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<50	<2	<10
Res. Tap Water SLs		µg/L	5	1,000	120	1.4	530	100	5	0.66	5	1,000	5.2	70	200	5	5	1,100	0.0065	15	87	410	2	10,000
Res. Vapor SLs		µg/L	---	---	---	91	---	---	---	63	110	---	---	---	13,000	11	9.1	---	---	---	---	---	2	---
Com/Ind Vapor SLs		µg/L	---	---	---	460	---	---	---	310	470	---	---	---	54,000	46	38	---	---	---	---	---	35	---

Screening Levels (SLs) derived from Indiana Department of Environmental Management (IDEM) Remediation Closure Guide (RCG) Appendix A, with corrections through March 1, 2013.

-	One dash indicates that the constituent was not analyzed for that sample.
123.45	Values in **BOLD** are concentrations above the detection limit.
123.45	Highlighted cells exceed the Screening Level corresponding to that color.
---	Three dashes indicate that the Screening Level was not listed in RCG Appendix A.

Table 3-2: Groundwater Semi-Volatile Organic Compounds (SVOCs)
Former Carpenter Facility
1100 Industries Road, Richmond, IN 47374
Prepared by Weaver Boos Consultants

Monitoring Well	Date	Units	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Benzyl alcohol	4-Bromophenylphenyl ether	Butyl benzyl phthlate	4-Chloro-3-methylphenol	4-Chloroaniline	bis(2-Chloroethoxy)methane	bis(2-Chloroethyl) ether	bis(2-chloro-1-methylethyl) ether	2-Chloronaphthalene	2-Chlorophenol	4-Chlorophenylphenylether	Chrysene
P-1	7/7/2011	µg/L	<10.5	<10.5	<10.5	<10.5	<10.5	<10.5	<10.5	<10.5	<21.1	<10.5	<10.5	<21.1	<21.1	<10.5	<10.5	<5.3	<10.5	<10.5	<10.5	<10.5
P-2	7/7/2011	µg/L	<10.4	<10.4	<10.4	<10.4	<10.4	<10.4	<10.4	<10.4	<20.8	<10.4	<10.4	<20.8	<20.8	<10.4	<10.4	<5.2	<10.4	<10.4	<10.4	<10.4
P-3	7/7/2011	µg/L	<10.5	<10.5	<10.5	<10.5	<10.5	<10.5	<10.5	<10.5	<21.1	<10.5	<10.5	<21.1	<21.1	<10.5	<10.5	<5.3	<10.5	<10.5	<10.5	<10.5
P-4	7/7/2011	µg/L	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<25.0	<12.5	<12.5	<25.0	<25.0	<12.5	<12.5	<6.2	<12.5	<12.5	<12.5	<12.5
P-5	7/7/2011	µg/L	<10.8	<10.8	<10.8	<10.8	<10.8	<10.8	<10.8	<10.8	<21.5	<10.8	<10.8	<21.5	<21.5	<10.8	<10.8	<5.4	<10.8	<10.8	<10.8	<10.8
P-6	7/7/2011	µg/L	<10.4	<10.4	<10.4	<10.4	<10.4	<10.4	<10.4	<10.4	<20.8	<10.4	<10.4	<20.8	<20.8	<10.4	<10.4	<5.2	<10.4	<10.4	<10.4	<10.4
P-7	7/7/2011	µg/L	<10.9	<10.9	<10.9	<10.9	<10.9	<10.9	<10.9	<10.9	<21.7	<10.9	<10.9	<21.7	<21.7	<10.9	<10.9	<5.4	<10.9	<10.9	<10.9	<10.9
P-8	7/7/2011	µg/L	<10.5	<10.5	<10.5	<10.5	<10.5	<10.5	<10.5	<10.5	<21.1	<10.5	<10.5	<21.1	<21.1	<10.5	<10.5	<5.3	<10.5	<10.5	<10.5	<10.5
Field Dup	7/7/2011	µg/L	<10.8	<10.8	<10.8	<10.8	<10.8	<10.8	<10.8	<10.8	<21.5	<10.8	<10.8	<21.5	<21.5	<10.8	<10.8	<5.4	<10.8	<10.8	<10.8	<10.8
Equip Blank	7/7/2011	µg/L	<10.6	<10.6	<10.6	<10.6	<10.6	<10.6	<10.6	<10.6	<21.3	<10.6	<10.6	<21.3	<21.3	<10.6	<10.6	<5.3	<10.6	<10.6	<10.6	<10.6
P-9	8/16/2012	µg/L	<10.3	<10.3	<10.3	<10.3	<10.3	<10.3	<10.3	<10.3	<20.6	<10.3	<10.3	<20.6	<20.6	<10.3	<10.3	<5.2	<10.3	<10.3	<10.3	<10.3
P-10	8/16/2012	µg/L	<10.5	<10.5	<10.5	<10.5	<10.5	<10.5	<10.5	<10.5	<21.1	<10.5	<10.5	<21.1	<21.1	<10.5	<10.5	<5.3	<10.5	<10.5	<10.5	<10.5
P-11	8/16/2012	µg/L	<10.5	<10.5	<10.5	<10.5	<10.5	<10.5	<10.5	<10.5	<21.1	<10.5	<10.5	<21.1	<21.1	<10.5	<10.5	<5.3	<10.5	<10.5	<10.5	<10.5
Field Dup-2	8/16/2012	µg/L	<10.2	<10.2	<10.2	<10.2	<10.2	<10.2	<10.2	<10.2	<20.4	<10.2	<10.2	<20.4	<20.4	<10.2	<10.2	<5.1	<10.2	<10.2	<10.2	<10.2
Equip Blank-2	8/16/2012	µg/L	<10.8	<10.8	<10.8	<10.8	<10.8	<10.8	<10.8	<10.8	<21.5	<10.8	<10.8	<21.5	<21.5	<10.8	<10.8	<5.4	<10.8	<10.8	<10.8	<10.8

Res. Tap Water SLs	µg/L	400	---	1,300	0.29	0.2	0.29	---	2.9	1,500	---	140	1,100	3.2	46	0.12	3.1	550	71	---	29
Res. Vapor SLs	µg/L	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Com/Ind Vapor SLs	µg/L	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Screening Levels (SLs) derived from Indiana Department of Environmental Management (IDEM) Remediation Closure Guide (RCG) Appendix A, with corrections through March 1, 2013.

123.45 Values in **BOLD** are concentrations above the detection limit.

123.45 Highlighted cells exceed the Screening Level corresponding to that color.

--- Three dashes indicate that the Screening Level was not listed in RCG Appendix A.

Table 3-2: Groundwater Semi-Volatile Organic Compounds (SVOCs)
Former Carpenter Facility
1100 Industries Road, Richmond, IN 47374
Prepared by Weaver Boos Consultants

Monitoring Well	Date	Units	Dibenzo(a,h)anthracene	Dibenzofuran	3,3'-Dichlorobenzidine	2,4-Dichlorophenol	Diethyl phthalate	2,4-Dimethylphenol	Dimethylphthalate	Di-n-butylphthalate	4,6-Dinitro-2-methylphenol	2,4-Dinitrophenol	2,4-Dinitrotoluene	2,6-Dinitrotoluene	Di-n-octyl phthalate	bis(2-Ethylhexyl)phthalate	Fluoranthene	Fluorene	Hexachloro-1,3-butadiene	Hexachlorobenzene	Hexachlorocyclopentadiene	Hexachloroethane
P-1	7/7/2011	µg/L	<10.5	<10.5	<21.1	<10.5	<10.5	<10.5	<10.5	<10.5	<52.6	<52.6	<10.5	<10.5	<10.5	<5.3	<10.5	<10.5	<5.3	<10.5	<21.1	<10.5
P-2	7/7/2011	µg/L	<10.4	<10.4	<20.8	<10.4	<10.4	<10.4	<10.4	<10.4	<52.1	<52.1	<10.4	<10.4	<10.4	<5.2	<10.4	<10.4	<5.2	<10.4	<20.8	<10.4
P-3	7/7/2011	µg/L	<10.5	<10.5	<21.1	<10.5	<10.5	<10.5	<10.5	<10.5	<52.6	<52.6	<10.5	<10.5	<10.5	<5.3	<10.5	<10.5	<5.3	<10.5	<21.1	<10.5
P-4	7/7/2011	µg/L	<12.5	<12.5	<25.0	<12.5	<12.5	<12.5	<12.5	<12.5	<62.5	<62.5	<12.5	<12.5	<12.5	<6.2	<12.5	<12.5	<6.2	<12.5	<25.0	<12.5
P-5	7/7/2011	µg/L	<10.8	<10.8	<21.5	<10.8	<10.8	<10.8	<10.8	<10.8	<53.8	<53.8	<10.8	<10.8	<10.8	<5.4	<10.8	<10.8	<5.4	<10.8	<21.5	<10.8
P-6	7/7/2011	µg/L	<10.4	<10.4	<20.8	<10.4	<10.4	<10.4	<10.4	<10.4	<52.1	<52.1	<10.4	<10.4	<10.4	<5.2	<10.4	<10.4	<5.2	<10.4	<20.8	<10.4
P-7	7/7/2011	µg/L	<10.9	<10.9	<21.7	<10.9	<10.9	<10.9	<10.9	<10.9	<54.3	<54.3	<10.9	<10.9	<10.9	<5.4	<10.9	<10.9	<5.4	<10.9	<21.7	<10.9
P-8	7/7/2011	µg/L	<10.5	<10.5	<21.1	<10.5	<10.5	<10.5	<10.5	<10.5	<52.6	<52.6	<10.5	<10.5	<10.5	<5.3	<10.5	<10.5	<5.3	<10.5	<21.1	<10.5
Field Dup	7/7/2011	µg/L	<10.8	<10.8	<21.5	<10.8	<10.8	<10.8	<10.8	<10.8	<53.8	<53.8	<10.8	<10.8	<10.8	<5.4	<10.8	<10.8	<5.4	<10.8	<21.5	<10.8
Equip Blank	7/7/2011	µg/L	<10.6	<10.6	<21.3	<10.6	<10.6	<10.6	<10.6	<10.6	<53.2	<53.2	<10.6	<10.6	<10.6	<5.3	<10.6	<10.6	<5.3	<10.6	<21.3	<10.6
P-9	8/16/2012	µg/L	<10.3	<10.3	<20.6	<10.3	<10.3	<10.3	<10.3	<10.3	<51.5	<51.5	<10.3	<10.3	<10.3	<5.2	<10.3	<10.3	<5.2	<10.3	<20.6	<10.3
P-10	8/16/2012	µg/L	<10.5	<10.5	<21.1	<10.5	<10.5	<10.5	<10.5	<10.5	<52.6	<52.6	<10.5	<10.5	<10.5	<5.3	<10.5	<10.5	<5.3	<10.5	<21.1	<10.5
P-11	8/16/2012	µg/L	<10.5	<10.5	<21.1	<10.5	<10.5	<10.5	<10.5	<10.5	<52.6	<52.6	<10.5	<10.5	<10.5	<5.3	<10.5	<10.5	<5.3	<10.5	<21.1	<10.5
Field Dup-2	8/16/2012	µg/L	<10.2	<10.2	<20.4	<10.2	<10.2	<10.2	<10.2	<10.2	<51.0	<51.0	<10.2	<10.2	<10.2	<5.1	<10.2	<10.2	<5.1	<10.2	<20.4	<10.2
Equip Blank-2	8/16/2012	µg/L	<10.8	<10.8	<21.5	<10.8	<10.8	<10.8	<10.8	<10.8	<53.8	<53.8	<10.8	<10.8	<10.8	<5.4	<10.8	<10.8	<5.4	<10.8	<21.5	<10.8

Res. Tap Water SLs	µg/L	0.029	5.8	1.1	35	11,000	270	---	670	1.2	30	2	15	190	6	630	220	2.6	1	50	5.1
Res. Vapor SLs	µg/L	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Com/Ind Vapor SLs	µg/L	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Screening Levels (SLs) derived from Indiana Department of Environmental Management (IDEM) Remediation Closure Guide (RCG) Appendix A, with corrections through March 1, 2013.

123.45 Values in **BOLD** are concentrations above the detection limit.

123.45 Highlighted cells exceed the Screening Level corresponding to that color.

--- Three dashes indicate that the Screening Level was not listed in RCG Appendix A.

Table 3-2: Groundwater Semi-Volatile Organic Compounds (SVOCs)
Former Carpenter Facility
1100 Industries Road, Richmond, IN 47374
Prepared by Weaver Boos Consultants

Monitoring Well	Date	Units	Indeno(1,2,3-cd)pyrene	Isophorone	2-Methylnaphthalene	2-Methyl phenol(o-Cresol)	3&4-Methylphenol(m&p Cresol)	Naphthalene	2-Nitroaniline	3-Nitroaniline	4-Nitroaniline	Nitrobenzene	2-Nitrophenol	4-Nitrophenol	N-Nitroso-di-n-propylamine	N-Nitrosodiphenylamine	Pentachlorophenol	Phenanthrene	Phenol	Pyrene	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol
P-1	7/7/2011	µg/L	<10.5	<10.5	<10.5	<10.5	<21.1	<5.3	<52.6	<52.6	<52.6	<10.5	<10.5	<52.6	<10.5	<10.5	<52.6	<10.5	<10.5	<10.5	<10.5	<10.5
P-2	7/7/2011	µg/L	<10.4	<10.4	<10.4	<10.4	<20.8	<5.2	<52.1	<52.1	<52.1	<10.4	<10.4	<52.1	<10.4	<10.4	<52.1	<10.4	<10.4	<10.4	<10.4	<10.4
P-3	7/7/2011	µg/L	<10.5	<10.5	<10.5	<10.5	<21.1	<5.3	<52.6	<52.6	<52.6	<10.5	<10.5	<52.6	<10.5	<10.5	<52.6	<10.5	<10.5	<10.5	<10.5	<10.5
P-4	7/7/2011	µg/L	<12.5	<12.5	<12.5	<12.5	<25.0	<6.2	<62.5	<62.5	<62.5	<12.5	<12.5	<62.5	<12.5	<12.5	<62.5	<12.5	<12.5	<12.5	<12.5	<12.5
P-5	7/7/2011	µg/L	<10.8	<10.8	<10.8	<10.8	<21.5	<5.4	<53.8	<53.8	<53.8	<10.8	<10.8	<53.8	<10.8	<10.8	<53.8	<10.8	<10.8	<10.8	<10.8	<10.8
P-6	7/7/2011	µg/L	<10.4	<10.4	<10.4	<10.4	<20.8	**33.5**	<52.1	<52.1	<52.1	<10.4	<10.4	<52.1	<10.4	<10.4	<52.1	<10.4	<10.4	<10.4	<10.4	<10.4
P-7	7/7/2011	µg/L	<10.9	<10.9	<10.9	<10.9	<21.7	<5.4	<54.3	<54.3	<54.3	<10.9	<10.9	<54.3	<10.9	<10.9	<54.3	<10.9	<10.9	<10.9	<10.9	<10.9
P-8	7/7/2011	µg/L	<10.5	<10.5	<10.5	<10.5	<21.1	<5.3	<52.6	<52.6	<52.6	<10.5	<10.5	<52.6	<10.5	<10.5	<52.6	<10.5	<10.5	<10.5	<10.5	<10.5
Field Dup	7/7/2011	µg/L	<10.8	<10.8	<10.8	<10.8	<21.5	**44.6**	<53.8	<53.8	<53.8	<10.8	<10.8	<53.8	<10.8	<10.8	<53.8	<10.8	<10.8	<10.8	<10.8	<10.8
Equip Blank	7/7/2011	µg/L	<10.6	<10.6	<10.6	<10.6	<21.3	<5.3	<53.2	<53.2	<53.2	<10.6	<10.6	<53.2	<10.6	<10.6	<53.2	<10.6	<10.6	<10.6	<10.6	<10.6
P-9	8/16/2012	µg/L	<10.3	<10.3	<10.3	<10.3	<20.6	<5.2	<51.5	<51.5	<51.5	<10.3	<10.3	<51.5	<10.3	<10.3	<51.5	<10.3	<10.3	<10.3	<10.3	<10.3
P-10	8/16/2012	µg/L	<10.5	<10.5	<10.5	<10.5	<21.1	<5.3	<52.6	<52.6	<52.6	<10.5	<10.5	<52.6	<10.5	<10.5	<52.6	<10.5	<10.5	<10.5	<10.5	<10.5
P-11	8/16/2012	µg/L	<10.5	<10.5	<10.5	<10.5	<21.1	<5.3	<52.6	<52.6	<52.6	<10.5	<10.5	<52.6	<10.5	<10.5	<52.6	<10.5	<10.5	<10.5	<10.5	<10.5
Field Dup-2	8/16/2012	µg/L	<10.2	<10.2	<10.2	<10.2	<20.4	<5.1	<51.0	<51.0	<51.0	<10.2	<10.2	<51.0	<10.2	<10.2	<51.0	<10.2	<10.2	<10.2	<10.2	<10.2
Equip Blank-2	8/16/2012	µg/L	<10.8	<10.8	<10.8	<10.8	<21.5	<5.4	<53.8	<53.8	<53.8	<10.8	<10.8	<53.8	<10.8	<10.8	<53.8	<10.8	<10.8	<10.8	<10.8	<10.8

Res. Tap Water SLs	µg/L	0.29	670	27	720	720	1.4	150	---	33	1.2	---	---	0.093	100	1	---	4,500	87	890	9
Res. Vapor SLs	µg/L	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Com/Ind Vapor SLs	µg/L	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Screening Levels (SLs) derived from Indiana Department of Environmental Management (IDEM) Remediation Closure Guide (RCG) Appendix A, with corrections through March 1, 2013.

123.45 Values in **BOLD** are concentrations above the detection limit.

123.45 Highlighted cells exceed the Screening Level corresponding to that color.

--- Three dashes indicate that the Screening Level was not listed in RCG Appendix A.

Table 3-3: Groundwater Total Petroleum Hydrocarbons (TPHs)
Former Carpenter Facility
1100 Industries Road, Richmond, IN 47374
Prepared by Weaver Boos Consultants

			Gasoline Range Organics			Diesel Range Organics
Monitoring Well	Date	Units	Combined Gasoline TPH	TPH (C6-C10)	TPH (C6-C12)	Diesel TPH (C8-C28)
P-1	7/7/2011	mg/L	<0.20	<0.20	<0.20	<0.10
P-2	7/7/2011	mg/L	<0.20	<0.20	<0.20	<0.10
P-3	7/7/2011	mg/L	<0.20	<0.20	<0.20	**0.25**
P-4	7/7/2011	mg/L	**0.40**	**0.30**	**0.45**	**0.41**
P-5	7/7/2011	mg/L	<0.20	<0.20	<0.20	<0.10
P-6	7/7/2011	mg/L	**3.4**	**3.5**	**3.5**	**0.89**
P-7	7/7/2011	mg/L	<0.20	<0.20	<0.20	<0.10
P-8	7/7/2011	mg/L	<0.20	<0.20	<0.20	**0.11**
Dup	7/7/2011	mg/L	**2.8**	**2.8**	**2.8**	**0.65**
EB	7/7/2011	mg/L	<0.20	<0.20	<0.20	<0.10
P-9	8/16/2012	mg/L	<0.20	-	-	<0.10
P-10	8/16/2012	mg/L	<0.20	-	-	**0.17**
P-11	8/16/2012	mg/L	<0.20	-	-	<0.11
Dup-2	8/16/2012	mg/L	<0.20	-	-	<0.11
EB-2	8/16/2012	mg/L	<0.20	-	-	<0.11

IDEM RISC Residential Default Closure Level	mg/L	1.1	1.1	1.1	0.26
IDEM RISC Industrial Default Closure Level	mg/L	14	14	14	2.5

Note: IDEM's RISC guidelines have been superseded by RCG, but we use the old standard because RCG provides no Screening Levels for TPHs.

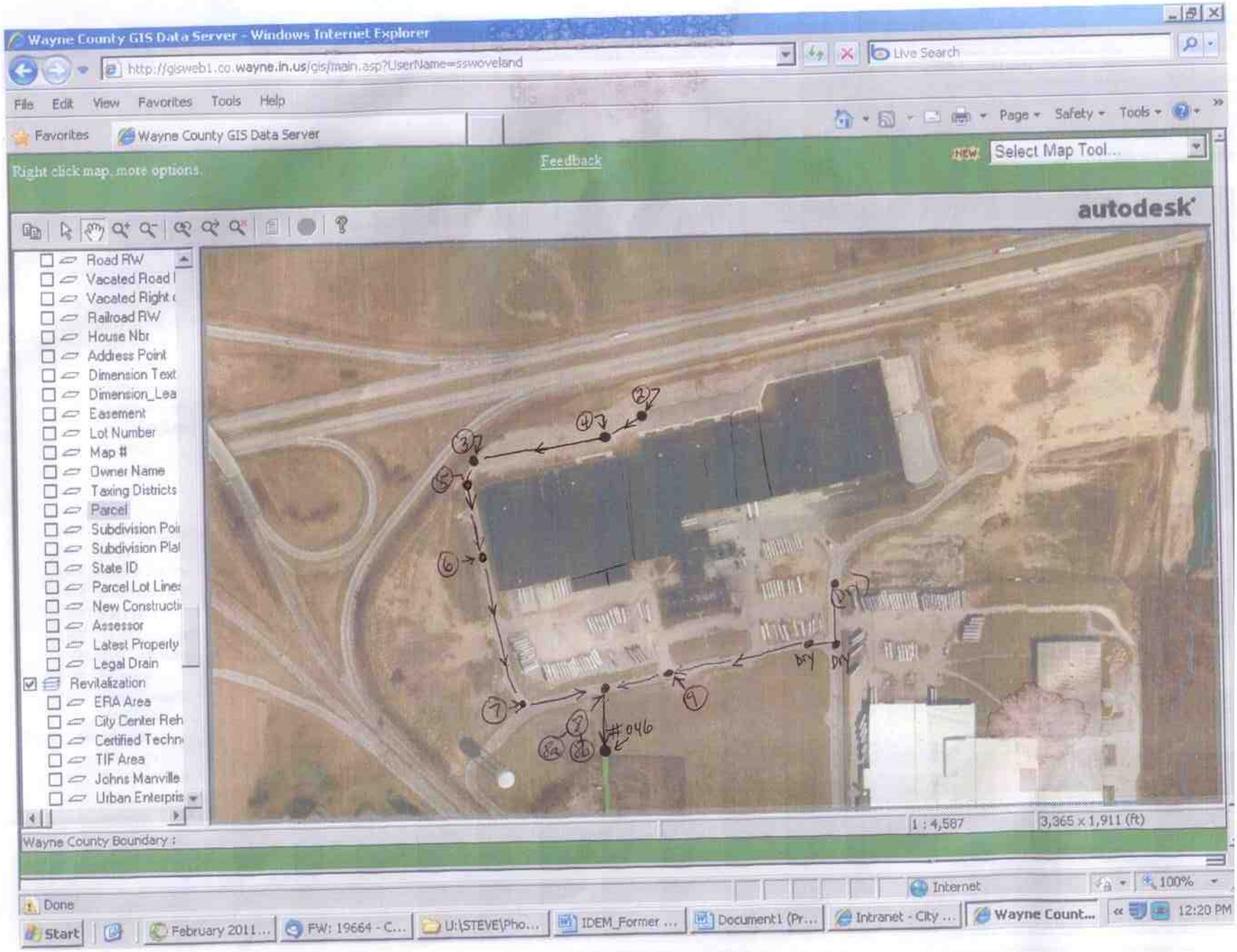
123.45 **BOLD** values are concentrations above the detection limit.

123.45 Highlighted cells exceed the corresponding Closure Level.

- One dash indicates the constituent was not measured.

APPENDIX A

Summary of Historical Data


Wayne County GIS Data Server - Windows Internet Explorer
http://gisweb1.co.wayne.in.us/gis/main.asp?UserName=sswoveland
File Edit View Favorites Tools Help
Favorites
Wayne County GIS Data Server
Right click map, more options.
Feedback
Select Map Tool...
autodesk
Road RW
Vacated Road
Vacated Right
Railroad RW
House Nbr
Address Point
Dimension Text
Dimension_Lea
Easement
Lot Number
Map #
Owner Name
Taxing Districts
Parcel
Subdivision Poi
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Parcel Lot Lines
New Constructi
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Latest Property
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Revitalization
ERA Area
City Center Reh
Certified Techn
TIF Area
Johns Manville
Urban Enterpris
DRY
DRY
#046
1 : 4,587
3,365 x 1,911 (ft)
Wayne County Boundary :
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Wayne County GIS Data Server - Windows Internet Explorer

http://gisweb1.co.wayne.in.us/gis/main.asp?UserName=sswoveland

File Edit View Favorites Tools Help

Favorites | Wayne County GIS Data Server

Page Safety Tools

Right click map, more options. | Feedback | NEW Select Map Tool...

autodesk

- Public Safety
  - Turn Around Dc
  - Richmond Conc
  - Large Animal O
  - LEPC Facility
  - Flood Damage I
  - Fire Hydrant
  - EMS
  - Fire District - Ric
  - Fire District - Co
- Sanitary
  - Sewer Tap Perr
  - Richmond Sanil
  - IU East Campus
  - CSO Outfalls
  - Sanitary Structu
  - Sanitary Gravity
    - SA
    - CS
    - Abandoned
  - Sanitary Gravity
  - Sanitary_sanFo
  - Siphon
  - Flood Location
- Storm
  - Storm_Outfalls
  - Storm Structure
  - Storm Label

Wayne County Boundary : | 1 : 4,478 | 3,284 x 1,912 (ft)

- CERTIFICATE OF ANALYSIS -

Report Date: *01-Mar-11*

Client ID: RICHMOND_SAN

Richmond Sanitary District
2380 Liberty Avenue
Richmond, Indiana 47374

Phone: (765) 983-7450
Attn: Mr. Steve Swoveland
FAX: (765) 962-2669

Our Lab # 11002244-001
Your Sample ID: RC022411-GR-046

Your Project #
Collection Date: 02/24/11 09:51
Your Project Name: **Former Carpenter Bus Facility**
Collected By: Client
Sample Type: Water
Receipt Date: 02/25/11 19:15

MBTEX, GC/MS

Analytical Method	Prep Method	Prep Date	By
EPA 624			

Parameter	Result	Units	Qual	Quant. Limit	CAS #	Analysis Date	By
Methyl-tert-butyl ether	5.4	ug/L		5.0	1634-04-4	2/28/2011	rbische
Benzene	11	ug/L		5.0	71-43-2	2/28/2011	rbische
Toluene	< 5.0	ug/L	PQL	5.0	108-88-3	2/28/2011	rbische
Ethylbenzene	12	ug/L		5.0	100-41-4	2/28/2011	rbische
Xylene, Total	6.3	ug/L		5.0	1330-20-7	2/28/2011	rbische
Dibromofluoromethane (Surr)	102	%			1868-53-7	2/28/2011	rbische
Toluene-d8 (Surr)	96	%			2037-26-5	2/28/2011	rbische
4-Bromofluorobenzene (Surr)	104	%			460-00-4	2/28/2011	rbische

ESG Laboratories
5927 WEST 71ST STREET
INDIANAPOLIS, INDIANA 46278
PHONE (317) 290-1471
FAX (317) 290-1670

Our Lab #	11002244-002	**Your Sample ID:**	RC022411-GR-2
Your Project #		**Collection Date:**	02/24/11 10:05
Your Project Name:	**Former Carpenter Bus Facility**	**Collected By:**	Client
Sample Type:	Water	**Receipt Date:**	02/25/11 19:15

MBTEX, GC/MS

Analytical Method	Prep Method	Prep Date	By
EPA 624			

Parameter	Result	Units	Qual	Quant. Limit	CAS #	Analysis Date	By
Methyl-tert-butyl ether	< 5.0	ug/L		5.0	1634-04-4	2/28/2011	rbische
Benzene	< 5.0	ug/L		5.0	71-43-2	2/28/2011	rbische
Toluene	< 5.0	ug/L		5.0	108-88-3	2/28/2011	rbische
Ethylbenzene	< 5.0	ug/L		5.0	100-41-4	2/28/2011	rbische
Xylene, Total	< 5.0	ug/L		5.0	1330-20-7	2/28/2011	rbische
Dibromofluoromethane (Surr)	102	%			1868-53-7	2/28/2011	rbische
Toluene-d8 (Surr)	96	%			2037-26-5	2/28/2011	rbische
4-Bromofluorobenzene (Surr)	105	%			460-00-4	2/28/2011	rbische

Our Lab #	11002244-003	**Your Sample ID:**	RC022411-GR-3
Your Project #		**Collection Date:**	02/24/11 10:20
Your Project Name:	**Former Carpenter Bus Facility**	**Collected By:**	Client
Sample Type:	Water	**Receipt Date:**	02/25/11 19:15

MBTEX, GC/MS

Analytical Method	Prep Method	Prep Date	By
EPA 624			

Parameter	Result	Units	Qual	Quant. Limit	CAS #	Analysis Date	By
Methyl-tert-butyl ether	< 5.0	ug/L		5.0	1634-04-4	2/28/2011	rbische
Benzene	< 5.0	ug/L		5.0	71-43-2	2/28/2011	rbische
Toluene	< 5.0	ug/L		5.0	108-88-3	2/28/2011	rbische
Ethylbenzene	< 5.0	ug/L		5.0	100-41-4	2/28/2011	rbische
Xylene, Total	< 5.0	ug/L		5.0	1330-20-7	2/28/2011	rbische
Dibromofluoromethane (Surr)	98	%			1868-53-7	2/28/2011	rbische
Toluene-d8 (Surr)	95	%			2037-26-5	2/28/2011	rbische
4-Bromofluorobenzene (Surr)	104	%			460-00-4	2/28/2011	rbische

ESG Laboratories
5927 WEST 71ST STREET
INDIANAPOLIS, INDIANA 46278
PHONE (317) 290-1471
FAX (317) 290-1670

Our Lab #	11002244-004	**Your Sample ID:**	RC022411-GR-4
Your Project #		**Collection Date:**	02/24/11 10:39
Your Project Name:	**Former Carpenter Bus Facility**	**Collected By:**	Client
Sample Type:	Water	**Receipt Date:**	02/25/11 19:15

Volatile Organics, GC/MS

Analytical Method	Prep Method	Prep Date	By
EPA 624			

Parameter	Result	Units	Qual	Quant. Limit	CAS #	Analysis Date	By
Chloromethane	< 10.0	ug/L		10.0	74-87-3	2/28/2011	rbische
Vinyl chloride	< 10.0	ug/L		10.0	75-01-4	2/28/2011	rbische
Bromomethane	< 10.0	ug/L		10.0	74-83-9	2/28/2011	rbische
Chloroethane	< 10.0	ug/L		10.0	75-00-3	2/28/2011	rbische
Trichlorofluoromethane	< 10.0	ug/L		10.0	75-69-4	2/28/2011	rbische
1,1-Dichloroethene	< 5.0	ug/L		5.0	75-35-4	2/28/2011	rbische
Carbon disulfide	< 5.0	ug/L		5.0	75-15-0	2/28/2011	rbische
Methylene chloride	< 5.0	ug/L		5.0	75-09-2	2/28/2011	rbische
trans-1,2-Dichloroethene	< 5.0	ug/L		5.0	156-60-5	2/28/2011	rbische
1,1-Dichloroethane	< 5.0	ug/L		5.0	75-34-3	2/28/2011	rbische
Chloroform	< 5.0	ug/L		5.0	67-66-3	2/28/2011	rbische
1,1,1-Trichloroethane	< 5.0	ug/L		5.0	71-55-6	2/28/2011	rbische
Carbon tetrachloride	< 5.0	ug/L		5.0	56-23-5	2/28/2011	rbische
Benzene	< 5.0	ug/L		5.0	71-43-2	2/28/2011	rbische
1,2-Dichloroethane	< 5.0	ug/L		5.0	107-06-2	2/28/2011	rbische
Trichloroethene	< 5.0	ug/L		5.0	79-01-6	2/28/2011	rbische
1,2-Dichloropropane	< 5.0	ug/L		5.0	78-87-5	2/28/2011	rbische
Bromodichloromethane	< 5.0	ug/L		5.0	75-27-4	2/28/2011	rbische
2-Chloroethyl vinyl ether	< 20	ug/L		20	110-75-8	2/28/2011	rbische
cis-1,3-Dichloropropene	< 5.0	ug/L		5.0	10061-01-5	2/28/2011	rbische
Toluene	< 5.0	ug/L		5.0	108-88-3	2/28/2011	rbische
trans-1,3-Dichloropropene	< 5.0	ug/L		5.0	10061-02-6	2/28/2011	rbische
1,1,2-Trichloroethane	< 5.0	ug/L		5.0	79-00-5	2/28/2011	rbische
Tetrachloroethene	< 5.0	ug/L		5.0	127-18-4	2/28/2011	rbische
Dibromochloromethane	< 5.0	ug/L		5.0	124-48-1	2/28/2011	rbische
Chlorobenzene	< 5.0	ug/L		5.0	108-90-7	2/28/2011	rbische
Ethylbenzene	< 5.0	ug/L		5.0	100-41-4	2/28/2011	rbische
Bromoform	< 5.0	ug/L		5.0	75-25-2	2/28/2011	rbische
1,1,2,2-Tetrachloroethane	< 5.0	ug/L		5.0	79-34-5	2/28/2011	rbische
1,3-Dichlorobenzene	< 5.0	ug/L		5.0	541-73-1	2/28/2011	rbische
1,4-Dichlorobenzene	< 5.0	ug/L		5.0	106-46-7	2/28/2011	rbische
1,2-Dichlorobenzene	< 5.0	ug/L		5.0	95-50-1	2/28/2011	rbische
Dibromofluoromethane (Surr)	99	%			1868-53-7	2/28/2011	rbische

ESG Laboratories
5927 WEST 71ST STREET
INDIANAPOLIS, INDIANA 46278
PHONE (317) 290-1471
FAX (317) 290-1670

Volatile Organics, GC/MS

Analytical Method	Prep Method	Prep Date	By
EPA 624			

Parameter	Result	Units	Qual	Quant. Limit	CAS #	Analysis Date	By
Toluene-d8 (Surr)	94	%			2037-26-5	2/28/2011	rbische
4-Bromofluorobenzene (Surr)	105	%			460-00-4	2/28/2011	rbische

Data Qualifiers:

Qualifier	Description
PQL	Value is between MDL & practical quantitation limit

Lab Manager

3/1/2011
Date

ESG Laboratories
5927 WEST 71ST STREET
INDIANAPOLIS, INDIANA 46278
PHONE (317) 290-1471
FAX (317) 290-1670

ESG Laboratories

5933 West 71st Street * Indianapolis, IN 46278
Phone (317) 290-1471 * Fax (317) 290-1670

CHAIN OF CUSTODY RECORD

Client Name: RSD
ESG Work Order #: 1102244
Project Name: Former CARPENTER BUS Facility
Project #: Rose City Facility
Sampler(s) Signature: [signature]

Stat. No.	DATE	TIME	COMP	GRAB	SAMPLE ID	Total Number of Containers	Filtered (Y or N) / Preserv. Code: N / NA/C1	N / C1	Analyses: TTO-Volatiles	BTEX+MTBE							Comments
	2/24/11	9:51a		✓	RC022411-GR-046	2				✓							BTEX- EPA method 624
	↓	10:05a		✓	RC022411-GR-2	2				✓							
		10:20a		✓	RC022411-GR-3	2				✓							
		10:39a		✓	RC022411-GR-4	4			✓								

TRANSFER OF CUSTODY

Relinquished By	Received By	Date / Time
[signature]	Second Refrigerator	2/24/11 11:15a
[signature]	[signature]	2/25/11 4:00pm
[signature]	[signature]	2/25/11 7:15pm

SAMPLE CONDITION UPON RECEIPT

Temp °C: 3.0
Received on Ice: Y / N
Samples Intact: Y / N
Adequate Volume: Y / N
Appropriate Containers: Y / N
Appropriate Preservation: Y / N
Within Hold Time: Y / N
Head Space Absent: Y / N / NA

TURN-AROUND TIME

Normal _____ Rush _____

Requested Due Date: _____

SAMPLE COMMENTS

Please note if sample(s) suspected to be hazardous, corrosive, or requires special handling for any reason.

PRESERVATION CODES

N = HNO_3 / Nitric Acid
S = H_2SO_4 / Sulfuric Acid
H = HCl / Hydrochloric Acid
U = Unpreserved, Cooled to 4°C
OH = NaOH / Sodium Hydroxide
SO = $Na_2S_2O_3$ / Sodium Thiosulfate

- CERTIFICATE OF ANALYSIS -

Report Date: *10-Mar-11*

Client ID: RICHMOND_SAN

Richmond Sanitary District
2380 Liberty Avenue
Richmond, Indiana 47374
Attn: Mr. Steve Swoveland

Phone: (765) 983-7450
FAX: (765) 962-2669

Our Lab # 11002556-001
Your Sample ID: RCI030311-GR-9

Your Project #
Your Project Name: Rose City Industrial Park
Sample Type: Water

Collection Date: 03/03/11 10:00
Collected By: Client
Receipt Date: 03/03/11 16:48

MBTEX, GC/MS

Analytical Method	Prep Method	Prep Date	By
EPA 624			

Parameter	Result	Units	Qual	Quant. Limit	CAS #	Analysis Date	By
Methyl-tert-butyl ether	< 5.0	ug/L		5.0	1634-04-4	3/8/2011	rbische
Benzene	< 5.0	ug/L		5.0	71-43-2	3/8/2011	rbische
Toluene	< 5.0	ug/L		5.0	108-88-3	3/8/2011	rbische
Ethylbenzene	< 5.0	ug/L		5.0	100-41-4	3/8/2011	rbische
Xylene, Total	< 5.0	ug/L		5.0	1330-20-7	3/8/2011	rbische
Dibromofluoromethane (Surr)	113	%			1868-53-7	3/8/2011	rbische
Toluene-d8 (Surr)	104	%			2037-26-5	3/8/2011	rbische
4-Bromofluorobenzene (Surr)	106	%			460-00-4	3/8/2011	rbische

ESG Laboratories
5927 WEST 71ST STREET
INDIANAPOLIS, INDIANA 46278

PHONE (317) 290-1471
FAX (317) 290-1670

Our Lab # 11002556-006

Your Project #

Your Project Name: Rose City Industrial Park

Sample Type: Water

Your Sample ID: RCI030311-GR-7

Collection Date: 03/03/11 10:50

Collected By: Client

Receipt Date: 03/03/11 16:48

MBTEX, GC/MS

Analytical Method	Prep Method	Prep Date	By
EPA 624			

Parameter	Result	Units	Qual	Quant. Limit	CAS #	Analysis Date	By
Methyl-tert-butyl ether	< 5.0	ug/L		5.0	1634-04-4	3/8/2011	rbische
Benzene	< 5.0	ug/L		5.0	71-43-2	3/8/2011	rbische
Toluene	< 5.0	ug/L		5.0	108-88-3	3/8/2011	rbische
Ethylbenzene	< 5.0	ug/L		5.0	100-41-4	3/8/2011	rbische
Xylene, Total	< 5.0	ug/L		5.0	1330-20-7	3/8/2011	rbische
Dibromofluoromethane (Surr)	110	%			1868-53-7	3/8/2011	rbische
Toluene-d8 (Surr)	103	%			2037-26-5	3/8/2011	rbische
4-Bromofluorobenzene (Surr)	106	%			460-00-4	3/8/2011	rbische

Our Lab # 11002556-007

Your Project #

Your Project Name: Rose City Industrial Park

Sample Type: Water

Your Sample ID: RCI030311-GR-6

Collection Date: 03/03/11 11:30

Collected By: Client

Receipt Date: 03/03/11 16:48

MBTEX, GC/MS

Analytical Method	Prep Method	Prep Date	By
EPA 624			

Parameter	Result	Units	Qual	Quant. Limit	CAS #	Analysis Date	By
Methyl-tert-butyl ether	< 5.0	ug/L		5.0	1634-04-4	3/8/2011	rbische
Benzene	< 5.0	ug/L		5.0	71-43-2	3/8/2011	rbische
Toluene	< 5.0	ug/L		5.0	108-88-3	3/8/2011	rbische
Ethylbenzene	< 5.0	ug/L		5.0	100-41-4	3/8/2011	rbische
Xylene, Total	< 5.0	ug/L		5.0	1330-20-7	3/8/2011	rbische
Dibromofluoromethane (Surr)	114	%			1868-53-7	3/8/2011	rbische
Toluene-d8 (Surr)	102	%			2037-26-5	3/8/2011	rbische
4-Bromofluorobenzene (Surr)	104	%			460-00-4	3/8/2011	rbische

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PHONE (317) 290-1471
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Data Qualifiers:

Qualifier	Description
PQL	Value is between MDL & practical quantitation limit

Lab Manager

3/10/2011

Date

ESG Laboratories

5927 WEST 71ST STREET
INDIANAPOLIS, INDIANA 46278

PHONE (317) 290-1471
FAX (317) 290-1670

Our Lab #	11002556-002	**Your Sample ID:**	RCI030311-GR-8
Your Project #		**Collection Date:**	03/03/11 10:15
Your Project Name:	**Rose City Industrial Park**	**Collected By:**	Client
Sample Type:	Water	**Receipt Date:**	03/03/11 16:48

MBTEX, GC/MS

Analytical Method	Prep Method	Prep Date	By
EPA 624			

Parameter	Result	Units	Qual	Quant. Limit	CAS #	Analysis Date	By
Methyl-tert-butyl ether	11	ug/L		5.0	1634-04-4	3/8/2011	rbische
Benzene	29	ug/L		5.0	71-43-2	3/8/2011	rbische
Toluene	< 5.0	ug/L	PQL	5.0	108-88-3	3/8/2011	rbische
Ethylbenzene	14	ug/L		5.0	100-41-4	3/8/2011	rbische
Xylene, Total	10	ug/L		5.0	1330-20-7	3/8/2011	rbische
Dibromofluoromethane (Surr)	111	%			1868-53-7	3/8/2011	rbische
Toluene-d8 (Surr)	104	%			2037-26-5	3/8/2011	rbische
4-Bromofluorobenzene (Surr)	105	%			460-00-4	3/8/2011	rbische

Our Lab #	11002556-003	**Your Sample ID:**	RCI030311-GR-~~8a~~ 8b TW 3/11/11
Your Project #		**Collection Date:**	03/03/11 10:15
Your Project Name:	**Rose City Industrial Park**	**Collected By:**	Client
Sample Type:	Water	**Receipt Date:**	03/03/11 16:48

MBTEX, GC/MS

Analytical Method	Prep Method	Prep Date	By
EPA 624			

Parameter	Result	Units	Qual	Quant. Limit	CAS #	Analysis Date	By
Methyl-tert-butyl ether	15	ug/L		5.0	1634-04-4	3/8/2011	rbische
Benzene	42	ug/L		5.0	71-43-2	3/8/2011	rbische
Toluene	< 5.0	ug/L	PQL	5.0	108-88-3	3/8/2011	rbische
Ethylbenzene	25	ug/L		5.0	100-41-4	3/8/2011	rbische
Xylene, Total	< 5.0	ug/L	PQL	5.0	1330-20-7	3/8/2011	rbische
Dibromofluoromethane (Surr)	112	%			1868-53-7	3/8/2011	rbische
Toluene-d8 (Surr)	103	%			2037-26-5	3/8/2011	rbische
4-Bromofluorobenzene (Surr)	104	%			460-00-4	3/8/2011	rbische

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INDIANAPOLIS, INDIANA 46278

PHONE (317) 290-1471
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Our Lab #	11002556-004	**Your Sample ID:**	RCI030311-GR-~~8b~~ 8a TW 3/11/11
Your Project #		**Collection Date:**	03/03/11 10:15
Your Project Name:	**Rose City Industrial Park**	**Collected By:**	Client
Sample Type:	Water	**Receipt Date:**	03/03/11 16:48

MBTEX, GC/MS

Analytical Method	Prep Method	Prep Date	By
EPA 624			

Parameter	Result	Units	Qual	Quant. Limit	CAS #	Analysis Date	By
Methyl-tert-butyl ether	< 5.0	ug/L		5.0	1634-04-4	3/8/2011	rbische
Benzene	< 5.0	ug/L		5.0	71-43-2	3/8/2011	rbische
Toluene	< 5.0	ug/L		5.0	108-88-3	3/8/2011	rbische
Ethylbenzene	< 5.0	ug/L		5.0	100-41-4	3/8/2011	rbische
Xylene, Total	< 5.0	ug/L		5.0	1330-20-7	3/8/2011	rbische
Dibromofluoromethane (Surr)	111	%			1868-53-7	3/8/2011	rbische
Toluene-d8 (Surr)	103	%			2037-26-5	3/8/2011	rbische
4-Bromofluorobenzene (Surr)	105	%			460-00-4	3/8/2011	rbische

Our Lab #	11002556-005	**Your Sample ID:**	RCI030311-GR-5
Your Project #		**Collection Date:**	03/03/11 11:10
Your Project Name:	**Rose City Industrial Park**	**Collected By:**	Client
Sample Type:	Water	**Receipt Date:**	03/03/11 16:48

MBTEX, GC/MS

Analytical Method	Prep Method	Prep Date	By
EPA 624			

Parameter	Result	Units	Qual	Quant. Limit	CAS #	Analysis Date	By
Methyl-tert-butyl ether	< 5.0	ug/L		5.0	1634-04-4	3/8/2011	rbische
Benzene	< 5.0	ug/L		5.0	71-43-2	3/8/2011	rbische
Toluene	< 5.0	ug/L		5.0	108-88-3	3/8/2011	rbische
Ethylbenzene	< 5.0	ug/L		5.0	100-41-4	3/8/2011	rbische
Xylene, Total	< 5.0	ug/L		5.0	1330-20-7	3/8/2011	rbische
Dibromofluoromethane (Surr)	111	%			1868-53-7	3/8/2011	rbische
Toluene-d8 (Surr)	102	%			2037-26-5	3/8/2011	rbische
4-Bromofluorobenzene (Surr)	103	%			460-00-4	3/8/2011	rbische

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Phone (317) 290-1471 * Fax (317) 290-1670

REFERENCE NO. _____

CHAIN OF CUSTODY RECORD

Client Name: RSD
ESG Work Order #: 11W255 b
Project Name: Rose City Industrial Park
Project #:
Sampler(s) Signature: [signature]

Filtered (Y or N): N
Preserv. Code: HCl
Analyses: BTEX w/ m+DE

Stat No.	DATE	TIME	COMP	GRAB	SAMPLE ID	Total Number of Containers	BTEX w/ m+DE	Comments
	3/3/11	10a		✓	RCI030311-GR-9	2	✓	- Former Carpenter Bus
	3/3/11	10:15a		✓	RCI030311-GR-8 3/11	2	✓	- For ID numbers refer to
	3/3/11	10:15a		✓	RCI030311-GR-~~8a~~ 8b 3/11	2	✓	GIS map w/ manhole #'s
	3/3/11	10:15a		✓	RCI030311-GR-~~8b~~ 8a 3/11	2	✓	
	3/3/11	11:10a		✓	RCI030311-GR-5	2	✓	- Mass spec method to be
	3/3/11	10:50a		✓	RCI030311-GR-7	2	✓	used for m-BTEX.
	3/3/11	11:30a		✓	RCI030311-GR-6	1	✓	
								- Manholes #8 and #9 some
								samples of definite water
								infiltration taken instead
								flow through lines.
								- ~~8b~~ 8a = Infiltrate from East 3/11
								~~8a~~ 8b = Infiltrate from West 3/11

TRANSFER OF CUSTODY

Relinquished By:	Date / Time
[signature]	3/3/11 12:15p
Received By: Second Refrigerator	
Relinquished By: [signature]	Date / Time 3/4/11 2:00pm
Received By: [signature]	
Relinquished By: [signature]	Date / Time 3/4/11 4:48pm
Received By: [signature]	

SAMPLE CONDITION UPON RECEIPT

Temp °C: 3.0
Received on Ice: Y / N
Samples Intact: Y / N
Adequate Volume: Y / N
Appropriate Containers: Y / N
Appropriate Preservation: Y / N
Within Hold Time: Y / N
Head Space Absent: Y / N / NA

TURN AROUND TIME

Normal _____ Rush _____

Requested Due Date: _____

SAMPLE COMMENTS

Please note if sample(s) suspected to be hazardous, corrosive, or requires special handling for any reason.

PRESERVATION CODES

N = HNO_3 / Nitric Acid
S = H_2SO_4 / Sulfuric Acid
H = HCl / Hydrochloric Acid
U = Unpreserved, Cooled to 4°C
OH = NaOH / Sodium Hydroxide
SO = $Na_2S_2O_3$ / Sodium Thiosulfate

- CERTIFICATE OF ANALYSIS -

Report Date: *22-Mar-11*

Client ID: RICHMOND_SAN

Richmond Sanitary District
2380 Liberty Avenue
Richmond, Indiana 47374

Phone: (765) 983-7450

Attn: Mr. Steve Swoveland

FAX: (765) 962-2669

Our Lab # 11003145-001

Your Sample ID: RCI031111-GR-8b2

Your Project #

Collection Date: 03/11/11 10:20

Your Project Name: **RCI Manhole Infiltration**

Collected By: Client

Sample Type: Water

Receipt Date: 03/17/11 18:00

MBTEX, GC/MS

Analytical Method	Prep Method	Prep Date	By
EPA 624			

Parameter	Result	Units	Qual	Quant. Limit	CAS #	Analysis Date	By
Methyl-tert-butyl ether	12	ug/L		5.0	1634-04-4	3/21/2011	Mglasheen
Benzene	28	ug/L		5.0	71-43-2	3/21/2011	Mglasheen
Toluene	< 5.0	ug/L	PQL	5.0	108-88-3	3/21/2011	Mglasheen
Ethylbenzene	19	ug/L		5.0	100-41-4	3/21/2011	Mglasheen
Xylene, Total	< 5.0	ug/L		5.0	1330-20-7	3/21/2011	Mglasheen
Dibromofluoromethane (Surr)	98	%			1868-53-7	3/21/2011	Mglasheen
Toluene-d8 (Surr)	95	%			2037-26-5	3/21/2011	Mglasheen
4-Bromofluorobenzene (Surr)	98	%			460-00-4	3/21/2011	Mglasheen

ESG Laboratories
5927 WEST 71ST STREET
INDIANAPOLIS, INDIANA 46278
PHONE (317) 290-1471
FAX (317) 290-1670

Our Lab #	11003145-002	**Your Sample ID:**	RCI031111-GR-8a2
Your Project #		**Collection Date:**	03/11/11 10:20
Your Project Name:	**RCI Manhole Infiltration**	**Collected By:**	Client
Sample Type:	Water	**Receipt Date:**	03/17/11 18:00

MBTEX, GC/MS

Analytical Method	Prep Method	Prep Date	By
EPA 624			

Parameter	Result	Units	Qual	Quant. Limit	CAS #	Analysis Date	By
Methyl-tert-butyl ether	< 5.0	ug/L		5.0	1634-04-4	3/21/2011	Mglasheen
Benzene	< 5.0	ug/L		5.0	71-43-2	3/21/2011	Mglasheen
Toluene	< 5.0	ug/L		5.0	108-88-3	3/21/2011	Mglasheen
Ethylbenzene	< 5.0	ug/L		5.0	100-41-4	3/21/2011	Mglasheen
Xylene, Total	< 5.0	ug/L		5.0	1330-20-7	3/21/2011	Mglasheen
Dibromofluoromethane (Surr)	94	%			1868-53-7	3/21/2011	Mglasheen
Toluene-d8 (Surr)	91	%			2037-26-5	3/21/2011	Mglasheen
4-Bromofluorobenzene (Surr)	96	%			460-00-4	3/21/2011	Mglasheen

Data Qualifiers:

Qualifier	Description
PQL	Value is between MDL & practical quantitation limit

3/22/2011

Lab Manager **Date**

ESG Laboratories
5927 WEST 71ST STREET
INDIANAPOLIS, INDIANA 46278
PHONE (317) 290-1471
FAX (317) 290-1670

ESG Laboratories
5933 West 71st Street * Indianapolis, IN 46278
Phone (317) 290-1471 * Fax (317) 290-1670

REFERENCE NO. _____

CHAIN OF CUSTODY RECORD

Client Name: RSD
ESG Work Order #: 1103145
Project Name: RCI manhole infiltration
Project #:
Sampler(s) Signature: [signature]

Stat No	DATE	TIME	COMP	GRAB	SAMPLE ID	Total Number of Containers	Filtered (Y or N)	Preserv. Code	Analyses: BTEX w/MTBE								Comments
	3/11/11	10:20a		✓	RCI031111-GR-8b2	2	N	N	✓								White = East = 8b2
	3/11/11	10:20a		✓	RCI031111-GR-8a2	2	N	N	✓								Rust = West = 8a2
																	Manhole #8 - infiltration
																	Confirmation Sampling

TRANSFER OF CUSTODY

Relinquished By:	Received By:	Date / Time
[signature]	Sunset Refrigerator	3/11/11 11:50a
[signature]	[signature]	3/17/11 3:54p
[signature]	[signature]	3/17/11 4:20
		3/17/11 6:00p

SAMPLE CONDITION UPON RECEIPT

Temp °C: 3.0
Received on Ice: (Y) / N
Samples Intact: (Y) / N
Adequate Volume: (Y) / N
Appropriate Containers: (Y) / N
Appropriate Preservation: (Y) / N
Within Hold Time: (Y) / N
Head Space Absent: (Y) / N / NA

SAMPLE COMMENTS

Please note if sample(s) suspected to be hazardous, corrosive, or requires special handling for any reason.

TURN AROUND TIME

Normal _____ Rush _____

Requested Due Date: _____

PRESERVATION CODES

N = HNO_3 / Nitric Acid
S = H_2SO_4 / Sulfuric Acid
H = HCl / Hydrochloric Acid
U = Unpreserved, Cooled to 4°C
OH = NaOH / Sodium Hydroxide
SO = $Na_2S_2O_3$ / Sodium Thiosulfate

III B1e

Removed 7 oversize maps

1 of 3

Hull & Associates, Inc.

6130 Wilcox Road
Dublin, Ohio 43016
(614) 793-8777
Fax (614) 793-9070

October 24, 1996

Ms. Karla McDonald
Indiana Department of Environmental Management
Voluntary Remediation Program
105 South Senate Avenue, Room N-1255
P.O. Box 6015
Indianapolis, IN 46206-6015

Re: IDEM Site No. 6940501 - VRP
Phase II Investigation Report for the Former Wayne Corporation Facility in Richmond, Indiana; USSA3D.058. Carpenter Manufacturing

Dear Ms. McDonald:

Hull & Associates, Inc. (HAI) on behalf of the United States Steel and Carnegie Pension Fund, Inc. is pleased to enclose three copies of the Phase II Investigation Report for the former Wayne Corporation in Richmond, Indiana (HAI Document # USSA3D.044). This investigation was completed in accordance with the May 1995 Phase II Investigation Work Plan (HAI Document # USSA3D.001) and IDEM's Voluntary Remediation Program Resource Guide.

The conclusions of this investigation are presented in Section 3.0 of the report and we believe this report presents the data necessary to move forward with the remedial stage of this project. After your review of the information in this report and HAI's subsequent response to any comments, a Remediation Work Plan will be prepared and submitted to IDEM for approval.

We look forward to your review of this document and continued work on this project. If you have any questions, please call me at (614) 793-8777.

Sincerely,

Mark J. Bonifas, P.E.

enclosures

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ct: Greta Hawvermale, IDEM w/o enclosures
Carla Gill, IDEM w/o enclosures
Louise Moloney, U.S. Steel and Carnegie Pension Fund, Inc. w/o enclosures
Kathleen G. Lucas, Bose, McKinney & Evans w/o enclosures
Craig A. Kasper, P.E., HAI w/o enclosures

Toledo, OH
Mason, OH
Solon, OH
Bedford, NH
Austin, TX

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1.0 INTRODUCTION

Indiana's Voluntary Remediation Program (VRP) was established by Senate Enrolled Act (SEA) 392 and signed into law on February 26, 1992. The law is codified at Title 13 of the Indiana Code (I.C. 13-25-5 et seq.). I.C. 13-25-5 authorizes The Indiana Department of Environmental Management (IDEM) to implement a comprehensive VRP to accept and evaluate applications for voluntary remediations of hazardous substances and petroleum and review and approve work plans for various stages of remediation. IDEM began accepting applications on July 1, 1993.

The United States Steel and Carnegie Pension Fund, Inc. (Pension Fund) is leading an effort to clean up environmental contamination identified in the VRP application at the former Wayne Corporation facility in Richmond, Indiana. The Pension Fund has received approval of the application from IDEM on June 10, 1994 to conduct this cleanup through the VRP. The voluntary remediation agreement was executed on December 5, 1995. The Pension Fund has retained Hull & Associates, Inc. (HAI) to provide technical assistance related to the performance of activities under the VRP. This Phase II Investigation Report has been prepared for the Pension Fund to document the activities conducted in accordance with the approved Phase II Investigation Work Plan (Work Plan) (HAI Document # USSA3D.001) dated May 16, 1995. The Phase II Investigation Work Plan is supported by four separate documents including the Field Sampling and Analysis Plan (HAI Document # USSA3D.002), the Quality Assurance Project Plan (HAI Document # USSA3D.003), the Health and Safety Plan (HAI Document # USSA3D.004), and the Community Relations Plan (HAI Document # USSA3D.005).

This report presents the findings of the investigation conducted in accordance with the approved Work Plan, in addition to findings of previous investigations. A summary of previous investigations is presented in Section 1.1.3 and a description of the hydrogeology and relationships to chemical analyses (based on previous investigations) is presented in Section 2.1.2. The final section titled "Conclusion" presents the findings based on all investigative data to date. All plates, figures, and

tables associated with this report are located at the end of the text and Appendix A through E are included in this document. All other appendices are separately bound documents.

1.1 Background

1.1.1 Site Location and History

The former Wayne Corporation is located at 1100 Industries Road in Richmond, Indiana and Wayne County (Site). It is located at the southeast intersection of U.S. I-70 and S.R. 35. A Site Location Map is presented as Figure 1. The property parcel on which the Site is located encompasses approximately 93 acres and is bound on the north side by I-70, on the west by S.R. 35, on the south by Industries Road and an industrial facility, and on the east by private property. A 500,000 square foot manufacturing facility is in the central portion of the Site. The remainder of the Site is covered with either asphalt or concrete pavement, gravel, or grass. The Chesapeake and Ohio Railroad bisects the eastern portion of the Site and a railroad siding extends to the southern side of the facility. A tributary of the West Fork of the Whitewater River parallels the railroad in a north-south direction. An overall Site Plan depicting the land use adjacent to the Site is presented on Plate 1.

Historical records indicate the Site was used for agricultural purposes prior to the Wayne Corporation constructing the manufacturing facility in 1967. The Pension Fund owned the Site from 1967 to 1993. During that entire time, the facility was occupied by the Wayne Corporation, who leased it for the manufacture of bus bodies. The various operations at the facility included storage of raw materials and bus chassis, metal forming, paint application, metal pretreatment, parts assembly, final bus assembly, and final product touch-up.

In June 1993, the City of Richmond purchased the property from the Pension Fund. The City is now leasing the Site to the current operator, Carpenter Manufacturing, which also manufactures buses at the Site and uses similar operations.

1.1.2 Environmental Setting

The topography of the Site is relatively flat. The Site was regraded prior to construction of the existing facility. A drainage swale was present in the western portion of the Site that trended north-south between a culvert at the north edge of the Site to near the existing water tower. This drainage swale was a tributary to Clear Creek which is a tributary to the East Fork of the Whitewater River. Other than the drainage swale, the original topography was relatively flat to gently rolling. Ground elevations range from a low of 1040 feet above mean sea level (MSL) along the tributary of the West Fork of the Whitewater River to a high of 1060 feet MSL in the location of the manufacturing facility and at the eastern edge of the Site.

The Site is located within the Tipton Till Plain section of the Central Lowland physiographic province. The region is blanketed with Wisconsinan till lending to a nearly flat to gently rolling topography. The Site is located within the Whitewater River Basin which in turn lies within the Miami River Basin of the Ohio River drainage system.

The glacial material in the region commonly ranges between 50 and 150 feet in thickness and contains lenses of sand and gravel disseminated throughout its vertical and lateral extent. These sand and gravel units comprise the Wayne-Henry Aquifer System in this region. The productive aquifer zones within the system are generally less than 10 feet thick. Reported well yields range from zero to 150 gallons per minute (gpm) with the majority of the yields being 15 gpm or less. The bedrock underlying the glacial till in the region is the Ordovician Whitewater Formation consisting of fossiliferous limestone and calcareous shales. Wells installed in the bedrock generally have yields of between two and eight gpm. A detailed discussion of the Site-specific hydrogeology based on previous investigations at the Site is presented in Section 2.1.2.

1.1.3 Summary of Previous Investigations

Previous investigations have been conducted at the Site in the area near the manufacturing facility. A Facility Plan is presented on Plate 2 that indicates the locations of previous investigative work. All discussions in the remainder of this section will be referenced to Plate 2 unless otherwise noted.

1.1.3.1 Phase I Environmental Site Assessment

In 1991, ENVIRON Corporation located in New Jersey, completed an environmental assessment of the Site for the Pension Fund. The result of ENVIRON's investigation concluded that potential for soil and ground-water contamination existed at the Site. These potential areas include: the six underground storage tanks (USTs) installed in 1967 and removed in 1988; two USTs installed in 1988 that currently exist and were installed in the same excavation as the 1967 USTs that were removed; two small fuel oil and one antifreeze aboveground storage tank (AST); raw material ASTs north and west of the facility; the "west end" and "interim status" container storage areas; and an incinerator. ENVIRON recommended several soil samples be collected near the USTs, ASTs, raw material storage areas, and around the paint room and be analyzed for volatile organic compounds (VOCs). ENVIRON also recommended installing a minimum of four monitoring wells including wells placed downgradient of the building and UST area and collecting ground-water samples for volatile and semi-volatile organic analyses.

1.1.3.2 Phase II Environmental Site Assessment (1st Sampling Event)

In November 1992, HAI completed a Phase II Environmental Site Assessment at the Site for the Pension Fund. This assessment included additional historical and regulatory file reviews, a limited on-Site file review, a Site reconnaissance, the collection of sediment samples from three stormwater outfalls, and the installation of six soil borings and five monitoring wells. Two soil borings/monitoring wells (SB-1/MW-1 and SB-2/MW-2) were installed near the two existing USTs. One soil boring (SB-3) was installed in the former excavation created from the removal of three USTs installed in 1967 and one soil boring/monitoring well (SB-4/MW-

3) was installed near the reported location of a former UST. One soil boring/monitoring well (SB-5/MW-4) was installed near the ASTs on the north side of the facility and one soil boring/monitoring well (SB-6/MW-5) was installed near the ASTs on the west side of the facility. The soil borings and wells from this sampling event are indicated in cyan on Plate 2.

The sediment samples were analyzed for VOCs in accordance with U.S. EPA SW-846 methods 8010 and 8020, semi-volatile organic compounds in accordance with method 8270, and total metals. Soil samples from soil borings SB-1 through SB-4 (borings near the current and former USTs) were analyzed for benzene, toluene, ethylbenzene and xylenes (BTEX) in accordance with method 8020 and total petroleum hydrocarbons (TPH) in accordance with method 8015 modified per CA/LUFT. Ground-water samples from monitoring wells MW-1, MW-2 and MW-3 were analyzed for VOCs in accordance with methods 601 and 602 modified to include xylenes, methyl tert-butyl ether (MTBE), and tert-butyl alcohol (TBA), semi-volatile organics in accordance with method 625, and dissolved lead. Ground-water samples from SB-5 and SB-6 (borings near the north and west ASTs) were analyzed for VOCs in accordance with methods 8010 and 8020 modified to include xylenes. Ground-water samples from MW-4 and MW-5 were analyzed for VOCs in accordance with method 601 and 602 modified to include xylenes and naphtha in accordance with method 8015 modified per CA/LUFT.

Public records obtained during this investigation indicate the closest water well is located approximately 1000 feet southwest of the Site. This well obtains water from a sand and gravel unit approximately 90 feet below the surface. Land use to the north and east of the Site is agricultural, to the south industrial, and to the west light industrial and commercial.

Based on a review of Wayne Corporation environmental files, two of the three hazardous waste management units required further closure. Based on the file search, the only closure

approved by the IDEM was for the "interim status" container storage area. Records were not found indicating closure had been approved by the IDEM for the "west end" container storage area and the incinerator. However, activities conducted concurrently with the subsequent sampling events described below indicated that IDEM had approved closure of the "west end" container storage area. Based on this information, HAI initiated activities independent from this investigation to finish closure of the incinerator.

1.1.3.3 Phase II Environmental Site Assessment (2nd Sampling Event)

In March 1993, HAI conducted a second sampling event to assess the source and extent of contamination found during the first sampling event. Several borings and monitoring wells were installed around the perimeter of the facility to determine the general geologic and hydrogeologic characteristics of the Site as a whole and to evaluate potential off-Site contaminant migration. The second sampling event soil borings and wells are indicated in red on Plate 2. These soil borings and wells were installed in nests to allow discrete monitoring of different saturated units using the description of "U", "M", and "L" for upper, middle, and lower, respectively. At each location, the deepest boring was drilled to fifty feet. A "U" designation was used when only one saturated unit was encountered and "U" and "L" were used when two units were encountered. The location of the nests are as follows:

1. SB-7U/MW-6U and SB-7L/MW-6L - installed near the east end of the facility and the assumed regional downgradient direction of the location of the press pits within the facility;

2. SB-8U/MW-7U and SB-8L/MW-7L - installed south of the facility and east of the offices, near the suspected location of a former UST found on historic Site plans, and the assumed regional downgradient direction of the USTs removed in 1987;

3. SB-9U/MW-8U and SB-9L/MW-8L - installed southeast and in an assumed regional downgradient direction of the existing USTs;

4. SB-10U/MW9U, SB-10M/MW-9M, and SB-10L/MW9L - installed southwest of the facility and in the center of the former location of a drainage swale prior to development of the Site;

5. SB-11U/MW10U and SB-11L - installed west of the west ASTs (the upper saturated zone was the only zone encountered at this location, therefore a lower well was not installed);

6. SB-12U/MW-11U and SB-12L - installed north of the north ASTs (the upper saturated zone was the only zone encountered at this location, therefore a lower well was not installed); and

7. SB-13, SB-14, SB-15, and SB-16 - installed in areas on the Site that appeared to be unaffected by industrial activity to collect samples to determine naturally-occurring metal concentrations. The locations of SB-13 through SB-16 are shown on Plate 1.

Soil samples were collected and analyzed from each boring for VOCs in accordance with Method 8240, semi-volatile organic compounds in accordance with Method 8270, total metals, and polychlorinated biphenyls (PCBs) in accordance with Method 8080. Ground-water samples were collected from each of the newly installed monitoring wells and analyzed for VOCs in accordance with Method 8240, semi-volatile organic compounds in accordance with Method 8270, total metals, and PCBs in accordance with Method 8080.

1.1.3.4 Phase II Environmental Site Assessment (3rd Sampling Event)

Based on the data obtained during the second sampling event, another round of soil borings and monitoring wells were installed. The third sampling event soil borings and wells are indicated in magenta on Plate 2. The analytical results of the soil and ground-water samples collected during the second sampling event indicated contamination had not reached the property boundary of the Site, that it was probably located in shallow saturated zones (within twenty feet of the surface), and that it was underlain by at least thirty feet of clay-rich low permeability soils. To further delineate the localized extent of contamination near the north and west ASTs, HAI installed eight soil borings and five monitoring wells hydraulically

downgradient (south and southeast) of the north ASTs and the west ASTs. The eight borings and five wells included six shallow borings to a maximum depth of 24 feet and two deep borings to a depth of fifty feet and were installed as follows:

1. SB-17 - installed southeast of the north ASTs to a depth of 16 feet; relatively high PID readings from this boring indicated VOCs were present in this boring and another location further from the north ASTs (SB-22U/MW-12) was selected to install a well;

2. SB-18 -installed southwest of the north ASTs to a depth of 18 feet; relatively high PID readings from this boring suggested VOCs were present. Another location further south from the north ASTs (SB-21/MW-13) was selected to install a well;

3. SB-19U/MW-14 - installed inside the facility and southeast of the west ASTs;

4. SB-19L - installed near the west ASTs to form a cluster with MW-5 and drilled to a depth of 50 feet. A saturated zone was not encountered lower than the zone encountered in MW-5. Therefore, a well was not installed;

5. SB-20/MW-15U - installed south of the west ASTs;

6. SB-21/MW-13 - installed inside the facility and south of the north ASTs as an alternate monitoring well location to SB-18;

7. SB-22U/MW-12 - installed inside the facility and southeast of the north ASTs as an alternate monitoring well location to SB-17; and

8. SB-22L/MW-4L - installed as a nest with MW-4 and drilled to a depth of 50 feet.

The four shallow wells MW-12, MW-13, MW-14 and MW-15 were installed to monitor the upper saturated zone along with existing wells MW-4 and MW-5. The one deep well, MW-4L, was installed to monitor the next lower saturated zone. This well was installed as a nest with MW-4. The locations of the borings and wells are shown on Plate 2. All soil and ground-water samples were analyzed for VOCs in accordance with Method 8240.

1.1.3.5 Phase II Environmental Site Assessment (4th Sampling Event)

The data obtained during the third sampling event did not fully define the extent of contamination near the north and west ASTs; therefore, 14 soil borings and 11 monitoring wells were installed during the fourth sampling event. The fourth sampling event soil borings and wells are indicated in green on Plate 2 and were installed as follows:

1. SB-23/MW-15L - installed south of the west ASTs and to form a nest with MW-15U;
2. SB-24/MW-16U - installed west of the west ASTs;
3. SB-25/MW-17U - installed north of the west ASTs;
4. SB-26, SB-27, SB-28, SB-30 - installed just north of the facility between the location of the west and north ASTs to investigate the soils near the historic location of underground piping from ASTs located on the west side of the facility;
5. SB-29U/MW-18 - installed near the location of SB-18;
6. SB-31/MW-19 - installed north of the north ASTs;
7. SB-32/MW-20 - installed inside the facility, south of SB-18, and west of MW-13;
8. SB-33/MW-23 - installed west of the north ASTs;
9. SB-34/MW-21 - installed southeast of MW-13;
10. SB-35/MW-22 - installed south of MW-12 and MW-13; and
11. SB-36/MW-24 - installed west of MW-23 due to high PID readings during the installation of MW-23.

Soil samples were collected from each boring and analyzed for VOCs in accordance with Method 8240. Ground-water samples were collected from each newly installed well and analyzed for VOCs in accordance with Method 8240.

The north and west ASTs are connected to the facility by underground piping. During this event, the underground lines were tightness tested. Three lines tested tight while the line associated with AST 4 was found to be leaking. In addition, an on-Site file review revealed that a former underground line associated with AST 3 leaked and was replaced approximately seven years ago. After the line testing was complete, all lines were drained, disconnected from the ASTs, and capped. The approximate location of underground piping is indicated on Plate 2.

2.0 SITE CHARACTERIZATION

2.1 Baseline Assessment

2.1.1 Ecological Assessment

In accordance with Appendix C of IDEM's VRP Resource Guide, an ecological assessment was performed at the Site. This assessment was conducted primarily as a desktop study. Specifically, this assessment was conducted to determine if critical habitats (as listed in Table C-1, of the VRP Resource Guide) are present at the Site and whether there is potential for such habitats to be impacted by conditions at the Site. Table 1 summarizes the results of the desktop study. All data used to support this assessment are provided for review in Appendix A. In addition to the desktop study, several informal visual assessments of the Site have been conducted by a HAI biologist. No critical habitats were found through the desktop study or observed during the Site visits.

2.1.2 Background Hydrogeological Assessment and Relationships to Chemical Analyses

This section has been developed from both a review of publicly available documents and data obtained from previous investigations at the Site described in Section 1.1.3. The previous Site investigations have focused on four areas which are indicated on Plate 2 and include the following:

1. the area around and including the north ASTs and associated underground piping (Area A);
2. the area around and including the west ASTs and associated underground piping (Area B);
3. the area around and including the location of the former gasoline and diesel USTs (Area C); and
4. the area around and including the existing gasoline and diesel USTs (Area D).

A total of forty-five soil borings and thirty-one monitoring wells had been installed to characterize the hydrogeologic conditions and the distribution of organic and inorganic contamination. The

locations of the soil borings and monitoring wells are shown on Plate 2. Soil and ground-water samples were collected from each boring and monitoring well for chemical analyses. Several soil samples were also analyzed for grain size characterization and permeability analyses. Slug testing was performed on selected monitoring wells to evaluate hydraulic conductivity and transmissivity.

Soil borings were advanced to maximum total depths of fifty feet. The glacial till sediments encountered were mostly silty clays with a minor fraction of sand and gravel. Saturated permeable units were interbedded throughout the till and varied in thickness from less than 0.5 feet at several locations to 18.3 feet at SB-7L/MW-6L. These units were noted to be confined by the silty clay till. Bedrock was not encountered in any of the borings and was estimated to be approximately 150 feet deep based on bedrock topography maps prepared by the IDNR (IDNR, 1988). Hydrogeologic cross-sections have been developed to illustrate the stratigraphy within the glacial sediments in Area A and Area B as shown on Plates 3, 4, 5, and 6.

2.1.2.1 Area A - North ASTs

Fourteen soil borings and twelve monitoring wells were installed in the vicinity of the north ASTs. Although the saturated permeable units were encountered at several different elevations, the majority of the monitoring wells were installed to screen those units between elevations of 1,065 feet and 1,060 feet MSL (described as the 1065 and 1060 sand units throughout this report). The relationships of the saturated permeable units within the silty clay till are illustrated on cross sections A-A', B-B', and C-C'.

Based on July 1993 data, ground-water flow was noted to be towards the southwest in both the 1065 and 1060 sand units with hydraulic gradients of 0.026 feet/foot and 0.018 feet/foot, respectively.

In-situ hydraulic conductivity (slug) testing was performed on monitoring wells MW-4 (1065 sand) and MW-11U (1065 sand) to estimate hydraulic conductivity and transmissivity values. Slug test results are shown in Table 2. Although the values from these two wells indicate moderate rates of ground-water movement, the saturated lenses were noted to be thin and likely discontinuous.

One Shelby tube sample was collected from SB-22L/MW-4L at an elevation of 1,046.3 feet MSL and analyzed for grain size distribution, moisture content and coefficient of permeability (i.e., hydraulic conductivity). The results of this analysis is presented in Table 3. The results indicate the soils underlying the monitored saturated unit (1057 sand) exhibits a low hydraulic conductivity and likely serves as a confining unit which inhibits downward ground-water flow.

Unsaturated soil samples were collected from each boring for chemical analyses to evaluate the presence of organic and inorganic compounds as described in Section 1.1.3. The analytical results are summarized for the first sampling event of the Phase II environmental Site assessment in Table 4. The analytical results of the second sampling event are summarized on Table 5 and the analytical results of the third and fourth sampling event are summarized on Table 6. In addition, organic analytical results are presented on cross sections A-A', B-B' and C-C'.

Chlorinated and aromatic volatile organic compounds (VOCs) were detected above method detection limits in soil samples collected from SB-5, SB-17, SB-18, SB-29U, SB-31, SB-32, SB-33, and SB-34. The highest concentration of total VOCs was in the soil sample from SB-33 (8.0-9.5') at 13.24 mg/kg (Table 6). Soil samples with concentrations of VOCs greater than 1.0 mg/kg were located within fifty feet of the ASTs, with the exception of SB-18 which is eighty feet southwest of the north ASTs (total VOCs at SB-18 was 1.15 mg/kg). The extent of VOCs in soils near the north ASTs was defined in all lateral directions except northeast of SB-22L.

Semi-volatiles, PCBs, and metals analyses were performed on samples from SB-12U and SB-12L. Semi-volatiles and PCBs were not detected above method detection limits in either sample. The concentrations of total metals are listed in Table 5.

Ground-water samples were collected from each monitoring well for chemical analyses to evaluate the presence of organic and inorganic compounds. The analytical results for ground-water samples collected during the first sampling event are summarized in Table 7. The analytical results for ground-water samples collected during the second, third, and fourth sampling events are summarized in Table 8. Ground-water analytical results are also presented on cross sections A-A', B-B' and C-C'.

Chlorinated and aromatic VOCs were detected above method detection limits in ground-water samples from MW-4, MW-18U, MW-19, MW-21, MW-22, and MW-23. Following the installation of MW-4, light non-aqueous phase liquid (LNAPL) was detected in this well. The LNAPL was removed with a bailer and a measurable interface has not been detected in this well during any subsequent sampling/ground-water monitoring event. The highest total VOC concentration in ground water was detected at MW-18U at 12,407 μg/l. This well is approximately eighty feet southwest of the north ASTs and monitors the 1065 sand unit. MW-4, MW-19, and MW-23 are immediately adjacent to the ASTs and are likely in hydraulic communication based on the sand unit elevations (e.g., each monitors a sand unit within the elevation range of 1,065 to 1,068 feet MSL). Whereas MW-21 and MW-22 are located hydraulically side gradient from the ASTs and inside the building. MW-21 and MW-22 apparently monitor a deeper saturated zone with elevations ranging from 1,057 to 1,061 feet MSL. It has not been determined if the sand unit monitored at MW-21 and MW-22 is in hydraulic communication with the 1065 sand unit near the north ASTs. Based on these data, the extent of VOCs in ground water had not been defined northeast of MW-4 and south/southeast of MW-21 and MW-22.

2.1.2.2 Area B - West ASTs

Ten soil borings and seven monitoring wells were installed in the vicinity of the west ASTs. The seven monitoring wells were installed within two distinct saturated permeable units with elevations of 1,065 feet MSL (1065 sand) and 1,060 feet MSL (1060 sand). The relationships of the saturated permeable units within the silty clay till are illustrated on cross sections D-D' and E-E'.

The ground-water flow direction (7/21/93) was noted to be towards the south-southeast at 0.022 feet/foot in both the 1065 and 1060 sand units. In-situ hydraulic conductivity (slug) testing was performed on monitoring wells MW-5 (1065 sand) to estimate hydraulic conductivity and transmissivity values. Slug test results are shown in Table 2. Although the values from this well indicate moderate rates of ground-water movement, the saturated lenses were noted to be thin and likely discontinuous within the area of the Site.

One Shelby tube sample was collected from SB-19L at an elevation of 1,051 feet MSL and analyzed for grain size distribution, moisture content and coefficient of permeability (i.e., hydraulic conductivity). The results of these analyses are presented in Table 3. These results indicate the soils underlying the monitored saturated units (1055 and 1057 units) exhibit low hydraulic conductivities, and likely serve as a confining unit which inhibits downward ground-water flow.

Unsaturated soil samples were collected from each boring for chemical analyses to evaluate the presence of organic and inorganic compounds as described in Section 1.1.3. The analytical results are summarized for the first sampling event of the Phase II environmental Site assessment in Table 4. The analytical results of the second sampling event are summarized on Table 5 and the analytical results of the third and fourth sampling event are summarized on Table 6. In addition, organic analytical results are presented on cross sections A-A', B-B' and C-C'.

Chlorinated and aromatic volatile organic compounds (VOCs) were detected above method detection limits in soil samples collected from SB-6, SB-19U, and SB-25. The highest concentration of total VOCs was in the soil sample from SB-25 (6.0-7.0') at 6.829 mg/kg (Table 6). This boring was installed adjacent to a former product line associated with the west ASTs. The extent of VOCs in soils near the west ASTs was defined in all lateral directions except north of SB-25.

Semi-volatile, PCBs, and metals analyses were performed on samples from SB-11U and SB-11L. Semi-volatiles and PCBs were not detected above method detection limits in either sample. The concentrations of total metals are listed in Table 5.

Ground-water samples were collected from each monitoring well for chemical analyses to evaluate the presence of organic and inorganic compounds. The analytical results for ground-water samples collected during the first sampling event are summarized in Table 7. The analytical results for ground-water samples collected during the second, third, and fourth sampling events are summarized in Table 8. Ground-water analytical results are also presented on cross sections D-D', and E-E'.

Chlorinated and aromatic VOCs were detected above method detection limits in ground-water samples from MW-16U, and MW-17U. The highest total VOC concentration in ground water was detected at MW-17U at 9,230 μg/l. This well is located immediately adjacent to a former buried product line associated with the west ASTs and is screened in the 1065 sand unit. Based on these data, the extent of VOCs in ground water had not been defined north of MW-17U. A ground-water sample from MW-10U was analyzed for metals and PCBs. PCBs were not detected above method detection limits and the metals concentrations are listed on Table 8.

2.1.2.3 Area C - Former Gasoline and Diesel USTs

Four soil borings and three monitoring wells were installed in the vicinity of the former gasoline and diesel USTs. Monitoring wells MW-3 and MW-7U were installed within a saturated permeable unit at an elevation of 1,060 feet MSL (1060 sand). Soil boring SB-3 encountered the 1060 sand below the base of the former gasoline and diesel UST excavation; however, the boring was backfilled with a cement/bentonite grout to prevent the perched water in the former UST excavation from coming in contact with the 1060 sand. Monitoring well MW-7L is installed within a saturated permeable unit at an elevation of 1,053 feet MSL (1053 sand).

A sufficient number of monitoring wells were not installed prior to this investigation within the 1060 sand and the 1053 sand to determine hydraulic gradients. In-situ hydraulic conductivity (slug) testing was performed on monitoring wells MW-3 and MW-7U, which monitor the 1060 sand, to estimate hydraulic conductivity values and transmissivity values. Slug test results are shown in Table 2.

Unsaturated soil samples were collected from each boring for chemical analyses to evaluate the presence of organics and metal compounds. The analytical methods are described in Section 1.1.3 and the analytical results are summarized for the first and second sampling events in Tables 4 and 5, respectively.

Benzene, toluene, ethylbenzene and xylenes (BTEX) were present above detection limits in SB-3 and SB-4 at total concentrations of 7.593 mg/kg and 1.008 mg/kg, respectively. The only VOC detected in SB-8U and SB-8L was acrylonitrile at concentrations of 0.094 mg/kg and 0.090 mg/kg, respectively. Di-n-octyl phthalate and phenanthrene were detected at concentrations of 0.32 mg/kg and 0.25 mg/kg in soil samples from SB-8U (10.0'-12.8'). Total metal concentrations for samples analyzed from SB-8U and SB-8L are listed in Table 5.

Ground-water samples were collected from each monitoring well for chemical analyses to evaluate the presence of organics and metal compounds. The analytical results for ground-water samples collected during the first sampling event are summarized in Table 7. The analytical results for ground-water samples collected during the second sampling event are summarized in Table 8. VOCs and dissolved lead were not detected at concentrations above their respective method detection limits in the ground-water sample from MW-3. VOCs and PCBs were not detected at concentrations above their respective method detection limits in the ground-water samples from MW-7U and MW-7L. Total metals concentrations for ground-water samples from MW-7U and MW-7L are listed in Table 8.

Based on this data, further investigation of this area was required to evaluate the extent of elevated BTEX concentrations in soil near the former gasoline and diesel UST installation. Additional monitoring wells are also required to evaluate the hydraulic gradient in this area. The monitoring wells were also required to evaluate the potential for BTEX contamination in the saturated permeable zones within and downgradient of the former UST installation. Additional investigations were also required near the suspected location of a former gasoline UST installation (i.e., near SB-8U and SB-8L) to identify its location and evaluate potential soil and ground-water contamination.

2.1.2.4 Area D - Existing Gasoline and Diesel USTs

Four soil borings and four monitoring wells were installed in the vicinity of the existing gasoline and diesel USTs. A sufficient number of ground-water elevations were not available from each of the three sand units to determine their respective hydraulic gradients. In-situ hydraulic conductivity (slug) testing was performed on monitoring wells MW-1 and MW-2 to estimate hydraulic conductivity values and transmissivity values. Slug test results are shown in Table 2.

Soil samples were collected from each boring for chemical analyses to evaluate the presence of potential organics and metal compounds. The analytical methods are described in Section 1.1.3 and the analytical results are summarized for the first and second sampling events in Tables 4 and 5, respectively.

BTEX was only detected above method detection limits in the soil sample from SB-2 at a total concentration of 2.821 mg/kg. TPH gasoline and diesel-range organics were only detected in the soil sample from SB-2 at concentrations of 28.3 mg/kg and 28.0 mg/kg, respectively. BTEX and TPH were not detected above method detection limits in the soil sample from SB-1.

VOCs, semi-volatiles organic compounds, and PCBs were not detected above method detection limits in the soil samples from SB-9U and SB-9L. Total metals concentrations for soil samples from SB-9U and SB-9L are listed in Table 5.

Ground-water samples were collected from each monitoring well for chemical analyses to evaluate the presence of potential organics and metal compounds. The analytical methods are described in Section 1.1.3 and the analytical results for ground-water samples collected during the first and second sampling events are summarized in Tables 7 and 8, respectively.

The only VOC detected in ground-water samples collected from Area D were xylenes in MW-2 at a concentration of 2.2 μg/l. Total metals concentrations for samples analyzed from MW-8U and MW-8L are listed in Table 8. Semi-volatiles organic compounds and PCBs were not detected above method detection limits in the ground-water samples from MW-8U and MW-8L. Based on these data, it was determined that further investigation was not required in this area.

2.1.2.5 Perimeter Borings

During the second sampling event, several nested soil borings and monitoring wells were installed around the perimeter of the facility. Some of these perimeter soil borings and monitoring wells have been discussed in Areas A through D, however; twelve soil borings and five monitoring wells are outside of these areas. The location of these nested borings is described in Section 1.1.3.3. Perimeter soil borings and monitoring wells in areas A and B are shown on the hydrogeologic cross-sections.

The saturated permeable unit screened in MW-6U was encountered at an elevation of approximately 1,065 feet MSL (1065 sand), and the saturated unit screened in MW-6L was encountered at an elevation of approximately 1,051 feet MSL (1051 sand). The saturated permeable units screened in MW-9U, MW-9M and MW-9L were encountered at elevations of 1,057 feet MSL (1057 sand), 1,050 feet MSL (1050 sand) and 1,040 feet MSL (1040 sand), respectively.

In-situ hydraulic conductivity (slug) testing was performed on monitoring wells MW-6U and MW-9M to estimate hydraulic conductivity and transmissivity values. Slug test results are shown in Table 2.

Unsaturated soil samples were collected from SB-7U, SB-7L, SB-10U, SB-10M and SB-10L for chemical analyses to evaluate the presence of organic and inorganic compounds. The analytical results are summarized in Table 5.

PCBs were not detected above method detection limits in any soil samples. One VOC, acrylonitrile, was detected in the soil sample from SB-10L at a concentration of 0.259 mg/kg. With respect to semi-volatile organic compounds, di-n-octyl phthalate was detected at concentrations of 16.0 mg/kg and 7.46 mg/kg in the soil samples from SB-7U and SB-7L,

and 2,6-dinitrotoluene was detected in the soil samples from SB-10U and SB-10M at concentrations of 0.64 mg/kg and 0.47 mg/kg, respectively. Total metals concentrations are listed in Table 5.

Ground-water samples were collected from monitoring wells MW-6U and MW-6L for chemical analyses to evaluate the presence of organic and inorganic compounds. The analytical results are summarized in Table 8. VOCs and PCBs were not detected above method detection limits in the ground-water samples from the monitoring wells. Total metals concentrations are listed in Table 8.

Soil borings SB-13 through SB-16 were installed near the eastern and southern extremities of the Site. These borings were each installed to a depth of ten feet to collect soil samples that were considered to be representative of background conditions (i.e., not affected by manufacturing operations at the Site). The locations of SB-13 through SB-16 are presented on Plate 1.

Two soil samples were collected from each boring and submitted for chemical analyses. One soil sample per boring, collected from the upper five feet of soil, was analyzed for metals in accordance with U.S. EPA 7000 Series, VOCs in accordance with U.S. EPA Method 8240, semi-VOCs in accordance with U.S. EPA Method 8270 and PCBs in accordance with U.S. EPA Method 8080. A second soil sample per boring, collected from the lower five feet of soil, was analyzed only for metals in accordance with U.S. EPA 7000 Series.

VOCs, semi-volatile organic compounds, and PCBs were not detected above method detection limits in any of the four soil samples analyzed from the upper five feet in each boring. The concentrations of total metals are listed in Table 5.

Soil borings SB-26, SB-27 and SB-28 were installed in the vicinity of an abandoned product line running along the north side of the building between the north ASTs and the west end of the building. Each boring was sampled to a depth of ten feet. One soil sample was submitted for chemical analyses from each boring and analyzed for VOCs in accordance with U.S. EPA Method 8240. VOCs were not detected above method detection limits in any of the soil samples analyzed from these borings. Based on these data, it was determined that additional investigation was not necessary outside of Areas A, B, and C.

2.1.2.6 Sediment Sampling

Sediment samples were collected from each of three stormwater outfalls around the perimeter of the facility. Stormwater outfall #1 is located near the southeast corner of the Site in the vicinity of soil boring SB-14. Stormwater outfalls #2 and #3 are located at the western end of the Site along the U.S. 35 on-ramp to eastbound Interstate 70. The locations of the three stormwater outfalls are shown on Plate 1. Each of the three sediment samples were analyzed for VOCs in accordance with U.S. EPA Methods 8010 and 8020 and total metals. Analytical results are summarized on Table 9.

Ethylbenzene and xylenes were detected in the sediment sample collected near stormwater outfall #1 at concentrations of 0.008 mg/kg and 0.021 mg/kg, respectively. Carbon tetrachloride was detected in the sediment sample collected near stormwater outfall #3 at a concentration of 0.005 mg/kg. VOCs were not detected above method detection limits in the sediment sample collected near stormwater outfall #2. Total metals concentrations are listed in Table 9.

2.2 Sampling Methodology

This section has been developed from data obtained during the performance of the most recent investigative events (5th and 6th sampling events) described in the approved Phase II Investigation Work Plan (HAI Document # USSA3D.001). As used throughout the remainder of this report, the

5th sampling event refers to the initial round of ground-water samples collected in December 1995 prior to initiation of any soil borings. The 6th sampling event refers to the subsequent soil sampling from newly installed borings and ground-water sampling from newly installed monitoring wells (January 1996). This section identifies the areas of the Site which were investigated and indicates the location and rationale for sampling specified media. The investigative methods that were used are described herein and any deviations from the Field Sampling and Analysis Plan (HAI Document # USSA3D.002) or Quality Assurance Project Plan (HAI Document # USSA3D.003) are identified and explained.

2.2.1 Sample Matrices

Unsaturated soil samples were collected from the glacial overburden overlying bedrock. In addition, ground-water samples were collected from the saturated permeable units encountered within the glacial overburden.

2.2.2 Sample Locations

The location of the soil borings and monitoring wells installed during this sampling event are indicated in black on Plate 2. The rationale for the location of the soil borings and monitoring wells is discussed in Section 3.4.2 of the Phase II Investigation Work Plan. However, as anticipated during preparation of the Work Plan, some deviations were necessary based on data collected during field activities. Five additional soil borings and monitoring wells were installed in Area A as follows:

1. monitoring wells were not installed in soil borings SB-38 and SB-39 based on the presence of VOCs in ground-water samples collected from a temporary monitoring well and a *HydroPunch*, respectively;

2. during installation of SB-41, the thickness of the saturated unit was greater than anticipated prompting the installation of a deep monitoring well (MW-29L/SB-41L) and a shallow monitoring well (MW-29U/SB-41U) within the same saturated zone;

3. due to the presence of VOCs in the ground-water sample from SB-38, MW-34U/SB-46U and MW-34L/SB-46L were installed further south (downgradient) of the location of SB-38. Due to the thickness of the saturated unit, upper and lower wells were installed within the same saturated zone;

4. MW-21L/SB-34L was installed adjacent to MW-21/SB-34 to investigate the thickness of the silty clay soils encountered beneath the saturated unit in MW-21/SB-34; and

5. SB-47 was installed adjacent to MW-29L/SB-41L to investigate the thickness of the silty clay soils beneath the saturated unit encountered in MW-29L/SB-41L.

Two additional soil borings were installed in Area C. SB-44A was installed in an attempt to sample through the former UST excavation; however, it appeared the boring was placed outside of the former excavation as backfill material was not encountered. SB-48 was installed within the backfill of the former UST excavation for the collection of a water sample through a temporary monitoring well. The soil boring proposed in the Work Plan in the area of the MW-7 cluster was not installed because a former UST or UST excavation was not identified with the ground penetrating radar survey described in Section 2.2.3.1.

2.2.3 Investigation Methods

2.2.3.1 Ground Penetrating Radar

A ground penetrating radar (GPR) investigation was conducted by HAI on December 6 and 7, 1995 in accordance with the methods described in Section 3.4.3.1 of the Work Plan.

The instrument was calibrated utilizing the existing UST installation in Area D as the control. The instrument was set to scan to a depth of twelve feet which corresponds to the depth of the bottom of the UST excavation in Area C as evidenced in the soil boring log for SB-3. A copy of the output trace for each survey line is located in Appendix B.

A ten foot by ten foot grid was established in Area C measuring sixty feet north to south and 110 feet east to west as shown on Plate 2. The lines were numbered consecutively starting

with C1. The prefix "C" indicates the area in which the line was run. Lines C1 to C7 were run from west to east, and lines C8 to C19 were run from north to south. The GPR traces showed no signatures that indicated the presence of USTs; however, the limits of one excavation was defined. The eastern limit of the excavation extends approximately twenty feet from column line 16 and the limits of the excavation from north to south begin at column line 5 and extend south fifty feet.

A ten foot grid by ten foot grid was established in the area of the MW-7 cluster. The grid was split by the fence with the grid measuring fifty feet by 120 feet south of the fence, and thirty feet by 120 feet north of the fence. The lines were numbered consecutively starting with C20. Lines C20 to C25 were run from west to east and C26 to C38 were run from north to south on the south side of the fence line as shown on Plate 2. Lines C39 to C41 were run from west to east and C42 to C54 were run from north to south on the north side of the fence. The GPR traces did not show any signatures that suggested the presence of any USTs or a former excavation. The only object detected in this area was the natural gas supply main for the facility.

2.2.3.2 Soil Borings

All soil borings were installed utilizing hollow stem augers as discussed in Section A.2.1.3.1 of the FSAP. Soil borings SB-34L, SB-37 through SB-42, SB-46U and SB-46L were installed utilizing a Gus Pech GP-750 Mite-E-Mite drilling rig. Soil borings SB-43, SB-44, SB-44A, SB-45, SB-47 and SB-48 were installed utilizing a Gus Pech GP-1300 ATV drilling rig. Soil boring logs are included in Appendix C.

All soil borings were installed with 4.25 inch inside diameter (I.D.) hollow stem augers except SB-34L and SB-44 which were installed with a combination of 8.25 inch I.D. hollow stem augers and 4.25 inch I.D. hollow stem augers. The 8.25 inch I.D. augers were used as a temporary casing to prevent cross-contamination between saturated units when drilling through one saturated unit to a deeper unit separated by a confining soil layer.

SB-34L was installed approximately three feet east of MW-21 and drilled to a depth of thirty-two feet with 8.25 inch I.D. hollow stem augers. This depth was chosen to ensure the lead auger was seated in the silty clay beneath the upper saturated unit. A rubber O-ring was placed between each auger section to provide a water-tight seal. In addition, the augers were backfilled with bentonite slurry to a depth of twenty feet for added protection against potential water infiltration. The boring was then advanced from thirty-two feet to forty-six feet with 4.25 inch I.D. hollow stem augers equipped with a modified cutting head.

SB-44 was installed in the former UST excavation in Area C. The boring was initially drilled utilizing 4.25 inch I.D. hollow stem augers to a depth of ten feet. The base of the excavation was encountered at a depth of 8.6 feet, and the backfill was saturated at a depth of four feet. The objective was to install a monitoring well in the saturated unit beneath the UST excavation, therefore, the boring was overdrilled to a depth of ten feet with 8.25 inch I.D. hollow stem augers. The augers were backfilled to a depth of five feet with bentonite chips which were hydrated and allowed to swell for approximately one-half hour. The boring was then advanced from ten feet to eighteen feet with 4.25 inch I.D. hollow stem augers.

All soil borings not utilized for monitoring well installation were decommissioned in accordance with Section A.2.1.9 of the FSAP.

2.2.3.3 Monitoring Wells

All monitoring wells were constructed of two inch I.D. Schedule 40, flush threaded PVC casing and two inch I.D. Schedule 40, flush threaded 0.01 inch slotted PVC screen. All monitoring wells were installed and constructed as discussed in Section A.3.3.3 of the FSAP. However, deviations did occur in the installation of monitoring wells MW-29U, MW-29L and MW-34L. Monitoring well construction diagrams are included with their corresponding soil boring logs in Appendix C.

Due to heaving sand conditions during the installation of MW-29U, a bentonite chip seal could not be installed on top of the sand pack filter. Therefore, five feet of a thick bentonite slurry was installed with a tremie hose.

Prior to the installation of MW-29L, the boring was backfilled from sixty feet to fifty-four feet with bentonite chips. The bentonite chips were hydrated and allowed to swell for approximately one-half hour. A one foot sand cushion was installed from fifty-four to fifty-three feet.

Prior to the installation of MW-34L, the boring was backfilled from fifty-two feet to fifty feet with bentonite chips. The bentonite chips were hydrated and allowed to swell for approximately one-half hour. In addition, only one foot of bentonite pellets was installed on top of the sand pack filter because they bridged between the augers and the well casing. The cement/bentonite slurry was installed with a tremie hose which was pushed through the bentonite chips.

2.2.3.4 *HydroPunch* Sampling

Ground-water samples were collected with a *HydroPunch* during soil boring installation activities as described in Section A.3.2 of the FSAP. Deviations from the FSAP occurred at soil borings SB-37, SB-38, SB-40, SB-42, and SB-48 due to insufficient saturated thickness or hydraulic pressure to fill the *HydroPunch* sampler. Ground-water samples from these borings were collected by installing temporary monitoring wells constructed of two inch I.D. Schedule 40 PVC casing and screen. The temporary monitoring well materials were decontaminated prior to installation and dedicated to one location.

2.2.3.5 In-Situ Aquifer Testing (Slug Tests)

Slug tests were conducted at monitoring wells MW-10U, MW-13, MW-14, MW-15U, MW-17U, MW-20, MW-21U, MW-21L, MW-22, MW-25, MW-28, MW-29U, MW-29L, MW-

31, MW-33, and MW-34L. Falling-head slug tests were conducted at each location as described in Section A.3.5.3 of the FSAP. Pressure transducers were not used, instead water levels were recorded manually utilizing a *Solinst* electrical conductivity water level meter. The data was analyzed using the software Aquifer Test Solver (AQTESOLV). Slug test results are shown in Table 2, and all field data and associated graphical results from AQTESOLV are included in Appendix D.

2.2.3.6 Soil and Ground-water Containerization

All auger cuttings and unused soil samples were containerized in Department of Transportation (DOT) approved 55-gallon steel drums as described in Section A.2.1.10 of the FSAP. All water generated during well development well purging and decontamination of equipment was containerized in DOT approved 55-gallon steel drums as described in Section A.3.5.5 of the FSAP. All drums were staged on wooden pallets in a centralized location at the Site.

2.2.3.7 Decontamination of Equipment

All drilling equipment, including the drill rig, augers and rods were decontaminated between boring locations as described in Section A.2.1.8 of the FSAP. All split spoon samplers were decontaminated between sampling intervals in accordance with the FSAP. Equipment such as the water level indicator, interface probe and non-disposal bailers that were introduced into a well were decontaminated as described in Section A.3.5.4 of the FSAP.

2.2.3.8 Headspace Analysis of Soil and Ground-water Samples

Soil samples were screened in the field utilizing a PID equipped with an 11.7 eV bulb as discussed in Section A.2.1.3.5 of the FSAP. In addition, ground-water samples were drawn from soil borings and screened in accordance with the FSAP to assist with the placement of permanent monitoring wells. PID readings for each sample are included on the soil boring logs in Appendix C.

2.2.3.9 Visual Method to Detect NAPL in Soil and Ground Water

A hydrophobic dye (Sudan IV) was used to detect NAPL in soil and ground water as described in Section A.2.1.3.6 of the FSAP. The dye was used only on soil and ground-water samples with PID readings above background concentrations. The dye test results are shown on the applicable soil boring logs included in Appendix C.

2.2.3.10 Geotechnical Investigation

Shelby tube samples were collected from soil borings SB-39 and SB-44 in accordance with Section A.2.1.3.3 of the FSAP. A Shelby tube sample was attempted at SB-41 as proposed; however, a sample could not be collected because the silty clay was too dry and contained coarse gravel, thereby preventing the advancement of the sampler. The Shelby tube samples were analyzed in accordance with the methods described in Section 3.4.3.3 of the Work Plan. Vertical permeability analyses and soil classification summaries are shown in Table 3 and copies of the laboratory results are included in Appendix E.

2.2.3.11 Differential Leveling Survey

A differential leveling survey was performed to determine relative elevations for the monitoring wells and soil borings. A benchmark of known elevation was used to determine ground surface elevations. The benchmark was located on the top of the culvert located on the north side of the Site beneath Interstate 70 and has an elevation of 1073.70 feet USGS datum. The elevations of the soil borings and monitoring wells are included on the respective soil boring/monitoring well log in Appendix C.

2.2.3.12 Well Development

All monitoring wells were developed in accordance with Section A.3.4.4.4 of the FSAP. Five well volumes were removed from each well.

2.2.4 Sample Collection

2.2.4.1 Soil Sampling

Soil samples were collected utilizing split spoon samplers as described in Section A.2.1.3.2 of the FSAP. A 24-inch split spoon sampler was used in each soil boring except SB-46 L where one 18-inch and one 24-inch split spoon sampler was used. Two soil samples were collected via Shelby tubes as previously described in Section 2.2.3.10.

Each split spoon sample was measured to record recovery and split longitudinally with one-half of the sample placed in a laboratory supplied container in accordance with Section B.4.2.1 of the QAPP and immediately placed on ice in a cooler. The other half of the sample was logged in accordance with Section A.2.1.7 of the FSAP and placed in a *Ziploc* bag for headspace analysis. The headspace was measured for each sample as described previously in Section 2.2.3.8.

The soil sample from each boring with the highest headspace reading was chosen for chemical analysis. However, in soil borings with headspace readings equal to or less than background concentrations, the sample immediately above the saturated unit was chosen for chemical analysis.

For quality assurance purposes, one field (equipment) blank was collected on a split spoon each day as described in Section A.2.1.4 of the FSAP and analyzed by the same methods as the soil samples. However, in the event soil borings were drilled in more than one area requiring different analytical methods in the same day, a field blank was collected in each area. In addition, a trip blank accompanied each cooler of samples during transit from the lab to the Site and back to the lab.

The analytical methods used to analyze each soil sample are described in Section A.2.1.5 of the FSAP. Sample labeling, sample identification, sample storage, sample transportation and

chain-of-custody procedures were followed in accordance with Section B.4.2 of the QAPP. The sample identification number includes four groups of numbers separated by hyphens. For soil samples, the second set of numbers identifies the soil boring location and the third set of numbers identifies the split-spoon sample interval. The depths and sample identification numbers for the soil samples are shown with the corresponding analytical results in Table 9.

2.2.4.2 Ground-water Sampling

Prior to initiating soil boring/monitoring well installation activities, a fifth sampling event was conducted which included a ground-water sample being collected from each existing monitoring well. The procedures described in Section A.3.4.4 of the FSAP were followed.

During the sixth sampling event, all newly installed monitoring wells were sampled in accordance with the procedures described in Section A.3.4.4 of the FSAP with the exception of the well headspace analysis. On the day of sampling, a malfunction of the PID prevented the screening of the well head. However, based on the PID readings from the associated soil borings, a replacement PID was deemed unnecessary.

To ensure proper quality assurance, all sampling procedures for each sampling event were followed as described in Section B.4.2 of the QAPP. A minimum of one duplicate sample and one field blank were collected during each day of sampling. In addition, a trip blank was included in each cooler during shipping. The analytical methods used to analyze each ground-water sample are described in Section A.3.4.6 of the FSAP. For ground-water samples, the second set of numbers identifies the monitoring well location and the third set of numbers identifies the number of times the well was sampled.

2.3 Sample Analysis

The analytical methods, sample containers, and preservation procedures for each sample location and matrix are presented in Table 13. The samples collected from the first sampling event through the sixth sampling event are included in this table.

2.4 Investigation Results

2.4.1 Hydrogeologic Investigation Results

A total of sixty-one soil borings and forty-two monitoring wells have been installed to characterize the hydrogeologic conditions and the distribution of organic and inorganic compounds in soils and ground water at the Site. The locations of the soil borings and monitoring wells are shown on Plate 2. The investigations conducted to date have focused on four areas which are also shown on Plate 2 and include the following:

1. the area around and including the north ASTs and associated underground piping (Area A);
2. the area around and including the west ASTs and associated underground piping (Area B);
3. the area around and including the location of the former gasoline and diesel USTs (Area C); and
4. the area around and including the existing gasoline and diesel USTs (Area D).

Soil borings were advanced to a maximum total depth of seventy-five feet. The glacial till sediments encountered are mostly silty clay with varying percentages of sand and gravel. Sand seams are interbedded throughout the till and vary in thickness from less than 0.5 feet at several locations to 28.8 feet at SB-41L/MW-29L. Bedrock was not encountered in any of the borings and is estimated to be approximately 150 feet deep based on bedrock topography maps proposed by the IDNR (IDNR, 1988). Cross sections A-A' through E-E' have been constructed to illustrate the stratigraphy within the glacial sediments in Area A and Area B as shown on Plates 3, 4, 5 and 6. The cross section locations are indicated on Plate 2.

2.4.1.1 Area A - North ASTs

Twenty-six soil borings and nineteen monitoring wells were installed in the vicinity of and downgradient from the north ASTs. The predominant soil type is brown to grey silty clay till containing varying percentages of sand and gravel. Saturated permeable units, with average grain sizes ranging from silt to gravel, were encountered in most soil borings and varied in thickness from 0.35 feet in SB-12U/MW-11U to 28.8 feet in SB-41L/MW-29L. These units are all confined by the silty clay till.

The saturated permeable units were encountered at several different elevations; however, the majority were encountered at elevations of 1,065 feet (1065 sand), 1,060 feet (1060 sand) and 1,057 feet (1057 sand) MSL. The relationships of the saturated permeable units within the silty clay till are illustrated on cross sections A-A', B-B', C-C' and E-E' as shown on Plates 3, 4, and 6.

The 1065 sand was encountered in MW-4, MW-11U, MW-18U, MW-19, MW-23, MW-24 and MW-25. The thickness ranged from 0.35 feet in MW-11U to 2.5 feet in MW-23. The ground-water elevations from MW-11U, MW-18U and MW-24 were used to calculate the hydraulic gradient of the 1065 sand. The potentiometric surface with hydraulic gradient calculations is shown on Plate 7. Based on the January 1996 data, the direction of ground-water flow is to the southwest at a hydraulic gradient of 0.044 feet/foot. Temporal fluctuations in ground-water levels have occurred based on data summarized in Table 14. However, the temporal fluctuations have had a minimal affect on the ground-water flow direction as is shown on Figure 2.

In-situ hydraulic conductivity (slug) testing was conducted on monitoring wells MW-4, MW-11U and MW-25 to estimate the hydraulic conductivity (K) and transmissivity (T) of the 1065 sand. The slug test results are shown in Table 2 and the AQTESOLV generated graphs are included in Appendix D. To estimate the true velocity (V) of the ground water at each

location, the effective porosity of the saturated unit was estimated to be 20%. This porosity was chosen from the low end of the range for poorly sorted sand and gravel (Fetter, 1980) considering the minor percentages of silt and clay that were also present. The seepage velocity is calculated by the following equation:

$$V = \frac{K}{N_e} \times \frac{dh}{dl}$$

Where: V = seepage velocity (feet/day)
K = hydraulic conductivity (feet/day)
N_e = effective porosity (20%)

Seepage velocities at various monitoring well locations are presented in Table 15.

The 1060 sand was encountered in MW-12, MW-20, MW-22, MW-29L, MW-34L, and SB-38. The thickness ranged from 0.7 feet in MW-29L to 4.0 feet in MW-20. The ground-water elevations from MW-12, MW-20 and MW-22 were used to calculate the hydraulic gradient of the 1060 sand. The potentiometric surface with hydraulic gradient calculations is shown on Plate 7. The direction of ground-water flow is to the southwest at a hydraulic gradient of 0.038 feet/foot. Temporal fluctuations in ground-water levels have occurred; however, it has had minimal affect on the ground-water flow direction. Ground-water levels are included in Table 14 and a comparison of temporal ground-water flow directions is shown on Figure 2.

Slug testing was conducted on monitoring wells MW-20 and MW-22 to estimate K and T values for the 1060 sand. The estimated K at MW-20 and MW-22 is 4.63 ft/day and 26.73 ft/day, respectively. The estimated T at MW-20 and MW-22 is 18.52 ft^2/day and 53.45 ft^2/day, respectively. Using an estimated effective porosity of 20% the estimated V for MW-20 and MW-22 is 0.88 ft/day and 5.08 ft/day, respectively. Seepage velocity calculations are presented in Table 15.

The 1057 sand was encountered in MW-4L, SB-12L, MW-13, MW-21U, MW-28, MW-29U, MW-29L, MW-34U, MW-34L and SB-39. The thickness ranged from 0.5 feet at MW-13 to 28.8 feet at MW-29L. Due to the apparent continuity (at widely varying thicknesses) of the 1057 sand across the Site, the hydraulic gradient was calculated using ground-water elevations from each of the previously listed monitoring wells in Area A as well as ground-water elevations from MW-6L, MW-7L, MW-8U, MW-9U, MW-14 and MW-15L. The potentiometric surface with hydraulic gradient calculations is shown on Plate 7. The overall ground-water flow is to the south-southwest. The hydraulic gradient is variable across the Site as ground-water flow converges from the northwest, northeast and east to form an axis between MW-6L, MW-29U and MW-9U. The ground water flows from the northwest at a hydraulic gradient of 0.006 feet/foot. The ground water flows along the axis at a hydraulic gradient of 0.001 feet/foot. The ground water flows from the east at a hydraulic gradient of 0.004 feet/foot.

Ground-water levels are summarized in Table 14. The temporal fluctuations of ground-water levels have had a minimal affect on the direction of ground-water flow as is shown on Figure 3.

Slug testing was conducted on monitoring wells MW-13, MW-21U, MW-21L, MW-28, MW-29U, MW-29L, MW-34U and MW-34L to estimate K and T values for the 1057 sand. MW-21L was included here for purposes of discussion even though the saturated unit does not appear to be hydraulically connected to the 1057 sand. The estimated K at MW-13, MW-21U, MW-21L and MW-28 is 30.96 ft/day, 6.52 ft/day, 24.52 ft/day and 4.97 ft/day, respectively. The estimated T at MW-13, MW-21U, MW-21L and MW-28 is 15.48 ft^2/day, 57.37 ft^2/day, 46.58 ft^2/day and 8.45 ft^2/day. Due to the rapid rate of recovery during slug testing at MW-29U, MW-29L, MW-34U and MW-34L, an insufficient number of measurements were recorded to estimate K and T. However, based on the rapid recovery rate, K and T are most likely greater than those estimated for other wells in the 1057 sand.

Using an estimated effective porosity of 20% the estimated V for MW-13, MW-21U and MW-28 is 0.46 ft/day, 0.10 ft/day and 0.15 ft/day, respectively. Seepage velocities are presented in Table 15.

Shelby tube samples were collected from MW-4L at an approximate elevation of 1,046 feet MSL and from SB-39 at an approximate elevation of 1,047 feet MSL. The samples were analyzed for grain size distribution, moisture content and coefficient of permeability (i.e., hydraulic conductivity (K)). The results of these analyses are presented in Table 3 and laboratory results are included in Appendix E. The sample from MW-4L was described as a grey silty sandy clay with a trace of gravel. The sample had a natural moisture content of 11.1% and a temperature corrected K of 5.3×10^{-8} centimeters/second (cm/sec) or 1.5×10^{-4} ft/day. The sample from SB-39 was described as a grey clayey silt with some fine to coarse sand and trace fine to coarse gravel. The sample had a natural moisture content of 10.08% and a temperature corrected K of 2.7×10^{-8} cm/sec or 7.7×10^{-5} ft/day. A Shelby tube sample was attempted at the base of the 1057 sand in MW-29L; however, it could not be collected because the silty clay was too dry and contained coarse gravel. With soils underlying the 1057 sand exhibiting such low K values and attaining thicknesses of at least ten feet, the 1057 sand likely serves as a confining unit which inhibits downward ground-water flow.

2.4.1.2 Area B - West ASTs

Ten soil borings and eight monitoring wells were installed in the vicinity of the west ASTs. The predominant soil type is brown to grey silty clay till containing varying percentages of sand and gravel. Saturated permeable units were encountered in each soil boring and varied in thickness from 0.5 feet in SB-11U/MW-10U to 5.4 feet in SB-42/MW-30. These units are all confined by the silty clay till.

As in Area A, the primary saturated units consist of the 1065 sand, the 1060 sand and the 1057 sand. The relationships of the saturated units within the silty clay till are illustrated on cross sections D-D' and E-E' as shown on Plates 5 and 6.

The 1065 sand was encountered in MW-5, MW-15U, MW-16U, MW-17U and MW-30. The thickness ranged from 1.4 feet in MW-5 to 5.4 feet in MW-30. The ground-water elevations from MW-5, MW-15U and MW-16U were used to calculate the hydraulic gradient of the 1065 sand. The potentiometric surface with hydraulic gradient calculations is shown on Plate 7. Based on January 1996 data, the direction of ground-water flow is to the south at a hydraulic gradient of 0.008 feet/foot. Temporal fluctuations in ground-water levels have occurred as can be seen in Table 11. The temporal fluctuations did not affect ground-water flow direction between July 21, 1993 and November 28, 1995, however, the direction of ground-water flow did change with the addition of January 16, 1996 data as a more southwesterly component is shown on Figure 4. However, the change in flow direction is suspect because the relationship between the water level elevation in MW-15U and the elevations in MW-5 and MW-16U was consistent between July 1993 and November 1995 but not between November 1995 and January 1996. The inconsistency may indicate an error in the water level measured at MW-15U.

Slug testing was conducted on monitoring wells MW-5, MW-15U and MW-17U to estimate the K and T of the 1065 sand. Slug test results are shown in Table 2 and the AQTESOLV generated graphs are included in Appendix D. The estimated K at MW-5, MW-15U and MW-17U is 24.91 ft/day, 0.45 ft/day and 7.95 ft/day, respectively. The estimated T at MW-5, MW-15U and MW-17U is 33.13 ft^2/day, 1.17 ft^2/day and 18.29 ft^2/day, respectively. Using an estimated effective porosity of 20%, the estimated V for MW-5, MW-15U and MW-17U is 2.49 ft/day, 0.05 ft/day and 0.80 ft/day, respectively. Seepage velocity calculations are presented in Table 15.

The 1060 sand was encountered in MW-10U and SB-11L at thicknesses of 0.5 feet and 2.2 feet, respectively. Prior to the most recent sampling event, the ground-water elevations for MW-10U, MW-14 and MW-15L were used to calculate the hydraulic gradient of the 1060 sand. However, based on the relationship between the saturated units in MW-14 and MW-15L and the saturated units encountered in soil borings installed during the most recent sampling event, the water levels in saturated units screened in MW-14 and MW-15L correlate more closely to the 1057 sand. Subsequently, there are an insufficient number of monitoring wells screened in the 1060 sand to evaluate the hydraulic gradient.

Slug testing was conducted on monitoring well MW-10U to estimate K and T values for the 1060 sand. The estimated K and T at MW-10U is 0.24 ft/day and 0.12 ft^2/day, respectively.

The 1057 sand was encountered in MW-14, MW-15L, SB-11L and SB-19L. The thickness ranged from 1.2 feet in SB-11L to 7.0 feet in SB-19L. The hydraulic gradient of the 1057 sand was discussed previously in section 2.4.1.1.

A slug test was conducted on monitoring well MW-14 to estimate K and T values for the 1057 sand. The estimated K and T are 5.70 ft/day and 34.20 ft^2/day, respectively. Using an estimated effective porosity of 20% the estimated V for MW-14 is 0.17 ft/day. Seepage velocity calculations are presented in Table 15.

A Shelby tube sample was collected from SB-19L at an approximate elevation of 1,051 feet MSL. The sample was analyzed for grain size distribution, moisture content and K. The results of the analyses are presented in Table 3 with laboratory results included in Appendix E. The sample was described as a grey clayey sand with some silt and little gravel. The sample had a natural moisture content of 9.2% and a temperature corrected K of 9.3×10^{-8} cm/sec or 2.64×10^{-4} feet/day. As stated in the discussion of Area A, the very low permeability soils beneath the saturated units in Area B will likely serve as a confining unit which inhibits downward ground-water flow.

2.4.1.3 Area C - Former Gasoline and Diesel USTs

Nine soil borings and six monitoring wells were installed in the vicinity of the former gasoline and diesel USTs. The predominant soil type is brown to grey silty clay till containing varying percentages of sand and gravel. Saturated permeable units were encountered in each soil boring and varied in thickness from 0.4 feet in SB-45/MW-33 to 10.3 feet in SB-8L/MW-7L. These units are all confined by the silty clay till.

The primary saturated units consist of the 1060 sand and the 1057 sand; however, the 1057 sand was encountered exclusively in MW-7L. The 1060 sand was encountered in SB-3, MW-3, MW-7U, MW-31, MW-32 and MW-33. The thickness ranged from 0.4 feet in MW-33 to 2.8 feet in MW-7L. The ground-water elevations from MW-3, MW-31 and MW-33 were used to calculate the hydraulic gradient of the 1060 sand. The potentiometric surface with hydraulic gradient calculations is shown on Plate 7. The direction of ground-water flow is to the west at a hydraulic gradient of 0.006 feet/foot. Temporal fluctuations in ground-water levels have occurred as can be seen in Table 14. An insufficient number of monitoring wells existed prior to the most recent sampling event, thus the effects of temporal ground-water fluctuations on flow direction cannot be evaluated at this time.

Slug testing was conducted on monitoring wells MW-3, MW-7U, MW-31 and MW-33 to estimate the K and T of the 1060 sand. Slug test results are shown in Table 2 and the AQTESOLV generated graphs are included in Appendix D. The estimated K at MW-3, MW-7U, MW-31 and MW-33 is 86.20 ft/day, 34.95 ft/day, 69.74 ft/day and 186.55 ft/day, respectively. The estimated T at MW-3, MW-7U, MW-31 and MW-33 is 129.3 ft^2/day, 47.88 ft^2/day, 41.85 ft^2/day and 74.62 ft^2/day, respectively. Using an estimated effective porosity of 20% the estimated V for MW-3, MW-7U, MW-31 and MW-33 is 2.57 ft/day, 1.05 ft/day, 2.09 ft/day and 5.60 ft/day, respectively. Seepage velocities are presented in Table 15.

A Shelby tube sample was collected from MW-32 at an approximate elevation of 1,058 feet MSL. The sample was analyzed for gain size distribution, moisture content and K. The results of the analyses are presented in Table 2 with laboratory results included in Appendix E. The sample was described as a grey clayey silt with some fine to coarse sand and little fine gravel. The sample had a natural moisture content of 8.83% and a temperature corrected K of 4.4×10^{-8} cm/sec or 1.2×10^{-4} ft/day.

2.4.2 Sample Analysis Results

The proposed soil boring and monitoring well locations in the approved Work Plan had been based upon data collected during the fourth sampling event (July 1993). During the fifth sampling event (December 1995), all existing monitoring wells were sampled and analyzed to determine if there were any significant changes in contaminant concentrations in ground water since the previous event. Based on the data obtained from the fifth sampling event, there were no significant changes as compared to the previous sampling event to warrant modifying the sampling locations in the approved Work Plan. The sample analytical results for the fifth sampling event are summarized on Table 11. The laboratory analytical reports for this sampling event are included in Appendix F-5.

Several new soil borings and monitoring wells were installed during the sixth sampling event as described in Section 2.2.2. Soil samples were collected from the soil borings and ground-water samples were collected from the monitoring wells. The sample analysis results for soil samples collected during the sixth sampling event are summarized on Table 10. The sample analysis results for ground-water samples collected during the sixth sampling event are summarized on Table 12. The laboratory analytical results for this sampling event are included in Appendix F-6.

The lateral extent of constituents detected above method detection limits in unsaturated soils is confined within the Site boundaries and is localized to the apparent source areas. In Area A, the lateral extent is within 50 feet of the north ASTs and the underground product line associated with AST 4 (the underground line was pressure tested and found to be leaking). In Area B, the lateral

extent is within 50 feet of the west ASTs. In Area C, the lateral extent is within the former UST excavation. The vertical extent in these areas extends from approximately five feet below the surface to the elevation of the first saturated permeable zone. The lateral extent of constituents detected above method detection limits in the saturated permeable zones is within the Site boundaries and is apparently isolated vertically by impermeable soils. The lateral extent in Area A is equivalent to the unsaturated soils in the upgradient direction and extend approximately 350 feet downgradient from the extent of detectable constituents in unsaturated soils. The lateral extent in Area B is roughly equivalent to the unsaturated soil area. In area C, the lateral extent is confined to the former UST excavation.

The predominant constituents detected in Area A are chlorinated organic compounds including 1,1-dichloroethane (1,1-DCA), 1,1-dichloroethylene (1,1-DCE), 1,2-dichloroethylene (1,2-DCE) and the trans and cis isomers, 1,1,1-trichloroethane (1,1,1-TCA), trichloroethylene (TCE), and vinyl chloride. The predominant constituents in Areas B and C are aromatic hydrocarbons including benzene, toluene, ethylbenzene, and xylenes (BTEX).

Because the Site is a non-residential property as defined in Appendix E of the October 1995 VRP Resource Guide and the results of the ecological assessment indicate there are no ecological receptors at the Site, Tier II cleanup levels were compared to detected concentrations of all constituents. There were six constituents detected at the Site that did not have a published Tier II cleanup level including carbon tetrachloride, 1,2-dichloroethylene (1,2-DCE), acrolein, acrylonitrile, chlorobenzene, and 2,6-dinitrotoluene. Utilizing the methods described in Appendix F of the VRP Resource Guide, Tier II cleanup levels were calculated for these compounds. The health-based criteria for subsurface soils for these compounds are summarized on Table 16 and the health based criteria for ground water are summarized on Table 17. The analytical results of all constituents in unsaturated soil samples were below Tier II levels except for 2,6-dinitrotoluene at SB10U and acrylonitrile at SB8U and SB8L. The detected concentrations do not significantly exceed Tier II levels and were only detected in one location at the Site. Therefore, these constituents were not considered relevant in identifying

constituents of concern. The concentrations of several constituents exceeded Tier II levels in ground-water samples including benzene, carbon tetrachloride, 1,1-DCE, TCE, trans 1,2 DCE, cis 1,2-DCE, vinyl chloride, arsenic, and chromium. The lateral extent of constituent concentrations above Tier II levels are indicated on Plate 2. These areas are located in three different saturated units and are indicated on the plates by different colors. The areas are also shown vertically on cross sections A-A' through E-E' on Plates 3 through 6. The analytical results of soil and ground-water samples for all sampling events are presented on the cross-sections for the samples that are represented.

3.0 CONCLUSION

3.1 Extent of Contamination

Based on the data obtained through all investigations, the lateral extent of constituents detected above method detection limits is within the Site boundaries. The soils at the Site consist of silty clay till with varying percentages of sand and gravel. Sand seams are interbedded throughout the till and vary in thickness and elevation. The only saturated zone that appears continuous is the 1057 sand. The 1057 sand is discontinuous north and west of the Site boundaries; however, it does exist at the southern boundary (in the direction of ground-water flow). The upper saturated zones are separated by low permeability, relatively thick confining units which provide a barrier to potentially lower saturated zones.

The apparent source area for Area A is the north ASTs and the underground piping associated with AST 4 and, for Area B, the west ASTs. These ASTs have been emptied and secured against future use. In addition, the underground piping has been disconnected, cleaned, and capped. The apparent source area for Area C is the former USTs. Constituents in unsaturated soils in each area could also be considered as a source to ground water; however, all constituent concentrations are below Tier II cleanup levels which consider the leaching of specific constituents to ground water. Therefore, it appears that all source areas have been eliminated and an increase in constituent concentrations in ground water is unlikely. All organic constituents from soil and ground-water samples are below detection limits at the point of compliance (property boundaries). However, as described in Section 2.4.2, there are seven organic and two inorganic constituents with concentrations in ground water above Tier II cleanup levels within the Site boundaries.

3.2 Contaminant Migration Pathways and Potential Receptors

Based on the ecological assessment described in Section 2.1.1, there are no ecological receptors at the Site. Therefore, humans are the only potential receptors. The Site is used for industrial purposes, is entirely fenced, and has 24-hour security. Therefore, human receptors are limited to Site workers, construction personnel, and ancillary support services (e.g., deliveries).

Two media are contaminated at the Site: unsaturated soils and ground water. For unsaturated soils, there are no migration pathways present to Site personnel. The contaminants are located in subsurface soils and in some locations are covered by a concrete slab which is the floor of the facility. Therefore, the only potential pathway for unsaturated soils could only occur during trenching or excavation activities by construction personnel. The concentration of all constituents in unsaturated soils at the Site are below Tier II levels for the industrial use scenario. This scenario accounts for the potential exposure to subsurface soils by excavation and trenching activities.

For ground water, there are no potential pathways to Site personnel or construction personnel. At many locations the concentrations of all constituents are below the Tier II levels. Limited areas in the ground water within the Site have constituents at concentrations above Tier II levels. The majority of the areas in ground water above Tier II cleanup levels are approximately 20 feet below the surface and below the facility which is constructed with a concrete slab. The Site and surrounding area is serviced by a public water supply and the nearest documented well is located approximately 1000 feet southwest of the Site and obtains water from a sand and gravel unit approximately 90 feet below the surface. The only identified potential migration pathway to off-site receptors is the 1057 sand which has a ground-water flow direction in the southerly direction. At this time, there are no apparent off-site receptors to ground water in the 1057 sand.

3.3 Preliminary Remedial Alternatives

For unsaturated soils all constituent concentrations are below Tier II levels and there is no exposure to ecological receptors or human receptors not considered in the industrial use scenario. Therefore, the remedial alternative for unsaturated soils is to place deed restrictions on land use so that it remains consistent with the industrial land use scenario.

For ground water, the areas above Tier II cleanup levels are located within the Site boundaries and are isolated vertically by the facility structure above and impermeable soils beneath the saturated zones; therefore, there is no exposure to Site or construction personnel. However, there is the

potential for contaminants in Areas A and B to migrate to the southern Site boundary (point of compliance). At this time, there are no apparent receptors in relation to ground water in the 1057 sand. The potential exists that future off-site receptors may exist in the 1057 sand, which would likely not be controlled off-site by institutional controls. Therefore, we recommend that Tier III cleanup levels be developed for the constituents that currently exceed Tier II levels and the fate and transport of these constituents be modelled to determine the potential to reach the point of compliance.

The Site-specific risk assessment would include modifying the default values used in the Tier II computations to more accurately represent the Site conditions for constituents that currently exceed Tier II cleanup levels. In lieu of modifying the Tier II default values, other methodologies may be used and will be identified in the Remediation Work Plan.

Fate and transport modelling would be conducted with a model(s) that are appropriate for the conditions existing at the Site. These models will, at a minimum, consider the following criteria:

1. the chemical types and release mechanisms into the environment;
2. the aquifer hydrogeologic characteristics such as hydraulic conductivity, porosity, ground-water flow direction and velocity;
3. retardation and dispersion rates, including any density/viscosity effects; and
4. chemical, physical, and biological processes.

Based on the purpose of the model and the complexity of the ground-water movement at the Site, it will be necessary to incorporate various assumptions into the model(s). In some cases, the effect(s) of these assumptions are negligible. Calibration and verification will be conducted between the predicted results and observed conditions. Model(s) selection will be based on the assumptions incorporated into the model(s) and the accompanying assumptions will be stated accordingly.

As discussed earlier for unsaturated soils, it is likely concentrations of constituents will remain in ground water at the Site above the cleanup standards that would be applicable if the Site were residential property, therefore, the use of institutional controls (e.g., deed restrictions) will be necessary. A preliminary review of the use of engineering and institutional controls will also be conducted considering the results of the risk assessment and fate and transport modelling.

After review of this report, the Pension Fund will submit a Remediation Work Plan to IDEM to identify in detail the methodology of the Site-specific risk assessment and fate and transport modelling.

4.0 REPORT LIMITATIONS

The conclusions and recommendations presented herein are based on the level of effort and investigative techniques defined in the approved Work Plan (HAI Document # USSA3D.001). HAI has conducted this investigation in a manner consistent with sound engineering practices and with professional judgement. No other warranty or guarantee, expressed or implied, is made. This report does not attempt to evaluate past or present compliance with federal, state and local environmental or land use laws and regulations. HAI makes no guarantees regarding the completeness or accuracy of any information obtained in review of public or private files. Furthermore, this report is prepared for, and made available for the sole use of the United States Steel and Carnegie Pension Fund, Inc. and the contents thereof may not be used or relied upon by any other person without the express written consent and authorization of United States Steel and Carnegie Pension Fund, Inc. and HAI.

5.0 REFERENCES

A variety of technical documents and publications were referred to during the preparation of this document. Some of the references are presented below. Referenced documents and publications may or may not have been reviewed in their entirety. The guidelines and procedures in the documents and publications referenced have not been strictly adhered to unless otherwise noted.

ENVIRON Corporation. Environmental Assessment of the Wayne Corporation in Richmond, Indiana. May 1991.

Wayne Corporation Environmental Files.

State of Indiana. Water Resource Availability in the Whitewater River Basin, Indiana. Department of Natural Resources, Division of Water. 1988.

Hull & Associates, Inc. Phase II Environmental Site Assessment of the Wayne Corporation. November 1992.

Hull & Associates, Inc. Phase II Investigation Work Plan for Voluntary Remediation Program Operations at the former Wayne Corporation Facility. May 1995.

Indiana Department of Environmental Management, Office of Environmental Response. Voluntary Remediation Program Resource Guide. October 1995.

Various U.S. EPA Guidance Documents

TABLES

TABLE 1

ECOLOGICAL ASSESSMENT SUMMARY

CRITICAL HABITATS (1)	HABITAT PRESENT	SOURCE OF INFORMATION
Surface waters (streams, and lakes or ponds	NO	Site visit & USGS map
Wetlands	NO	National Wetlands Inventory Map
Critical habit for endangered/threatened plant and animal species	NO	IDNR - 2/15/96 correspondence
Habitat used by designated or proposed endangered/threatened plant and animal species	NO	IDNR - 2/15/96 correspondence
Riparian areas (stream banks)	NO	Site visit & USGS map
Breeding areas for forest nesting birds, aquatic birds, aquatic mammals, amphibians, or reptiles	NO	IDNR - 2/15/96 correspondence
Migratory stopover areas for migrant shorebirds, aquatic birds, aquatic mammals, amphibians, or reptiles	NO	IDNR - 2/15/96 correspondence
Wintering areas for migrating waterfowl or other aquatic birds	NO	IDNR - 2/15/96 correspondence
Forest areas	NO	Site visit, USGS map, & map of Indiana DNR State properties
Sinkholes or Karst channel re-charge areas	NO	Quaternary Geologic Map of Indiana
Hatcheries	NO	map of Indiana DNR State properties
Parks	NO	map of Indiana DNR State properties
Nature Preserves or Reserves	NO	map of Indiana DNR State properties, Directory of Indiana's Dedicated Nature Preserves
Fish and Wildlife Management, conservation, refuge, or research areas	NO	IDNR - 2/15/96 correspondence
Nongame Conservation Areas	NO	IDNR - 2/15/96 correspondence
Designated Natural Areas	NO	map of Indiana DNR State properties
Reservoir areas	NO	USGS map, map of Indiana DNR State properties
Recreation Areas	NO	map of Indiana DNR State properties
Prairie Areas	NO	IDNR - 2/15/96 correspondence
Dune Areas (lake Michigan near shore areas)	NO	Site visit and USGS map
Other Designated Critical Biological Resources Areas	NO	IDNR - 2/15/96 correspondence

(1) As identified in Table C-1 of IDEM's VRP Resource Guide.
(2) Copies of all references cited are provided in Appendix A.

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TABLE 2

SLUG TEST DATA

WELL ID	GROUND ELEVATION (Feet, MSL)	SCREEN INTERVAL (Feet)	ELEVATION OF TOP OF SATURATED ZONE (Feet, MSL)	TRANSMISSIVITY T (FT^2/DAY)	SATURATED ZONE THICKNESS (Feet)	HYDRAULIC CONDUCTIVITY K (FT/DAY)
MW-1	1075.18	12-22	1058.21	67.64	4.90	13.80
MW-2	1075.16	17-22	1058.00	79.77	2.78	28.69
MW-3	1074.84	15-18	1059.92	129.30	1.50	86.20
MW-4	1076.14	5-10	1068.07	22.080	1.00	22.08
MW-5	1077.10	10-13	1066.00	33.13	1.33	24.91
MW-6U	1076.03	9-14	1065.35	12.71	1.32	9.63
MW-7U	1074.87	12-17	1059.57	47.88	1.37	34.95
MW-9M	1069.23	18-23	1050.10	128.50	3.60	35.69
MW-10U	1075.11	11-15	1060.50	0.12	0.50	0.24
MW-11U	1073.97	7-12	1065.45	17.48	0.35	49.94
MW-13	1077.22	17-22	1057.00	15.48	0.50	30.96
MW-14	1077.23	12-22	1062.03	34.20	6.00	5.70
MW-15U	1076.97	8-13	1066.47	1.17	2.60	0.45
MW-17U	1076.63	9-14	1067.43	18.29	2.30	7.95
MW-20	1077.21	15-20	1061.21	18.52	4.00	4.63
MW-21L	1077.18	40-45	1035.48	46.58	1.90	24.52
MW-21U	1077.21	20-30	1057.22	57.37	8.80	6.52
MW-22	1077.22	13-18	1061.22	53.45	2.00	26.73
MW-25	1076.00	10-14	1065.00	70.91	1.80	39.39
MW-28	1077.22	18-21	1058.62	8.45	1.70	4.97
MW-31	1074.54	13-16	1060.74	41.85	0.60	69.74
MW-33	1075.92	15-18	1059.62	74.62	0.40	186.55

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TABLE 3

SUMMARY OF VERTICAL PERMEABILITY ANALYSES AND SOIL CLASSIFICATION FROM SHELBY TUBE SAMPLES

SOIL BORING	SAMPLE NUMBER	SAMPLE DEPTH (Feet)	SAMPLE ELEVATION (Feet, MSL)	NATURAL MOISTURE CONTENT (%)	DESCRIPTION/ CLASSIFICATION	TEMPERATURE CORRECTED CO-EFFICIENT OF PERMEABILITY (cm/sec)
SB-19L	ST-1/SS-14	26-28	1,051 to 1,049	9.20	Grey clayey sand, some silt, little gravel	9.3×10^{-8}
SB-22L	ST-3/SS-15	30-32	1,046 to 1,044	11.10	Grey silty sandy clay, trace of gravel	5.3×10^{-8}
SB-39	ST-1/SS-16	30-32	1,047 to 1,045	10.08	Grey clayey silt, some fine to coarse sand, trace fine to coarse gravel	2.7×10^{-8}
SB-44	ST-1/SS-9	18-20	1,058 to 1,056	8.83	Grey clayey silt, some fine to coarse sand, little fine gravel	4.4×10^{-8}

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TABLE 4

SOIL SAMPLE ANALYTICAL RESULTS (1st SAMPLING EVENT) (mg/kg)

SAMPLE I.D.	USSA1-SB1-SS6-D207	USSA1-SB2-SS5-D207	USSA1-SB3-SS8-D207
PARAMETERS			
Date Sampled	07/20/92	07/20/92	07/21/92
Sample Depth (feet)	10.0-11.5	8.0-9.7	14.0-15.8
PID Reading (ppm)[a]	11.6	55	108
BTEX (Method 8020)			
Benzene	<0.005	0.070	0.279
Toluene	<0.005	0.020	1.15
Ethylbenzene	<0.005	0.551	0.964
Xylenes	<0.005	2.18	5.20[b]
Total BTEX[c]	ND[d]	2.821	7.593
TPH[e]			
Gasoline-Range Hydrocarbons	<10.0	28.3	6.2
Diesel-Range Hydrocarbons	<10.0	28.0	22.0
VOA (Method 8010/8020)			
Chloroform	NA[f]	NA	NA
1,1-Dichloroethane	NA	NA	NA
1,1,1-Trichloroethane	NA	NA	NA
Trichloroethene	NA	NA	NA
Tetrachloroethene	NA	NA	NA
Toluene	NA	NA	NA
Ethylbenzene	NA	NA	NA
Xylenes	NA	NA	NA

a. Maximum PID reading for the sample utilizing headspace techniques.
b. Estimate.
c. Total BTEX - Sum of all detected BTEX components.
d. ND - Not detected above method detection limits.
e. TPH by method 8015 modified per CA/LUFT.
f. Not analyzed.
< Not detected above method detection limit indicated.

TABLE 4 (cont.)

SOIL SAMPLE ANALYTICAL RESULTS (1st SAMPLING EVENT) (mg/kg)

SAMPLE I.D.	USSA1-SB4-SS2,3-D207	USSA1-SB5-SS4,5-D207	USSA1-SB6-SS3-D207
PARAMETERS			
Date Sampled	07/21/92	07/22/92	07/22/92
Sample Depth (feet)	2.0-4.5	6.0-9.9	4.0-5.7
PID Reading (ppm)[a]	120	260	200
BTEX (Method 8020)			
Benzene	0.250	NA[f]	NA
Toluene	0.147	NA	NA
Ethylbenzene	0.123	NA	NA
Xylenes	0.488	NA	NA
Total BTEX[c]	1.008	--	--
TPH[e]			
Gasoline-Range Hydrocarbons	8.6	338.0[b]	166.0[b]
Diesel-Range Hydrocarbons	12.7	162.0[b]	10.8[b]
VOA (Method 8010/8020)			
Chloroform	NA	<0.008	0.021
1,1-Dichloroethane	NA	0.017	<0.020
1,1,1-Trichloroethane	NA	0.119	<0.020
Trichloroethene	NA	0.309	<0.020
Tetrachloroethene	NA	0.086	<0.020
Toluene	NA	0.372	<0.020
Ethylbenzene	NA	0.265	0.022
Xylenes	NA	3.20	0.209

a. Maximum PID reading for the sample utilizing headspace techniques.
b. Estimate.
c. Total BTEX - Sum of all detected BTEX components.
d. ND - Not detected above method detection limits.
e. TPH by method 8015 modified per CA/LUFT.
f. Not analyzed.
< Not detected above method detection limit indicated.

TABLE 5

SOIL SAMPLE ANALYTICAL RESULTS (2nd SAMPLING EVENT) (mg/kg)

SAMPLE I.D.	USSA2-SB7U-SS2-D207	USSA2-SB7L-SS11-D207	USSA2-SB8U-SS2-D207	USSA2-SB8L-SS9-D207	USSA2-SB9U-SS2-D207	USSA2-SB9L-SS3-D207	USSA2-SB10U-SS1-D207	USSA2-SB10M-SS1-D207	USSA2-SB10L-SS8-D207	USSA2-SB11U-SS2-D207
PARAMETERS										
Date Sampled	3/24/93	3/23/94	4/01/93	3/30/93	3/30/93	3/26/93	4/06/93	4/05/93	4/01/93	3/25/93
Sample Depth (feet)	6.0-9.7	20.0-24.0	10.0-12.8	18.0-22.0	12.0-15.0	4.0-8.5	10.0-13.0	14.0-17.9	14.0-17.7	10.0-13.5
PID Reading (ppm)[a]	12.2	16.5	29	4.5	4.9	64	2.2	7.7	55	32
Metals (EPA7000 Series)										
Antimony	0.028	0.020	0.070	<0.030	<0.030	<0.014	0.063	<0.030	0.036	0.040
Arsenic	0.074	0.101	<0.050	<0.050	<0.050	0.693	<0.050	<0.050	<0.050	0.023
Cadmium	0.099	<0.059	0.558	1.24	0.216	0.218	0.352	0.244	0.325	0.136
Chromium	0.691	0.99	1.13	1.47	1.22	0.989	0.880	0.846	<0.400	1.17
Copper	0.988	1.19	1.13	1.47	1.22	0.989	1.08	1.13	1.18	1.19
Lead	0.047	0.023	1.28	<0.600	<0.600	3.560	8.31	7.24	<0.600	<0.487
Nickel	3.36	4.86	2.61	3.81	3.44	2.470	<0.500	0.846	2.95	3.02
Selenium	0.024	0.013	<0.010	<0.010	<0.010	<0.009	0.086	0.053	<0.010	<0.020
Silver	0.593	0.892	<0.500	0.586	<0.500	<0.494	<0.500	0.658	<0.500	0.584
Thallium	<0.005	0.019	<0.050	<0.050	<0.050	<0.050	0.068	<0.050	<0.050	0.029
Zinc	<0.119	0.922	2.98	0.215	3.319	<0.119	<0.120	0.254	0.266	0.857
Volatile Organics (Method 8240)										
Acrylonitrile	<0.062	<0.062	0.094	0.090	<0.062	<0.062	<0.062	<0.062	0.259	<0.062
Semi Volatile Organics (Method 8270)										
2,6 Dinitrotoluene	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	0.64	0.47	<0.25	<0.25
Di-n-octyl phthalate	16.0	7.46	0.32	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
Phenanthrene	<0.25	<0.25	0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
PCBs (Method 8080)	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2

a. Maximum PID reading for the sample using headspace techniques.

b. PID readings affected by humid conditions.

c. Not analyzed.

TABLE 5 (cont.)

SOIL SAMPLE ANALYTICAL RESULTS (2nd SAMPLING EVENT) (mg/kg)

SAMPLE I.D.	USSA2-SB11L -SS10-D207	USSA2-SB12U -SS1-D207	USSA2-SB12L -SS11-D207	USSA2-SB13 -SS1-D207	USSA2-SB13 -SS3-D207	USSA2-SB14 -SS1-D207	USSA2-SB14 -SS5-D207	USSA2-SB15 SS1-D207	USSA2-SB15 -SS5-D207	USSA2-SB16 -SS1-D207	USSA2-SB16 -SS4-D207
PARAMETERS											
Date Sampled	3/25/93	4/07/93	4/07/93	4/08/93	4/08/93	4/08/93	4/08/93	4/08/93	4/08/93	4/08/93	4/08/93
Sample Depth (feet)	18.0-21.9	6.0-9.1	20.0-24.0	0.0-3.5	4.0-9.2	0.0-3.6	6.0-9.9	0.0-3.7	6.0-9.7	2.0-5.4	6.0-9.7
PID Reading (ppm)[a]	810[b]	12.4	32	24	6.6	60	6.0	27	4.6	86	10.0
Metals (EPA7000 Series)											
Antimony	0.058	0.060	<0.074	0.062	<0.074	<0.015	0.092	<0.015	0.060	0.042	0.101
Arsenic	0.067	0.110	1.170	0.280	0.988	0.068	0.121	0.377	0.103	0.107	<0.050
Cadmium	0.125	0.188	0.067	0.137	0.186	0.306	0.208	0.139	0.194	0.126	0.067
Chromium	1.35	0.888	1.15	1.08	2.49	1.87	2.27	1.49	1.35	0.106	1.15
Copper	1.35	1.09	1.25	1.37	4.99	1.38	4.55	2.29	1.55	1.55	1.24
Lead	0.600	8.98	8.34	7.54	10.30	10.7	1.07	9.95	8.90	8.22	8.49
Nickel	3.34	0.592	1.15	<0.490	4.29	2.07	4.05	2.69	1.94	1.35	0.954
Selenium	0.015	0.168	0.364	0.314	0.086	0.167	0.173	0.100	0.134	0.180	0.155
Silver	0.790	<0.493	0.767	0.783	<0.499	0.887	0.692	0.597	0.968	0.774	0.859
Thallium	0.007	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Zinc	0.459	1.38	0.451	0.284	16.90	5.13	10.4	5.99	3.42	0.696	0.229
Volatile Organics (Method 8240)											
Acrylonitrile	<0.062	<0.062	<0.062	<0.062	NA[c]	<0.062	NA	<0.062	NA	<0.062	NA
Semi Volatile Organics (Method 8270)											
2,6-Dinitrotoluene	<0.25	<0.25	<0.25	<0.25	NA	<0.25	NA	<0.25	NA	<0.25	NA
Di-n-octyl phthalate	<0.25	<0.25	<0.25	<0.25	NA	<0.25	NA	<0.25	NA	<0.25	NA
Phenanthrene	<0.25	<0.25	<0.25	<0.25	NA	<0.25	NA	<0.25	NA	<0.25	NA
PCBs (Method 8080)	<0.2	<0.2	<0.2	<0.2	NA	<0.2	NA	<0.2	NA	<0.2	NA

a. Maximum PID reading for the sample using headspace techniques.

b. PID readings affected by humid conditions.

c. Not analyzed.

TABLE 6

SOIL SAMPLE ANALYTICAL RESULTS (3rd and 4th SAMPLING EVENT) (mg/kg)

SAMPLE I.D.	USSA2-SB17-SS3-D207	USSA2-SB18-SS6-D207	USSA2-SB19U-SS2-D207	USSA2-SB19L-SS5-D207	USSA2-SB20-SS4-D207	USSA2-SB21-SS2-D207	USSA2-SB22U-SS7-D207	USSA2-SB22L-SS3-D207	USSA2-SB23-SS5-D207	USSA2-SB24-SS5-D207
PARAMETERS										
Date Sampled	6/02/93	6/02/93	6/03/93	6/05/93	6/02/93	6/04/93	6/05/93	6/06/93	7/07/93	7/07/93
Sample Depth (feet)	4.0-6.0	14.0-15.8	6.0-8.0	8.0-9.8	8.0-9.7	4.0-5.0	14.0-15.6	6.0-7.9	8.0-9.4	9.0-9.9
PID Readings (ppm)	220	110	6.4	0.4	0.3	179	0.4	350	4.2	2.9
Volatile Organics (Method 8240)										
Benzene	<0.005	0.006	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chloroform	<0.012	0.020	<0.012	<0.012	0.017	<0.012	<0.012	<0.012	<0.012	<0.012
1,1-Dichloroethane	<0.005	0.399[a]	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,1-Dichloroethylene	<0.005	0.019	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,2-Dichloroethylene (trans)	<0.005	0.297[a]	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Ethylbenzene	0.024	0.011	<0.005	<0.005	<0.005	0.006	<0.005	0.30	<0.005	<0.005
Tetrachlorethylene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.073	<0.005	<0.005
Toluene	<0.005	0.107	0.009	<0.005	<0.005	0.289	<0.005	0.82	<0.005	0.010
1,1,1-Trichloroethane	<0.005	0.017	<0.005	<0.005	<0.005	<0.005	<0.005	0.16	<0.005	<0.005
1,1,2-Trichloroethane	0.008	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.021	<0.005	<0.005
Trichloroethylene	<0.005	0.181[a]	0.029	<0.005	<0.005	<0.005	<0.005	0.39	<0.005	<0.005
Xylenes (total)	0.299	0.089	<0.005	<0.005	<0.005	0.051	<0.005	3.11	<0.005	0.006

a. Estimate.

TABLE 6 (cont.)

SOIL SAMPLE ANALYTICAL RESULTS (3rd and 4th SAMPLING EVENT) (mg/kg)

SAMPLE I.D.	USSA2-SB25-SS4-D207	USSA2-SB26-SS3-D207	USSA2-SB27-SS5-D207	USSA2-SB28-SS5-D207	USSA2-SB29U-SS2-D207	USSA2-SB30-SS3-D207	USSA2-SB31-SS3-D207	USSA2-SB32-SS5-D207	USSA2-SB33-SS5-D207	USSA2-SB34-SS10-D207
PARAMETERS										
Date Sampled	7/08/93	7/08/93	7/09/93	7/09/93	7/09/93	7/12/93	7/12/93	7/31/93	7/13/93	7/14/93
Sample Depth (feet)	6.0-7.8	4.0-5.6	8.0-9.4	8.0-8.9	10.0-11.3	4.0-5.8	5.0-6.0	8.0-8.9	8.0-9.5	18.0-20.0
PID Readings (ppm)	330	13.0	0.0	0.1	180	0.2	220	3.6	200	0.2
Volatile Organics (Method 8240)										
Benzene	0.046	<0.005	<0.005	<0.005	<0.005	<0.005	<0.069	<0.005	<0.057	<0.005
Chloroform	<0.012	<0.012	<0.012	<0.012	<0.012	<0.012	<0.165	<0.012	<0.057	<0.012
1,1-Dichloroethane	<0.050	<0.005	<0.005	<0.005	0.089	<0.005	<0.069	<0.005	0.121	<0.005
1,1-Dichloroethylene	<0.050	<0.005	<0.005	<0.005	0.008	<0.005	<0.069	<0.005	<0.057	<0.005
1,2-Dichloroethylene (trans)	<0.050	<0.005	<0.005	<0.005	0.029	<0.005	<0.069	<0.005	<0.057	<0.005
Ethylbenzene	1.02	<0.005	<0.005	<0.005	0.065	<0.005	0.193	<0.005	0.662	<0.005
Tetrachlorethylene	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	0.006	<0.005	0.644	<0.005
Toluene	0.443	<0.005	<0.005	<0.005	0.107	<0.005	0.526	<0.005	4.61	0.006
1,1,1-Trichloroethane	<0.050	<0.005	<0.005	<0.005	0.014	<0.005	0.125	<0.005	0.220	<0.005
1,1,2-Trichloroethane	<0.050	<0.005	<0.005	<0.005	0.012	<0.005	<0.069	<0.005	<0.057	<0.005
Trichloroethylene	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	0.434	<0.005	1.22	<0.005
Xylenes (total)	5.32	<0.005	<0.005	<0.005	<0.005	<0.005	2.14	0.005	5.89	<0.005

a. Estimate.

TABLE 6 (cont.)

SOIL SAMPLE ANALYTICAL RESULTS (3rd and 4th SAMPLING EVENT) (mg/kg)

SAMPLE I.D.	USSA2-SB35-SS8-D207	USSA2-SB36-SS5-D207
PARAMETERS		
Date Sampled	7/15/93	7/15/93
Sample Depth (feet)	14.0-14.9	8.0-9.6
PID Reading (ppm)	0.3	0.2
Volatile Organics (Method 8240)		
Benzene	<0.005	<0.005
Cholorform	<0.012	<0.012
1,1-Dichloroethane	<0.005	<0.005
1,1-Dichloroethylene	<0.005	<0.005
1,2-Dichloroethylene (trans)	<0.005	<0.005
Ethylbenzene	<0.005	<0.005
Tetrachlorethylene	<0.005	<0.005
Toluene	<0.005	<0.005
1,1,1-Trichloroethane	<0.005	<0.005
1,1,2-Trichloroethane	<0.005	<0.005
Trichloroethylene	<0.005	<0.005
Xylenes (total)	<0.005	<0.005

a. Estimate.

TABLE 7

GROUND WATER SAMPLE ANALYTICAL RESULTS (1st SAMPLING EVENT) (μg/l)

SAMPLE I.D.	USSA1-MW1-001-D246	USSA1-MW1A[a]-001-D246	USSA1-MW2-001-D246	USSA1-MW3-001-D246	FB1-072892[b]-D246	USSA1-MW4-001-D207	USSA1-MW5-001-D207	USSA1-TB1-072892[c]
PARAMETERS								
Date Sampled	7/28/92	7/28/92	7/28/92	7/28/92	7/28/92	7/28/92	7/28/92	7/28/92
VOA (Method 601/602)								
1,1-Dichlorethane	<2	<2	<2	<2	<2	682.0	<10	<2
cis-1,2-Dichloroethene	<2	<2	<2	<2	<2	32900.0	34.4	<2
1,1,1-Trichloroethane	<2	<2	<2	<2	<2	1000.0	<10	<2
Trichloroethene	<2	<2	<2	<2	<2	760.0	<10	<2
Benzene	<2	<2	<2	<2	<2	<200.0	31.5	<2
Toluene	<2	<2	<2	<2	<2	2840.0	<10	2.5
Ethylbenzene	<2	<2	<2	<2	<2	373.0	23.0	<2
Xylenes	<2	<2	2.2	<2	<2	5100.0	346.0	<2
TPH[d]								
Naptha Range Hydrocarbons (mg/l)	NA	NA	NA	NA	NA	30.9[e]	<10.0	NA
Metals								
Dissolved Lead (mg/l)	0.002	<0.002	0.002	<0.002	<0.002	NA	NA	NA

a. Duplicate sample.
b. Field blank.
c. Trip blank.
d. By Method 8015 modified per CA/LUFT utilizing a sample of a naptha as a standard.
e. There was not a good chromatographic match between the naptha standard and the hydrocarbons in the sample. Some peaks included in the quantitation may also be gasoline constituents.

ND Not detecte above method dection limits.
NA Not analyzed
< Not detected above the method dectection limit specified.

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TABLE 8

GROUND WATER SAMPLE ANALYTICAL RESULTS
(2nd, 3rd, and 4th SAMPLING EVENT) (μg/l)

SAMPLE I.D.	USSA2-MW6U-001-D153	USSA2-MW6U-001A[a]-D153	USSA2-MW6L-001-D153	USSA2-MW7U-001-D153	USSA2-MW7L-001-D153	USSA2-MW8U-001-D153	USSA-MW8L-001-D153
PARAMETERS							
Date Sampled	4/14/93	4/14/93	4/14/93	4/14/93	4/14/93	4/14/93	4/14/93
Volatiles (Method 8240)							
Acrolein	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
Benzene	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Carbon Tetrachloride	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Cloroethane	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
1,1-Dichloroethane	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloroethane	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethylene	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloroethylene (trans)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Ethylbenzene	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
[illegible]chloroethylene	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Toluene	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,1-Trichloroethane	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2-Trichloroethane	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Trichloroethylene	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Vinyl Chloride	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Xylenes (total)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
PCBs (Method 8080)	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
Metals (total) mg/l							
Arsenic	0.014	0.012	<0.010	0.016	<0.010	<0.010	<0.010
Cadmium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chromium	0.013	0.012	<0.007	0.012	<0.007	<0.007	<0.007
Copper	0.018	0.015	<0.008	0.017	<0.008	<0.008	<0.008
Lead	0.013	0.014	<0.002	0.008	<0.002	<0.002	0.002
Nickel	0.028	0.025	0.017	0.028	0.012	0.015	0.013
Selenium	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Silver	<0.008	<0.008	<0.008	<0.008	0.008	<0.008	<0.008
Zinc	0.047	0.043	0.020	0.048	0.012	0.051	0.014

a. Duplicate sample.
b. Not analyzed.
c. Field blank.
d. Trip blank.
e. Estimate.
< Not detected above the method detection limit indicated.

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TABLE 8 (cont.)

GROUND WATER SAMPLE ANALYTICAL RESULTS
(2nd, 3rd, and 4th SAMPLING EVENT) (μg/l)

SAMPLE I.D.	USSA2-MW9U-001-D153	USSA2-MW9M-001-D153	USSA2-MW9L-001-D153	USSA2-MW10U-001-D153	USSA2-MW11U-001-D153	USSA2-FB1-041493[c]-D153	USSA2-TB1-001[d]-D153	USSA2-TB2-001-D153
PARAMETERS								
Date Sampled	4/14/93	4/14/93	4/14/93	4/14/93	4/14/93	4/14/93	4/14/93	4/14/93
Volatiles (Method 8240)								
Acrolein	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
Benzene	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Carbon Tetrachloride	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Cloroethane	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
1,1-Dichloroethane	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloroethane	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethylene	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloroethylene (trans)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Ethylbenzene	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Tetrachloroethylene	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Toluene	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,1-Trichloroethane	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2-Trichloroethane	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Trichloroethylene	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Vinyl Chloride	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Xylenes (total)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
PCBs (Method 8080)	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	NA[b]	NA
Metals (total) mg/l								
Arsenic	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	NA	NA
Cadmium	0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	NA
Chromium	<0.007	0.010	0.012	0.020	0.017	0.007	NA	NA
Copper	<0.008	<0.008	<0.008	0.018	<0.008	<0.008	NA	NA
Lead	<0.002	<0.002	0.004	0.012	<0.002	<0.002	NA	NA
Nickel	0.013	0.010	0.013	0.032	0.015	0.012	NA	NA
Selenium	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	NA	NA
Silver	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	NA	NA
Zinc	0.013	0.007	0.015	0.042	0.029	0.018	NA	NA

a. Duplicate sample.
b. Not analyzed.
c. Field blank.
d. Trip blank.
e. Estimate.
f. Not detected above the method detection limit indicated.

TABLE 8 (cont.)

GROUND WATER SAMPLE ANALYTICAL RESULTS (2nd, 3rd, and 4th SAMPLING EVENT) (μg/l)

SAMPLE I.D.	USSA2-TB3-001-D153	USSA2-TB4-001-D153	USSA2-MW4-002-D207	USSA2-MW4-002A*-D207	USSA2-MW4L-001-D207	USSA2-MW5-002-D207	USSA2-MW12-001-D207	USSA2-MW13-001-D207
PARAMETERS								
Date Sampled	4/14/93	4/14/93	6/09/93	6/09/93	6/09/93	6/09/93	6/09/93	6/09/93
Volatiles (Method 8240)								
Acrolein	<50.0	<50.0	<1000.0	<1000.0	<50.0	<50.0	<50.0	<50.0
Benzene	<5.0	<5.0	<100.0	<100.0	<5.0	<5.0	<5.0	<5.0
Carbon Tetrachloride	<5.0	<5.0	<100.0	<100.0	<5.0	<5.0	<5.0	<5.0
Clorocthane	<10.0	<10.0	<200.0	<200.0	<10.0	<10.0	<10.0	<10.0
1,1-Dichloroethane	<5.0	<5.0	678.0	721.0	<5.0	<5.0	<5.0	393.0
1,2-Dichloroethane	<5.0	<5.0	<100.0	<100.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethylene	<5.0	<5.0	<100.0	<100.0	<5.0	<5.0	<5.0	27.2
1,2-Dichloroethylene (trans)	<5.0	<5.0	236.0	251.0	<5.0	<5.0	<5.0	180.0
Ethylbenzene	<5.0	<5.0	356.0	414.0	<5.0	<5.0	9.1	9.1
[illegible]achloroethylene	<5.0	<5.0	<100.0	<100.0	<5.0	<5.0	<5.0	<5.0
Toluene	<5.0	<5.0	3153.0	3406.0	<5.0	<5.0	<5.0	<5.0
1,1,1-Trichloroethane	<5.0	<5.0	1368.0	1351.0	<5.0	<5.0	<5.0	<5.0
1,1,2-Trichloroethane	<5.0	<5.0	<100.0	<100.0	<5.0	<5.0	<5.0	<5.0
Trichloroethylene	<5.0	<5.0	509.0	570.0	<5.0	<5.0	<5.0	16.4
Vinyl Chloride	<10.0	<10.0	<200.0	<200.0	<10.0	<10.0	<10.0	115.0
Xylenes (total)	<5.0	<5.0	4471.0	4876.0	<5.0	<5.0	<5.0	<5.0
PCBs (Method 8080)	NA	NA	NA	NA	NA	NA	NA	NA
Metals (total) mg/l								
Arsenic	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	NA	NA	NA	NA	NA	NA	NA	NA
Copper	NA	NA	NA	NA	NA	NA	NA	NA
Lead	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	NA	NA	NA	NA	NA	NA	NA	NA
Silver	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	NA	NA	NA	NA	NA	NA	NA	NA

a. Duplicate sample.
b. Not analyzed.
c. Field blank.
d. Trip blank.
e. Estimate.
< Not detected above the method detection limit indicated.

PHASE II INVESTIGATION WORK PLAN
VOLUNTARY REMEDIATION PROGRAM
FORMER WAYNE CORPORATION FACILITY

TABLE 8 (cont.)

GROUND WATER SAMPLE ANALYTICAL RESULTS
(2nd, 3rd, and 4th SAMPLING EVENT) (μg/l)

SAMPLE I.D.	USSA2-MW14-001-D207	USSA2-MW15-001-D207	USSA2-MW15L-001-D207	USSA2-MW16U-001-D207	USSA2-MW17U-001-D207	USSA2-MW18U-001-D207	USSA2-MW19-001-D207	USSA2-MW20-001-D207
PARAMETERS								
Date Sampled	6/09/93	6/09/93	7/21/93	7/21/93	7/21/93	7/21/93	7/21/93	7/21/93
Volatiles (Method 8240)								
Acrolein	<50.0	<50.0	<50.0	<50.0	<250.0	67.9	<5000.0	<50.0
Benzene	<5.0	<5.0	<5.0	29.6	200.0	30.7	<500.0	<5.0
Carbon Tetrachloride	<5.0	<5.0	<5.0	<5.0	<25.0	139.0[a]	<500.0	<5.0
Cloroethane	<10.0	<10.0	<10.0	<10.0	<50.0	<10.0	<1000.0	<10.0
1,1-Dichloroethane	<5.0	<5.0	<5.0	<5.0	<25.0	3466.0	<500.0	<5.0
1,2-Dichloroethane	<5.0	<5.0	<5.0	<5.0	<25.0	12.8	<500.0	<5.0
1,1-Dichloroethylene	<5.0	<5.0	<5.0	<5.0	<25.0	409.0[a]	<500.0	<5.0
1,2-Dichloroethylene (trans)	<5.0	<5.0	<5.0	83.6	<25.0	1314.0	<500.0	<5.0
Ethylbenzene	<5.0	<5.0	<5.0	<5.0	340.0	219.0	<500.0	<5.0
Tetrachloroethylene	<5.0	<5.0	<5.0	<5.0	<25.0	<5.0	<500.0	<5.0
Toluene	<5.0	<5.0	<5.0	<5.0	705.0	3630.0	2935.0	<5.0
1,1-Trichloroethane	<5.0	<5.0	<5.0	<5.0	<25.0	1140.0	1516.0	<5.0
1,1,2-Trichloroethane	<5.0	<5.0	<5.0	<5.0	<25.0	16.4	<500.0	<5.0
Trichloroethylene	<5.0	<5.0	<5.0	<5.0	<25.0	52.4	3413.0	<5.0
Vinyl Chloride	<10.0	<10.0	<10.0	<10.0	<50.0	<10.0	<1000.0	<10.0
Xylenes (total)	<5.0	<5.0	<5.0	124.0	8690.0	1910.0	4020.0	<5.0
PCBs (Method 8080)	NA	NA	NA	NA	NA	NA	NA	NA
Metals (total) mg/l								
Arsenic	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	NA	NA	NA	NA	NA	NA	NA	NA
Copper	NA	NA	NA	NA	NA	NA	NA	NA
Lead	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	NA	NA	NA	NA	NA	NA	NA	NA
Silver	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	NA	NA	NA	NA	NA	NA	NA	NA

a. Duplicate sample.
b. Not analyzed.
c. Field blank.
d. Trip blank.
e. Estimate.
Not detected above the method detection limit indicated.

PHASE II INVESTIGATION WORK PLAN
VOLUNTARY REMEDIATION PROGRAM
FORMER WAYNE CORPORATION FACILITY

TABLE 8 (cont.)

GROUND WATER SAMPLE ANALYTICAL RESULTS
(2nd, 3rd, and 4th SAMPLING EVENT) (μg/l)

SAMPLE I.D.	USSA2-MW21-001-D207	USSA2-MW22-001-D207	USSA2-MW22-001A-D207	USSA2-MW23-001-D207	USSA2-MW24-001-D207
PARAMETERS					
Date Sampled	7/21/93	7/21/93	7/21/93	7/21/93	7/21/93
Volatiles (Method 8240)					
Acrolein	<50.0	<50.0	<50.0	<50.0	<50.0
Benzene	<5.0	<5.0	<5.0	11.4	<5.0
Carbon Tetrachloride	<5.0	<5.0	<5.0	13.9	<5.0
Cloroethane	<10.0	<10.0	<10.0	15.0	<10.0
1,1-Dichloroethane	54.2	5.8	5.8	339.0	<5.0
1,2-Dichloroethane	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethylene	<5.0	<5.0	<5.0	26.4	<5.0
1,2-Dichloroethylene (trans)	26.1	<5.0	<5.0	128.0	<5.0
Ethylbenzene	<5.0	8.1	6.8	117.0	<5.0
Tetrachloroethylene	<5.0	<5.0	<5.0	13.3	<5.0
Toluene	<5.0	<5.0	<5.0	661.0	<5.0
1,1,1-Trichloroethane	<5.0	<5.0	<5.0	50.4	<5.0
1,1,2-Trichloroethane	<5.0	<5.0	<5.0	<5.0	<5.0
Trichloroethylene	<5.0	<5.0	<5.0	156.0[e]	<5.0
Vinyl Chloride	43.0	<10.0	<10.0	2300.0[e]	<10.0
Xylenes (total)	<5.0	124.0	116.0	655.0[e]	<5.0
PCBs (Method 8080)	NA	NA	NA	NA	NA
Metals (total) mg/l					
Arsenic	NA	NA	NA	NA	NA
Cadmium	NA	NA	NA	NA	NA
Chromium	NA	NA	NA	NA	NA
Copper	NA	NA	NA	NA	NA
Lead	NA	NA	NA	NA	NA
Nickel	NA	NA	NA	NA	NA
Selenium	NA	NA	NA	NA	NA
Silver	NA	NA	NA	NA	NA
Zinc	NA	NA	NA	NA	NA

a. Duplicate sample.
b. Not analyzed.
c. Field blank.
d. Trip blank.
e. Estimate.
< Not detected above the method detection limit indicated.

PHASE II INVESTIGATION WORK PLAN
VOLUNTARY REMEDIATION PROGRAM
FORMER WAYNE CORPORATION FACILITY

TABLE 9

SEDIMENT SAMPLE ANALYTICAL RESULTS (mg/kg)
NEAR OUTFALLS

SAMPLE I.D.	USSA1-SS1-001 -D171	USSA1-SS2-001 -D171	USSA1-SS3-001 -D171
PARAMETERS			
Date Sampled	07/20/92	07/20/92	07/20/92
VOA (Method 8010/8020)			
Ethylbenzene	0.008	<0.005	<0.005
Xylenes	0.021	<0.005	<0.005
Carbon Tetrachloride	<0.005	<0.005	0.005
Total Metals			
Arsenic	0.076	0.017	0.218
Barium	40.1	26.0	<11.2
Cadmium	0.232	0.472	4.74
Chromium	3.37	4.84	5.38
Lead	<0.632	11.9	71.7
Mercury	<0.055	0.370	<0.010
Selenium	0.026	0.030	<0.012
Silver	0.527	0.590	<0.561

< Not detected above method detection limit indicated.

TABLE 10

PHASE II INVESTIGATION SOIL SAMPLE ANALYTICAL RESULTS (6TH SAMPLING EVENT)

SAMPLE I.D.	USSA3-SB37-SS4-D207	USSA3-SB37-SS5-D207	USSA3-SB38-SS6-D207	USSA3-SB39-SS10-D207	USSA3-SB39-SS12-D207	USSA3-SB40-SS1-D207	USSA3-SB41-SS5-D207	USSA3-SB41L-SS13-D207
PARAMETERS								
Date Sampled:	12/19/95	12/19/95	12/12/95	12/13/95	12/13/95	12/12/95	12/13/95	12/14/95
VOLATILES (Method 8020A) mg/kg								
Benzene	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	NA	NA	NA	NA	NA	NA	NA	NA
Xylenes	NA	NA	NA	NA	NA	NA	NA	NA
VOLATILES (Method 8240) mg/kg								
Chlorobenzene	0.006	NA	<0.005	<0.005	NA	<0.005	<0.005	NA
Chloroform	0.014	NA	<0.012	<0.012	NA	<0.012	<0.012	NA
METALS (mg/kg)								
Arsenic	2.82	NA	6.02	4.60	NA	4.48	16.2	NA
Barium	8.72	NA	12.5	18.2	NA	53.9	177	NA
Cadmium	<0.033	NA	<0.033	0.056	NA	<0.032	0.461	NA
Chromium	3.87	NA	3.88	4.31	NA	4.22	11.3	NA
Lead	2.40	NA	2.35	3.14	NA	12.8	13.8	NA
Mercury	<0.10	NA	<0.10	0.13	NA	<0.10	0.18	NA
Silver	0.818	NA	0.575	0.883	NA	1.43	0.400	NA
TPH (Method 8015)								
Gas Range	NA	NA	NA	NA	NA	NA	NA	NA
Diesel Range	NA	NA	NA	NA	NA	NA	NA	NA
TOTAL ORGANIC CARBON (Method 9060) mg/kg	NA	10300	NA	NA	4500	NA	NA	12700

a. NA - Not analyzed.
b. < - not detected above the method detection limit indicated.

TABLE 10 (cont.)

PHASE II INVESTIGATION SUB SURFACE SOIL SAMPLE ANALYTICAL RESULTS (6TH SAMPLING EVENT)

SAMPLE I.D.	USSA3-SB42-SS3-D207	USSA3-SB42-SS6-D207	USSA3-SB43-SS5-D207	USSA3-SB44-SS5-D207	USSA3-SB45-SS1-D207	USSA3-SB46-SS7-D207	USSA3-SB46L-SS13-D207	USSA3-SB46L-SS23-D207
PARAMETERS								
Date Sampled:	12/18/95	12/18/95	1/09/96	1/10/96	1/09/96	12/15/95	12/15/95	12/16/95
VOLATILES (Method 8020A) mg/kg								
Benzene	NA	NA	<0.005	1.29	0.520	NA	NA	NA
Toluene	NA	NA	<0.005	3.45	2.59	NA	NA	NA
Ethylbenzene	NA	NA	<0.005	2.24	2.20	NA	NA	NA
Xylenes	NA	NA	<0.005	17.0	9.74	NA	NA	NA
VOLATILES (Method 8240) mg/kg								
Chlorobenzene	<0.005	NA	NA	NA	NA	<0.005	NA	NA
Chloroform	0.017	NA	NA	NA	NA	<0.012	NA	
METALS (mg/kg)								
Arsenic	7.52	NA	NA	NA	NA	3.15	NA	NA
Barium	21.9	NA	NA	NA	NA	24.0	NA	NA
Cadmium	<0.036	NA	NA	NA	NA	0.045	NA	NA
Chromium	6.02	NA	NA	NA	NA	3.52	NA	NA
Lead	4.05	NA	NA	NA	NA	2.29	NA	NA
Mercury	<0.10	NA	NA	NA	NA	<0.10	NA	NA
Silver	1.26	NA	NA	NA	NA	0.839	NA	NA
TPH (Method 8015)								
Gas Range	NA	NA	<5.5	473	484	NA	NA	NA
Diesel Range	NA	NA	<11.0	<12.2	<11.3	NA	NA	NA
TOTAL ORGANIC CARBON (Method 9060) mg/kg	NA	12300	NA	NA	NA	NA	11400	18900

a. NA - Not analyzed.
b. < - not detected above the method detection limit indicated.

TABLE 11

PHASE II INVESTIGATION GROUND-WATER SAMPLE ANALYTICAL RESULTS (5TH SAMPLING EVENT)

SAMPLE I.D.	USSA3-MW1-002-D153	USSA3-MW2-002-D153	USSA3-MW3-002-D153	USSA3-MW3-002A[d]-D153	USSA3-MW4-003-D153	USSA3-MW4L-002-D153	USSA3-MW5-003-D153	USSA3-MW5-003A[d]-D153
PARAMETERS								
Date Sampled	11/29/95	11/29/95	11/29/95	11/29/95	11/28/95	11/30/95	11/28/95	11/28/95
VOA (Method 601/602) μg/ℓ								
Benzene	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	44.8	42.6
1,1-Dichlorethane	<2.0	<2.0	<2.0	<2.0	7750[a]	<2.0	<2.0	<2.0
1,1-Dichlorethylene	<2.0	<2.0	<2.0	<2.0	<1000	<2.0	<2.0	<2.0
1,2-Dichloroethylene (trans)	<2.0	<2.0	<2.0	<2.0	2855[a]	<2.0	<2.0	<2.0
Cis-1,2-Dichloroethene	<2.0	<2.0	<2.0	<2.0	26875[a]	<2.0	19.7	21.7
Ethylbenzene	<2.0	<2.0	<2.0	<2.0	<1000	<2.0	14.5	16.7
Toluene	<2.0	<2.0	<2.0	<2.0	5650	<2.0	<2.0	<2.0
1,1,1-Trichloroethane	<2.0	<2.0	<2.0	<2.0	1690[a]	<2.0	<2.0	<2.0
Trichloroethylene	<2.0	<2.0	<2.0	<2.0	<1000	<2.0	<2.0	<2.0
Vinyl Chloride	<2.0	<2.0	<2.0	<2.0	339[c]	<2.0	<2.0	<2.0
Xylenes	<2.0	<2.0	<2.0	<2.0	2325	<2.0	72.5	68.1
METALS mg/ℓ								
Arsenic	NA	NA	NA	NA	0.067	NA	0.018	0.021
Barium	NA	NA	NA	NA	0.520	NA	0.360	0.380
Cadmium	NA	NA	NA	NA	<0.001	NA	0.001	0.002
Chromium	NA	NA	NA	NA	0.026	NA	0.018	0.019
Lead	NA	NA	NA	NA	0.049	NA	0.018	0.019
Mercury	NA	NA	NA	NA	<0.0020	NA	<0.0020	<0.0020
Silver	NA	NA	NA	NA	0.005	NA	<0.005	<0.005

a. Estimate.
b. Confirmed and quantitated by GC/MS.
c. Confirmed and quantitated by 624 analysis.
d. Duplicate sample.
e. NA - Not analyzed.
f. < - Not detected above the method detection limit indicated.

HULL & ASSOCIATES, INC.
DUBLIN, OHIO

TABLE 11 (cont.)

PHASE II INVESTIGATION GROUND-WATER SAMPLE ANALYTICAL RESULTS (5TH SAMPLING EVENT)

SAMPLE I.D.	USSA3-MW6L-002-D153	USSA3-MW6U-002-D153	USSA3-MW7L-002-D153	USSA3-MW7U-002-D153	USSA3-MW8L-002-D153	USSA3-MW8U-002-D153	USSA3-MW9L-002-D153	USSA3-MW9M-002-D153
PARAMETERS								
Date Sampled:	11/30/95	11/30/95	11/29/95	11/29/95	11/29/95	11/29/95	11/29/95	11/29/95
VOA (Method 601/602) μg/l								
Benzene	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,1-Dichloroethane	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,1-Dichloroethylene	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,2-Dichloroethylene (trans)	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Cis-1,2-Dichloroethene	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Ethylbenzene	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Toluene	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,1,1-Trichloroethane	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Trichloroethylene	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Vinyl Chloride	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Xylenes	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
METALS mg/l								
Arsenic	NA	NA	NA	NA	NA	NA	NA	NA
Barium	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	NA	NA	NA	NA	NA	NA	NA	NA
Lead	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	NA	NA	NA	NA	NA	NA	NA	NA
Silver	NA	NA	NA	NA	NA	NA	NA	NA

a. Estimate.
b. Confirmed and quantitated by GC/MS.
c. Confirmed and quantitated by 624 analysis.
d. Duplicate sample.
e. NA - Not analyzed.
f. < - Not detected above the method detection limit indicated.

TABLE 11 (cont.)

PHASE II INVESTIGATION GROUND-WATER SAMPLE ANALYTICAL RESULTS (5TH SAMPLING EVENT)

SAMPLE I.D.	USSA3-MW9U-002-D153	USSA3-MW10U-002-D153	USSA3-MW10U-002A[d]-D153	USSA3-MW11U-002-D153	USSA3-MW11U-002A[d]-D153	USSA3-MW12-002-D153	USSA3-MW13-002-D153	USSA3-MW14-002-D153
PARAMETERS								
Date Sampled:	11/29/95	11/29/95	11/29/95	11/30/95	11/30/95	11/28/95	11/28/95	11/28/95
VOA (Method 601/602) μg/ℓ								
Benzene	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	<2.0
1,1-Dichloroethane	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	914	<2.0
1,1-Dichloroethylene	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	85.2	<2.0
1,2-Dichloroethylene (trans)	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	376	<2.0
Cis-1,2-Dichloroethene	<2.0	<2.0	<2.0	<2.0	<2.0	7.6	10840	<2.0
Ethylbenzene	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<40	<2.0
Toluene	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	78.2	<2.0
1,1,1-Trichloroethane	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<40	<2.0
Trichloroethylene	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<40	<2.0
Vinyl Chloride	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	1684	<2.0
Xylenes	<2.0	<2.0	<2.0	<2.0	<2.0	3.8	<40	<2.0
METALS mg/l								
Arsenic	NA	NA	NA	NA	NA	NA	0.079	0.059
Barium	NA	NA	NA	NA	NA	NA	0.680	0.490
Cadmium	NA	NA	NA	NA	NA	NA	0.003	0.002
Chromium	NA	NA	NA	NA	NA	NA	0.042	0.029
Lead	NA	NA	NA	NA	NA	NA	0.035	0.046
Mercury	NA	NA	NA	NA	NA	NA	<0.0020	<0.0020
Silver	NA	NA	NA	NA	NA	NA	0.009	0.006

a. Estimate.
b. Confirmed and quantitated by GC/MS.
c. Confirmed and quantitated by 624 analysis.
d. Duplicate sample.
e. NA - Not analyzed.
f. < - Not detected above the method detection limit indicated.

TABLE 11 (cont.)

PHASE II INVESTIGATION GROUND-WATER SAMPLE ANALYTICAL RESULTS (5TH SAMPLING EVENT)

SAMPLE I.D.	USSA3-MW15-002-D153	USSA3-MW15L-002-D153	USSA3-MW16U-002-D153	USSA3-MW17U-002-D153	USSA3-MW18-002-D153	USSA3-MW19-002-D153	USSA3-MW20-002-D153	USSA3-MW21-002-D153
PARAMETERS								
Date Sampled:	11/28/95	11/29/95	11/29/95	11/30/95	11/28/95	11/30/95	11/28/95	11/28/95
VOA (Method 601/602) µg/l								
Benzene	<2.0	<2.0	30.8	<20	<2.0	<100	<2.0	<2.0
1,1-Dichloroethane	<2.0	<2.0	2.1	<20	3964	325	<2.0	55.6[a]
1,1-Dichloroethylene	<2.0	<2.0	<2.0	<20	231[a]	<100	<2.0	6.9[a]
1,2-Dichlorothylene(trans)	<2.0	<2.0	50.2[a]	<20	1532[a]	237	<2.0	36.1[a]
Cis-1,2-Dichloroethene	6.7	<2.0	586	<20	55400[a]	9665	<2.0	1182[a]
Ethylbenzene	<2.0	<2.0	3.4	<20	<200	<100	<2.0	<2.0
Toluene	<2.0	<2.0	2.1	<20	2880	<100	<2.0	<2.0
1,1,1-Trichloroethane	<2.0	<2.0	<2.0	<20	1487[a]	870	<2.0	<2.0
Trichloroethylene	<2.0	<2.0	2.5	<20	<200	264	<2.0	3.2[a]
Vinyl Chloride	<2.0	<2.0	33.6[b]	<20	2699[c]	<100	<2.0	94.0[c]
Xylenes	<2.0	<2.0	188	148	1020	<100	<2.0	<2.0
METALS mg/l								
Arsenic	0.038	NA	NA	NA	0.683	NA	NA	0.062
Barium	0.740	NA	NA	NA	2.65	NA	NA	0.920
Cadmium	0.004	NA	NA	NA	0.002	NA	NA	0.001
Chromium	0.021	NA	NA	NA	0.188	NA	NA	0.051
Lead	0.018	NA	NA	NA	0.940	NA	NA	0.081
Mercury	<0.0020	NA	NA	NA	0.0033	NA	NA	<0.0020
Silver	<0.005	NA	NA	NA	0.038	NA	NA	0.011

a. Estimate.
b. Confirmed and quantitated by GC/MS.
c. Confirmed and quantitated by 624 analysis.
d. Duplicate sample.
e. NA - Not analyzed.
f. < - Not detected above the method detection limit indicated.

TABLE 11 (cont.)

PHASE II INVESTIGATION GROUND-WATER SAMPLE ANALYTICAL RESULTS (5TH SAMPLING EVENT)

SAMPLE I.D.	USSA3-MW22-002-D153	USSA3-MW23-002-D153	USSA3-MW24-002-D153
PARAMETERS			
Date Sampled:	11/28/95	11/29/95	11/29/95
VOA (Method 601/602) μg/ℓ			
Benzene	<10	6.5	<2.0
1,1-Dichloroethane	<10	571	<2.0
1,1-Dichloroethylene	<10	<2.0	<2.0
1,2-Dichloroethylene(trans)	<10	64.0[a]	<2.0
Cis-1,2-Dichloroethene	<10	2920	<2.0
Ethylbenzene	<10	184[a]	<2.0
Toluene	<10	297	<2.0
1,1,1-Trichloroethane	<10	34.4	<2.0
Trichloroethylene	<10	2.7	<2.0
Vinyl Chloride	<10	4461[b]	<2.0
Xylenes	<10	691	<2.0
METALS mg/l			
Arsenic	NA	NA	NA
Barium	NA	NA	NA
Cadmium	NA	NA	NA
Chromium	NA	NA	NA
Lead	NA	NA	NA
Mercury	NA	NA	NA
Silver	NA	NA	NA

a. Estimate.
b. Confirmed and quantitated by GC/MS.
c. Confirmed and quantitated by 624 analysis.
d. Duplicate sample.
e. NA - Not analyzed.
f. < - Not detected above the method detection limit indicated.

TABLE 12

PHASE II INVESTIGATION GROUND-WATER SAMPLE ANALYTICAL RESULTS (6TH SAMPLING EVENT)

SAMPLE I.D.	USSA3 - MW16U-003-D288	USSA3-MW21L-001-D288	USSA3-MW25-001-D288	USSA3-MW28-001-D288	USSA3-MW29L-001-D288	USSA3-MW29L-001A[a]-D288	USSA3-MW29U-001-D288	USSA3-MW30-001-D288
PARAMETERS								
Date Sampled:	1/16/96	1/16/96	1/16/96	1/16/96	1/16/96	1/16/96	1/16/96	1/16/96
VOA (Method 601/602) μg/ℓ								
Chloroform	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Chloroethane	<10.0	<4.0	<4.0	<10.0	<4.0	<4.0	<4.0	<4.0
1,1-Dichlororethane	2.1	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,2-Dichloroethylene (trans)	38.9	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Cis-1,2-Dichloroethene	1031	<2.0	<2.0	8.3	<2.0	<2.0	<2.0	<2.0
1,2-Dichloroethane	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Trichloroethene	2.2	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Vinyl Chloride	36.4[b]	<2.0	<2.0	13.8[b]	<2.0	<2.0	<2.0	<2.0
Benzene	29.1	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Toluene	2.3	<2.0	<2.0	2.4	<2.0	<2.0	<2.0	<2.0
Ethylbenzene	4.3	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Xylenes	202	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
METALS mg/ℓ								
Arsenic	NA	NA	NA	NA	0.011	0.014	<0.005	NA
Barium	NA	NA	NA	NA	0.335	0.390	0.480	NA
Cadmium	NA	NA	NA	NA	<0.001	<0.001	<0.001	NA
Chromium	NA	NA	NA	NA	0.018	0.020	0.026	NA
Lead	NA	NA	NA	NA	0.011	0.009	0.004	NA

a. Duplicate sample.
b. Confirmed and quantitated by GC/MS.
c. Confirmed and quantitated by 624 GC/MS.
d. Estimate.
e. NA - Not analyzed.

TABLE 12 (cont.)

PHASE II INVESTIGATION GROUND-WATER SAMPLE ANALYTICAL RESULTS (6TH SAMPLING EVENT)

SAMPLE I.D.	USSA3-MW31-001-D288	USSA3-MW32-001-D288	USSA3-MW33-001-D288	USSA3-MW34L-001-D288	USSA3-MW34U-001-D288	USSA3-SB34L-001-D207	USSA3-SB34L-001A[a]-D207	USSA3-SB37-001-D207
PARAMETERS								
Date Sampled:	1/16/96	1/16/96	1/16/96	1/16/96	1/16/96	1/04/96	1/04/96	12/19/95
VOA (Method 601/602) μg/ℓ								
Chloroform	<2.0	<2.0	<2.0	<2.0	<2.0	11.7	12.4	<2.0
Chloroethane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
1,1-Dichlororethane	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,2-Dichloroethylene (trans)	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Cis-1,2-Dichloroethene	<2.0	<2.0	<2.0	<2.0	<2.0	5.4	5.8	<2.0
1,2-Dichloroethane	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Trichloroethene	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Vinyl Chloride	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Benzene	<2.0	287	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Toluene	<2.0	10.1	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Ethylbenzene	<2.0	27.2	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Xylenes	<2.0	99.1	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
METALS mg/ℓ								
Arsenic	NA	NA	NA	NA	NA	NA	NA	NA
Barium	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	NA	NA	NA	NA	NA	NA	NA	NA
Lead	NA	NA	NA	NA	NA	NA	NA	NA

a. Duplicate sample.
b. Confirmed and quantitated by GC/MS.
c. Confirmed and quantitated by 624 GC/MS.
d. Estimate.
e. NA - Not analyzed.

TABLE 12 (cont.)

PHASE II INVESTIGATION GROUND-WATER SAMPLE ANALYTICAL RESULTS (6TH SAMPLING EVENT)

SAMPLE I.D.	USSA3-SB38-001-D207	USSA3-SB38-001A-D207	USSA3-SB39-001-D207	USSA3-SB39-001A-D207	USSA3-SB40-001-D207	USSA3-SB41-001-D207	USSA3-SB41-001A[a]-D207	USSA3-SB41-002-D207
PARAMETERS								
Date Sampled:	12/12/95	12/12/95	12/13/95	12/13/95	12/13/95	12/14/95	12/14/95	12/14/95
VOA (Method 601/602) $\mu g/\ell$								
Chloroform	<2.0	<2.0	<10.0	<10.0	<2.0	<2.0	<2.0	<2.0
Chloroethane	14.8[c]	10.1[c]	<20.0	<20.0	<4.0	<4.0	<4.0	<4.0
1,1-Dichlororethane	7.5	6.5	240[d]	241[d]	<2.0	<2.0	<2.0	<2.0
1,2-Dichloroethylene (trans)	<2.0	<2.0	116	121	<2.0	<2.0	<2.0	<2.0
Cis-1,2-Dichloroethene	47.8	45.5	3640	3976	6.0	<2.0	<2.0	<2.0
1,2-Dichloroethane	<2.0	<2.0	11.9	12.0	<2.0	<2.0	<2.0	<2.0
Trichloroethene	<2.0	<2.0	<10.0	<10.0	<2.0	<2.0	<2.0	<2.0
Vinyl Chloride	<2.0	<2.0	144[b]	161[b]	<2.0	<2.0	<2.0	<2.0
Benzene	4.9	5.4	<10.0	<10.0	<2.0	<2.0	<2.0	<2.0
Toluene	4.1	4.4	<10.0	<10.0	<2.0	<2.0	<2.0	<2.0
Ethylbenzene	47.5	41.8	<10.0	<10.0	<2.0	<2.0	<2.0	<2.0
Xylenes	304	305	<10.0	<10.0	<2.0	<2.0	<2.0	4.5
METALS mg/ℓ								
Arsenic	NA	NA	NA	NA	NA	NA	NA	NA
Barium	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	NA	NA	NA	NA	NA	NA	NA	NA
Lead	NA	NA	NA	NA	NA	NA	NA	NA

a. Duplicate sample.
b. Confirmed and quantitated by GC/MS.
c. Confirmed and quantitated by 624 GC/MS.
d. Estimate.
e. NA - Not analyzed.

TABLE 12 (cont.)

PHASE II INVESTIGATION GROUND-WATER SAMPLE ANALYTICAL RESULTS (6TH SAMPLING EVENT)

SAMPLE I.D.	USSA3-SB42-001-D207	USSA3-SB42-001A[a]-D207	USSA3-SB46-002-D207	USSA3-SB46-002-D207	USSA3-SB46-002A[a]-D207	USSA3-SB46-003-D207	USSA3-SB46-003A-D207	USSA3-SB48-001-D207	USSA3-SB-48-001A[a]-D207
PARAMETERS									
Date Sampled:	12/18/95	12/18/95	12/15/95	12/15/95	12/15/95	12/16/95	12/16/95	1/10/96	1/10/96
VOA (Method 601/602) μg/ℓ									
Chloroform	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<500	<500
Chloroethane	<4	<4.0	<4.0	<2.0	<4.0	<4.0	<4.0	<1000	<1000
1,1-Dichlororethane	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<500	<500
1,2-Dichloroethylene (trans)	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<500	<500
Cis-1,2-Dichloroethene	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<500	<500
1,2-Dichloroethane	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<500	<500
Trichloroethene	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<500	<500
Vinyl Chloride	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<500	<500
Benzene	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	3800	3715
Toluene	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2825	2438
Ethylbenzene	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	1210	1090
Xylenes	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	5250	4525
METALS mg/ℓ									
Arsenic	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	NA	NA	NA	NA	NA	NA	NA	NA	NA

a. Duplicate sample.
b. Confirmed and quantitated by GC/MS.
c. Confirmed and quantitated by 624 GC/MS.
d. Estimate.
e. NA - Not analyzed.

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TABLE 13

SAMPLE ANALYSIS SUMMARY

Sample I.D.	Matrix	Analytical Methods																			
		8010	8020	8015 GRO	8015 DRO	8015 - naphtha	8080	8240	8270	8 RCRA Metals	Pri. Pol. Metals	TCLP - Benzene	TCLP - VOAs	TCLP - metals	418.1	1010 / 1020A	9095	601	602	625	diss. Lead
USSA1-SS1-001-D171	Soil	x	x						x	x											
USSA1-SS2-001-D171	Soil	x	x						x	x											
USSA1-SS3-001-D171	Soil	x	x						x	x											
USSA1-SB1-SS6-D207	Soil		x	x	x																
USSA1-SB2-SS5-D207	Soil		x	x	x																
USSA1-SB3-SS8-D207	Soil		x	x	x																
USSA1-SB4-SS23-D207	Soil		x	x	x																
USSA1-SB5-SS45-D207	Soil	x	x			x															
USSA1-SB6-SS3-D207	Soil	x	x			x															
USSA1-SP1-SS1-D207	Soil		x									x		x	x	x	x				
USSA1-SP2-SS1-D207	Soil	x	x			x							x	x		x	x				
USSA1-MW1-001-D246	water																	x	x	x	x
USSA1-MW1-001A-D246	water																	x	x	x	x
USSA1-MW2-001-D246	water																	x	x	x	x
USSA1-FB1-072892-D246	water																	x	x	x	x
USSA1-MW3-001-D246	water																	x	x	x	x
USSA1-MW4-001-D246	water	x	x			x															
USSA1-MW5-001-D246	water	x	x			x															
USSA1-TB1-072892	water	x	x																		
USSA2-MW6U-001-D153	water						x	x	x		x										
USSA2-MW6U-001A-D153	water						x	x	x		x										
USSA2-FB1-041493-D153	water						x	x	x		x										
USSA2-TB1-041493-D153	water							x													
USSA2-MW6L-001-D153	water						x	x	x		x										
USSA2-MW7U-001-D153	water						x	x	x		x										
USSA2-MW7L-001-D153	water						x	x	x		x										
USSA2-MW8U-001-D153	water						x	x	x		x										
USSA2-MW8L-001-D153	water						x	x	x		x										
USSA2-TB2-041493	water							x													
USSA2-MW9U-001-D153	water						x	x	x		x										
USSA2-MW9M-001-D153	water						x	x	x		x										
USSA2-MW9L-001-D153	water						x	x	x		x										
USSA2-MW10U-001-D153	water						x	x	x		x										
USSA2-TB3-041493	water							x													
USSA2-MW11U-001-D153	water						x	x	x		x										
USSA2-TB4-041493	water							x													
USSA2-SB7L-SS11-D207	soil						x	x	x		x										
USSA2-SB7U-SS2-D207	soil						x	x	x		x										
USSA2-FB1-032393-D207	water						x	x	x		x										
USSA2-FB1-032493-D207	water						x	x	x		x										
USSA2-TB1-032493	water							x													
USSA2-SB11L-SS10-D207	soil						x	x	x		x										
USSA2-SB11U-SS2-D207	soil						x	x	x		x										
USSA2-FB1-032593-D207	water						x	x	x		x										

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TABLE 13 (CONT.)

SAMPLE ANALYSIS SUMMARY

Sample I.D.	Matrix	Analytical Methods																			
		8010	8020	8015 GRO	8015 DRO	8015 - naphtha	8080	8240	8270	8 RCRA Metals	Pri. Pol. Metals	TCLP - Benzene	TCLP - VOAs	TCLP - metals	418.1	1010 / 1020A	9095	601	602	625	diss. Lead
USSA2-FB1-032693-D207	water						x	x	x		x										
USSA2-TB1-032693	water							x													
USSA2-SB9L-SS3-D207	soil						x	x	x		x										
USSA2-TB1-032993	water							x													
USSA2-FB1-032993-D207	water						x	x	x		x										
USSA2-SB9U-SS2-D207	soil						x	x	x		x										
USSA2-SB8L-SS9-D207	soil						x	x	x		x										
USSA2-FB1-0333093-D207	water						x	x	x		x										
USSA2-FB1-033193-D207	water						x	x	x		x										
USSA2-TB1-033193	water							x													
USSA2-SB8U-SS2-D207	soil						x	x	x		x										
USSA2-SB10L-SS8-D207	soil						x	x	x		x										
USSA2-FB1-040193-D207	water						x	x	x		x										
USSA2-FB1-040293-D207	water						x	x	x		x										
USSA2-TB1-040293	water							x													
USSA2-SB10M-SS1-D207	soil						x	x	x		x										
USSA2-SB10U-SS1-D207	soil						x	x	x		x										
USSA2-FB1-040593-D207	water						x	x	x		x										
USSA2-FB1-040693-D207	water						x	x	x		x										
USSA2-TB1-040693	water							x													
USSA2-SB13-SS1-D207	soil						x	x	x		x										
USSA2-SB13-SS3-D207	soil										x										
USSA2-SB14-SS1-D207	soil						x	x	x		x										
USSA2-SB14-SS5-D207	soil										x										
USSA2-SB15-SS1-D207	soil						x	x	x		x										
USSA2-SB15-SS5-D207	soil										x										
USSA2-SB16-SS2-D207	soil						x	x	x		x										
USSA2-SB16-SS4-D207	soil										x										
USSA2-TB2-040893	water							x													
USSA2-SB12L-SS11-D207	soil						x	x	x		x										
USSA2-SB12U-SS1-D207	soil						x	x	x		x										
USSA2-FB1-040793-D207	water						x	x	x		x										
USSA2-FB1-040893-D207	water						x	x	x		x										
USSA2-TB1-040893	water							x													
USSA2-SB17-SS3-D207	soil							x													
USSA2-SB18-SS6-D207	soil							x													
USSA2-SB20-SS4-D207	soil							x													
USSA2-SB19U-SS2-D207	soil							x													
USSA2-SB21-SS2-D207	soil							x													
USSA2-FB1-060293-D207	water							x													
USSA2-FB1-060393-D207	water							x													
USSA2-FB1-060493-D207	water							x													
USSA2-TB1-060493	water							x													
USSA2-SB22U-SS7-D207	soil							x													
USSA2-SB19L-SS5-D207	soil							x													

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TABLE 13 (CONT.)

SAMPLE ANALYSIS SUMMARY

Sample I.D.	Matrix	Analytical Methods																			
		8010	8020	8015 GRO	8015 DRO	8015 - naphtha	8080	8240	8270	8 RCRA Metals	Pri. Pol. Metals	TCLP - Benzene	TCLP - VOAs	TCLP - metals	418.1	1010 / 1020A	9095	601	602	625	diss. Lead
USSA2-SB22L-SS3-D207	soil							x													
USSA2-FB1-060593-D207	water							x													
USSA2-FB1-060693-D207	water							x													
USSA2-TB1-060793	water							x													
USSA2-SB23-SS5-D207	soil							x													
USSA2-SB24-SS5-D207	soil							x													
USSA2-SB25-SS4-D207	soil							x													
USSA2-SB26-SS3-D207	soil							x													
USSA2-SB27-SS5-D207	soil							x													
USSA2-SB28-SS5-D207	soil							x													
USSA2-SB29U-SS2-D207	soil							x													
USSA2-FB1-070793-D207	water							x													
USSA2-FB1-070893-D207	water							x													
USSA2-FB1-070993-D207	water							x													
USSA2-TB1-070993	water							x													
USSA2-SB30-SS3-D207	soil							x													
USSA2-SB31-SS3-D207	soil							x													
USSA2-SB32-SS5-D207	soil							x													
USSA2-SB33-SS5-D207	soil							x													
USSA2-SB34-SS10-D207	soil							x													
USSA2-FB1-071293-D207	water							x													
USSA2-FB1-071393-D207	water							x													
USSA2-TB1-071493	water							x													
USSA2-FB1-071493-D207	water							x													
USSA2-SB35-SS8-D207	soil							x													
USSA2-SB36-SS5-D207	soil							x													
USSA2-FB1-071593-D207	water							x													
USSA2-MW12-001-D207	water							x													
USSA2-MW13-001-D207	water							x													
USSA2-MW4-002-D207	water							x													
USSA2-MW4-002A-D207	water							x													
USSA2-MW4L-001-D207	water							x													
USSA2-MW5-0020-D207	water							x													
USSA2-MW15-002-D207	water							x													
USSA2-MW14-001-D207	water							x													
USSA2-TB1-060993	water							x													
USSA2-FB1-060993-D207	water							x													
USSA2-MW15L-001-D207	water							x													
USSA2-MW16U-001-D207	water							x													
USSA2-MW17U-001-D207	water							x													
USSA2-MW18U-001-D207	water							x													
USSA2-MW19-001-D207	water							x													
USSA2-MW20-001-D207	water							x													
USSA2-MW21-001-D207	water							x													
USSA2-MW22-001-D207	water							x													

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TABLE 13 (CONT.)

SAMPLE ANALYSIS SUMMARY

Sample I.D.	Matrix	Analytical Methods																			
		8010	8020	8015 GRO	8015 DRO	8015 - napthta	8080	8240	8270	8 RCRA Metals	Pri. Pol. Metals	TCLP - Benzene	TCLP - VOAs	TCLP - metals	418.1	1010 / 1020A	9095	601	602	625	diss. Lead
USSA2-MW22-001A-D207	water							x													
USSA2-MW23-001-D207	water							x													
USSA2-MW24-001-D207	water							x													
USSA2-FB1-072193-D207	water							x													
USSA2-TB1-072193	water							x													
USSA3-MW3-002-D153	water																	x	x	x	
USSA3-MW3-002A-D153	water																	x	x	x	
USSA3-FB2-112995-D153	water																	x	x	x	
USSA3-MW7U-002-D153	water																	x	x	x	
USSA3-MW7L-002-D153	water																	x	x	x	
USSA3-MW24-002-D153	water																	x	x		
USSA3-MW23-002-D153	water																	x	x		
USSA3-MW11U-002-D153	water																	x	x		
USSA3-MW11U-002A-D153	water																	x	x		
USSA3-MW19-002-D153	water																	x	x		
USSA3-MW4L-002-D153	water																	x	x		
USSA3-TB1-112895	water																	x	x		
USSA3-MW5-003-D153	water									x								x	x		
USSA3-MW5-003A-D153	water									x								x	x		
USSA3-MW15-002-D153	water									x								x	x		
USSA3-MW4-003-D153	water									x								x	x		
USSA3-MW18-002-D153	water									x								x	x		
USSA3-FB1-112895-D153	water									x								x	x		
USSA3-MW14-002-D153	water									x								x	x		
USSA3-MW21-002-D153	water									x								x	x		
USSA3-MW22-002-D153	water																	x	x		
USSA3-MW12-002-D153	water																	x	x		
USSA3-MW13-002-D153	water									x								x	x		
USSA3-MW8L-002-D153	water																	x	x		
USSA3-MW20-002-D153	water																	x	x		
USSA3-MW8U-002-D153	water																	x	x		
USSA3-MW1-002-D153	water																	x	x		
USSA3-MW2-002-D153	water																	x	x		
USSA3-MW9U-002-D153	water																	x	x		
USSA3-MW9M-002-D153	water																	x	x		
USSA3-MW9L-002-D153	water																	x	x		
USSA3-MW10U-002-D153	water																	x	x		
USSA3-MW10U-002-D153	water																	x	x		
USSA3-MW15L-002-D153	water																	x	x		
USSA3-FB1-112995-D153	water																	x	x		
USSA3-MW16U-002-D153	water																	x	x		
USSA3-MW6L-002-D153	water																	x	x		
USSA3-MW6U-002-D153	water																	x	x		
USSA3-FB1-113095-D153	water																	x	x		
USSA3-MW17U-002-D153	water																	x	x		

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TABLE 13 (CONT.)

SAMPLE ANALYSIS SUMMARY

Sample I.D.	Matrix	Analytical Methods																			
		8010	8020	8015 GRO	8015 DRO	8015 - naphtha	8080	8240	8270	8 RCRA Metals	Pri. Pol. Metals	TCLP - Benzene	TCLP - VOAs	TCLP - metals	418.1	1010 / 1020A	9095	601	602	625	diss. Lead
USSA3-SB38-001-D207	water																	x	x		
USSA3-SB38-001A-D207	water																	x	x		
USSA3-FB1-121295-D207	water																	x	x		
USSA3-FB2-121295-D207	water							x		x											
USSA3-SB40-001-D207	water																	x	x		
USSA3-SB38-SS6-D207	soil							x		x											
USSA3-SB40-SS1-D207	soil							x		x											
USSA3-SB39-001-D207	water																	x	x		
USSA3-SB39-001A-D207	water																	x	x		
USSA3-FB1-121395-D207	water																	x	x		
USSA3-SB39-SS10-D207	soil							x		x											
USSA3-FB2-121395-D207	water							x		x											
USSA3-TB1-121395	water																	x	x		
USSA3-SB41-SS5-D207	soil							x		x											
USSA3-FB1-121495-D207	water																	x	x		
USSA3-SB41-001-D207	water																	x	x		
USSA3-SB41-001A-D207	water																	x	x		
USSA3-FB2-121495-D207	water							x		x											
USSA3-TB1-121495	water																	x	x		
USSA3-SB41-002-D153	water																	x	x		
USSA3-FB3-121495-D153	water																	x	x		
USSA3-SB46-SS7-D207	soil							x		x											
USSA3-SB46-001-D207	water																	x	x		
USSA3-FB1-121595-D207	water																	x	x		
USSA3-SB46-002-D207	water																	x	x		
USSA3-SB46-002A-D207	water																	x	x		
USSA3-FB2-121595-D207	water							x		x											
USSA3-TB1-121595	water																	x	x		
USSA3-FB1-121695-D207	water																	x	x		
USSA3-SB46-003-D207	water																	x	x		
USSA3-SB46-003A-D207	water																	x	x		
USSA3-TB1-121895	water																	x	x		
USSA3-SB42-SS3-D207	soil							x		x											
USSA3-FB1-121895-D207	water							x		x											
USSA3-FB2-121895-D207	water																	x	x		
USSA3-TB1-122095	water																	x	x		
USSA3-FB1-121995-D207	water																	x	x		
USSA3-SB42-001-D207	water																	x	x		
USSA3-SB42-001A-D207	water																	x	x		
USSA3-SB37-001-D207	water																	x	x		
USSA3-SB37-SS4-D207	soil							x		x											
USSA3-FB1-010396-D207	water																	x	x		
USSA3-SB34L-001-D207	water																	x	x		
USSA3-SB34L-001A-D207	water																	x	x		
USSA3-TB1-010496	water																	x	x		

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TABLE 13 (CONT.)

SAMPLE ANALYSIS SUMMARY

Sample I.D.	Matrix	Analytical Methods																			
		8010	8020	8015 GRO	8015 DRO	8015 - naphtha	8080	8240	8270	8 RCRA Metals	Pri. Pol. Metals	TCLP - Benzene	TCLP - VOAs	TCLP - metals	418.1	1010 / 1020A	9095	601	602	625	diss. Lead
USSA3-SB45-SS1-D207	soil		x	x	x																
USSA3-SB43-SS5-D207	soil		x	x	x																
USSA3-SB44-SS5-D207	soil		x	x	x																
USSA3-FB1-011096-D207	water		x	x	x																
USSA3-FB1-010996-D207	water		x	x	x																
USSA3-FB2-011096-D207	water																	x	x		
USSA3-SB48-001-D207	water																	x	x		
USSA3-SB48-001A-D207	water																	x	x		
USSA3-TB1-011096	water																	x	x		
USSA3-MW29L-001-D288	water																	x	x		
USSA3-MW29L-001A-D288	water																	x	x		
USSA3-MW29U-001-D288	water																	x	x		
USSA3-MW34U-001-D288	water																	x	x		
USSA3-MW34L-001-D288	water																	x	x		
USSA3-FB1-011696-D288	water																	x	x		
USSA3-MW16U-003-D288	water																	x	x		
USSA3-MW30-001-D288	water																	x	x		
USSA3-MW25-001-D288	water																	x	x		
USSA3-MW33-001-D288	water																	x	x		
USSA3-MW32-001-D288	water																	x	x		
USSA3-MW31-001-D288	water																	x	x		
USSA3-MW28-001-D288	water																	x	x		
USSA3-MW21L-001-D288	water																	x	x		
USSA3-TB1-011696	water																	x	x		

Containers and Preservatives

All soil samples were collected in glass jars and cooled to four degrees celsius.

Water samples for methods 8010, 8020, 8240, 601, and 602 were collected in 40ml VOA vials and preserved with HCL.

Water samples for methods 8080, 8270, 1010, and 625 were collected in glass jars and cooled to four degrees celsius.

Water samples for metals were collected in plastic jars and preserved with HNO3.

Water samples for method 418.1 were collected in glass jars and preserved with H2S04.

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TABLE 14

GROUND-WATER LEVEL DATA

MONITORING WELL	7/28/92	4/12/93 (+/-)[a]	6/8/93 (+/-)	7/21/93 (+/-)	11/28/95 (+/-)	1/16/96 (+/-)
MW-1	1066.40	1066.58 (+.18)	NM[b]	1065.13 (-1.27)	1063.56 (-2.84)	1064.89 (-1.51)
MW-2	1066.22	1066.45 (+.23)	NM	1064.98 (-1.24)	1063.33 (-2.89)	1064.69 (-1.53)
MW-3	1066.35	1066.40 (+.05)	NM	1065.26 (-1.09)	1063.78 (-2.57)	1065.02 (-1.33)
MW-4	1072.23	1072.60 (+.37)	1070.90 (-1.33)	1071.09 (-1.14)	1070.18 (-2.05)	1070.82 (-1.41)
MW-4L	NM	NM	1065.96	1065.99 (+.03)	1064.46 (-1.5)	1065.86 (-.1)
MW-5	1069.31	1071.50 (+2.19)	1069.18 (-.13)	1069.10 (-.21)	1067.76 (-1.55)	1068.69 (-.62)
MW-6U	NM	1066.97	NM	1065.96 (-1.01)	1064.99 (-1.98)	1066.17 (-.8)
MW-6L	NM	1067.11	NM	1065.96 (-1.15)	1064.43 (-2.68)	1065.66 (-1.45)
MW-7U	NM	1066.19	NM	1065.20 (-.99)	1063.76 (-2.64)	NM
MW-7L	NM	1066.40	NM	1065.39 (-1.01)	1064.01 (-2.39)	1065.03 (-1.37)
MW-8U	NM	1066.96	NM	1065.94 (-1.02)	1064.37 (-1.33)	1065.69 (-1.27)
MW-8L	NM	1065.70	NM	1065.69 (-.01)	1064.24 (-1.46)	1065.40 (-.3)
MW-9U	NM	1063.73	NM	1063.00 (-.73)	1061.83 (-1.9)	1063.09 (-.64)
MW-9M	NM	1064.02	NM	1063.04 (-.98)	1061.70 (-2.32)	1062.85 (-1.17)
MW-9L	NM	1062.92	1062.92 (0.0)	1061.49 (-1.43)	1060.20 (-2.72)	1061.40 (-1.52)
MW-10U	NM	1068.91	1069.77 (+.86)	1068.82 (-.09)	1067.88 (-1.03)	1068.53 (-.38)
MW-11U	NM	1071.30	1070.70 (-.6)	1070.68 (-.62)	1069.36 (-1.94)	1071.88 (+.58)
MW-12	NM	NM	1068.33	1068.16 (-.17)	1066.45 (-1.88)	1068.49 (+.16)
MW-13	NM	NM	1065.15	1065.29 (-.14)	1063.66 (-1.49)	1064.83 (-.32)
MW-14	NM	NM	1066.54	1066.85 (+.31)	1065.14 (-1.40)	1066.21 (-.33)
MW-15U	NM	NM	1068.13	1066.92 (-1.21)	1065.75 (-2.38)	1068.07 (-.06)
MW-15L	NM	NM	NM	1066.17	1065.13 (-1.04)	1066.72 (+.55)
MW-16U	NM	NM	NM	1069.11	1067.67 (-1.44)	1068.36 (-.75)
MW-17U	NM	NM	NM	1069.19	1068.10 (-1.09)	1068.88 (-.31)

a. The difference in water level elevation between the event listed and the original water level elevation.
b. NM - water level not measured.

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TABLE 14 (cont.)

GROUND-WATER LEVEL DATA

MONITORING WELL	7/28/92	4/12/93 (+/-)	6/8/93 (+/-)	7/21/93 (+/-)	11/28/95 (+/-)	1/16/96 (+/-)
MW-18U	NM	NM	NM	1068.39	1067.21 (-1.18)	
MW-19	NM	NM	NM	1070.51	1069.45 (-1.06)	1071.41 (+.9)
MW-20	NM	NM	NM	1065.56	1063.78 (-1.78)	1064.93 (-.63)
MW-21U	NM	NM	NM	1064.64	1063.16 (-1.48)	1064.34 (-.3)
MW-21L	NM	NM	NM	NM	NM	1063.99
MW-22	NM	NM	NM	1066.83	1065.31 (-1.52)	NM
MW-23	NM	NM	NM	1068.98	1067.77 (-1.21)	1068.42 (-.56)
MW-24	NM	NM	NM	1067.14	1065.13 (-2.01)	1065.91 (-1.23)
MW-25	NM	NM	NM	NM	NM	1069.69
MW-28	NM	NM	NM	NM	NM	1064.16
MW-29U	NM	NM	NM	NM	NM	1063.96
MW-29L	NM	NM	NM	NM	NM	1064.09
MW-30	NM	NM	NM	NM	NM	1069.19
MW-31	NM	NM	NM	NM	NM	1064.58
MW-32	NM	NM	NM	NM	NM	1064.60
MW-33	NM	NM	NM	NM	NM	1064.59
MW-34U	NM	NM	NM	NM	NM	1064.22
MW-34L				NM	NM	1064.18

a. The difference in water level elevation between the event listed and the original water level elevation.
b. NM - water level not measured.

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TABLE 15

SEEPAGE VELOCITIES

WELL NUMBER		SAND UNIT
AREA A		
MW-11U	$v^{a} = \frac{49.94}{0.20} \times 0.044 = 10.99$ ft/day	1065 sand
MW-25	$v = \frac{39.39}{0.20} \times 0.044 = 8.67$ ft/day	1065 sand
MW-4	$v = \frac{22.08}{0.20} \times 0.044 = 4.86$ ft/day	1065 sand
MW-20	$v = \frac{4.63}{0.20} \times 0.038 = 0.88$ ft/day	1060 sand
MW-22	$v = \frac{26.73}{0.20} \times 0.038 = 5.08$ ft/day	1060 sand
MW-13	$v = \frac{30.96}{0.20} \times 0.003 = 0.46$ ft/day	1057 sand
MW-21U	$v = \frac{6.52}{0.20} \times 0.003 = 0.10$ ft/day	1057 sand
MW-28	$v = \frac{4.97}{0.20} \times 0.006 = 0.15$ ft/day	1057 sand
AREA B		
MW-5	$v = \frac{24.91}{0.20} \times 0.020 = 2.49$ ft/day	1065 sand
MW-15U	$v = \frac{0.45}{0.20} \times 0.020 = 0.05$ ft/day	1065 sand
MW-17U	$v = \frac{7.95}{0.20} \times 0.020 = 0.80$ ft/day	1065 sand
MW-10U	$v = \frac{0.24}{0.20} \times 0.020 = 0.02$ ft/day	1060 sand
MW-14	$v = \frac{5.52}{0.20} \times 0.006 = 0.17$ ft/day	1060 and 1057 sands
AREA C		
MW-3	$v = \frac{86.20}{0.20} \times 0.006 = 2.57$ ft/day	1060 sand
MW-7U	$v = \frac{34.95}{0.20} \times 0.006 = 1.05$ ft/day	1060 sand
MW-31	$v = \frac{69.74}{0.20} \times 0.006 = 2.09$ ft/day	1060 sand
MW-33	$v = \frac{186.55}{0.20} \times 0.006 = 5.60$ ft/day	1060 sand

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TABLE 15 (cont.)

SEEPAGE VELOCITIES

WELL NUMBER		SAND UNIT
AREA D		
MW-1	$v = \frac{13.80}{0.20} \times 0.011 = 0.76$ ft/day	1057 sand
MW-2	$v = \frac{28.69}{0.20} \times 0.011 = 1.58$ ft/day	1057 sand
Perimeter Boring:		
MW-9M	$v = \frac{35.69}{0.20} \times 0.001 = 0.18$ ft/day	1057 sand

a. $v = \frac{K}{N_e} \times \frac{dh}{dl}$

v = seepage velocity (feet/day).

K = hydraulic conductivity (feet/day).

N_e = effective porosity (20%).

$\frac{dh}{dl}$ = hydraulic gradient (feet/feet).

TABLE 16

HEALTH-BASED CRITERIA FOR SUBSURFACE SOILS (TIER II NON-RESIDENTIAL SCENARIOS)

Chemical Name	Compound is Bioaccumulatable (yes/no)	Subsurface Soils		Leaching to Groundwater		Subsurface Soil Criteria (mg/kg)
		Carcinogenic Effects @10-5 (mg/kg)	Noncarcinogenic Effects (mg/kg)	Groundwater Criteria (mg/l)	Subsurface Soil Criteria (mg/kg)	
Carbon Tetrachloride	no	3923.08	1022	0.022	0.61	0.61
1,2-Dichloroethylene (a)	no	NA	13140	0.92	59.3	59.3
Acrolein	no	NA	0.41	2.04	19.62	0.41
Acrylonitrile	no	1.51	0.59	0.0053	0.01	0.01
Chlorobenzene	no	NA	29200	2.04	786.56	786.56
2,6-Dinitrotoluene	no	NA	1460	0.1	0.6	0.6

Notes: (a) 1,2-dichloroethylene is a mixture of two isomers (cis and trans). IRIS has published toxicity values for 1,2-DCE but does not list any chemical or physical properties for the mixture. The health based criteria was calculated using the chemical and physical properties of both the cis and trans isomers and final selection was based on the most conservative numbers calculated (using chemical data of the trans isomer).

TABLE 17

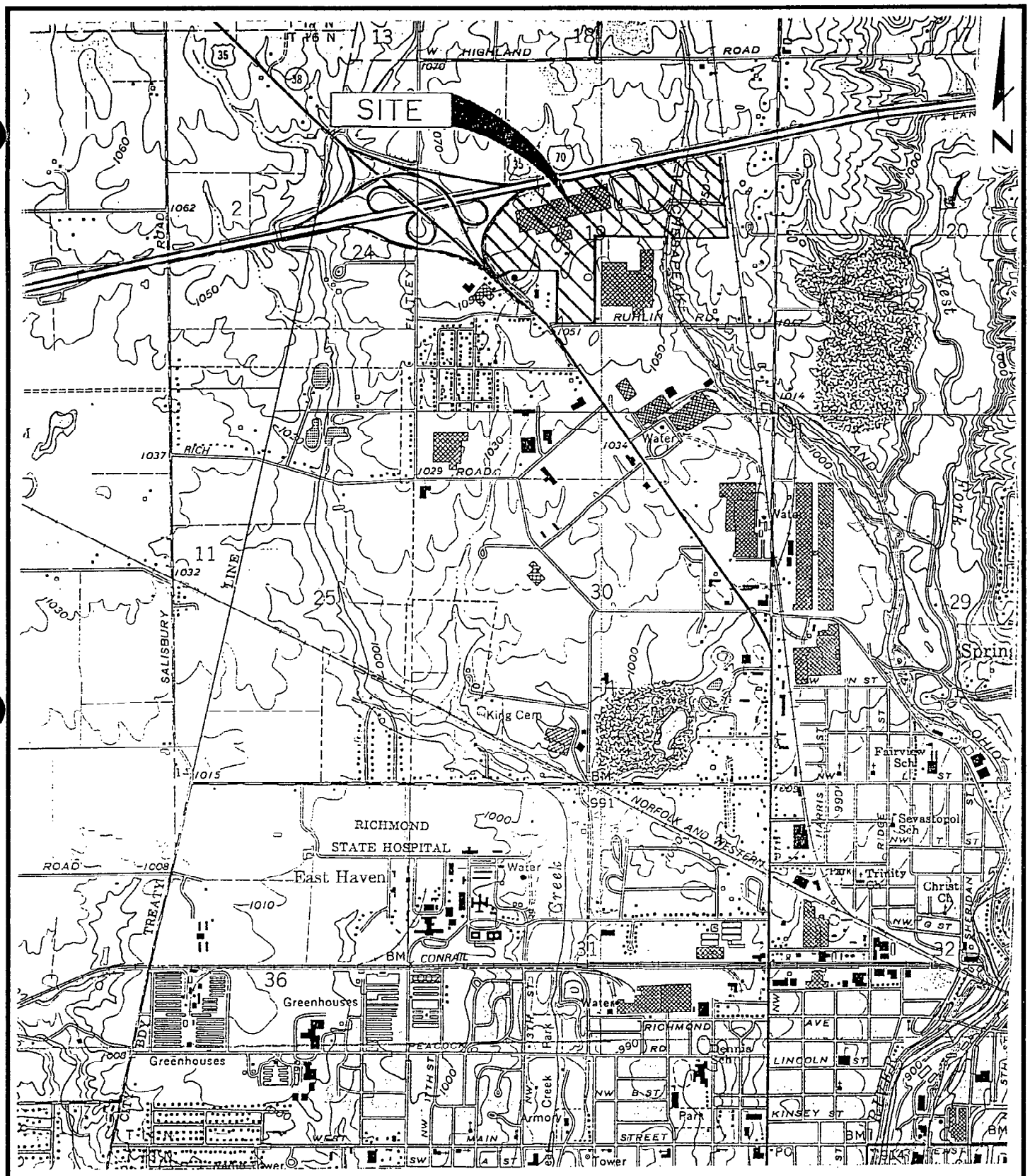
HEALTH-BASED CRITERIA FOR GROUND WATER (TIER II NON-RESIDENTIAL SCENARIO)

Chemical Name	Compound is Bioaccumulatable (yes/no)	MCL or Nonzero MCLG (mg/L)	Practical Quantitation Limit (mg/L)	Groundwater		Groundwater Criteria (mg/l)
				Carcinogenic Effects @10-5 (mg/L)	Noncarcinogenic Effects (mg/L)	
Carbon Tetrachloride	no	0.005	0.005	0.022	0.07	0.022
1,2-Dichloroethylene (a)	no	0.1	0.005	NA	0.92	0.92
Acrolein	no	NA	0.007	NA	2.04	2.04
Acrylonitrile	no	NA	0.005	0.0053	0.1	0.005
Chlorobenzene	no	0.1	0.005	NA	2.04	2.04
2,6-Dinitrotoluene	no	NA	0.01	NA	0.1	0.1

Notes: (a) 1,2-dichloroethylene is a mixture of two isomers (cis and trans). IRIS has published toxicity values for 1,2-DCE but does not list any chemical or physical properties for the mixture. The health based criteria was calculated using the chemical and physical properties of both the cis and trans isomers and final selection was based on the most conservative numbers calculated (using chemical data of the trans isomer).

FIGURES/

PLATES



QUADRANGLE LOCATION

SCALE: 1" = 2000'

SOURCE: USGS 7.5 MIN. QUADRANGLE
- RICHMOND, INDIANA 1960
PHOTOREVISED 1981

LATITUDE: 39°52'00"
LONGITUDE: 84°55'07"

USS\0282D002
10/24/96 SCHOONOV

FIGURE I

Hull & Associates, Inc.
DUBLIN, OHIO

PHASE II INVESTIGATION REPORT
VOLUNTARY REMEDIATION PROGRAM
FORMER WAYNE CORPORATION FACILITY

SITE LOCATION MAP

CITY OF RICHMOND, WAYNE CO., INDIANA

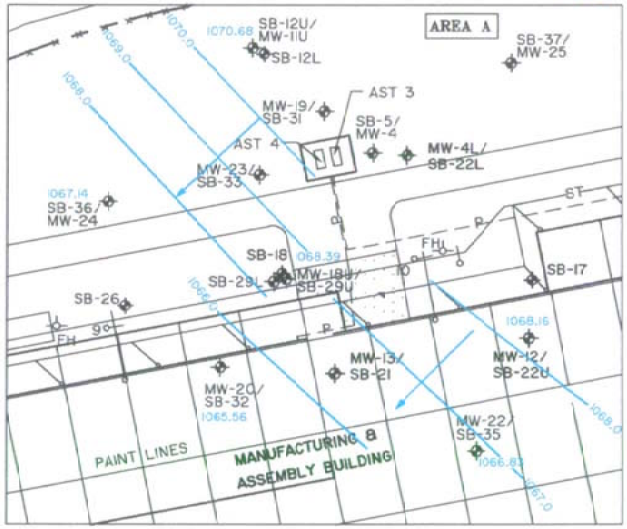
DATE:
OCTOBER 1996

USS A3

SCALE: 1" = 80'

1070.68 FT-1067.14 FT / 135 FT = 0.026 FT/FT (1065 SAND)

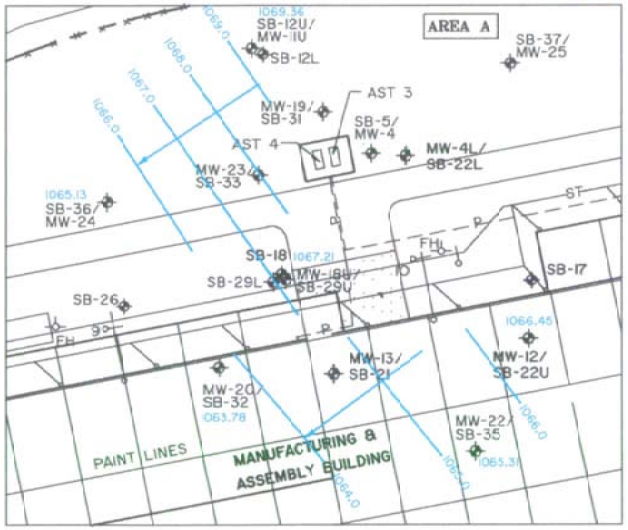
7/21/93



(1060 SAND) 1068.0 FT-1066.0 FT / 113 FT = 0.018 FT/FT

1069.0 FT-1066.0 FT / 94 FT = 0.032 FT/FT (1065 SAND)

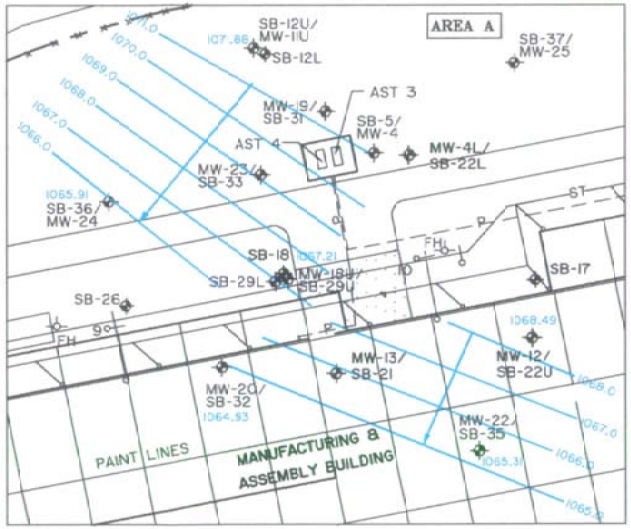
11/28/95



(1060 SAND) 1066.0 FT-1064.0 FT / 124 FT = 0.016 FT/FT

1071.0 FT-1066.0 FT / 114 FT = 0.04 FT/FT (1065 SAND)

1/16/96



(1060 SAND) 1068.0 FT-1065.0 FT / 79.0 FT = 0.04 FT/FT

FIGURE 2

Hull & Associates, Inc.
DUBLIN, OHIO

PHASE II INVESTIGATION REPORT
VOLUNTARY REMEDIATION PROGRAM
FORMER WAYNE CORPORATION FACILITY

POTENTIOMETRIC SURFACES OF 1065 SAND AND 1060 SAND IN AREA A

CITY OF RICHMOND, WAYNE COUNTY, INDIANA

DATE: OCTOBER 1996

USS A3

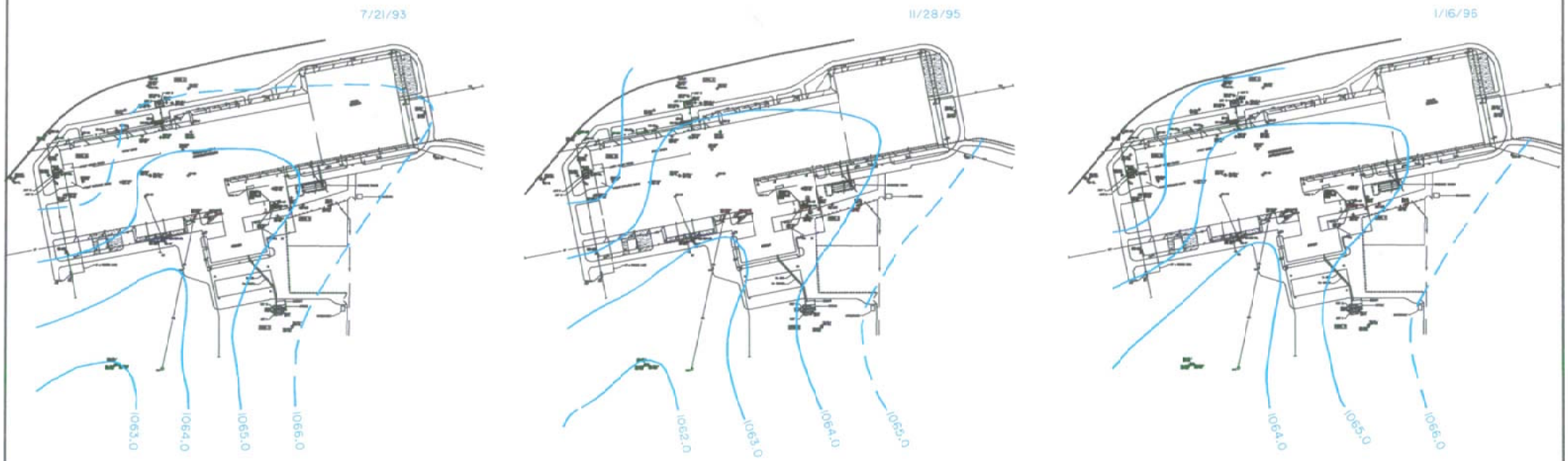


FIGURE 3

Hull & Associates, Inc.
DUBLIN, OHIO

PHASE II INVESTIGATION REPORT
VOLUNTARY REMEDIATION PROGRAM
FORMER WAYNE CORPORATION FACILITY

POTENTIOMETRIC SURFACE OF
1057 SAND OVER ENTIRE SITE
CITY OF RICHMOND, WAYNE COUNTY, INDIANA

DATE:
OCTOBER 1996

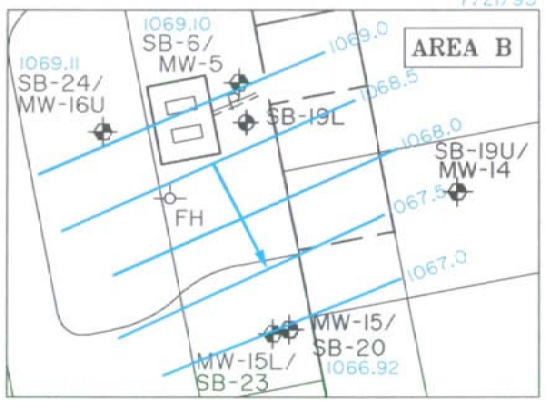
USS A3

USS/DRBROOS
10/18/96 SCHOONOV

N

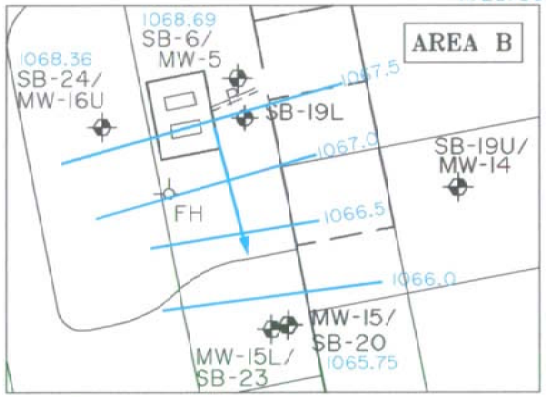
SCALE: 1"=50'

7/21/93



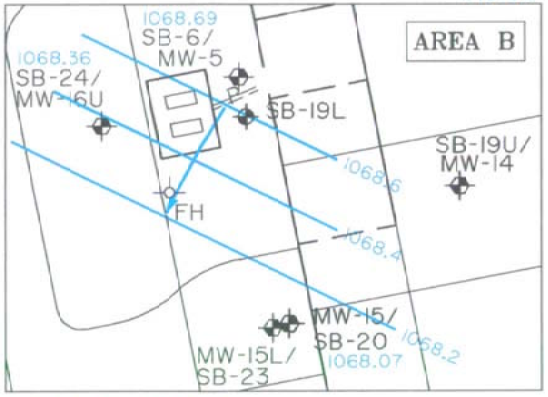
$\frac{1069.0 \text{ FT} - 1067.0 \text{ FT}}{93 \text{ FT}} = 0.022$ FT/FT (1065 SAND)

11/28/95



$\frac{1067.5 \text{ FT} - 1066.0 \text{ FT}}{74 \text{ FT}} = 0.020$ FT/FT (1065 SAND)

1/16/96



$\frac{1068.6 \text{ FT} - 1068.2 \text{ FT}}{51 \text{ FT}} = 0.008$ FT/FT (1065 SAND)

FIGURE 4

Hull & Associates, Inc.
DUBLIN, OHIO

PHASE II INVESTIGATION REPORT
VOLUNTARY REMEDIATION PROGRAM
FORMER VAYNE CORPORATION FACILITY

POTENTIOMETRIC SURFACES OF 1065 SAND IN AREA B

CITY OF RICHMOND, WAYNE COUNTY, INDIANA

DATE: OCTOBER 1996

USS A3

U:\01.08\8\0008
10/18/96 SCHOONOVER
UNIT DISK

APPENDIX B

Water Well Information

WEAVER BOOS CONSULTANTS

- ☐ 70 West Madison, Suite 4250 • Chicago, IL 60602 • (312) 922-1030
- ☐ 365 Citrus Tower Blvd., Suite 110 • Clermont, FL 34711 • (352) 241-0848
- ☐ 5675 DTC Blvd., Suite 102 • Denver, CO 80111 • (720) 529-0132
- ☐ 4260 Tuller Rd. Suite 202 • Dublin, OH 43017 • (614) 389-4132
- ☐ 6420 Southwest Blvd., Suite 206 • Fort Worth, TX 76109 • (817) 735-9770
- ☐ 400 Ann Street N.W., Suite 201A • Grand Rapids, MI 40504 • (616) 458-8052
- ☐ 1813 N. Mill St., Suite A • Naperville, IL 60563 • (630) 717-4848
- ☐ 446 NW Business Park Lane • Riverside, MO 64150 • (816) 741-5006
- ☐ 4085 Meghan Beeler Court • South Bend, IN 46628 • (574) 271-3447
- ☐ 2021 Timberbrook Lane • Springfield, IL 62702 • (217) 787-0290
- ☐ 801 North Second St., Suite 202 • St Louis, MO 63102 • (314) 621-8140

By GDB Date 4-9-2013 Subject FORMER CARPENTER MFG. Sheet 1 of 1

Ckd By SMS Date 4-10-2013 RICHMOND, IN File No 2339-353-03-00

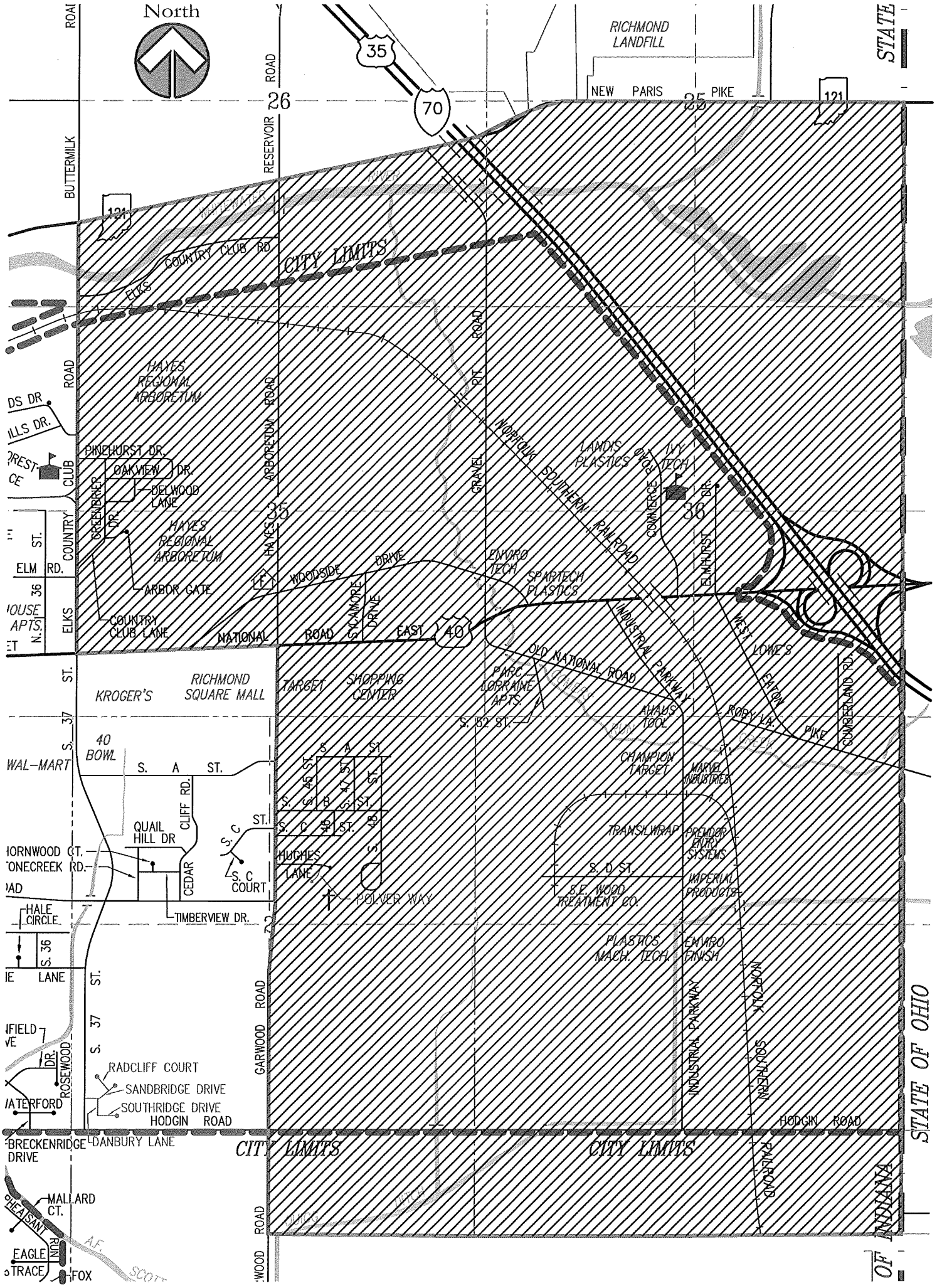
Telephone Record 4-9-13

- Grant Baker of Weaver Boos Consultants spoke with Scott Zimmerman, City Planner for Richmond, Indiana at 1545 on 4-9-13. Mr. Zimmerman stated that he is certain that the area in question 1100 Industries Rd, Richmond, Indiana, is not within a Wellhead Protection area.

Scott Zimmerman
City Planner
765-983-7200

- Greg Stiens of the City of Richmond returned a call and confirmed the area in question, 1100 Industries Rd, Richmond, Indiana is not within a Well Head Protection Area. Mr. Steins provided maps of Wellhead Protection Areas around Richmond, Indiana.

Greg Stiens
765-983-7200


North
RICHMOND LANDFILL
STATE
NEW PARIS PIKE
35
70
121
26
25
RESERVOIR ROAD
BUTTERMILK ROAD
WHITEWATER RIVER
CITY LIMITS
COUNTRY CLUB RD
ELKS
HAYES REGIONAL ARBORETUM
ARBORETUM ROAD
HAYES
PINEHURST DR.
OAKVIEW DR.
DELWOOD LANE
GREENBRIER DR.
ARBOR GATE
COUNTRY CLUB LANE
ELM RD.
ELKS
NATIONAL ROAD
WOODSIDE DRIVE
SYCAMORE DRIVE
EAST
40
GRAVEL PIT ROAD
NORFOLK SOUTHERN RAILROAD
ENVIRO TECH
SPARTECH PLASTICS
LANDIS PLASTICS
IVY TECH
COMMERCE DR.
ELMHURST DR.
36
INDUSTRIAL PARKWAY
OLD NATIONAL ROAD
PARC LORRAINE APTS.
S. 52 ST.
AHAUS TOOL
CHAMPION TARGET
MARVEL INDUSTRIES
TRANSLWRAP
PREMIER ENTRY SYSTEMS
S. D ST.
S.E. WOOD TREATMENT CO.
IMPERIAL PRODUCTS
PLASTICS MACH. TECH.
ENVIRO FINISH
INDUSTRIAL PARKWAY
EATON PIKE
ROBY LN.
WEST LOWE'S
CUMBERLAND RD.
SOUTHERN RAILROAD
HODGIN ROAD
KROGER'S
RICHMOND SQUARE MALL
TARGET
SHOPPING CENTER
40 BOWL
WAL-MART
S. A ST.
CLIFF RD.
QUAIL HILL DR
CEDAR
S. C ST.
S. C COURT
HUGHES LANE
POLVER WAY
TIMBERVIEW DR.
HALE CIRCLE
S. 36
LANE
S. 37 ST.
GARWOOD ROAD
ROSEWOOD DR.
RADCLIFF COURT
SANDBRIDGE DRIVE
SOUTHRIDGE DRIVE
HODGIN ROAD
DANBURY LANE
BRECKENRIDGE DRIVE
CITY LIMITS
CITY LIMITS
MALLARD CT.
PHEASANT RUN
EAGLE TRACE
FOX
A.F. SCOTT
STATE OF OHIO
STATE OF INDIANA

North
N.W. F ST.
STEVENS
WIRE
N.W. E ST.
RICH MOND AVE.
RAND OLPH
LIN COLN
PEARL
KIN SEY
W. MAIN ST.
S.W. 4
S.W. 3
S.W. 2
S.W. 1 ST.
S.W. 3 PL
S.W. F
G ST.
S.W. H ST.
HAZEL WOOD LA.
S.W. I ST.
DR.
S.W. J ST.
LINKAY PLACE
S.W. 1
PIKE
GE TRAIL
HARRIS
HUNT
RIDGE
BOYER
CROSSH
GREEN
BUTLER
DAN
SHER
VINE
ROSS
EDNA ST.
N.W. K ST.
N.W. I
N.W. H
N.W. G ST.
N.W. F ST.
N.W. E
MADDEN CT.
JOHNSON
HUB ETCHISON PKWY
RICHMOND HIGH SCHOOL
S.W. F
S.W. G ST.
S.W. H ST.
S.W. I ST.
S.W. J ST.
S.W. 1 ST.
S.W. 2
S.W. 3
S.W. 4
S.W. 5
S.W. 6
S.W. 7
S.W. 8
S.W. 9
S.W. 10
S.W. 11
S.W. 12
S.W. 13
S. A
S. B
S. C
S. D
S. E
S. F
S. G
S. H
S. I
S. J
S. K
S. L
S. M
S. 4
S. 5
S. 6
S. 7
S. 8
S. 9
S. 10
S. 11
S. 12
S. 13
SHERWOOD ST.
THORTON ST.
COLFAX
SIM HODGIN
PARKWAY
BRIDGE AVE
RICH. BAKING
MOSEY MFG.
PURINA
NEFF
DEPOT
ELM PL.
N. D
N. C ST.
POST OFFICE
FT. WAYNE AVE
CITY BLDG.
SERVICE DR.
SAILOR ST.
E. MAIN ST.
COURT HOUSE
SERVICE DR.
PARK PLACE
GARDEN AVE.
COLOR BOX
27
27
N. J ST.
N. H ST.
N. G
N. F
N. 8
N. 9
N. 11
N. 12
N. 13
N. B
PRIM.

Low Capacity Water Wells

1100 Industries Road, Richmond, IN 47374

Data Source: IDNR 2012 Water Wells

Low Capacity Water Wells (<70 gpm)

Former Carpenter Manufacturing

1 Mile Buffer

Miles

0 0.25 0.5

Low Capacity (<70 gpm) Water Wells Within One Mile of:
Former Carpenter Facility
1100 Industries Road, Richmond, IN 47374
Prepared by Weaver Boos Consultants

Well No.	Depth to Bedrock (ft)	Pump Rate (gpm)	Screen Length (ft)	Depth to Water (ft)	Length of Well (ft)	Well Owner	Address of Owner
239481	0	0.0	0.0	0.00	95.00	CLENDENIM FERTILIZER	RICHMOND
239040	0	12.0	0.0	55.00	161.00	PERFECT CIRCLE CORP.	RICHMOND
239045	0	30.0	10.0	91.00	159.50	PERFECT CIRCLE CORP.	RICHMOND, IN.
239517	0	11.7	0.0	-1.00	79.00	C. HOLSAPPLE	RICHMOND
239010	0	0.0	0.0	0.00	164.00	PERFECT CIRCLE CORP.	RICHMOND
239015	0	0.0	0.0	0.00	157.00	PERFECT CIRCLE CORP.	RICHMOND
239522	0	12.0	0.0	8.00	42.50	MCMAHON	
239527	0	10.0	0.0	1.00	91.00	ROBERT REED	
239532	0	0.0	0.0	-1.00	117.00	SHERMAN BROWN	
239537	0	10.0	0.0	-1.00	66.60	CHAS. HOLSAPPLE	
239623	0	12.0	0.0	39.00	84.00	STANLEY ANDERSON	CHESTER IN
239446	0	16.0	0.0	34.00	52.50	WALTER BRUMFIELD	
239451	0	8.3	0.0	28.00	58.50	WALTER BRUMFIELD	
239456	0	8.0	0.0	55.00	111.25	YORKHAUF	
239512	0	33.3	0.0	15.00	93.00	WALTER G. RUHLEN	
259489	5	0.0	3.0	30.00	82.00	SHAFFER	
315964	0	0.0	0.0	3.00	135.00	PERFECT CIRCLE CORP.	RICHMOND
315965	0	50.0	0.0	19.00	75.00	PERFECT CIRCLE CORP.	RICHMOND
315989	0	0.0	0.0	0.00	146.00	PERFECT CIRCLE CORP.	RICHMOND
325925	0	65.0	4.0	9.00	68.00		
396336	0	10.0	3.0	0.00	80.00	RHONDA WISE	
396341	0	0.0	0.0	0.00	150.00	RHONDA WISE	
385313	0	0.0	5.0	0.00	39.00	ALCOA INC	2300 N WRIGHT RD, ALCOA, TN
385314	0	0.0	10.0	0.00	41.00	ALCOA	2300 N WRIGHT RD, ALCOA, TN
385315	0	0.0	5.0	0.00	57.00	ALCOA INC	2300 N WRIGHT RD, ALCOA, TN
385316	0	0.0	5.0	0.00	59.00	ALCOA INC	2300 N WRIGHT RD, ALCOA, TN
162208	156	0.0	0.0	0.00	156.00	MARATHON OIL CO. J. JUERLING	1229 S 8TH ST, RICHMOND
239491	0	0.0	5.0	50.00	110.00	RAYMOND DELUCIO	UNION PIKE, RICHMOND
239497	0	12.0	0.0	1.00	92.00	FLETCHER BROCKMAN	2525 NW 16HT ST, RICHMOND IN
239502	0	12.0	3.0	-1.00	86.00	FLOYD BAILEY	2425 NW 16TH, RICHMOND
239507	0	20.0	0.0	0.00	177.00	WALTER G. RHYLEN	R1, BOX 2, RICHMOND IN
239018	0	12.0	4.5	23.00	84.00	ROBERT BRANSON	RR#, RICHMOND
239023	0	10.0	4.0	21.00	76.00	MILLER, KENNETH	RICHMOND IN
239028	86	10.0	0.0	-1.00	191.00	LEONARD R. WEST-DAVIS HOMES	2436 WILLIAMSBURG PK, RICHMOND IN
239043	0	0.0	0.0	-1.00	69.00	SALVADOR B. GOMEZ JR.	417 N. W. K. ST, RICHMOND, IN
239048	77	5.0	0.0	-1.00	170.00	H.R. CHAMNESS-DAVIS HOMES INC	321.5 N 12TH ST, RICHMOND IN
239053	0	10.0	4.0	0.00	78.00	ROBT. KENNEDY	
239542	0	14.0	4.0	34.00	102.00	ALLEN SMITH	R#1, BOX 257, RICHMOND
239450	80	8.3	0.0	-1.00	240.00	BLL J NELSON	1223 RIDGE RD, RICHMOND, IN
239455	0	20.0	4.0	17.00	49.00	WM L LAWRENCE	RICH RD, RICHMOND, IN
239457	0	0.0	0.0	0.00	156.00	EVERETT HALL	RR#1, RICHMOND
239462	0	10.0	0.0	48.00	90.00	EVERETT HALL	RR#1, RICHMOND
239467	155	0.0	0.0	0.00	170.00	EVERETT HALL	RR#1, RICHMOND
239471	0	25.0	0.0	39.00	88.00	PAUL DELLUCIO	NORTH RICHMOND

Low Capacity (<70 gpm) Water Wells Within One Mile of:
Former Carpenter Facility
1100 Industries Road, Richmond, IN 47374
Prepared by Weaver Boos Consultants

Well No.	Depth to Bedrock (ft)	Pump Rate (gpm)	Screen Length (ft)	Depth to Water (ft)	Length of Well (ft)	Well Owner	Address of Owner
239476	0	0.0	0.0	18.00	30.00	MARK A. FULLE	4721 SR27N, RICHMOND IN
259524	0	0.0	5.0	0.00	20.80	DANA CORP CAMSHAFT PLANT 7	2211 WILLIAMSBURG PIKE RICHMOND IN
259529	0	0.0	5.0	0.00	18.25	DANA CORP CAMSHAFT PLANT 7	2211 WILLIAMSBURG PIKE RICHMOND, IN
259534	0	0.0	5.0	0.00	17.60	DANA CORP CAMSHAFT PLANT 7	2211 WILLIAMSBURG PIKE RICHMOND, IN
259539	0	0.0	5.0	0.00	19.50	DANA CORP CAMSHAFT PLANT 7	2211 WILLIAMS PIKE RICHMOND, IN
259718	0	5.0	4.0	30.00	0.00	MEAD RHEINHARDT	3040 UNION OIKE, RICHMOND
285821	0	15.0	5.0	10.00	31.00	ERNIE CAIN	2280 RICH RD RICHMOND IN

High Capacity Water Wells

1100 Industries Road, Richmond, IN 47374

Data Source: IDNR 2012 Water Wells

High Capacity Water Wells (>70 gpm)

Former Carpenter Manufacturing

2 Mile Buffer

Miles

0 0.5 1

High Capacity (>70 gpm) Water Wells Within Two Miles of:
Former Carpenter Facility
1100 Industries Road, Richmond, IN 47374
Prepared by Weaver Boos Consultants

Well No.	Depth to Bedrock (ft)	Pump Rate (gpm)	Screen Length (ft)	Depth to Water (ft)	Length of Well (ft)	Well Owner	Address of Owner
163644	0	80	8.0	39.00	130.00	JERRY BELL	2347 TINGLER RD
239677	0	1040	0.0	14.10	32.00	RICHMOND WATER WORKS	RICHMOND
239475	0	500	0.0	75.00	167.00	BELDEN MFG. CO.	RICHMOND
239480	0	500	0.0	67.00	91.00	BELDEN MFG CO	RICHMOND
238990	0	668	20.0	28.00	0.00	RICHMOND STATE HOSPITAL	RICHMOND, IN
239005	0	602	25.0	32.00	141.67	INDIANA STATE HOSPITAL	RICHMOND, IN
296703	0	600	0.0	27.00	56.00	CARL H TUBESING	211 S EASTHAVON AVE, RICHMOND
315963	0	125	0.0	19.00	75.00	PERFECT CIRCLE CORP.	RICHMOND
315988	0	400	0.0	54.00	156.00	ALUMINUM SEAL CO. ALCOA	RICHMOND, OLD PERFECT CIRCLE PLANT
22421	135	150	20.0	70.00	135.00	SANYO LASER PRODUCTS INC	1767 SHERIDAN RICHMOND IN
162213	0	300	10.0	3.00	106.00	JOHN JUERLING CONTR MARAT OIL	1229 S 8TH ST, RICHMOND
239070	0	1404	20.0	26.50	91.00	RICHMOND WATER WORKS CO.	RICHMOND, IN
239075	154	1353	30.0	0.00	0.00	RICHMOND WATER WORKS CORP.	RICHMOND, IN
238985	0	590	20.0	18.75	130.00	RICHMOND STATE HOSPITAL	RICHMOND, IN
239020	168	457	20.0	83.00	171.00	ALCOA	1701 N WILLIAMSBURG PK
259544	0	135	5.0	19.00	45.00	GERALD MILLSAPS	3064 GAAR JACKSON RD, CENTERVILLE IN
227676	0	150	0.0	18.00	30.00	JAMES A RODEFELD	5513 JOHNSON RD INDPLS, IND

APPENDIX C

Probe Logs and Monitoring Well
Construction Details

WEAVER BOOS CONSULTANTS LLC
GEO-ENVIRONMENTAL ENGINEERS AND SCIENTISTS

4085 Meghan Beeler Court
South Bend, IN 46628
(574) 271-3447 Tel
(574) 271-3343 Fax

Boring No.: **P-1**

File No.: 2339-353-03

Client: Indiana Brownfields Program

Date of Probe: 7/6/11

WATER LEVEL DATA			
17	While Drilling (feet)	Time Started:	1008
	At Completion (feet)	Time Completed:	1030
	__ hours after drilling (feet)	Driller:	EnviroCore
		Location:	Former Carpenter Mfg Richmond, IN

Temporary Well Construction Diagram

DEPTH (ft)	SOIL DESCRIPTION	SAMPLE DATA REC (in)	PID (ppm)	MOISTURE CONTENT
1.0	Asphalt			
	(FILL) Gray sand/gravel/fines mixture.	14	0.0	Dry
2.0				
3.0				
4.0				
5.0	(CL) Dark brown CLAY with some fine subrounded gravel, little coarse subrounded gravel, medium plasticity.	23	0.0	Dry to Moist
6.0				
7.0				
8.0				
9.0	Color changes to lighter brown, little fine-grained sand.	33	0.0	Moist
10.0				
11.0				
12.0				
13.0		48	0.0	Moist
14.0				
15.0	Color changes to grayish brown, more fine gravel and coarse-grained sand, subrounded to subangular.			
16.0				
17.0				Moist
18.0	(SW) SAND & GRAVEL, fine- to coarse-grained, subrounded to subangular, little fines, wet.	40	0.0	Wet
19.0				
20.0				

NOTES: Temporary Well Set at 22 feet

Logged by: Colin Flaherty

WEAVER BOOS CONSULTANTS LLC
GEO-ENVIRONMENTAL ENGINEERS AND SCIENTISTS

4085 Meghan Beeler Court
South Bend, IN 46628
(574) 271-3447 Tel
(574) 271-3343 Fax

Boring No.: **P-1**
File No.: 2339-353-03
Client: Indiana Brownfields Program
Date of Probe: 7/6/11

WATER LEVEL DATA			
17	While Drilling (feet)	Time Started:	1008
	At Completion (feet)	Time Completed:	1030
	__ hours after drilling (feet)	Driller:	EnviroCore
		Location:	Former Carpenter Mfg Richmond, IN

Temporary Well Construction Diagram

DEPTH (ft)	SOIL DESCRIPTION	SAMPLE DATA REC (in)	PID (ppm)	MOISTURE CONTENT
21.0	Same as Above (SW) SAND & GRAVEL, fine- to coarse-grained, subrounded to subangular, little fines, wet.	24	-	Wet
22.0				
23.0	End of Boring @ 22 feet			
24.0				
25.0				
26.0				
27.0				
28.0				
29.0				
30.0				
31.0				
32.0				
33.0				
34.0				
35.0				
36.0				
37.0				
38.0				
39.0				
40.0				

NOTES: Temporary Well Set at 22 feet

Logged by: Colin Flaherty

WEAVER BOOS CONSULTANTS LLC
GEO-ENVIRONMENTAL ENGINEERS AND SCIENTISTS

4085 Meghan Beeler Court
South Bend, IN 46628
(574) 271-3447 Tel
(574) 271-3343 Fax

Boring No.: **P-2**

File No.: 2339-353-03

Client: Indiana Brownfields Program

Date of Probe: 7/6/11

WATER LEVEL DATA			
18	While Drilling (feet)	Time Started:	1145
	At Completion (feet)	Time Completed:	1200
	__ hours after drilling (feet)	Driller:	EnviroCore
		Location:	Former Carpenter Mfg Richmond, IN

Temporary Well Construction Diagram

DEPTH (ft)	SOIL DESCRIPTION	SAMPLE DATA REC (in)	PID (ppm)	MOISTURE CONTENT
1.0	Topsoil			
2.0	(ML) Light and dark brown mottled SILT with little sand and fine gravel.	19	0.0	Dry
3.0				
4.0				
5.0	(CL) Dark brownish gray SILTY CLAY with trace coarse-grained sand and fine gravel, medium to low plasticity			
6.0		30	0.0	Dry to Moist
7.0				
8.0				
9.0	Little brown mottling			
10.0		37	0.0	Moist
11.0				
12.0				
13.0	Less clay content, more sand and gravel, low plasticity.			
14.0		42	0.0	Moist
15.0				
16.0				
17.0				Moist
18.0		34	0.0	
19.0	(SW) SAND & GRAVEL, fine- to coarse-grained, subrounded to angular, poorly sorted, wet.			Wet
20.0				

NOTES: Sampled to 20 feet
Temporary Well Set at 22 feet

Logged by: Colin Flaherty

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Boring No.: **P-3**

File No.: 2339-353-03

Client: Indiana Brownfields Program

Date of Probe: 7/6/11

WATER LEVEL DATA			
17	While Drilling (feet)	Time Started:	1100
	At Completion (feet)	Time Completed:	1130
	__ hours after drilling (feet)	Driller:	EnviroCore
		Location:	Former Carpenter Mfg Richmond, IN

Temporary Well Construction Diagram

DEPTH (ft)	SOIL DESCRIPTION	SAMPLE DATA REC (in)	PID (ppm)	MOISTURE CONTENT
	Asphalt			
1.0	(FILL) Gray with little light brown sand/ gravel/fines mixture.			
2.0		38	0.0	Dry
3.0				
4.0				
5.0				
6.0	(CL) Dark brown CLAY with some fine subrounded gravel and coarse-grained sand, medium-plasticity	17	0.0	Dry to Moist
7.0				
8.0				
9.0				
10.0		17	0.0	Moist
11.0				
12.0	(SW) Brown with some black, fine-grained SAND with little fine gravel, odor.		5.1	
13.0				
14.0	(CL) Grayish brown CLAY with some fine gravel and coarse-grained sand, subrounded	48	0.0	Moist
15.0				
16.0				
17.0				Moist
18.0	(SW) SAND & GRAVEL, fine- to coarse-grained, subrounded to angular, little fines, wet.	48	0.0	Wet
19.0				
20.0				

NOTES: Sampled to 20 feet
Temporary Well Set at 22 feet

Logged by: Colin Flaherty

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Boring No.: **P-6**

File No.: 2339-353-03

Client: Indiana Brownfields Program

Date of Probe: 7/6/11

WATER LEVEL DATA			
16.5	While Drilling (feet)	Time Started:	1245
	At Completion (feet)	Time Completed:	1315
	__ hours after drilling (feet)	Driller:	EnviroCore
		Location:	Former Carpenter Mfg Richmond, IN

Temporary Well Construction Diagram

DEPTH (ft)	SOIL DESCRIPTION	SAMPLE DATA REC (in)	PID (ppm)	MOISTURE CONTENT
	Asphalt			
1.0	(ML) Brown and dark gray mottled CLAYEY SILT with some fine gravel.			
2.0		48	0.0	Dry
3.0				
4.0				
5.0	Color changes to light brown with little gray mottling.			
6.0		18	0.0	Dry
7.0				
8.0				
9.0	(CL) Brown silty clay with little fine gravel, low plasticity.			
10.0		34	0.0	Dry to Moist
11.0				
12.0				
13.0				
14.0		48	0.0	Moist
15.0				
16.0				
				Moist
17.0	(SW) SAND & GRAVEL, fine- to coarse-grained sand, fine gravel, subrounded to subangular, trace coarse gravel, odor.			Wet
18.0		48	0.0	
19.0	(CL) Brown silty clay with little fine gravel, medium plasticity			Moist
20.0				

NOTES: Temporary Well Set at 18 feet

Logged by: Colin Flaherty

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Boring No.: **P-6**
File No.: 2339-353-03
Client: Indiana Brownfields Program
Date of Probe: 7/6/11

WATER LEVEL DATA			
16.5	While Drilling (feet)	Time Started:	1245
	At Completion (feet)	Time Completed:	1315
	__ hours after drilling (feet)	Driller:	EnviroCore
		Location:	Former Carpenter Mfg Richmond, IN

Temporary Well Construction Diagram

DEPTH (ft)	SOIL DESCRIPTION	SAMPLE DATA REC (in)	PID (ppm)	MOISTURE CONTENT
21.0	Same as Above (CL) Brown silty clay with little fine gravel, medium plasticity	36	0.0	Wet
22.0	(SW) SAND & GRAVEL, fine- to coarse-grained sand, fine gravel, subrounded to subangular, little coarse gravel, no odor.			
23.0	End of Boring @ 23 feet			
24.0				
25.0				
26.0				
27.0				
28.0				
29.0				
30.0				
31.0				
32.0				
33.0				
34.0				
35.0				
36.0				
37.0				
38.0				
39.0				
40.0				

NOTES: Temporary Well Set at 18 feet

Logged by: Colin Flaherty

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Boring No.: **P-5**

File No.: 2339-353-03

Client: Indiana Brownfields Program

Date of Probe: 7/6/11

WATER LEVEL DATA			
20	While Drilling (feet)	Time Started:	1340
	At Completion (feet)	Time Completed:	1400
	__ hours after drilling (feet)	Driller:	EnviroCore
		Location:	Former Carpenter Mfg Richmond, IN

Temporary Well Construction Diagram

DEPTH (ft)	SOIL DESCRIPTION	SAMPLE DATA REC (in)	PID (ppm)	MOISTURE CONTENT
1.0	Gravel			
2.0	Dark and light brown mottled SILT/CLAY mix, little fine subrounded gravel, low to medium plasticity.	37	0.0	Dry
3.0				
4.0				
5.0	(ML) Dark brown CLAYEY SILT with organics (rootlets, wood fragments)			
6.0		27	0.0	Dry
7.0				
8.0				
9.0	Color changes to brownish gray with little to some fine gravel.			
10.0		29	0.0	Dry
11.0				
12.0				
13.0				Moist
14.0	(SW) SAND & GRAVEL, fine- to coarse, wet.	48	0.0	Wet
15.0	(CL) Gray CLAY with few silt and fine gravel and coarse sand, subrounded.			Moist
16.0				
17.0				
18.0		34	0.0	Moist
19.0				
20.0				

NOTES: Sample to 24 feet
Temporary Well Set at 25 feet

Logged by: Colin Flaherty

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Boring No.: **P-5**
File No.: 2339-353-03
Client: Indiana Brownfields Program
Date of Probe: 7/6/11

WATER LEVEL DATA			
20	While Drilling (feet)	Time Started:	1340
	At Completion (feet)	Time Completed:	1400
	__ hours after drilling (feet)	Driller:	EnviroCore
		Location:	Former Carpenter Mfg Richmond, IN

Temporary Well Construction Diagram

DEPTH (ft)	SOIL DESCRIPTION	SAMPLE DATA REC (in)	PID (ppm)	MOISTURE CONTENT
21.0	(SW) SAND & GRAVEL, fine to coarse, trace coarse gravel, wet.			
22.0		37	0.0	Wet
23.0				
24.0				
25.0	End of Boring @ 24 feet			
26.0				
27.0				
28.0				
29.0				
30.0				
31.0				
32.0				
33.0				
34.0				
35.0				
36.0				
37.0				
38.0				
39.0				
40.0				

NOTES: Sample to 24 feet

Temporary Well Set at 25 feet

Logged by: Colin Flaherty

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Boring No.: **P-4**

File No.: 2339-353-03

Client: Indiana Brownfields Program

Date of Probe: 7/6/11

WATER LEVEL DATA			
17	While Drilling (feet)	Time Started:	1435
	At Completion (feet)	Time Completed:	1500
	__ hours after drilling (feet)	Driller:	EnviroCore
		Location:	Former Carpenter Mfg Richmond, IN

Temporary Well Construction Diagram

DEPTH (ft)	SOIL DESCRIPTION	SAMPLE DATA REC (in)	PID (ppm)	MOISTURE CONTENT
	Asphalt			
1.0	(CL) Dark brownish gray SILTY CLAY with little fine gravel, low to medium plasticity.			
2.0		35	0.0	Dry
3.0				
4.0				
5.0	(ML) Light brown and light gray mottled CLAYEY SILT.			
6.0		25	0.0	Dry
7.0				
8.0				
9.0	(CL) Brown SILTY CLAY with little fine gravel, subrounded.			
10.0		48	0.0	Dry to Moist
11.0				
12.0				
13.0				
14.0		48	0.0	Moist
15.0	Color changes to dark gray.			
16.0				
17.0				Moist
18.0	(SW) SAND & GRAVEL, fine- to coarse-grained, subrounded to angular, fining upward, well to poor sorted.	48	0.0	Wet
19.0	(CL) Dark gray SILTY CLAY with little fine gravel, subrounded.			
20.0				

NOTES: Temporary Well Set at 19 feet

Logged by: Colin Flaherty

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Boring No.: **P-7**

File No.: 2339-353-03

Client: Indiana Brownfields Program

Date of Probe: 7/6/11

WATER LEVEL DATA			
15.5	While Drilling (feet)	Time Started:	1505
	At Completion (feet)	Time Completed:	1525
	__ hours after drilling (feet)	Driller:	EnviroCore
		Location:	Former Carpenter Mfg Richmond, IN

Temporary Well Construction Diagram

DEPTH (ft)	SOIL DESCRIPTION	SAMPLE DATA REC (in)	PID (ppm)	MOISTURE CONTENT
1.0	Gravel (CL) Dark brown SILT/CLAY mix with little to some fine gravel, low plasticity.	42	0.0	Dry
2.0				
3.0				
4.0				
5.0	(ML) Brownish gray CLAYEY SILT with fine gravel and coarse-grained sand.	13	0.0	Dry
6.0				
7.0				
8.0				
9.0	(CL) Dark brown and dark gray mottled SILTY CLAY with little fine gravel and coarse-grained sand.	38	0.0	Dry to Moist
10.0				
11.0				
12.0				
13.0	(ML) Brown CLAYEY SILT with fine gravel and coarse-grained sand.	47	0.0	Moist
14.0				
15.0				
16.0	(SW) SAND & GRAVEL, fine- to coarse-grained, subrounded to angular, fining upward, well to poor sorted.			Wet
17.0		30	0.0	Wet
18.0				
19.0				
20.0				

NOTES: Temporary Well Set at 20 feet

Logged by: Colin Flaherty

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Boring No.: **P-8**

File No.: 2339-353-03

Client: Indiana Brownfields Program

Date of Probe: 7/6/11

WATER LEVEL DATA			
19.5	While Drilling (feet)	Time Started:	1537
	At Completion (feet)	Time Completed:	1600
	__ hours after drilling (feet)	Driller:	EnviroCore
		Location:	Former Carpenter Mfg Richmond, IN

Temporary Well Construction Diagram

DEPTH (ft)	SOIL DESCRIPTION	SAMPLE DATA REC (in)	PID (ppm)	MOISTURE CONTENT
1.0 2.0 3.0 4.0	(FILL) SAND/GRAVEL/FINES mixture	13	0.0	Dry
5.0 6.0 7.0 8.0	(CL) Light brown SILTY CLAY with some fine gravel and trace coarse gravel, subrounded, medium plasticity.	48	0.0	Dry
9.0 10.0 11.0 12.0	Color changes to dark gray, low palsticity.	48	0.0	Dry
13.0 14.0 15.0 16.0	(ML) Dark gray CLAYEY SILT with some fine gravel.	48	0.0	Moist
17.0 18.0 19.0 20.0	(SW) SAND and GRAVEL, fine to coarse, wet.	48	0.0	Moist Wet

NOTES: Temporary Well Set at 22 feet

Logged by: Colin Flaherty

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Boring No.: **P-8**
File No.: 2339-353-03
Client: Indiana Brownfields Program
Date of Probe: 7/6/11

WATER LEVEL DATA			
19.5	While Drilling (feet)	Time Started:	1537
	At Completion (feet)	Time Completed:	1600
	__ hours after drilling (feet)	Driller:	EnviroCore
		Location:	Former Carpenter Mfg Richmond, IN

Temporary Well Construction Diagram

DEPTH (ft)	SOIL DESCRIPTION	SAMPLE DATA REC (in)	PID (ppm)	MOISTURE CONTENT
21.0	Same as Above (SW) SAND & GRAVEL, fine to coarse.			Wet
22.0	(CL) Grayish brown SILTY CLAY with some fine gravel, subrounded.	48	0.0	Moist
23.0				
24.0				
25.0	End of Boring @ 24 feet			
26.0				
27.0				
28.0				
29.0				
30.0				
31.0				
32.0				
33.0				
34.0				
35.0				
36.0				
37.0				
38.0				
39.0				
40.0				

NOTES: Temporary Well Set at 22 feet

Logged by: Colin Flaherty

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Boring No.: P-9

File No.: 2339-353-03-02

Client: Indiana Brownfields Program

Date of Probe: 8/15

WATER LEVEL DATA

_____ While Drilling (feet)
_____ At Completion (feet)
_____ hours after drilling (feet)

Time Started: 1240
Time Completed: 1315
Driller: EnviroCore
Location: Former Carpenter Mfg
Richmond, IN

Temporary Well Construction Diagram

DEPTH (ft)	SOIL DESCRIPTION	SAMPLE DATA REC (in)	PID (ppm)	MOISTURE CONTENT
1.0	Fill, Brown S&G/Fines mix, odor	33"	0*	Dry
2.0				
3.0				
4.0	BN/Gray mottling clay w/ some f-grl little c-sand, med. plas	48"	0	Moist
5.0				
6.0				
7.0				
8.0	Gray clay w/ some f-grl moist, med-plas.	48	0	Moist
9.0				
10.0				
11.0				
12.0	BN silty clay w/ some f-grl and sand.	48	0	Moist
13.0				
14.0	GRADES TO			
15.0	Gray silty clay w/ some f-grl			
16.0				
17.0	BN f-c S&G, wet	48	—	Wet
18.0	Gray silty clay w/ some f-grl.			Moist
19.0				
20.0				

NOTES: P-9 (0-4) @ 1240

Logged by: Colin Flaherty

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Boring No.: P-9
File No.: 2339-353-03-02
Client: Indiana Brownfields Program
Date of Probe: 8/15/12

WATER LEVEL DATA
_____ While Drilling (feet)
_____ At Completion (feet)
_____ hours after drilling (feet)

Time Started: _____
Time Completed: _____
Driller: EnviroCore
Location: Former Carpenter Mfg
Richmond, IN

Temporary Well Construction Diagram

DEPTH (ft)	SOIL DESCRIPTION	SAMPLE DATA REC (in)	PID (ppm)	MOISTURE CONTENT
21.0	BN F-C SDG, wet			
22.0		48"	—	wet
23.0				
24.0				
25.0	END PROBE @ 24'			
26.0	Temp Well @ 24'			
27.0	(10' screen)			
28.0				
29.0				
30.0				
31.0				
32.0				
33.0				
34.0				
35.0				
36.0				
37.0				
38.0				
39.0				
40.0				

NOTES:

Logged by: Colin Flaherty

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Boring No.: P-10

File No.: 2339-353-03-02

Client: Indiana Brownfields Program

Date of Probe: 8/15/18

WATER LEVEL DATA		
____ While Drilling (feet)	Time Started:	1010
____ At Completion (feet)	Time Completed:	1100
____ hours after drilling (feet)	Driller:	EnviroCore
	Location:	Former Carpenter Mfg, Richmond, IN

Temporary Well Construction Diagram

DEPTH (ft)	SOIL DESCRIPTION	SAMPLE DATA REC (in)	PID (ppm)	MOISTURE CONTENT
	Concrete			
1.0–4.0	Fill, Brown/Gray mottled, silt/clay mix w/ f-c sand, odor	10"	52.8*	Moist
5.0–8.0	Brown clay, w/ some fine gravel & trace c-gvl, sub rounded, med. plas. moist, slight odor	48	26*	Moist
9.0–12.0	Gray clay w/ some fine gravel, subrounded and med-c sand, little fine sand & c-gvl, (CF) ~~slight odor~~, med. plas.	48	0	Moist
13.0–16.0	SAA, more of a silty clay	48	0	Moist
17.0–18.0	BN f-c sand & gravel, subrounded to subangular, wet	48	—	Wet
19.0–20.0	Brown clay w/ some sand, moist			Moist

NOTES: P-10 (0-4) @ 1010
P-10 (4-8) @ 1015
→ MS/MSD

Logged by: Colin Flaherty

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WATER LEVEL DATA		
____ While Drilling (feet)	Time Started: ____	
____ At Completion (feet)	Time Completed: ____	
____ hours after drilling (feet)	Driller: EnviroCore	
	Location: Former Carpenter Mfg Richmond, IN	

Temporary Well Construction Diagram

DEPTH (ft)	SOIL DESCRIPTION	SAMPLE DATA REC (in)	PID (ppm)	MOISTURE CONTENT
21.0	SAA, BN Clay, moist			moist
22.0	BN f-c SAG, wet	48	—	wet
23.0				
24.0				
25.0	END of PROBE @ 24' Temp Well set @ 24' (10' screen)			
26.0				
27.0				
28.0				
29.0				
30.0				
31.0				
32.0				
33.0				
34.0				
35.0				
36.0				
37.0				
38.0				
39.0				
40.0				

NOTES:

Logged by: Colin Flaherty

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Boring No.: P-11

File No.: 2339-353-03-02

Client: Indiana Brownfields Program

Date of Probe: 8/15/12

WATER LEVEL DATA		
____ While Drilling (feet)	Time Started:	1120
____ At Completion (feet)	Time Completed:	1210
____ hours after drilling (feet)	Driller:	EnviroCore
	Location:	Former Carpenter Mfg, Richmond, IN

Temporary Well Construction Diagram

DEPTH (ft)	SOIL DESCRIPTION	SAMPLE DATA REC (in)	PID (ppm)	MOISTURE CONTENT
1.0 – 4.0	Fill, Brown, S&G and fines mix.	48	0	Moist
5.0 – 7.0	Bn clay w/ some f-gvl, little c-sand, trace c-gvl, med plas, moist	48	0	Moist
8.0 – 11.0	Gray clay w/ some f-gvl, little fine sand & c-gvl	48	0	Moist
12.0 – 13.0	Brown silty clay w/ some f-gvl & sand	48	1.1*	Moist
14.0 – 15.0	Bn f-c S&G, sub rounded, wet		—	Wet
16.0	Brown clay w/ some S&G		—	Moist
17.0 – 18.0		48	—	Wet
19.0 – 20.0	Bn f-c S&G, wet		—	

NOTES: P-11 (12-14) @ 1140
↳ Dup-1 collected here
EB-1 collected here @ 1200

Logged by: Colin Flaherty

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Boring No.: P11
File No.: 2339-353-03-02
Client: Indiana Brownfields Program
Date of Probe: 8/15/12

WATER LEVEL DATA
_____ While Drilling (feet)
_____ At Completion (feet)
_____ hours after drilling (feet)

Time Started: _____
Time Completed: _____
Driller: EnviroCore
Location: Former Carpenter Mfg
Richmond, IN

Temporary Well Construction Diagram

DEPTH (ft)	SOIL DESCRIPTION	SAMPLE DATA REC (in)	PID (ppm)	MOISTURE CONTENT
21.0	SAA, SDG			
22.0		48	–	Wet
23.0				
24.0				
25.0	END PROBE @ 24'			
26.0	Temp Well @ 23'			
27.0	(10' screen)			
28.0				
29.0				
30.0				
31.0				
32.0				
33.0				
34.0				
35.0				
36.0				
37.0				
38.0				
39.0				
40.0				

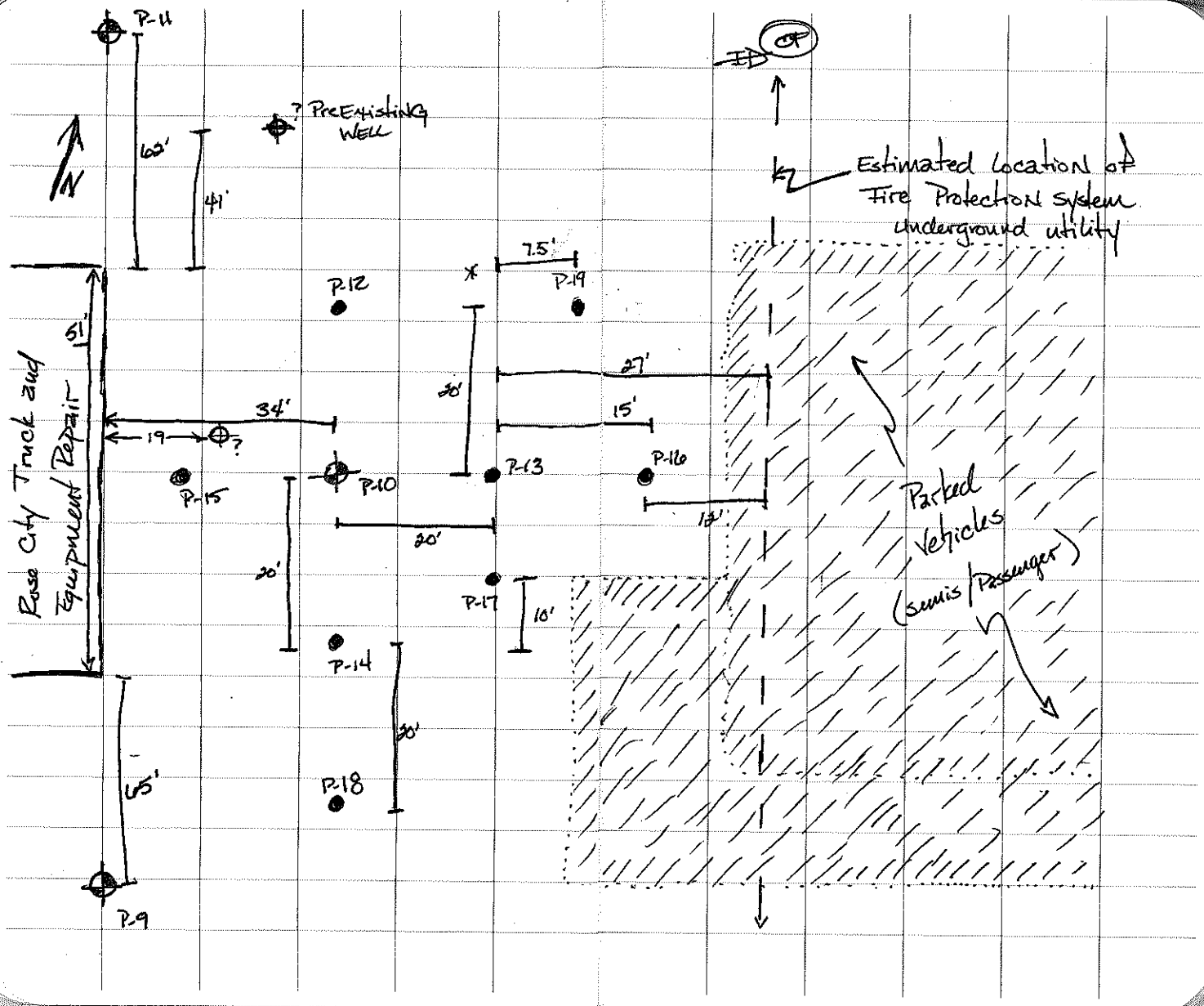
NOTES:

Logged by: Colin Flaherty

Wednesday 8/15/12
Carpenter Manufacturing
Richmond, Indiana
CHaherty onsite @ 800
Activities: Soil probes and temp well installations for supplemental Assessment
Weather: sunny 70°, to be sunny and in low 80's
→ Met w/ utility locators, showed areas of probing
→ EnviroCore (Adam) onsite @ 910
→ Two flush-mount monitoring wells exist near P-10 and P-11.
→ Set Temp Well @ P-10 @ 24'
· screened interval 14'-24'
* P-10 (0-4) @ 1010
* P-10 (4-8) @ 1015
- MS/MSD @ (4-8)

→ Set Temp Well P-11 @ 23'
· screened = 13'-23'
* P-11 (12-14) @ 1140
* Dup-1 * EB-1 (Geoprobe liner)
(Only one soil sample collected based on PID/Visual/olfactory).
→ Spoke w/ Lyle Cable @ PACE RE: DI Water Qty & Equip. Blank bottle sets.
*okay to fill 1-1L Amber each for SVOC and DRO Analysis.
→ Spoke w/ Steve Stanford and Andrea Robertson regarding shift in scope:
- Install 3 temp wells on east side
- then install shallow soil probes around P-10 in an attempt to bracket the apparent contamination observed in the 0-4 interval (PID=528)
- Andrea would like samples to be submitted to the lab from the "delineation" probes.
→ Set Temp Well P-9 @ 24'
· screened = 14'-24'
* P-9 (0-4) @ 1240
· No PID detections, selected one sample based on odor.

ID	Depth	Material	Recov.	PID
P-12	0-4	Fill / S&G & fines mix	4/8	0
	4-8	BN clay w/ some f-gvl.	4/8	0
P-15	0-4	fine-coarse SAND, wet	5/8	0.3
	4-8	(low recovery, soft) fine-coarse SAND, wet	3/8	3.3
P-13	0-4*	Fill, mix S&G & fines, odor	4/8	334ppm
	4-8*	BN, clay w/ some f-gvl	4/8	37.8
P-14	0-4*	Fill, mix ..., odor	4/8	147.7
	4-8*	BN clay w/ some gvl, grades gray	4/8	55.7
P-18	0-4	BN Fill	4/8	0
	4-8	BN clay w/ some f-gvl.	4/8	0


P-11
? PreExisting Well
N
60'
41'
51'
Base City Truck and Equipment Repair
34'
19
?
P-15
P-10
P-12
7.5'
P-19
30'
27'
15'
P-13
P-16
12'
20'
20'
P-17
10'
P-14
30'
P-18
65'
P-9
Estimated Location of Fire Protection system underground utility
Parked Vehicles (semis/Passenger)

ID	Depth	Material	Recov.	PID
P-17	0-4 *	Fill...	4/8	149.2
	4-8	Bn clay...	4/8	0
P-16	0-4 *	Fill... Bn/Gr mott.	4/8	42.4
	4-8	Bn clay...	4/8	0
P-19	0-4	Fill...	4/8	1.4
P-19	4-8	Bn clay...	4/8	0

* = Lab sample

→ END Drilling

→ CHaherty offsite @ ~~1430~~ 1630

8/15/12

Thursday 8/16/12

Carpenter Manufacturing

Richmond, Indiana

CHaherty onsite @ 1015

Activities: GW sampling as part of supplemental assessment

Weather: Sunny, 75°, to be sunny and in upper 80s.

→ Round of Water Levels

ID	DTW	TD	Time
P-9	13.83	22.85	1054
P-10	13.12	21.40	1056
P-11	11.57	21.74	1058

→ Sampled all three temp wells

- P-11 @ 1215
- P-10 @ 1310
  - MS/MSD
- P-9 @ 1415
  - Dup-2
  - Equip-Blank (EB-2) @ 1445

→ Packed all samples in coolers w/ fresh ice

→ Pace Analytical courier (JJ), onsite @ 1500, transferred coolers.

→ offsite @ 1530

8/12/13

WEAVER BOOS CONSULTANTS, LLC

GEO-ENVIRONMENTAL ENGINEERS AND SCIENTISTS

Soil Boring No.: **P-22**

File No.: 2339-353-03-00

Client: Indiana Finance Authority

Date: 3/27/13

WATER LEVEL DATA		Time Started:	13:20
	Ft While Drilling	Time Completed:	13:50
NM	Ft at Completion	Driller:	EnviroCore
	Ft at __ hours after drilling	Location:	8250 Estates Parkway Unit C Plain City, OH

Temporary Well Construction Diagram

DEPTH (ft)	SOIL DESCRIPTION	REC (%)	PID (ppm)	MOISTURE CONTENT
1.0	Asphalt		0.0	
2.0	Dark brown FILL, trace gravel	28		Damp
3.0				
4.0			0.0	
5.0			0.0	
6.0	Brown SILTY CLAY, some gravel			
7.0		33		Damp
8.0			50+	
9.0			50+	
10.0		48		Damp
11.0				
12.0			50+	
13.0			30.0	Damp
14.0		48		
15.0	Brown coarse - very coarse SAND and gravel Note: Stong petroleum odor at 15'			
16.0	Note: Sampled at 15'-17' at 13:50		50+	Wet
17.0			100+	Wet
18.0	Brown SILTY CLAY, trace gravel	40		
19.0				
20.0	End of Probe at 20'		100+	Moist

NOTES: Probe completed as temporary 0.75-inch monitoring well. Logged by: Grant D Baker
Well included 10' of screen and was removed and filled with bentonite chips upon completion of GW sampling.

WEAVER BOOS CONSULTANTS, LLC

GEO-ENVIRONMENTAL ENGINEERS AND SCIENTISTS

Soil Boring No.: **P-23**

File No.: 2339-353-03-00

Client: Indiana Finance Authority

Date: 3/27/13

WATER LEVEL DATA		Time Started:	12:30
	Ft While Drilling	Time Completed:	12:50
NM	Ft at Completion	Driller:	EnviroCore
	Ft at __ hours after drilling	Location:	8250 Estates Parkway Unit C Plain City, OH

Temporary Well Construction Diagram

DEPTH (ft)	SOIL DESCRIPTION	SAMPLE DATA REC (%)	PID (ppm)	MOISTURE CONTENT
	Asphalt			
1.0	Brown SILTY CLAY FILL, some gravel		0.0	
2.0		25		Damp
3.0				
4.0			0.0	
5.0			0.0	
6.0	Brown-gray mottled SILTY CLAY, trace gravel	36		Damp
7.0				
8.0			0.0	
9.0			---	
10.0		39		Damp
11.0				
12.0			---	
13.0	Gray SILTY CLAY, trace gravel		---	Damp
14.0		48		
15.0				
16.0			---	Damp
17.0	Note: 8" medium-coarse sand layer at 17		---	Wet
18.0	Sampled at 15'-17' at 12:50	48		
19.0			---	
20.0	End of Probe at 20'			Damp

No well installed at P-23

NOTES: No well installed at P-23

Logged by: Grant D Baker

WEAVER BOOS CONSULTANTS, LLC

GEO-ENVIRONMENTAL ENGINEERS AND SCIENTISTS

Soil Boring No.: **P-24**

File No.: 2339-353-03-00

Client: Indiana Finance Authority

Date: 3/27/13

WATER LEVEL DATA		Time Started:	10:35
	Ft While Drilling	Time Completed:	10:55
NM	Ft at Completion	Driller:	EnviroCore
	Ft at __ hours after drilling	Location:	8250 Estates Parkway Unit C Plain City, OH

Temporary Well Construction Diagram

DEPTH (ft)	SOIL DESCRIPTION	REC (%)	PID (ppm)	MOISTURE CONTENT
1.0	GRAVEL		0.0	
2.0	Light brown-dark brown mottled SILTY CLAY, trace gravel	24		Damp
3.0				
4.0			0.0	
5.0			0.0	
6.0		21		
7.0	Dark brown SILTY CLAY, trace gravel			Damp
8.0	Note: Sampled at 4'-8' at 10:55		0.0	
9.0			---	
10.0		48		Damp
11.0	Light brown-gray mottled SILTY CLAY, trace gravel			
12.0			---	
13.0			---	Damp
14.0	Brown medium-coarse SAND, some gravel	48		
15.0	Note: Wet at 15'-16'			
16.0			---	Damp
17.0	Gray SILTY CLAY, trace gravel		---	Wet
18.0		42		
19.0				
20.0	End of Probe at 20'		---	Moist

NOTES: Probe completed as temporary 0.75-inch monitoring well. Logged by: Grant D Baker
Well included 10' of screen and was removed and filled with bentonite chips upon completion of GW sampling.

WEAVER BOOS CONSULTANTS, LLC

GEO-ENVIRONMENTAL ENGINEERS AND SCIENTISTS

Soil Boring No.: **P-25**

File No.: 2339-353-03-00

Client: Indiana Finance Authority

Date: 3/27/13

WATER LEVEL DATA		Time Started:	11:25
	Ft While Drilling	Time Completed:	11:40
NM	Ft at Completion	Driller:	EnviroCore
	Ft at __ hours after drilling	Location:	8250 Estates Parkway Unit C Plain City, OH

Temporary Well Construction Diagram

DEPTH (ft)	SOIL DESCRIPTION	REC (%)	PID (ppm)	MOISTURE CONTENT
	Brown TOPSOIL			
1.0	Brown-gray mottled FILL, trace gravel		0.0	
2.0	Brown SILTY CLAY, trace gravel	7		Damp
3.0				
4.0			0.0	
5.0			0.0	
6.0		29		Damp
7.0				
8.0			0.0	
9.0			0.0	
10.0		45		Damp
11.0				
12.0			25.0	
13.0			50.0	Damp
14.0		40		
15.0				
16.0	Gray SILTY CLAY, trace gravel Note: Strong gasoline odor Sampled at 13'-15' at 11:40		50.0	Damp
17.0			50+	Wet
18.0	Gray medium-coarse SAND and GRAVEL	28		
19.0				
20.0	End of Probe at 20'			Wet

NOTES: Probe completed as temporary 0.75-inch monitoring well. Logged by: Grant D Baker
Well included 10' of screen and was removed and filled with bentonite chips upon completion of GW sampling.

WEAVER BOOS CONSULTANTS, LLC

GEO-ENVIRONMENTAL ENGINEERS AND SCIENTISTS

Soil Boring No.: **P-26**

File No.: 2339-353-03-00

Client: Indiana Finance Authority

Date: 3/27/13

WATER LEVEL DATA		Time Started:	10:05
	Ft While Drilling	Time Completed:	10:20
NM	Ft at Completion	Driller:	EnviroCore
	Ft at __ hours after drilling	Location:	8250 Estates Parkway Unit C Plain City, OH

Temporary Well Construction Diagram

DEPTH (ft)	SOIL DESCRIPTION	SAMPLE DATA REC (%)	PID (ppm)	MOISTURE CONTENT
1.0	GRAVEL		0.0	
2.0	Brown SILTY CLAY, trace gravel	24		Damp
3.0				
4.0			0.0	
5.0			0.0	
6.0		38		Damp
7.0				
8.0			0.0	
9.0			---	Damp
10.0		48		
11.0			---	Damp
12.0				
13.0	Dark brown SILTY CLAY, trace gravel			Damp
14.0		48	---	
15.0				
16.0	Note: Wet at 16' Note: Strong odor at 16'			Damp
17.0	Gray GRAVEL		50+	Wet
18.0	Sampled at 12'-16' at 10:20	48		
19.0	MS sampled at 10:25 MSD sampled at 10:30			Wet
20.0	End of Probe at 20'			

NOTES: Probe completed as temporary 0.75-inch monitoring well. Logged by: Grant D Baker
Well included 10' of screen and was removed and filled with bentonite chips upon completion of GW sampling.

WEAVER BOOS CONSULTANTS, LLC

GEO-ENVIRONMENTAL ENGINEERS AND SCIENTISTS

Soil Boring No.: **P-27**

File No.: 2339-353-03-00

Client: Indiana Finance Authority

Date: 3/27/13

WATER LEVEL DATA		Time Started:	9:05
	Ft While Drilling	Time Completed:	9:30
NM	Ft at Completion	Driller:	EnviroCore
	Ft at __ hours after drilling	Location:	8250 Estates Parkway Unit C Plain City, OH

Temporary Well Construction Diagram

DEPTH (ft)	SOIL DESCRIPTION	SAMPLE DATA REC (%)	PID (ppm)	MOISTURE CONTENT
1.0	GRAVEL		0.0	
2.0	Light brown CLAYEY SILT, trace gravel	32		Damp
3.0				
4.0	Gray - brown mottled SILTY CLAY, trace GRAVEL		0.0	
5.0			0.0	
6.0		32		Damp
7.0				
8.0			0.0	
9.0			1.4	Damp
10.0		35		
11.0				
12.0			0.0	Damp
13.0	Gray CLAYEY SILT, trace gravel Note: Sampled at 10'-12' at 9:30 Field Dup sampled at 9:35		1.2	Damp
14.0		40		
15.0				
16.0			4.3	Damp
17.0			3.2	Damp
18.0		41		
19.0				
20.0	End of Probe at 20'		0.0	Damp

NOTES: Probe completed as temporary 0.75-inch monitoring well. Logged by: Grant D Baker
Well included 10' of screen and was removed and filled with bentonite chips upon completion of GW sampling.

WEAVER BOOS CONSULTANTS, LLC

GEO-ENVIRONMENTAL ENGINEERS AND SCIENTISTS

Soil Boring No.: **P-28**

File No.: 2339-353-03-00

Client: Indiana Finance Authority

Date: 3/27/13

WATER LEVEL DATA		Time Started:	9:40
	Ft While Drilling	Time Completed:	9:55
NM	Ft at Completion	Driller:	EnviroCore
	Ft at __ hours after drilling	Location:	8250 Estates Parkway Unit C Plain City, OH

Temporary Well Construction Diagram

DEPTH (ft)	SOIL DESCRIPTION	SAMPLE DATA REC (%)	PID (ppm)	MOISTURE CONTENT
	GRAVEL			
1.0	Black - brown mottled SILTY CLAY, trace GRAVEL		0.0	
2.0		24		Damp
3.0				
4.0			0.0	
5.0			0.0	
6.0		33		Damp
7.0				
8.0	Brown - gray mottled SILTY CLAY, trace GRAVEL		0.0	
	Sampled at 7'-9' at 9:55			
9.0			0.0	Damp
10.0		32		
11.0				
12.0	Brown medium-Coarse SAND, some gravel		0.0	Damp
13.0				Moist
14.0	Note: Wet at 14'-15'	39	---	Wet
15.0	Brown SILTY CLAY, trace gravel			
16.0				Moist
17.0			0	Moist
18.0		41		
19.0				
20.0	End of Probe at 20'		2.9	Moist

NOTES: Probe completed as temporary 0.75-inch monitoring well. Logged by: Grant D Baker
Well included 10' of screen and was removed and filled with bentonite chips upon completion of GW sampling.

WEAVER BOOS CONSULTANTS, LLC

GEO-ENVIRONMENTAL ENGINEERS AND SCIENTISTS

Soil Boring No.: **P-29**

File No.: 2339-353-03-00

Client: Indiana Finance Authority

Date: 3/27/13

WATER LEVEL DATA		Time Started:	11:00
	Ft While Drilling	Time Completed:	11:20
NM	Ft at Completion	Driller:	EnviroCore
	Ft at __ hours after drilling	Location:	8250 Estates Parkway Unit C Plain City, OH

Temporary Well Construction Diagram

DEPTH (ft)	SOIL DESCRIPTION	SAMPLE DATA REC (%)	PID (ppm)	MOISTURE CONTENT
1.0	GRAVEL		0.0	
2.0	Brown SILTY CLAY, trace gravel	20		Damp
3.0				
4.0			0.0	
5.0			0.0	
6.0				
7.0		34		Damp
8.0			0.0	
9.0			0.0	Damp
10.0		39		
11.0				
12.0			0.0	Moist
13.0				Moist
14.0		41	---	
15.0	Note: Sampled at 10'-14' at 11:20 Sand layer at 15' Slight odor at 14'			Moist
16.0				
17.0				Wet
18.0	Brown medium-coarse SAND and GRAVEL	48	---	
19.0				
20.0	End of Probe at 20'			Wet

NOTES: Probe completed as temporary 0.75-inch monitoring well. Logged by: Grant D Baker
Well included 10' of screen and was removed and filled with bentonite chips upon completion of GW sampling.

WEAVER BOOS CONSULTANTS, LLC

GEO-ENVIRONMENTAL ENGINEERS AND SCIENTISTS

Soil Boring No.: **P-30**

File No.: 2339-353-03-00

Client: Indiana Finance Authority

Date: 3/27/13

WATER LEVEL DATA		Time Started:	13:00
	Ft While Drilling	Time Completed:	13:20
NM	Ft at Completion	Driller:	EnviroCore
	Ft at __ hours after drilling	Location:	8250 Estates Parkway Unit C Plain City, OH

Temporary Well Construction Diagram

DEPTH (ft)	SOIL DESCRIPTION	SAMPLE DATA REC (%)	PID (ppm)	MOISTURE CONTENT
	Asphalt			
1.0	Light brown - gray mottled FILL		0.0	
2.0		23		Damp
3.0				
4.0	Gray SILTY CLAY, trace gravel		0.0	
5.0	Brown SILTY CLAY, trace gravel		0.0	
6.0				
7.0		36		Damp
8.0	Note: No soil sample taken at P-30		0.0	
9.0			0.0	
10.0		48		Damp
11.0				
12.0			0.0	
13.0	Note: Limestone layer at 13'-13.5'		0.0	Damp
14.0		37		
15.0				
16.0			0.0	Damp
17.0	Grayish brown SILTY CLAY, trace gravel		50+	Moist
18.0		35		
19.0	Gray coarse-very coarse SAND			
20.0	Note: Odor at 18' End of Probe at 20'			Wet

NOTES: Probe completed as temporary 0.75-inch monitoring well. Logged by: Grant D Baker
Well included 10' of screen and was removed and filled with bentonite chips upon completion of GW sampling. No soil sample taken at this probe location.

WEAVER BOOS CONSULTANTS LLC
GEO-ENVIRONMENTAL ENGINEERS AND SCIENTISTS

4085 Meghan Beeler Court
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(574) 271-3343 Fax

Monitoring Well No.: **WB-1**
File No.: 2339352-03
Client: Indiana Brownfields Program
Date of Probe: 6/4/2013

WATER LEVEL DATA

16	While Drilling (feet)
NM	At Completion (feet)
	hours after drilling

Time Started: 1900
Time Completed: 2005
Driller: EnviroCore
Location: Former Carpenter Mfg
Richmond, Indiana

El. (ft) Depth

Northing: 1,682,887.0 Easting: 538,086.0

Finished with 10 in. flush mount casing

DEPTH (ft)	SOIL DESCRIPTION	SAMPLE DATA REC (in)	PID (ppm)	MOISTURE CONTENT
	Asphalt			
1.0	Brown, SILTY CLAY, trace gravel			Dry
2.0	Note: Strong gasoline odor	11	6.7	
3.0				
4.0				Damp
5.0			3.5	Damp
6.0		38		
7.0				
8.0			3.8	Damp
9.0			3.0	Damp
10.0		46		
11.0				
12.0			0.0	Damp
13.0			5.0	Damp
14.0		45	3.8	Damp
15.0	Brown, medium-very coarse SAND and GRAVEL			
16.0	Note: very strong gasoline odor		371.0	Wet
17.0			780	Wet
18.0		35	11..0	Moist
19.0	Grayish-brown SILTY CLAY, trace gravel			
20.0	Well installed at 20' EOB at 20'		0.5	Moist

1061.44

Bentonite

#5 SAND

Pre-packed #10 Well Screen

NOTES: Probe completed as permanent 2 in. Monitoring Well with 10' of pre-packed #10 well screen.
Logged by: Grant Baker, checked by S.Stanford, IN LPG #968

WEAVER BOOS CONSULTANTS LLC
GEO-ENVIRONMENTAL ENGINEERS AND SCIENTISTS

4085 Meghan Beeler Court
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Monitoring Well No.: **WB-2**
File No.: 2339352-03
Client: Indiana Brownfields Program
Date of Probe: 6/4/2013

WATER LEVEL DATA

19	While Drilling (feet)
NM	At Completion (feet)
	hours after drilling

Time Started: 1415
Time Completed: 1530
Driller: EnviroCore
Location: Former Carpenter Mfg
Richmond, Indiana

El. (ft) Depth

Northing: 1,682,892.0 Easting: 537,930.0

DEPTH (ft)	SOIL DESCRIPTION	SAMPLE DATA REC (in)	PID (ppm)	MOISTURE CONTENT
	Asphalt			
1.0	Gray-Brown Mottled SILTY CLAY, trace gravel			Dry
2.0		8	2.2	
3.0	Brown-Gray Mottled SILTY CLAY, some gravel			
4.0				Damp
5.0			4.1	Damp
6.0		28		
7.0				
8.0			7.0	Damp
9.0			0.0	Damp
10.0		37		
11.0				
12.0			0.0	Damp
13.0	Gray, SILTY CLAY, some gravel		0.0	Damp
14.0		47		
15.0				
16.0			0.0	Damp
17.0			0.0	Damp
18.0		25		Moist
19.0				
20.0	Brown medium-very coarse SAND Note: Wet at 19'		0.0	Wet

Finished with 10 in. flush mount casing

1061.69

Bentonite

#5 SAND

Pre-packed #10 Well Screen

NOTES: Probe completed as permanent 2 in. Monitoring Well with 10' of pre-packed #10 well screen.
Logged by: Grant Baker, checked by S.Stanford, IN LPG #968

WEAVER BOOS CONSULTANTS LLC
GEO-ENVIRONMENTAL ENGINEERS AND SCIENTISTS

4085 Meghan Beeler Court
South Bend, IN 46628
(574) 271-3447 Tel
(574) 271-3343 Fax

Monitoring Well No.: **WB-2**
File No.: 2339352-03
Client: Indiana Brownfields Program

WATER LEVEL DATA		Time Started:	1415	Date of Probe:	6/4/2013
19	While Drilling (feet)	Time Completed:	1530		
NM	At Completion (feet)	Driller:	EnviroCore		
	hours after drilling	Location:	Former Carpenter Mfg		
			Richmond, Indiana		

Northing: 1,682,892.0 Easting: 537,930.0

DEPTH (ft)	SOIL DESCRIPTION	SAMPLE DATA REC (in)	PID (ppm)	MOISTURE CONTENT	El. (ft)	Depth
21.0	Brown medium-coarse SAND					#5 SAND
22.0		24	0.0	Wet		
23.0						
24.0	Well installed at 23.5' EOB at 24'					Pre-packed #10 Well Screen
25.0						
26.0						
27.0						
28.0						
29.0						
30.0						
31.0						
32.0						
33.0						
34.0						
35.0						
36.0						
37.0						
38.0						
39.0						
40.0						

NOTES: Probe completed as permanent 2 in. Monitoring Well with 10' of pre-packed #10 well screen.
Logged by: Grant Baker, checked by S.Stanford, IN LPG #968

WEAVER BOOS CONSULTANTS LLC
GEO-ENVIRONMENTAL ENGINEERS AND SCIENTISTS

4085 Meghan Beeler Court
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Monitoring Well No.: **WB-3**
File No.: 2339352-03
Client: Indiana Brownfields Program
Date of Probe: 6/4/2013

WATER LEVEL DATA

20	While Drilling (feet)
NM	At Completion (feet)
	hours after drilling

Time Started: 1600
Time Completed: 1700
Driller: EnviroCore
Location: Former Carpenter Mfg
Richmond, Indiana

El. (ft) Depth

Northing: 1,628,759.0 Easting: 537,780.0

Finished with 10 in. flush mount casing

DEPTH (ft)	SOIL DESCRIPTION	REC (in)	PID (ppm)	MOISTURE CONTENT
	GRAVEL			
1.0	Brown, SILTY CLAY, some gravel			Dry
2.0		17	0.0	
3.0				
4.0				Damp
5.0			0.0	Damp
6.0		36		
7.0			0.0	Damp
8.0				
9.0			0.0	Damp
10.0	Light Brown-Gray Mottled SILTY CLAY, trace gravel	40		
11.0			0.0	Damp
12.0	Gray-Brown Mottled SILTY CLAY, trace GRAVEL			
13.0	Note: 8 in SAND at 13'		0.0	Moist
14.0		36		
15.0	Brown, SITLY CLAY, some gravel			
16.0			0.0	Moist
17.0			0.0	Moist
18.0		48		
19.0				
20.0			0.0	Moist

1059.98

Bentonite

#5 SAND

Pre-packed #10 Well Screen

NOTES: Probe completed as permanent 2 in. Monitoring Well with 10' of pre-packed #10 well screen.
Logged by: Grant Baker, checked by S.Stanford, IN LPG #968

WEAVER BOOS CONSULTANTS LLC
GEO-ENVIRONMENTAL ENGINEERS AND SCIENTISTS

4085 Meghan Beeler Court
South Bend, IN 46628
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(574) 271-3343 Fax

Monitoring Well No.: **WB-3**
File No.: 2339352-03
Client: Indiana Brownfields Program
Date of Probe: 6/4/2013

WATER LEVEL DATA

20	While Drilling (feet)
NM	At Completion (feet)
	hours after drilling

Time Started: 1600
Time Completed: 1700
Driller: EnviroCore
Location: Former Carpenter Mfg
Richmond, Indiana

Northing: 1,628,759.0 Easting: 537,780.0

DEPTH (ft)	SOIL DESCRIPTION	SAMPLE DATA REC (in)	PID (ppm)	MOISTURE CONTENT	El. (ft)	Depth
21.0	Brown, fine-medium SAND		0.0	Wet		#5 SAND
22.0		36				
23.0						
24.0	Brown, coarse-very coarse SAND and GRAVEL		0.0	Wet		
25.0	Well installed at 23' EOB at 24'					
26.0						
27.0						
28.0						
29.0						
30.0						
31.0						
32.0						
33.0						
34.0						
35.0						
36.0						
37.0						
38.0						
39.0						
40.0						

Pre-packed #10 Well Screen

NOTES: Probe completed as permanent 2 in. Monitoring Well with 10' of pre-packed #10 well screen.
Logged by: Grant Baker, checked by S.Stanford, IN LPG #968

WEAVER BOOS CONSULTANTS LLC
GEO-ENVIRONMENTAL ENGINEERS AND SCIENTISTS

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Monitoring Well No.: **WB-4**
File No.: 2339352-03
Client: Indiana Brownfields Program
Date of Probe: 6/5/2013

WATER LEVEL DATA

15	While Drilling (feet)
NM	At Completion (feet)
	hours after drilling

Time Started: 1005
Time Completed: 1115
Driller: EnviroCore
Location: Former Carpenter Mfg
Richmond, Indiana

Northing: 1,682,606.0 Easting: 537,847.0

El. (ft) Depth

Finished with 10 in. flush mount casing

DEPTH (ft)	SOIL DESCRIPTION	REC (in)	PID (ppm)	MOISTURE CONTENT
	Brown, FILL			
1.0	Brown, SILTY CLAY, trace gravel			Damp
2.0		9	0.0	
3.0				
4.0				Damp
5.0	Brown-Gray Mottled SILTY CLAY, some gravel		0.0	Damp
6.0				
7.0		40	0.0	
8.0			0.0	Damp
9.0			0.0	Damp
10.0		46	0.0	
11.0				
12.0			0.0	Damp
13.0			0.0	Damp
14.0		46	0.0	
15.0	Gray, medium-coarse SAND			
16.0			0.0	Wet
17.0	Grayish Brown SILTY CLAY, trace gravel		0.0	Moist
18.0		39		
19.0	Brown, SILTY CLAY, trace gravel			
20.0			0.0	Moist

1057.27

Bentonite

#5 SAND

Pre-packed #10 Well Screen

NOTES: Probe completed as permanent 2 in. Monitoring Well with 10' of pre-packed #10 well screen.
Logged by: Grant Baker, checked by S.Stanford, IN LPG #968

WEAVER BOOS CONSULTANTS LLC
GEO-ENVIRONMENTAL ENGINEERS AND SCIENTISTS

4085 Meghan Beeler Court
South Bend, IN 46628
(574) 271-3447 Tel
(574) 271-3343 Fax

Monitoring Well No.: **WB-4**
File No.: 2339352-03
Client: Indiana Brownfields Program

WATER LEVEL DATA		Time Started:	1005	Date of Probe:	6/5/2013
15	While Drilling (feet)	Time Completed:	1115		
NM	At Completion (feet)	Driller:	EnviroCore		
	hours after drilling	Location:	Former Carpenter Mfg		
			Richmond, Indiana		

Northing: 1,682,606.0 Easting: 537,847.0

DEPTH (ft)	SOIL DESCRIPTION	SAMPLE DATA REC (in)	PID (ppm)	MOISTURE CONTENT	El. (ft)	Depth
21.0			0.0	Moist		
22.0	Brown, medium-very coarse SAND, trace gravel	48		Wet		
23.0	Brown, SILTY CLAY, trace gravel		0.0	Moist		
24.0						
25.0	Well installed at 23.5' EOB at 24'					
26.0						
27.0						
28.0						
29.0						
30.0						
31.0						
32.0						
33.0						
34.0						
35.0						
36.0						
37.0						
38.0						
39.0						
40.0						

#5 SAND

Pre-packed #10 Well Screen

NOTES: Probe completed as permanent 2 in. Monitoring Well with 10' of pre-packed #10 well screen.
Logged by: Grant Baker, checked by S.Stanford, IN LPG #968

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Monitoring Well No.: **WB-5**
File No.: 2339352-03
Client: Indiana Brownfields Program
Date of Probe: 6/4/2013

WATER LEVEL DATA

19	While Drilling (feet)
NM	At Completion (feet)
	hours after drilling

Time Started: 1730
Time Completed: 1830
Driller: EnviroCore
Location: Former Carpenter Mfg
Richmond, Indiana

El. (ft) Depth

Northing: 1,682,660.0 Easting: 538,091.0

Finished with 10 in. flush mount casing

DEPTH (ft)	SOIL DESCRIPTION	REC (in)	PID (ppm)	MOISTURE CONTENT
	Asphalt			
1.0	Brown, SILTY CLAY, trace gravel		0.0	Dry
2.0		19		
3.0				
4.0			0.0	Damp
5.0			0.0	Damp
6.0				
7.0		25	0.0	
8.0			0.0	Damp
9.0			0.0	Damp
10.0	Note: 2" fine-medium SAND at 10'	27		
11.0				
12.0			0.0	Damp
13.0			0.0	Damp
14.0	Note: 1" gravel at 14'	41		
15.0				
16.0	Note: some gravel from 16'-20'		0.0	Damp
17.0			0.0	Damp
18.0		41		
19.0				
20.0	Gray-Brown GRAVEL and SAND		0.0	Wet

1061.22

Bentonite

#5 SAND

Pre-packed #10 Well Screen

NOTES: Probe completed as permanent 2 in. Monitoring Well with 10' of pre-packed #10 well screen.
Logged by: Grant Baker, checked by S.Stanford, IN LPG #968

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South Bend, IN 46628
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Monitoring Well No.: **WB-5**
File No.: 2339352-03
Client: Indiana Brownfields Program

WATER LEVEL DATA		Time Started:	1730	Date of Probe:	6/4/2013
19	While Drilling (feet)	Time Completed:	1830		
NM	At Completion (feet)	Driller:	EnviroCore		
	hours after drilling	Location:	Former Carpenter Mfg		
			Richmond, Indiana		

Northing: 1,682,660.0 Easting: 538,091.0

DEPTH (ft)	SOIL DESCRIPTION	SAMPLE DATA REC (in)	PID (ppm)	MOISTURE CONTENT	El. (ft)	Depth
21.0	Brown, medium-coarse SAND		0.0	Wet		#5 SAND
22.0	Brown, coarse-very coarse SAND and GRAVEL	40				
23.0	Brown, SILTY CLAY, trace gravel		0.0	Moist		
24.0						
25.0	Well installed at 23.5' EOB at 24'					Pre-packed #10 Well Screen
26.0						
27.0						
28.0						
29.0						
30.0						
31.0						
32.0						
33.0						
34.0						
35.0						
36.0						
37.0						
38.0						
39.0						
40.0						

NOTES: Probe completed as permanent 2 in. Monitoring Well with 10' of pre-packed #10 well screen.
Logged by: Grant Baker, checked by S.Stanford, IN LPG #968

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South Bend, IN 46628
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Monitoring Well No.: **WB-6**
File No.: 2339352-03
Client: Indiana Brownfields Program
Date of Probe: 6/5/2013

WATER LEVEL DATA
14.5 While Drilling (feet)
NM At Completion (feet)
hours after drilling

Time Started: 1415
Time Completed: 1500
Driller: EnviroCore
Location: Former Carpenter Mfg
Richmond, Indiana

El. (ft) Depth

Northing: 1,682,551.0 Easting: 538,034.0

Finished with 10 in. flush mount casing

DEPTH (ft)	SOIL DESCRIPTION	SAMPLE DATA REC (in)	PID (ppm)	MOISTURE CONTENT
	Gravel			
1.0	Brown, SILTY CLAY, trace gravel			Dry
2.0		7	0.0	
3.0				
4.0				Damp
5.0			0.0	Damp
6.0		33		
7.0			0.0	Damp
8.0				
9.0			0.0	Damp
10.0		32		
11.0			0.0	Damp
12.0				
13.0			0.0	Damp
14.0		40		
15.0	Brown, medium-very coarse SAND		0.0	Wet
16.0				
17.0	Brown, SILTY CLAY, trace gravel		0.0	Wet
18.0		48		
19.0	Brown, medium-very coarse SAND, some gravel		0.0	Wet
20.0				

1057.72

Bentonite

#5 SAND

Pre-packed #10 Well Screen

NOTES: Probe completed as permanent 2 in. Monitoring Well with 10' of pre-packed #10 well screen.
Logged by: Grant Baker, checked by S.Stanford, IN LPG #968

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South Bend, IN 46628
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(574) 271-3343 Fax

Monitoring Well No.: **WB-6**
File No.: 2339352-03
Client: Indiana Brownfields Program
Date of Probe: 6/5/2013

WATER LEVEL DATA

14.5	While Drilling (feet)	Time Started:	1415
NM	At Completion (feet)	Time Completed:	1500
	hours after drilling	Driller:	EnviroCore
		Location:	Former Carpenter Mfg
			Richmond, Indiana

Northing: 1,682,551.0 Easting: 538,034.0

DEPTH (ft)	SOIL DESCRIPTION	SAMPLE DATA REC (in)	PID (ppm)	MOISTURE CONTENT	El. (ft)	Depth
21.0			0.0	Wet		
22.0	Grayish-brown, SILTY CLAY, trace gravel	48				
23.0						
24.0			0.0	Wet		
25.0	Well installed at 24' EOB at 24'					
26.0						
27.0						
28.0						
29.0						
30.0						
31.0						
32.0						
33.0						
34.0						
35.0						
36.0						
37.0						
38.0						
39.0						
40.0						

#5 SAND

Pre-packed #10 Well Screen

NOTES: Probe completed as permanent 2 in. Monitoring Well with 10' of pre-packed #10 well screen.
Logged by: Grant Baker, checked by S.Stanford, IN LPG #968

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4085 Meghan Beeler Court
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Monitoring Well No.: **WB-7**
File No.: 2339352-03
Client: Indiana Brownfields Program
Date of Probe: 6/5/2013

WATER LEVEL DATA

17	While Drilling (feet)
NM	At Completion (feet)
	hours after drilling

Time Started: 815
Time Completed: 930
Driller: EnviroCore
Location: Former Carpenter Mfg
Richmond, Indiana

Northing: 1,682,503.0 Easting: 538,080.0

El. (ft) Depth

Finished with 10 in. flush mount casing

DEPTH (ft)	SOIL DESCRIPTION	REC (in)	PID (ppm)	MOISTURE CONTENT
	Gravel			
1.0	Brown, SILTY CLAY, trace gravel		17.0	Dry
2.0		16		
3.0			16.8	Damp
4.0				
5.0			5.8	Damp
6.0		22		
7.0			0.0	Damp
8.0				
9.0			0.0	Damp
10.0		13		
11.0			0.0	Damp
12.0				
13.0	Gray SILTY CLAY, trace gravel		4.1	Damp
14.0		34		
15.0			0.2	Damp
16.0				
17.0			0.0	Wet
18.0	Brown, fine-medium SAND	48		
19.0				
20.0	Brown, medium-very coarse SAND		0.0	Wet

1059.01

Bentonite

#5 SAND

Pre-packed #10 Well Screen

NOTES: Probe completed as permanent 2 in. Monitoring Well with 10' of pre-packed #10 well screen.
Logged by: Grant Baker, checked by S.Stanford, IN LPG #968

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(574) 271-3343 Fax

Monitoring Well No.: **WB-7**
File No.: 2339352-03
Client: Indiana Brownfields Program

WATER LEVEL DATA
17 While Drilling (feet)
NM At Completion (feet)
hours after drilling

Time Started: 815
Time Completed: 930
Driller: EnviroCore
Location: Former Carpenter Mfg
Richmond, Indiana

Date of Probe: 6/5/2013

Northing: 1,682,503.0 Easting: 538,080.0

DEPTH (ft)	SOIL DESCRIPTION	SAMPLE DATA REC (in)	PID (ppm)	MOISTURE CONTENT	El. (ft)	Depth
21.0			0.0	Wet		#5 SAND
22.0	Brown, SILTY CLAY, trace gravel	48		Damp		
23.0	Well installed at 21' EOB at 22'					
24.0						
25.0						
26.0						
27.0						
28.0						
29.0						
30.0						
31.0						
32.0						
33.0						
34.0						
35.0						
36.0						
37.0						
38.0						
39.0						
40.0						

Pre-packed #10 Well Screen

NOTES: Probe completed as permanent 2 in. Monitoring Well with 10' of pre-packed #10 well screen.
Logged by: Grant Baker, checked by S.Stanford, IN LPG #968

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Monitoring Well No.: **WB-8**
File No.: 2339352-03
Client: Indiana Brownfields Program
Date of Probe: 6/5/2013

WATER LEVEL DATA

16	While Drilling (feet)
NM	At Completion (feet)
	hours after drilling

Time Started: 1210
Time Completed: 1305
Driller: EnviroCore
Location: Former Carpenter Mfg
Richmond, Indiana

El. (ft) Depth

Northing: 1,682,740.0 Easting: 537,918.0

Finished with 10 in. flush mount casing

DEPTH (ft)	SOIL DESCRIPTION	REC (in)	PID (ppm)	MOISTURE CONTENT
	Asphalt			
1.0	Gray-Brown Mottled SILTY CLAY, trace gravel			
2.0		8	0.0	Dry
3.0				
4.0	Brown. SILTY CLAY, trace gravel			
5.0			0.0	Damp
6.0		39		
7.0			0.0	Damp
8.0				
9.0			0.0	Damp
10.0		48		
11.0			0.0	Damp
12.0				
13.0	Dark Brown, SILTY CLAY, trace gravel		0.0	Damp
14.0		48		
15.0			0.0	Damp
16.0				
17.0	Blackish brown medium-coarse SAND Note: Strong petroleum odor		123 743	Moist
18.0		48	37.3	Wet
19.0	Brown, SILTY CLAY, trace gravel		19.7	
20.0	Well installed at 18' EOB at 20'		3	Moist

1061.1

Bentonite

#5 SAND

Pre-packed #10 Well Screen

NOTES: Probe completed as permanent 2 in. Monitoring Well with 10' of pre-packed #10 well screen.
Logged by: Grant Baker, checked by S.Stanford, IN LPG #968

WEAVER BOOS CONSULTANTS LLC
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4085 Meghan Beeler Court
South Bend, IN 46628
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(574) 271-3343 Fax

Monitoring Well No.: **WB-9**
File No.: 2339352-03
Client: Indiana Brownfields Program
Date of Probe: 6/5/2013

WATER LEVEL DATA

21	While Drilling (feet)
NM	At Completion (feet)
	hours after drilling

Time Started: 1530
Time Completed: 1730
Driller: EnviroCore
Location: Former Carpenter Mfg
Richmond, Indiana

El. (ft) Depth

Northing: 1,682,425.0 Easting: 537,714.0

Finished with 10 in. flush mount casing

DEPTH (ft)	SOIL DESCRIPTION	REC (in)	PID (ppm)	MOISTURE CONTENT
	Brown, FILL			
1.0	Light Brown, SILTY CLAY, trace gravel		9.6	Damp
2.0		12		
3.0			0.1	Damp
4.0				
5.0			0.0	Damp
6.0	Dark Brown, SILTY CLAY, trace gravel			
7.0		26		
8.0			0.0	Damp
9.0	Black, SILTY SAND, trace gravel		0.0	Damp
10.0	Gray-Brown Mottled, SILTY CLAY, trace gravel	38		
11.0				
12.0			0.0	Damp
13.0			0.0	Damp
14.0		40		
15.0				
16.0			0.0	Damp
17.0	Brown, SILTY CLAY, trace gravel		0.0	Damp
18.0		25		
19.0				
20.0			0.0	Damp

1058.92

Bentonite

#5 SAND

Pre-packed #10 Well Screen

NOTES: Probe completed as permanent 2 in. Monitoring Well with 10' of pre-packed #10 well screen.
Logged by: Grant Baker, checked by S.Stanford, IN LPG #968

WEAVER BOOS CONSULTANTS LLC
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4085 Meghan Beeler Court
South Bend, IN 46628
(574) 271-3447 Tel
(574) 271-3343 Fax

Monitoring Well No.: **WB-9**
File No.: 2339352-03
Client: Indiana Brownfields Program

WATER LEVEL DATA		Time Started:	1530	Date of Probe:	6/5/2013
21	While Drilling (feet)	Time Completed:	1730		
NM	At Completion (feet)	Driller:	EnviroCore		
	hours after drilling	Location:	Former Carpenter Mfg		
			Richmond, Indiana		

Northing: 1,682,425.0 Easting: 537,714.0

DEPTH (ft)	SOIL DESCRIPTION	SAMPLE DATA REC (in)	PID (ppm)	MOISTURE CONTENT
21.0	Gray, medium-very coarse SAND and GRAVEL		0.0	Wet
22.0	Brown, medium-very coarse SAND and GRAVEL	7		
23.0	Gray, SILTY CLAY, trace gravel			
24.0			0.0	Wet
25.0			0.0	Wet
26.0	Well installed at 25'			Moist
27.0		41		
28.0			0.0	Moist
29.0	EOB at 28'			
30.0				
31.0				
32.0				
33.0				
34.0				
35.0				
36.0				
37.0				
38.0				
39.0				
40.0				

El. (ft) Depth

#5 SAND

Pre-packed #10 Well Screen

NOTES: Probe completed as permanent 2 in. Monitoring Well with 10' of pre-packed #10 well screen.
Logged by: Grant Baker, checked by S.Stanford, IN LPG #968

APPENDIX D

Groundwater Sampling Field Forms

WEAVER BOOS CONSULTANTS, LLC
4085 Meghan Beeler Court, South Bend, IN 46628

FIELD SURVEY REPORT
GROUNDWATER MONITORING

File No.: 2339-353-03
Facility: Carpenter
Address: Richmond, IN
Project Name:
Date: 7/7/11

Sample I.D.: P-1 Sample Source:

Type of Sample: (Groundwater) Surface Water Leachate Other:

Equipment Used: Purging Bladder Pump Dedicated (Y / N)
Sampling " / Dis. Bailer Dedicated (Y / N)

PURGING INFORMATION

Purge Date 7/7 Start Purge 1237 End Purge 1250

Water Volume in Casing (gallons) 0.52 Volume purged (gallons)
2-inch well has 0.163 gallons/foot

MEASUREMENTS

Well Diameter	1	(inches)						
Stick up	–	(feet)	pH	7.39	7.36	7.35		(std.)
Water Level	8.11	(feet)	SC	900	800	800		(umhos/cm)
Total Depth	21.00	(feet)	Temp	22.0	21.9	21.9		(C)
Height of Water Col.	12.89	(feet)	Turbidity	>1000	>1000	>1000		(NTU)

Note: Purge 2 casing volumes, then measure field parameters. Measure field parameters after each additional 1/2 well volume purged until RPDs <10% between last two measurements.

WELL RECHARGE
(circle one)
Very Poor Poor Fair Moderate (Good) Very Good

SAMPLE INFORMATION

Sampling Date: 7/7
Sampling Time: 1250
Sample Appearance/Odor: brown turbid
Weather Conditions: Sunny, 85°, 0-5 West

Comments: Pump/Tubing Vol. = 105 mL
HCl Effervescence

Sampler Name (Print): Alex Flaherty Signature:

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WEAVER BOOS CONSULTANTS, LLC
4085 Meghan Beeler Court, South Bend, IN 46628

FIELD SURVEY REPORT
GROUNDWATER MONITORING

File No.: 2339-353-03
Facility: Carpenter
Address: Richmond, IN
Project Name:
Date: 7/7/11

Sample I.D.: P-2 Sample Source:

Type of Sample: (Groundwater) Surface Water Leachate Other:

Equipment Used: Purging Bladder Pump Dedicated (Y / N)
Sampling " / Dis. Bailer Dedicated (Y / N)

PURGING INFORMATION

Purge Date 7/7 Start Purge 1300 End Purge 1215

Water Volume in Casing (gallons) 0.54 Volume purged (gallons)
2-inch well has 0.163 gallons/foot

MEASUREMENTS

Well Diameter	1	(inches)						
Stick up	–	(feet)	pH	7.34	7.29	7.26		(std.)
Water Level	10.83	(feet)	SC	800	800	800		(umhos/cm)
Total Depth	24.20	(feet)	Temp	21.9	21.9	21.8		(C)
Height of Water Col.	13.37	(feet)	Turbidity	>1000	>1000	>1000		(NTU)

Note: Purge 2 casing volumes, then measure field parameters. Measure field parameters after each additional 1/2 well volume purged until RPDs <10% between last two measurements.

WELL RECHARGE
(circle one)
Very Poor Poor Fair Moderate (Good) Very Good

SAMPLE INFORMATION

Sampling Date: 7/7
Sampling Time: 1215
Sample Appearance/Odor: Brown, turbid
Weather Conditions: Sunny, 85, 0-5 West

Comments: Pump/Tubing Vol. = 130 mL
Equipment blank collected here @ 1130 (EB)
HCl Effervescence

Sampler Name (Print): Colin Flaherty Signature:

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WEAVER BOOS CONSULTANTS, LLC
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FIELD SURVEY REPORT
GROUNDWATER MONITORING

File No.: 2339 - 353-03
Facility: Carpenter
Address: Richmond, IN
Project Name:
Date: 7/7/11

Sample I.D.: P-3 Sample Source:

Type of Sample: (Groundwater) Surface Water Leachate Other:

Equipment Used: Purging Bladder Pump Dedicated (Y / N)
Sampling " / Dis. Bailer Dedicated (Y / N)

PURGING INFORMATION

Purge Date 7/7 Start Purge 1315 End Purge 1330

Water Volume in Casing (gallons) 0.5 Volume purged (gallons)
2-inch well has 0.163 gallons/foot

MEASUREMENTS

Well Diameter	1	(inches)						
Stick up	–	(feet)	pH	7.37	7.32	7.31		(std.)
Water Level	8.62	(feet)	SC	900	900	900		(umhos/cm)
Total Depth	21.02	(feet)	Temp	21.7	21.6	21.6		(C)
Height of Water Col.	12.4	(feet)	Turbidity	>1000	>1000	>1000		(NTU)

Note: Purge 2 casing volumes, then measure field parameters. Measure field parameters after each additional 1/2 well volume purged until RPDs <10% between last two measurements.

WELL RECHARGE
(circle one)
Very Poor Poor Fair Moderate (Good) Very Good

SAMPLE INFORMATION

Sampling Date: 7/7
Sampling Time: 1330
Sample Appearance/Odor: Brown, turbid
Weather Conditions: Partly Cloudy 85°, 0-10 WNW

Comments: Pump/Tubing Vol. = 105 mL
HCl Effervescence

Sampler Name (Print): Colin Fitzherty Signature:

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WEAVER BOOS CONSULTANTS, LLC
4085 Meghan Beeler Court, South Bend, IN 46628

FIELD SURVEY REPORT
GROUNDWATER MONITORING

File No.: 2339 - 353-03
Facility: Carpenter
Address: Richmond, IN
Project Name:
Date: 7/7

Sample I.D.: P-4 Sample Source:

Type of Sample: (Groundwater) Surface Water Leachate Other:

Equipment Used: Purging Bladder Pump Dedicated (Y / N)
Sampling " / Dis bailer Dedicated (Y / N)

PURGING INFORMATION

Purge Date 7/7 Start Purge 939 End Purge 950

Water Volume in Casing (gallons) 6.18 Volume purged (gallons)
2-inch well has 0.163 gallons/foot

MEASUREMENTS

Well Diameter	1	(inches)						
Stick up	—	(feet)	pH	7.39	7.41	7.44		(std.)
Water Level	14.05	(feet)	SC	1100	1100	1100		(umhos/cm)
Total Depth	18.55	(feet)	Temp	20.4	20.3	20.3		(C)
Height of Water Col.	4.5	(feet)	Turbidity	>1000	>1000	>1000		(NTU)

Note: Purge 2 casing volumes, then measure field parameters. Measure field parameters after each additional 1/2 well volume purged until RPDs <10% between last two measurements.

WELL RECHARGE
(circle one)
Very Poor (Poor) (Fair) Moderate Good Very Good

SAMPLE INFORMATION

Sampling Date: 7/7
Sampling Time: 950
Sample Appearance/Odor: brown, turbid
Weather Conditions: Sunny, 75°, 0-5 NNW

Comments: Pump/Tubing Vol. = 93 mL
Strong HCl Effervescence

Sampler Name (Print): Colin Flaherty Signature:

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FIELD SURVEY REPORT
GROUNDWATER MONITORING

File No.: 2339-353-03
Facility: Carpenter
Address:
Project Name:
Date: 7/7/11

Sample I.D.: P-5 Sample Source:

Type of Sample: (Groundwater) Surface Water Leachate Other:

Equipment Used: Purging Bladder Pump Dedicated (Y / N)
Sampling " / Dis. Bailer Dedicated (Y / N)

PURGING INFORMATION

Purge Date 7/7 Start Purge 815 End Purge 830

Water Volume in Casing (gallons) 0.45 Volume purged (gallons)
2-inch well has 0.163 gallons/foot

MEASUREMENTS

Well Diameter	1	(inches)						
Stick up	-	(feet)	pH	7.51	7.47	7.45		(std.)
Water Level	12.15	(feet)	SC	900	900	900		(umhos/cm)
Total Depth	23.27	(feet)	Temp	18.4	18.3	18.2		(C)
Height of Water Col.	11.12	(feet)	Turbidity	71000	71000	71000		(NTU)

Note: Purge 2 casing volumes, then measure field parameters. Measure field parameters after each additional 1/2 well volume purged until RPDs <10% between last two measurements.

WELL RECHARGE
(circle one)
Very Poor Poor Fair Moderate (Good) Very Good

SAMPLE INFORMATION

Sampling Date: 7/7
Sampling Time: 830
Sample Appearance/Odor: brown
Weather Conditions: Sunny, 70°, 0-5 N

Comments: MS/MSD collected here
P-5 (MS)
P-5 (MSD)

Pump/Tubing Vol. = 115 mL
Strong HCl Effervescence

Sampler Name (Print): Colin Flaherty Signature:

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WEAVER BOOS CONSULTANTS, LLC
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FIELD SURVEY REPORT
GROUNDWATER MONITORING

File No.: 2339-353-03
Facility: Carpenter
Address: Richmond, IN
Project Name:
Date: 7/7/11

Sample I.D.: P-6 Sample Source:

Type of Sample: (Groundwater) Surface Water Leachate Other:

Equipment Used: Purging Bladder Pump Dedicated (Y / N)
Sampling " / Dis. Bailer Dedicated (Y / N)

PURGING INFORMATION

Purge Date 7/7 Start Purge 1015 End Purge 1030

Water Volume in Casing (gallons) 0.15 Volume purged (gallons)
2-inch well has 0.163 gallons/foot

MEASUREMENTS

Well Diameter	1	(inches)						
Stick up	–	(feet)	pH	7.34	7.31	7.26		(std.)
Water Level	13.67	(feet)	SC	900	800	800		(umhos/cm)
Total Depth	17.43	(feet)	Temp	22.3	22.2	22.1		(C)
Height of Water Col.	3.76	(feet)	Turbidity	>1000	>1000	>1000		(NTU)

Note: Purge 2 casing volumes, then measure field parameters. Measure field parameters after each additional 1/2 well volume purged until RPDs <10% between last two measurements.

WELL RECHARGE
(circle one)
Very Poor Poor Fair Moderate (Good) Very Good

SAMPLE INFORMATION

Sampling Date: 7/7
Sampling Time: 1030
Sample Appearance/Odor: brown, turbid, odor
Weather Conditions: Clear, 80°, 0-5 NNE

Comments: Pump/Tubing Vol. ≈ 90mL
Duplicate (Dup) collected here
HCl Effervescence
Odor

Sampler Name (Print): John Flaherty Signature:

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FIELD SURVEY REPORT
GROUNDWATER MONITORING

File No.: 2339-353-03
Facility: Carpenter
Address: Richmond, IN
Project Name:
Date: 7/7/11

Sample I.D.: P-7 Sample Source:

Type of Sample: (Groundwater) Surface Water Leachate Other:

Equipment Used: Purging Bladder Pump Dedicated (Y / N)
Sampling " / Disp. bailer Dedicated (Y / N)

PURGING INFORMATION

Purge Date 7/7 Start Purge 725 End Purge 740

Water Volume in Casing (gallons) 0.26 Volume purged (gallons)
2-inch well has 0.163 gallons/foot

MEASUREMENTS

Well Diameter	1	(inches)						
Stick up	–	(feet)	pH	7.19	7.16	7.15		(std.)
Water Level	13.11	(feet)	SC	1000	1000	1000		(umhos/cm)
Total Depth	19.58	(feet)	Temp	18.3	18.3	18.2		(C)
Height of Water Col.	6.47	(feet)	Turbidity	>1000	>1000	>1000		(NTU)

Note: Purge 2 casing volumes, then measure field parameters. Measure field parameters after each additional 1/2 well volume purged until RPDs <10% between last two measurements.

WELL RECHARGE
(circle one)
Very Poor Poor Fair Moderate (Good) Very Good

SAMPLE INFORMATION

Sampling Date: 7/7
Sampling Time: 740
Sample Appearance/Odor: brown, high turb.
Weather Conditions: Sunny, 70°, 0-5 NNE

Comments: Pump/Tubing Vol. = 98 mL
HCl Effervescence

Sampler Name (Print): Colin Flaherty Signature:

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FIELD SURVEY REPORT
GROUNDWATER MONITORING

File No.: 3339-353-03
Facility: Carpenter
Address: 1100 Industries Rd. Richmond, IN
Project Name:
Date: 7/7/11

Sample I.D.: P-8 Sample Source:

Type of Sample: (Groundwater) Surface Water Leachate Other:

Equipment Used: Purging Bladder Pump Dedicated (Y / N)
Sampling " / Dis. Bailer Dedicated (Y / N)

PURGING INFORMATION

Purge Date 7/7/11 Start Purge 1039 End Purge 1040

Water Volume in Casing (gallons) 0.3 Volume purged (gallons)
2-inch well has 0.163 gallons/foot

MEASUREMENTS

Well Diameter	1	(inches)						
Stick up	–	(feet)	pH	7.21	7.18	7.16		(std.)
Water Level	14.41	(feet)	SC	1300	1100	1100		(umhos/cm)
Total Depth	21.90	(feet)	Temp	20.4	20.3	20.2		(C)
Height of Water Col.	7.49	(feet)	Turbidity	>1000	>1000	>1000		(NTU)

Note: Purge 2 casing volumes, then measure field parameters. Measure field parameters after each additional 1/2 well volume purged until RPDs <10% between last two measurements.

WELL RECHARGE
(circle one)
Very Poor Poor Fair Moderate (Good) Very Good

SAMPLE INFORMATION

Sampling Date: 7/7
Sampling Time: 1040
Sample Appearance/Odor: lt. brown
Weather Conditions: Clear, 70°, 0-5 mph variable

Comments: Pump/Tubing Vol. = 110 mL
HCl Effervescence

Sampler Name (Print): Colin Flaherty Signature:

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FIELD SURVEY REPORT
GROUNDWATER MONITORING

File No.: 2339-353-03
Facility: Carpenter
Address: 1100 Industries Rd., Richmond, IN
Project Name:
Date: 7/20/11

Sample I.D.: P-8 Sample Source: P-8

Type of Sample: (Groundwater) Surface Water Leachate Other:

Equipment Used: Purging Disposable bailer Dedicated (Y / N)
Sampling Disposable bailer Dedicated (Y / N)

PURGING INFORMATION

Purge Date 7/20/11 Start Purge 1359 End Purge 1400

Water Volume in Casing (gallons) 0.28 Volume purged (gallons) 1.0
2-inch well has 0.163 gallons/foot

MEASUREMENTS

Well Diameter	1	(inches)						
Stick up	—	(feet)	pH	7.18	7.15	7.11		(std.)
Water Level	17.60	(feet)	SC	1100	1100	1100		(umhos/cm)
Total Depth	24.40	(feet)	Temp	19.8	19.7	19.7		(C)
Height of Water Col.	6.8	(feet)	Turbidity	>1000	>1000	>1000		(NTU)

Note: Purge 2 casing volumes, then measure field parameters. Measure field parameters after each additional 1/2 well volume purged until RPDs <10% between last two measurements.

WELL RECHARGE
(circle one)
Very Poor Poor Fair Moderate (Good) Very Good

SAMPLE INFORMATION

Sampling Date: 7/20
Sampling Time: 1400
Sample Appearance/Odor: Light brown
Weather Conditions: Hazy, low 90's, 0-5 mph NW

Comments: Resample for TPH-DRO (filled 4 1-Liter Ambers)

Sampler Name (Print): Colin Flaherty Signature:

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FIELD SURVEY REPORT

GROUNDWATER MONITORING

File No.: 2339-353-03-02

Facility: Indiana Brownfields Program

Address: 1100 Industries Rd., Richmond, IN

Project Name: Carpenter Manufacturing

Date: 8/16/12

Sample I.D.: P-9 Sample Source: P-9

Type of Sample: (Groundwater) Surface Water Leachate Other: _____

Equipment Used: Purging QED SamplePro Bladder Pump Dedicated (Y / (N))

Sampling QED SamplePro Bladder Pump/Dis.Bailer/(Peristaltic Pump) Dedicated (Y / (N))

PURGING INFORMATION

Purge Date 8/16/12 Start Purge _____ End Purge _____

Water Volume in Casing (gallons) 0.36 Volume purged (gallons) _____

2-inch well has 0.163 gallons/foot

MEASUREMENTS

Well Diameter	1	(inches)						
Stick up	–	(feet)	pH	7.15	7.11	7.10		(std.)
Water Level	13.83	(feet)	SC	1100	1100	1100		(umhos/cm)
Total Depth	22.85	(feet)	Temp	12.3	12.2	12.2		(C)
Height of Water Col.	9.02	(feet)	Turbidity	–	–	–		(NTU)

Note: Purge 2 casing volumes, then measure field parameters. Measure field parameters after each additional 1/2 well volume purged until RPDs <10% between last two measurements.

WELL RECHARGE

(circle one)

Very Poor Poor Fair Moderate (Good) Very Good

SAMPLE INFORMATION

Sampling Date: 8/16/12

Sampling Time: 1415

Sample Appearance/Odor: slight brown

Weather Conditions: Cloudy, 85°, wind 5-10 variable

Comments: Pump/Tubing = 115 mL

Dup-2 collected here

Equipment Blank (EB-2) collected here @ 1445

Sampler Name (Print): Colin Flaherty Signature: [signature]

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FIELD SURVEY REPORT
GROUNDWATER MONITORING

File No.: 2339-353-03-02
Facility: Indiana Brownfields Program
Address: 1100 Industries Rd., Richmond, IN
Project Name: Carpenter Manufacturing
Date: 8/16/12

Sample I.D.: P-10 Sample Source: P-10

Type of Sample: (Groundwater) Surface Water Leachate Other: _____

Equipment Used: Purging QED SamplePro Bladder Pump Dedicated (Y / (N))
Sampling QED SamplePro Bladder Pump/Dis.Bailer/Peristaltic Pump Dedicated (Y / (N))

PURGING INFORMATION

Purge Date 8/16/12 Start Purge 1301 End Purge 1310

Water Volume in Casing (gallons) 0.33 Volume purged (gallons) —
2-inch well has 0.163 gallons/foot

MEASUREMENTS

Well Diameter	1	(inches)					
Stick up	—	(feet)	pH	8.26	8.27	8.34	(std.)
Water Level	13.12	(feet)	SC	1100	1100	1100	(umhos/cm)
Total Depth	21.40	(feet)	Temp	12.3	12.2	12.2	(C)
Height of Water Col.	8.28	(feet)	Turbidity	—	—	—	(NTU)

Note: Purge 2 casing volumes, then measure field parameters. Measure field parameters after each additional 1/2 well volume purged until RPDs <10% between last two measurements.

WELL RECHARGE
(circle one)
Very Poor Poor Fair Moderate (Good) Very Good

SAMPLE INFORMATION

Sampling Date: 8/16/12
Sampling Time: 1310
Sample Appearance/Odor: slight brown
Weather Conditions: Sunny, 85°, 5-10 mph wind, variable

Comments: Pump / Tubing = 105 mL
MS/MSD collected here
- P-10 (MS)
- P-10 (MSD)

Sampler Name (Print): Colin Flaherty Signature: [signature]

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FIELD SURVEY REPORT
GROUNDWATER MONITORING

File No.: 2339-353-03-02
Facility: Indiana Brownfields Program
Address: 1100 Industries Rd., Richmond, IN
Project Name: Carpenter Manufacturing
Date: 8/16/12

Sample I.D.: P-11 Sample Source: P-11

Type of Sample: (Groundwater) Surface Water Leachate Other: _____

Equipment Used: Purging QED SamplePro Bladder Pump Dedicated (Y / (N))
Sampling (QED SamplePro Bladder Pump/Dis.Bailer/Peristaltic Pump) Dedicated (Y / (N))

PURGING INFORMATION

Purge Date 8/16/12 Start Purge 1210 End Purge 1215

Water Volume in Casing (gallons) ~~0.36~~ (CT) 0.41 Volume purged (gallons) —
2-inch well has 0.163 gallons/foot

MEASUREMENTS

Well Diameter 1 (inches)
Stick up — (feet)
Water Level 11.57 ~~13.83~~ (CT) (feet)
Total Depth 21.74 ~~23.83~~ (CT) (feet)
Height of Water Col. ~~9.07~~ (CT) 10.17 (feet)

pH	6.91	6.84	6.81		(std.)
SC	1100	1100	1100		(umhos/cm)
Temp	12.4	12.3	12.2		(C)
Turbidity	—	—	—		(NTU)

Note: Purge 2 casing volumes, then measure field parameters. Measure field parameters after each additional 1/2 well volume purged until RPDs <10% between last two measurements.

WELL RECHARGE
(circle one)
Very Poor Poor Fair Moderate (Good) Very Good

SAMPLE INFORMATION

Sampling Date: 8/16/12
Sampling Time: 1215
Sample Appearance/Odor: slight brown
Weather Conditions: Sunny, 80°, Wind 0-5 E

Comments: Pump/Tubing Volume = ~~115 mL~~ (CT) 110 mL

Sampler Name (Print): Colin Flaherty Signature: [signature]

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FIELD SURVEY REPORT
WATER SAMPLING

File No.: 2339-353-03
Facility: Indiana Brownfields Program
Address: 1100 Industries Rd., Richmond, IN
Project Name: Carpenter Manufacturing
Date: 3/28/2013

Sample I.D.: P-22 Sample Source: _____

Type of Sample: (Groundwater) Surface Water Leachate Other: _____

Equipment Used: Purging Peristaltic Pump Dedicated (Y / N)
Sampling QED SamplePro Bladder Pump/Dis. Bailer/Peristaltic Pump Dedicated (Y / N)

PURGING INFORMATION

Purge Date 3/27/2013 Start Purge 14:50 End Purge 15:00

Water Volume in Casing (gallons) _____ Volume purged (gallons) _____
2-inch well has 0.163 gallons/foot
1.5-inch well has 0.0918 gallons/foot

MEASUREMENTS

Well Diameter	0.75	(inches)
Stick up	---	(inches)
Water Level	12.02	(feet)
Total Depth	19.55	(feet)
Height of Water Col.		(feet)

pH	7.25	7.14	7.12	7.09	(std.)
SC	950	970	950	950	(umhos.cm)
Temp	12.6	12.7	12.8	12.9	©

Note: Purge 2 casing volumes, then field parameters. Measure field parameters after each additional 1/2 well purged RPDs<10% between last two measurements.

WELL RECHARGE
(circle one)
Very Poor Poor Fair Moderate Good Very Good

SAMPLE INFORMATION

Sampling Date: 3/28/2013
Sampling Time: 15:30
Sample Appearance and Odor: Strong gasoline odor, Clear, Few suspended fines
Weather Conditions: Sunny, 45 degrees, wind 5-10 mph west
Sample Containers: Triplet VOA's
Comments: Strong gasoline odor detected.

Sampler Name (Print): **Grant Baker** Signature: _____

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FIELD SURVEY REPORT
WATER SAMPLING

File No.: 2339-353-03
Facility: Indiana Brownfields Program
Address: 1100 Industries Rd., Richmond, IN
Project Name: Carpenter Manufacturing
Date: 3/28/2013

Sample I.D.: P-24 Sample Source: _____

Type of Sample: (Groundwater) Surface Water Leachate Other: _____

Equipment Used: Purging Peristaltic Pump Dedicated (Y / N)
Sampling QED SamplePro Bladder Pump/Dis. Bailer/Peristaltic Pump Dedicated (Y / N)

PURGING INFORMATION

Purge Date 3/27/2013 Start Purge 16:40 End Purge 17:00

Water Volume in Casing (gallons) _____ Volume purged (gallons) _____

2-inch well has 0.163 gallons/foot

1.5-inch well has 0.0918 gallons/foot

MEASUREMENTS

Well Diameter 0.75 (inches)
Stick up --- (inches)
Water Level 11.35 (feet)
Total Depth 18.55 (feet)
Height of Water Col. _____ (feet)

pH	7.26	7.1	7.1	7.14	(std.)
SC	1180	1180	1160	1140	(umhos.cm)
Temp	6.7	8.8	9.9	10.2	©

Note: Purge 2 casing volumes, then field parameters. Measure field parameters after each additional 1/2 well purged RPDs<10% between last two measurements.

WELL RECHARGE
(circle one)

Very Poor Poor Fair Moderate Good Very Good

SAMPLE INFORMATION

Sampling Date: 3/28/2013
Sampling Time: 11:10
Sample Appearance and Odor: Mostly clear, few suspended solids, no odor
Weather Conditions: Sunny, 45 degrees, wind 5-10 mph west
Sample Containers: Triplet VOA's
Comments:

Sampler Name (Print): **Grant Baker** Signature: _____

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FIELD SURVEY REPORT
WATER SAMPLING

File No.: 2339-353-03
Facility: Indiana Brownfields Program
Address: 1100 Industries Rd., Richmond, IN
Project Name: Carpenter Manufacturing
Date: 3/28/2013

Sample I.D.: P-25 Sample Source: _____

Type of Sample: (Groundwater) Surface Water Leachate Other: _____

Equipment Used: Purging Peristaltic Pump Dedicated (Y / N)
Sampling QED SamplePro Bladder Pump/Dis. Bailer/Peristaltic Pump Dedicated (Y / N)

PURGING INFORMATION

Purge Date 3/27/2013 Start Purge 15:45 End Purge 16:00

Water Volume in Casing (gallons) _____ Volume purged (gallons) _____
2-inch well has 0.163 gallons/foot
1.5-inch well has 0.0918 gallons/foot

MEASUREMENTS

Well Diameter	0.75	(inches)
Stick up	---	(inches)
Water Level	12.05	(feet)
Total Depth	19.29	(feet)
Height of Water Col.		(feet)

pH	7.32	7.31	7.29	7.29	(std.)
SC	1060	1070	1070	1060	(umhos.cm)
Temp	10.4	12.2	12.9	13.2	©

Note: Purge 2 casing volumes, then field parameters. Measure field parameters after each additional 1/2 well purged RPDs<10% between last two measurements.

WELL RECHARGE
(circle one)
Very Poor Poor Fair Moderate Good Very Good

SAMPLE INFORMATION

Sampling Date: 3/28/2013
Sampling Time: 13:20
Sample Appearance and Odor: Slight odor, mostly clear, few suspended solids
Weather Conditions: Sunny, 45 degrees, wind 5-10 mph west
Sample Containers: Triplet VOA's
Comments: Field Dup @ 13:30
Equipment Blank @ 13:40

Sampler Name (Print): **Grant Baker** Signature: _____

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FIELD SURVEY REPORT
WATER SAMPLING

File No.: 2339-353-03
Facility: Indiana Brownfields Program
Address: 1100 Industries Rd., Richmond, IN
Project Name: Carpenter Manufacturing
Date: 3/28/2013

Sample I.D.: P-26 Sample Source: _____

Type of Sample: (Groundwater) Surface Water Leachate Other: _____

Equipment Used: Purging Peristaltic Pump Dedicated (Y / N)
Sampling QED SamplePro Bladder Pump/Dis. Bailer/Peristaltic Pump Dedicated (Y / N)

PURGING INFORMATION

Purge Date 3/27/2013 Start Purge 16:05 End Purge 16:20

Water Volume in Casing (gallons) _____ Volume purged (gallons) _____
2-inch well has 0.163 gallons/foot
1.5-inch well has 0.0918 gallons/foot

MEASUREMENTS

Well Diameter	0.75	(inches)
Stick up	---	(inches)
Water Level	11.50	(feet)
Total Depth	17.95	(feet)
Height of Water Col.		(feet)

pH	7.57	7.42	7.37	7.35	(std.)
SC	990	1000	990	990	(umhos.cm)
Temp	7.9	10.1	11.1	11.3	©

Note: Purge 2 casing volumes, then field parameters. Measure field parameters after each additional 1/2 well purged RPDs<10% between last two measurements.

WELL RECHARGE
(circle one)
Very Poor Poor Fair Moderate Good Very Good

SAMPLE INFORMATION

Sampling Date: 3/28/2013
Sampling Time: 11:50
Sample Appearance and Odor: Mostly clear, few suspended solids, slight odor
Weather Conditions: Sunny, 45 degrees, wind 5-10 mph west
Sample Containers: Triplet VOA's
Comments:

Sampler Name (Print): **Grant Baker** Signature: _____

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FIELD SURVEY REPORT
WATER SAMPLING

File No.: 2339-353-03
Facility: Indiana Brownfields Program
Address: 1100 Industries Rd., Richmond, IN
Project Name: Carpenter Manufacturing
Date: 3/28/2013

Sample I.D.: P-27 Sample Source: _____

Type of Sample: (Groundwater) Surface Water Leachate Other: _____

Equipment Used: Purging Peristaltic Pump Dedicated (Y / N)
Sampling QED SamplePro Bladder Pump/Dis. Bailer/Peristaltic Pump Dedicated (Y / N)

PURGING INFORMATION

Purge Date 3/27/2013 Start Purge NA End Purge NA

Water Volume in Casing (gallons) _____ Volume purged (gallons) _____

2-inch well has 0.163 gallons/foot

1.5-inch well has 0.0918 gallons/foot

MEASUREMENTS

Well Diameter 0.75 (inches)
Stick up --- (inches)
Water Level --- (feet)
Total Depth 20.05 (feet)
Height of Water Col. _____ (feet)

pH	NA	NA	NA	NA	(std.)
SC	NA	NA	NA	NA	(umhos.cm)
Temp	NA	NA	NA	NA	©

Note: Well was dry

WELL RECHARGE
(circle one)

Very Poor Poor Fair Moderate Good Very Good

SAMPLE INFORMATION

Sampling Date: 3/28/2013
Sampling Time: NA
Sample Appearance and Odor: NA
Weather Conditions: Sunny, 45 degrees, wind 5-10 mph west
Sample Containers: NA
Comments: Well was dry

Sampler Name (Print): **Grant Baker** Signature: _____

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FIELD SURVEY REPORT
WATER SAMPLING

File No.: 2339-353-03
Facility: Indiana Brownfields Program
Address: 1100 Industries Rd., Richmond, IN
Project Name: Carpenter Manufacturing
Date: 3/28/2013

Sample I.D.: P-28 Sample Source: _____

Type of Sample: (Groundwater) Surface Water Leachate Other: _____

Equipment Used: Purging Peristaltic Pump Dedicated (Y / N)
Sampling QED SamplePro Bladder Pump/Dis. Bailer/Peristaltic Pump Dedicated (Y / N)

PURGING INFORMATION

Purge Date 3/27/2013 Start Purge 16:25 End Purge 16:35

Water Volume in Casing (gallons) _____ Volume purged (gallons) _____
2-inch well has 0.163 gallons/foot
1.5-inch well has 0.0918 gallons/foot

MEASUREMENTS

Well Diameter	0.75	(inches)
Stick up	---	(inches)
Water Level	11.44	(feet)
Total Depth	16.87	(feet)
Height of Water Col.		(feet)

pH	7.37	7.32	7.32	7.33	(std.)
SC	880	840	830	830	(umhos.cm)
Temp	10.5	10.5	10.3	10.4	©

Note: Purge 2 casing volumes, then field parameters. Measure field parameters after each additional 1/2 well purged RPDs<10% between last two measurements.

WELL RECHARGE
(circle one)
Very Poor Poor Fair Moderate Good Very Good

SAMPLE INFORMATION

Sampling Date: 3/28/2013
Sampling Time: 10:30
Sample Appearance and Odor: Light brown, few suspended soilds, no odor
Weather Conditions: Sunny, 45 degrees, wind 5-10 mph west
Sample Containers: Triplet VOA's
Comments:

Sampler Name (Print): **Grant Baker** Signature: _____

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FIELD SURVEY REPORT
WATER SAMPLING

File No.: 2339-353-03
Facility: Indiana Brownfields Program
Address: 1100 Industries Rd., Richmond, IN
Project Name: Carpenter Manufacturing
Date: 3/28/2013

Sample I.D.: P-29 Sample Source: _____

Type of Sample: (Groundwater) Surface Water Leachate Other: _____

Equipment Used: Purging Peristaltic Pump Dedicated (Y / N)
Sampling QED SamplePro Bladder Pump/Dis. Bailer/Peristaltic Pump Dedicated (Y / N)

PURGING INFORMATION

Purge Date 3/27/2013 Start Purge 15:20 End Purge 15:35

Water Volume in Casing (gallons) _____ Volume purged (gallons) _____
2-inch well has 0.163 gallons/foot
1.5-inch well has 0.0918 gallons/foot

MEASUREMENTS

Well Diameter	0.75	(inches)
Stick up	---	(inches)
Water Level	9.70	(feet)
Total Depth	19.15	(feet)
Height of Water Col.		(feet)

pH	7.70	7.80	7.82	7.84	(std.)
SC	1180	1180	1210	1210	(umhos.cm)
Temp	8.3	8.8	8.6	8.5	©

Note: Purge 2 casing volumes, then field parameters. Measure field parameters after each additional 1/2 well purged RPDs<10% between last two measurements.

WELL RECHARGE
(circle one)
Very Poor Poor Fair Moderate Good Very Good

SAMPLE INFORMATION

Sampling Date: 3/28/2013
Sampling Time: 12:30
Sample Appearance and Odor: Brown, many suspended fines, no odor
Weather Conditions: Sunny, 45 degrees, wind 5-10 mph west
Sample Containers: Triplet VOA's
Comments:

Sampler Name (Print): **Grant Baker** Signature: _____

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FIELD SURVEY REPORT
WATER SAMPLING

File No.: 2339-353-03
Facility: Indiana Brownfields Program
Address: 1100 Industries Rd., Richmond, IN
Project Name: Carpenter Manufacturing
Date: 3/28/2013

Sample I.D.: P-30 Sample Source: _____

Type of Sample: (Groundwater) Surface Water Leachate Other: _____

Equipment Used: Purging Peristaltic Pump Dedicated (Y / N)
Sampling QED SamplePro Bladder Pump/Dis. Bailer/Peristaltic Pump Dedicated (Y / N)

PURGING INFORMATION

Purge Date 3/27/2013 Start Purge 13:05 End Purge 13:15

Water Volume in Casing (gallons) _____ Volume purged (gallons) _____
2-inch well has 0.163 gallons/foot
1.5-inch well has 0.0918 gallons/foot

MEASUREMENTS

Well Diameter 0.75 (inches)
Stick up --- (inches)
Water Level 12.49 (feet)
Total Depth 18.60 (feet)
Height of Water Col. _____ (feet)

pH	7.19	7.3	7.34	7.36	(std.)
SC	1130	1040	1070	1070	(umhos.cm)
Temp	12.1	13.3	13.9	14	©

Note: Purge 2 casing volumes, then field parameters. Measure field parameters after each additional 1/2 well purged RPDs<10% between last two measurements.

WELL RECHARGE
(circle one)
Very Poor Poor Fair Moderate Good Very Good

SAMPLE INFORMATION

Sampling Date: 3/28/2013
Sampling Time: 14:30
Sample Appearance and Odor: Mostly clear, no odor, Few suspended fines
Weather Conditions: Sunny, 45 degrees, wind 5-10 mph west
Sample Containers: Triplet VOA's
Comments: MS @ 14:40
MDS @ 14:50

Sampler Name (Print): **Grant Baker** Signature: _____

WEAVER BOOS CONSULTANTS, LLC

4085 Meghan Beeler Court, South Bend, IN 46628

FIELD SURVEY REPORT
WATER SAMPLING

File No.: 2339-353-03
Facility: Indiana Brownfields Program
Address: 1100 Industries Rd., Richmond, IN
Project Name: Carpenter Manufacturing
Date: 6/6/2013

Sample I.D.: **WB-1** Sample Source: _____

Type of Sample: (Groundwater) Surface Water Leachate Other: _____

Equipment Used: Purging Dedicated Bailer Dedicated (Y / N)
Sampling QED SamplePro Bladder Pump Dedicated (Y / N)

PURGING INFORMATION

Purge Date **6/5/2013** Start Purge **2000** End Purge **2020**

Water Volume in Casing (gallons) **3.2** Volume purged (gallons) **4.0**

2-inch well has 0.163 gallons/foot

1.5-inch well has 0.0918 gallons/foot

MEASUREMENTS

Well Diameter **2.0** (inches)
Stick up **N/A** (inches)
Water Level **12.97** (feet)
Total Depth **19.65** (feet)
Height of Water Col. **N/A** (feet)

pH	7.16	7.16	7.16	7.16	(std.)
SC	880	890	900	900	(umhos.cm)
Temp	16.1	15.4	15.1	15.0	©

Note: Purge 3 casing volumes, then field parameters. Measure field parameters after each additional 1/2 well purged RPDs<10% between last two measurements.

WELL RECHARGE
(circle one)

Very Poor Poor Fair Moderate Good Very Good

SAMPLE INFORMATION

Sampling Date: **6/6/2013**
Sampling Time: **1500**
Sample Appearance and Odor: **Strong gasoline odor, cloudy with few suspended fines**
Weather Conditions: **Cloudy, 75°, wind SE 5-10 mph**
Sample Containers: **triplet VOA's**
Comments: **Strong gasoline odor, shinny sheen noted during well development and purging. Poor recharge rate.**

Sampler Name (Print): **Grant Baker** Signature: _____

WEAVER BOOS CONSULTANTS, LLC

4085 Meghan Beeler Court, South Bend, IN 46628

FIELD SURVEY REPORT
WATER SAMPLING

File No.: 2339-353-03
Facility: Indiana Brownfields Program
Address: 1100 Industries Rd., Richmond, IN
Project Name: Carpenter Manufacturing
Date: 6/6/2013

Sample I.D.: **WB-2** Sample Source: _____

Type of Sample: (Groundwater) Surface Water Leachate Other: _____

Equipment Used: Purging Dedicated Bailer Dedicated (Y / N)
Sampling QED SamplePro Bladder Pump Dedicated (Y / N)

PURGING INFORMATION

Purge Date **6/4/2013** Start Purge **1755** End Purge **1815**

Water Volume in Casing (gallons) **4.9** Volume purged (gallons) **5.0**

2-inch well has 0.163 gallons/foot

1.5-inch well has 0.0918 gallons/foot

MEASUREMENTS

Well Diameter **2.0** (inches)
Stick up **N/A** (inches)
Water Level **13.16** (feet)
Total Depth **23.30** (feet)
Height of Water Col. **N/A** (feet)

pH	7.16	7.13	7.13	7.12	(std.)
SC	880	880	880	890	(umhos.cm)
Temp	16.8	15.9	15.4	15.1	©

Note: Purge 3 casing volumes, then field parameters. Measure field parameters after each additional 1/2 well purged RPDs<10% between last two measurements.

WELL RECHARGE
(circle one)

Very Poor Poor Fair Moderate Good Very Good

SAMPLE INFORMATION

Sampling Date: **6/6/2013**
Sampling Time: **1125**
Sample Appearance and Odor: **Cloudy, many suspended fines, no odor**
Weather Conditions: **Cloudy, 70°, light rain, wind 5-10 mph SW**
Sample Containers: **triplet VOA's**
Comments:

Sampler Name (Print): **Grant Baker** Signature: _____

WEAVER BOOS CONSULTANTS, LLC

4085 Meghan Beeler Court, South Bend, IN 46628

FIELD SURVEY REPORT
WATER SAMPLING

File No.: 2339-353-03
Facility: Indiana Brownfields Program
Address: 1100 Industries Rd., Richmond, IN
Project Name: Carpenter Manufacturing
Date: 6/6/2013

Sample I.D.: **WB-3** Sample Source: _____

Type of Sample: (Groundwater) Surface Water Leachate Other: _____

Equipment Used: Purging Dedicated Bailer Dedicated (Y / N)
Sampling QED SamplePro Bladder Pump Dedicated (Y / N)

PURGING INFORMATION

Purge Date **6/4/2013** Start Purge **1840** End Purge **1850**

Water Volume in Casing (gallons) **5.5** Volume purged (gallons) **5.5**

2-inch well has 0.163 gallons/foot

1.5-inch well has 0.0918 gallons/foot

MEASUREMENTS

Well Diameter **2.0** (inches)
Stick up **N/A** (inches)
Water Level **11.59** (feet)
Total Depth **22.98** (feet)
Height of Water Col. **N/A** (feet)

pH	7.57	7.47	7.43	7.42	(std.)
SC	860	850	850	860	(umhos.cm)
Temp	15.9	15.0	14.7	15.4	©

Note: Purge 3 casing volumes, then field parameters. Measure field parameters after each additional 1/2 well purged RPDs<10% between last two measurements.

WELL RECHARGE
(circle one)

Very Poor Poor Fair Moderate Good Very Good

SAMPLE INFORMATION

Sampling Date: **6/6/2013**
Sampling Time: **835**
Sample Appearance and Odor: **Mostly clear, few suspended fines, no odor**
Weather Conditions: **Cloudy, 70°, light rain, wind 5-10 mph SW**
Sample Containers: **triplet VOA's**
Comments:

Sampler Name (Print): **Grant Baker** Signature: _____

WEAVER BOOS CONSULTANTS, LLC

4085 Meghan Beeler Court, South Bend, IN 46628

FIELD SURVEY REPORT
WATER SAMPLING

File No.: 2339-353-03
Facility: Indiana Brownfields Program
Address: 1100 Industries Rd., Richmond, IN
Project Name: Carpenter Manufacturing
Date: 6/6/2013

Sample I.D.: **WB-4** Sample Source: _____

Type of Sample: (Groundwater) Surface Water Leachate Other: _____

Equipment Used: Purging Dedicated Bailer Dedicated (Y / N)
Sampling QED SamplePro Bladder Pump Dedicated (Y / N)

PURGING INFORMATION

Purge Date **6/5/2013** Start Purge **1830** End Purge **1845**

Water Volume in Casing (gallons) **6.9** Volume purged (gallons) **7.0**

2-inch well has 0.163 gallons/foot

1.5-inch well has 0.0918 gallons/foot

MEASUREMENTS

Well Diameter **2.0** (inches)
Stick up **N/A** (inches)
Water Level **9.00** (feet)
Total Depth **23.10** (feet)
Height of Water Col. **N/A** (feet)

pH	7.22	7.16	7.16	7.15	(std.)
SC	800	810	810	800	(umhos.cm)
Temp	14.9	14.3	14.2	14.0	©

Note: Purge 3 casing volumes, then field parameters. Measure field parameters after each additional 1/2 well purged RPDs<10% between last two measurements.

WELL RECHARGE
(circle one)

Very Poor Poor Fair Moderate Good Very Good

SAMPLE INFORMATION

Sampling Date: **6/6/2013**
Sampling Time: **900**
Sample Appearance and Odor: **No odor, mostly clear, few suspended fines.**
Weather Conditions: **Cloudy, 70°, light rain, wind 5-10 mph SW**
Sample Containers: **triplet VOA's**
Comments:

Sampler Name (Print): **Grant Baker** Signature: _____

WEAVER BOOS CONSULTANTS, LLC

4085 Meghan Beeler Court, South Bend, IN 46628

FIELD SURVEY REPORT
WATER SAMPLING

File No.: 2339-353-03
Facility: Indiana Brownfields Program
Address: 1100 Industries Rd., Richmond, IN
Project Name: Carpenter Manufacturing
Date: 6/6/2013

Sample I.D.: **WB-5** Sample Source: _____

Type of Sample: (Groundwater) Surface Water Leachate Other: _____

Equipment Used: Purging Dedicated Bailer Dedicated (Y / N)
Sampling QED SamplePro Bladder Pump Dedicated (Y / N)

PURGING INFORMATION

Purge Date **6/5/2013** Start Purge **1925** End Purge **1950**

Water Volume in Casing (gallons) **4.5** Volume purged (gallons) **5.0**

2-inch well has 0.163 gallons/foot

1.5-inch well has 0.0918 gallons/foot

MEASUREMENTS

Well Diameter **2.0** (inches)
Stick up **N/A** (inches)
Water Level **13.90** (feet)
Total Depth **23.28** (feet)
Height of Water Col. **N/A** (feet)

pH	7.15	7.13	7.12	7.12	(std.)
SC	930	940	950	950	(umhos.cm)
Temp	17.1	15.7	15.2	15.1	©

Note: Purge 3 casing volumes, then field parameters. Measure field parameters after each additional 1/2 well purged RPDs<10% between last two measurements.

WELL RECHARGE
(circle one)

Very Poor Poor Fair Moderate Good Very Good

SAMPLE INFORMATION

Sampling Date: **6/6/2013**
Sampling Time: **1430**
Sample Appearance and Odor: **No odor, mostly clear, few suspended fines.**
Weather Conditions: **Cloudy, 70°, light rain, wind 5-10 mph SW**
Sample Containers: **triplet VOA's**
Comments: **Field Dup taken at 1440**

Sampler Name (Print): **Grant Baker** Signature: _____

WEAVER BOOS CONSULTANTS, LLC

4085 Meghan Beeler Court, South Bend, IN 46628

FIELD SURVEY REPORT
WATER SAMPLING

File No.: 2339-353-03
Facility: Indiana Brownfields Program
Address: 1100 Industries Rd., Richmond, IN
Project Name: Carpenter Manufacturing
Date: 6/6/2013

Sample I.D.: **WB-6** Sample Source: _____

Type of Sample: (Groundwater) Surface Water Leachate Other: _____

Equipment Used: Purging Dedicated Bailer Dedicated (Y / N)
Sampling QED SamplePro Bladder Pump Dedicated (Y / N)

PURGING INFORMATION

Purge Date **6/5/2013** Start Purge **1715** End Purge **1725**

Water Volume in Casing (gallons) **6.2** Volume purged (gallons) **6.5**

2-inch well has 0.163 gallons/foot

1.5-inch well has 0.0918 gallons/foot

MEASUREMENTS

Well Diameter **2.0** (inches)
Stick up **N/A** (inches)
Water Level **10.80** (feet)
Total Depth **23.48** (feet)
Height of Water Col. **N/A** (feet)

pH	7.15	7.17	7.12	7.12	(std.)
SC	820	850	840	850	(umhos.cm)
Temp	16.1	14.7	13.9	13.6	©

Note: Purge 3 casing volumes, then field parameters. Measure field parameters after each additional 1/2 well purged RPDs<10% between last two measurements.

WELL RECHARGE
(circle one)

Very Poor Poor Fair Moderate Good Very Good

SAMPLE INFORMATION

Sampling Date: **6/6/2013**
Sampling Time: **940**
Sample Appearance and Odor: **No odor, mostly clear, few suspended fines.**
Weather Conditions: **Cloudy, 70°, light rain, wind 5-10 mph SW**
Sample Containers: **triplet VOA's**
Comments: **MS taken at 950**
MSD taken at 1000

Sampler Name (Print): **Grant Baker** Signature: _____

WEAVER BOOS CONSULTANTS, LLC

4085 Meghan Beeler Court, South Bend, IN 46628

FIELD SURVEY REPORT
WATER SAMPLING

File No.: 2339-353-03
Facility: Indiana Brownfields Program
Address: 1100 Industries Rd., Richmond, IN
Project Name: Carpenter Manufacturing
Date: 6/6/2013

Sample I.D.: **WB-7** Sample Source: _____

Type of Sample: (Groundwater) Surface Water Leachate Other: _____

Equipment Used: Purging Dedicated Bailer Dedicated (Y / N)
Sampling QED SamplePro Bladder Pump Dedicated (Y / N)

PURGING INFORMATION

Purge Date **6/5/2013** Start Purge **1735** End Purge **1745**

Water Volume in Casing (gallons) **4.6** Volume purged (gallons) **5.0**

2-inch well has 0.163 gallons/foot

1.5-inch well has 0.0918 gallons/foot

MEASUREMENTS

Well Diameter **2.0** (inches)
Stick up **N/A** (inches)
Water Level **12.10** (feet)
Total Depth **21.70** (feet)
Height of Water Col. **N/A** (feet)

pH	7.12	7.07	7.07	7.06	(std.)
SC	940	970	980	980	(umhos.cm)
Temp	15.2	14.1	13.6	13.3	©

Note: Purge 3 casing volumes, then field parameters. Measure field parameters after each additional 1/2 well purged RPDs<10% between last two measurements.

WELL RECHARGE
(circle one)

Very Poor Poor Fair Moderate Good Very Good

SAMPLE INFORMATION

Sampling Date: **6/6/2013**
Sampling Time: **1030**
Sample Appearance and Odor: **No odor, mostly clear, few suspended fines.**
Weather Conditions: **Cloudy, 70°, light rain, wind 5-10 mph SW**
Sample Containers: **triplet VOA's**
Comments: **Equipment Blank filled at 1015**

Sampler Name (Print): **Grant Baker** Signature: _____

WEAVER BOOS CONSULTANTS, LLC

4085 Meghan Beeler Court, South Bend, IN 46628

FIELD SURVEY REPORT
WATER SAMPLING

File No.: 2339-353-03
Facility: Indiana Brownfields Program
Address: 1100 Industries Rd., Richmond, IN
Project Name: Carpenter Manufacturing
Date: 6/6/2013

Sample I.D.: **WB-8** Sample Source: _____

Type of Sample: (Groundwater) Surface Water Leachate Other: _____

Equipment Used: Purging Dedicated Bailer Dedicated (Y / N)
Sampling QED SamplePro Bladder Pump Dedicated (Y / N)

PURGING INFORMATION

Purge Date **6/5/2013** Start Purge **1850** End Purge **1915**

Water Volume in Casing (gallons) **1.3** Volume purged (gallons) **2.0**

2-inch well has 0.163 gallons/foot

1.5-inch well has 0.0918 gallons/foot

MEASUREMENTS

Well Diameter **2.0** (inches)
Stick up **N/A** (inches)
Water Level **15.50** (feet)
Total Depth **17.80** (feet)
Height of Water Col. **N/A** (feet)

pH	7.27	7.20	7.18	7.17	(std.)
SC	900	910	930	930	(umhos.cm)
Temp	18.9	17.2	16.4	16.1	©

Note: Purge 3 casing volumes, then field parameters. Measure field parameters after each additional 1/2 well purged RPDs<10% between last two measurements.

WELL RECHARGE
(circle one)

Very Poor Poor Fair Moderate Good Very Good

SAMPLE INFORMATION

Sampling Date: **6/6/2013**
Sampling Time: **1545**
Sample Appearance and Odor: **Strong petroleum odor, mostly clear, few suspended fines**
Weather Conditions: **Cloudy, 75°, wind 5-10 mph SW**
Sample Containers: **triplet VOA's**
Comments: **Strong petroleum odor, black oily sheen noted during well development and purging.**

Sampler Name (Print): **Grant Baker** Signature: _____

WEAVER BOOS CONSULTANTS, LLC

4085 Meghan Beeler Court, South Bend, IN 46628

FIELD SURVEY REPORT
WATER SAMPLING

File No.: 2339-353-03
Facility: Indiana Brownfields Program
Address: 1100 Industries Rd., Richmond, IN
Project Name: Carpenter Manufacturing
Date: 6/6/2013

Sample I.D.: **WB-9** Sample Source: _____

Type of Sample: (Groundwater) Surface Water Leachate Other: _____

Equipment Used: Purging Dedicated Bailer Dedicated (Y / N)
Sampling QED SamplePro Bladder Pump Dedicated (Y / N)

PURGING INFORMATION

Purge Date **6/5/2013** Start Purge **1755** End Purge **1815**

Water Volume in Casing (gallons) **6.5** Volume purged (gallons) **6.5**

2-inch well has 0.163 gallons/foot

1.5-inch well has 0.0918 gallons/foot

MEASUREMENTS

Well Diameter	**2.0**	(inches)
Stick up	**N/A**	(inches)
Water Level	**11.33**	(feet)
Total Depth	**24.70**	(feet)
Height of Water Col.	**N/A**	(feet)

pH	7.20	7.17	7.17	7.16	(std.)
SC	790	810	820	820	(umhos.cm)
Temp	15.5	14.3	13.8	13.6	©

Note: Purge 3 casing volumes, then field parameters. Measure field parameters after each additional 1/2 well purged RPDs<10% between last two measurements.

WELL RECHARGE
(circle one)

Very Poor Poor Fair Moderate Good Very Good

SAMPLE INFORMATION

Sampling Date: **6/6/2013**
Sampling Time: **1400**
Sample Appearance and Odor: **No odor, cloudy, many suspended fines**
Weather Conditions: **Cloudy, 75°, wind 5-10 mph SW**
Sample Containers: **triplet VOA's**
Comments:

Sampler Name (Print): **Grant Baker** Signature: _____

APPENDIX E

Survey Control Data

2011 GPS Surveying Data
Former Carpenter Facility
1100 Industries Road, Richmond, IN 47374
Prepared by Weaver Boos Consultants

Feature	Easting	Northing	Latitude	Longitude	Height	Num. Sat.	PDOP	Date/Time	Duration (hh:mm:ss)	Correction	Horizontal Error (sft)	Vertical Error (sft)	SB-
1000	537,609.022	1,682,655.692	39.515656754 N	84.551284616 W	1059.442	9	1.7	7/20/2011 9:02	0:00:05	RTK	0.03	0.03	P-5
1001	537,543.059	1,682,732.728	39.515733425 N	84.551368381 W	1060.467	9	1.7	7/20/2011 9:03	0:00:05	RTK	0.033	0.046	P-7
1002	537,866.555	1,682,779.850	39.515777320 N	84.550953026 W	1060.967	8	2	7/20/2011 9:05	0:00:05	RTK	0.038	0.053	P-4
1003	537,887.524	1,682,679.752	39.515678230 N	84.550927209 W	1060.18	8	2	7/20/2011 9:06	0:00:05	RTK	0.04	0.057	P-6
1004	538,197.051	1,682,722.959	39.515718368 N	84.550529810 W	1061.21	8	2	7/20/2011 9:07	0:00:05	RTK	0.044	0.064	P-8
1005	537,705.237	1,682,524.519	39.515526333 N	84.551162636 W	1055.676	8	2	7/20/2011 9:11	0:00:05	RTK	0.051	0.074	P-3
1006	537,669.618	1,682,517.949	39.515520134 N	84.551208384 W	1055.432	8	2	7/20/2011 9:11	0:00:05	RTK	0.049	0.071	P-1
1007	537,684.727	1,682,536.095	39.515537942 N	84.551188813 W	1056.334	7	3.3	7/20/2011 9:11	0:00:05	RTK	0.045	0.072	P-2

2013 GPS Surveying Data
Former Carpenter Facility
1100 Industries Road, Richmond, IN 47374
Prepared by Weaver Boos Consultants

Feature	Date	x	y	PDOP	Accuracy (ft)
MH8	3/26/2013	537,685	1,682,516	1.44	7.1
MH9	3/26/2013	537,955	1,682,567	1.44	6.4
SW Corner Bldg.	3/26/2013	537,376	1,682,832	1.44	8.1
SW Corner Office	3/26/2013	537,929	1,682,725	1.44	11
NW Corner Office	3/26/2013	537,915	1,682,829	1.44	9.0
P20	3/27/2013	538,194	1,682,978	1.44	7.1
P21	3/27/2013	538,019	1,683,065	1.44	7.6
P22	3/27/2013	538,107	1,682,913	1.44	8.6
P23	3/27/2013	537,900	1,682,738	1.44	7.6
P24	3/27/2013	537,695	1,682,786	1.44	11
P25	3/27/2013	537,934	1,682,672	1.08	9.8
P26	3/27/2013	537,865	1,682,652	1.44	7.5
P27	3/27/2013	537,662	1,682,621	1.44	7.3
P28	3/27/2013	537,769	1,682,592	1.44	6.8
P29	3/27/2013	538,164	1,682,593	1.44	7.7
SE Corner	3/27/2013	538,732	1,683,230	2.52	12
MH046	3/27/2013	537,732	1,682,303	1.08	8.0
MH7	3/27/2013	537,460	1,682,471	1.80	8.9
MH6	3/27/2013	537,345	1,682,906	1.08	12
MH5	3/27/2013	537,287	1,683,206	1.08	11
P30	3/27/2013	538,020	1,682,718	1.80	10

x = Easting (Indiana State Plane Coordinates, U.S. Survey feet, East Zone)
y = Northing (Indiana State Plane Coordinates, U.S. Survey feet, East Zone)

2013 GPS Surveying Data
Former Carpenter Facility
1100 Industries Road, Richmond, IN 47374
Prepared by Weaver Boos Consultants

Feature	Date	x	y	PDOP	Satellites	Accuracy (ft)
WB-1	6/4/2013	538,086	1,652,887	1.8	9	7.9
WB-2	6/4/2013	537,930	1,682,892	1.44	8	12
WB-3	6/4/2013	537,780	1,682,759	1.44	10	9.9
WB-4	6/4/2013	537,847	1,682,606	1.44	8	8.8
WB-5	6/4/2013	538,091	1,682,660	1.44	9	11
WB-6	6/4/2013	538,034	1,682,551	1.80	10	13
WB-7	6/4/2013	538,080	1,682,503	1.44	9	11
WB-8	6/4/2013	537,918	1,682,740	1.44	8	14
WB-9	6/4/2013	537,714	1,682,425	2.16	8	13

x = Easting (Indiana State Plane Coordinates, U.S. Survey feet, East Zone)
y = Northing (Indiana State Plane Coordinates, U.S. Survey feet, East Zone)

APPENDIX F

Laboratory Analytical Reports

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

July 20, 2011

Mr. Steve Stanford
Weaver Boos & Gordon
4085 Meghan Beeler Court
South Bend, IN 46628

RE: Project: Carpenter 2339-353-03
Pace Project No.: 5050590

Dear Mr. Stanford:
Enclosed are the analytical results for sample(s) received by the laboratory on July 09, 2011. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards, where applicable, unless otherwise narrated in the body of the report.

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

Sincerely,

Donna S. Spyker

Donna Spyker

donna.spyker@pacelabs.com
Project Manager

Illinois/NELAC Certification #: 100418
Indiana Certification #: C-49-06
Kansas Certification #: E-10247
Kentucky Certification #: 0042
Louisiana Certification #: 04076
Ohio VAP: CL0065
Pennsylvania: 68-00791
West Virginia Certification #: 330

Enclosures

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Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

SAMPLE SUMMARY

Project: Carpenter 2339-353-03
Pace Project No.: 5050590

Lab ID	Sample ID	Matrix	Date Collected	Date Received
5050590001	**P-8**	Water	07/07/11 06:40	07/09/11 10:50
5050590002	**P-7**	Water	07/07/11 07:40	07/09/11 10:50
5050590003	**P-5**	Water	07/07/11 08:30	07/09/11 10:50
5050590004	**P-4**	Water	07/07/11 09:50	07/09/11 10:50
5050590005	**P-6**	Water	07/07/11 10:30	07/09/11 10:50
5050590006	**Dup**	Water	07/07/11 08:00	07/09/11 10:50
5050590007	**P-2**	Water	07/07/11 12:15	07/09/11 10:50
5050590008	**EB**	Water	07/07/11 11:30	07/09/11 10:50
5050590009	**P-1**	Water	07/07/11 12:50	07/09/11 10:50
5050590010	**P-3**	Water	07/07/11 13:30	07/09/11 10:50
5050590011	**Trip Blank**	Water	07/07/11 08:00	07/09/11 10:50
5050590012	**P-3(11.5-12)**	Solid	07/06/11 11:15	07/09/11 10:50

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Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

SAMPLE ANALYTE COUNT

Project: Carpenter 2339-353-03
Pace Project No.: 5050590

Lab ID	Sample ID	Method	Analysts	Analytes Reported
5050590001	**P-8**	EPA 5030/8015 Mod.	HEB	4
		EPA 8270	KES	66
		EPA 8260	SLB	73
5050590002	**P-7**	EPA 8015 Modified	CEM	2
		EPA 5030/8015 Mod.	HEB	4
		EPA 8270	KES	66
		EPA 8260	SLB	73
5050590003	**P-5**	EPA 8015 Modified	CEM	2
		EPA 5030/8015 Mod.	HEB	4
		EPA 8270	KES	66
		EPA 8260	SLB	73
5050590004	**P-4**	EPA 8015 Modified	CEM	2
		EPA 5030/8015 Mod.	HEB	4
		EPA 8270	KES	66
		EPA 8260	SLB	73
5050590005	**P-6**	EPA 8015 Modified	CEM	2
		EPA 5030/8015 Mod.	HEB	4
		EPA 8270	KES	66
		EPA 8260	SLB	73
5050590006	**Dup**	EPA 8015 Modified	CEM	2
		EPA 5030/8015 Mod.	HEB	4
		EPA 8270	KES	66
		EPA 8260	SLB	73
5050590007	**P-2**	EPA 8015 Modified	CEM	2
		EPA 5030/8015 Mod.	HEB	4
		EPA 8270	KES	66
		EPA 8260	SLB	73
5050590008	**EB**	EPA 8015 Modified	CEM	2
		EPA 5030/8015 Mod.	HEB	4
		EPA 8270	KES	66
		EPA 8260	SLB	73
5050590009	**P-1**	EPA 8015 Modified	CEM	2
		EPA 5030/8015 Mod.	HEB	4
		EPA 8270	KES	66
		EPA 8260	SLB	73
5050590010	**P-3**	EPA 8015 Modified	CEM	2
		EPA 5030/8015 Mod.	HEB	4

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SAMPLE ANALYTE COUNT

Project: Carpenter 2339-353-03
Pace Project No.: 5050590

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 8270	KES	66
		EPA 8260	SLB	73
5050590011	**Trip Blank**	EPA 8260	SLB	73
5050590012	**P-3(11.5-12)**	EPA 8015 Modified	CEM	2
		EPA 8015 Mod Pur	HEB	2
		EPA 8270	KES	66
		EPA 8260	SLB	73
		ASTM D2974-87	SLF	1

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ANALYTICAL RESULTS

Project: Carpenter 2339-353-03
Pace Project No.: 5050590

Sample: P-8 **Lab ID: 5050590001** Collected: 07/07/11 06:40 Received: 07/09/11 10:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Gasoline Range Organics	Analytical Method: EPA 5030/8015 Mod.							
Gasoline Range Organics	ND	mg/L	0.20	1		07/13/11 16:10		
TPH (C06-C10)	ND	mg/L	0.20	1		07/13/11 16:10		
TPH (C06-C12)	ND	mg/L	0.20	1		07/13/11 16:10		
4-Bromofluorobenzene (S)	87	%	45-130	1		07/13/11 16:10	460-00-4	
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	10.5	1	07/11/11 22:50	07/12/11 18:14	83-32-9	
Acenaphthylene	ND	ug/L	10.5	1	07/11/11 22:50	07/12/11 18:14	208-96-8	
Anthracene	ND	ug/L	10.5	1	07/11/11 22:50	07/12/11 18:14	120-12-7	
Benzo(a)anthracene	ND	ug/L	10.5	1	07/11/11 22:50	07/12/11 18:14	56-55-3	
Benzo(a)pyrene	ND	ug/L	10.5	1	07/11/11 22:50	07/12/11 18:14	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	10.5	1	07/11/11 22:50	07/12/11 18:14	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	10.5	1	07/11/11 22:50	07/12/11 18:14	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	10.5	1	07/11/11 22:50	07/12/11 18:14	207-08-9	
Benzyl alcohol	ND	ug/L	21.1	1	07/11/11 22:50	07/12/11 18:14	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	10.5	1	07/11/11 22:50	07/12/11 18:14	101-55-3	
Butylbenzylphthalate	ND	ug/L	10.5	1	07/11/11 22:50	07/12/11 18:14	85-68-7	
4-Chloro-3-methylphenol	ND	ug/L	21.1	1	07/11/11 22:50	07/12/11 18:14	59-50-7	
4-Chloroaniline	ND	ug/L	21.1	1	07/11/11 22:50	07/12/11 18:14	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	10.5	1	07/11/11 22:50	07/12/11 18:14	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.5	1	07/11/11 22:50	07/12/11 18:14	111-44-4	
bis(2chloro1methylethyl) ether	ND	ug/L	5.3	1	07/11/11 22:50	07/12/11 18:14	108-60-1	
2-Chloronaphthalene	ND	ug/L	10.5	1	07/11/11 22:50	07/12/11 18:14	91-58-7	
2-Chlorophenol	ND	ug/L	10.5	1	07/11/11 22:50	07/12/11 18:14	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	10.5	1	07/11/11 22:50	07/12/11 18:14	7005-72-3	
Chrysene	ND	ug/L	10.5	1	07/11/11 22:50	07/12/11 18:14	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	10.5	1	07/11/11 22:50	07/12/11 18:14	53-70-3	
Dibenzofuran	ND	ug/L	10.5	1	07/11/11 22:50	07/12/11 18:14	132-64-9	
3,3'-Dichlorobenzidine	ND	ug/L	21.1	1	07/11/11 22:50	07/12/11 18:14	91-94-1	
2,4-Dichlorophenol	ND	ug/L	10.5	1	07/11/11 22:50	07/12/11 18:14	120-83-2	
Diethylphthalate	ND	ug/L	10.5	1	07/11/11 22:50	07/12/11 18:14	84-66-2	
2,4-Dimethylphenol	ND	ug/L	10.5	1	07/11/11 22:50	07/12/11 18:14	105-67-9	
Dimethylphthalate	ND	ug/L	10.5	1	07/11/11 22:50	07/12/11 18:14	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.5	1	07/11/11 22:50	07/12/11 18:14	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	52.6	1	07/11/11 22:50	07/12/11 18:14	534-52-1	
2,4-Dinitrophenol	ND	ug/L	52.6	1	07/11/11 22:50	07/12/11 18:14	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	10.5	1	07/11/11 22:50	07/12/11 18:14	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.5	1	07/11/11 22:50	07/12/11 18:14	606-20-2	
Di-n-octylphthalate	ND	ug/L	10.5	1	07/11/11 22:50	07/12/11 18:14	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	5.3	1	07/11/11 22:50	07/12/11 18:14	117-81-7	
Fluoranthene	ND	ug/L	10.5	1	07/11/11 22:50	07/12/11 18:14	206-44-0	
Fluorene	ND	ug/L	10.5	1	07/11/11 22:50	07/12/11 18:14	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	5.3	1	07/11/11 22:50	07/12/11 18:14	87-68-3	
Hexachlorobenzene	ND	ug/L	10.5	1	07/11/11 22:50	07/12/11 18:14	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	21.1	1	07/11/11 22:50	07/12/11 18:14	77-47-4	
Hexachloroethane	ND	ug/L	10.5	1	07/11/11 22:50	07/12/11 18:14	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	10.5	1	07/11/11 22:50	07/12/11 18:14	193-39-5	

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ANALYTICAL RESULTS

Project: Carpenter 2339-353-03
Pace Project No.: 5050590

Sample: P-8 **Lab ID: 5050590001** Collected: 07/07/11 06:40 Received: 07/09/11 10:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Isophorone	ND	ug/L	10.5	1	07/11/11 22:50	07/12/11 18:14	78-59-1	
2-Methylnaphthalene	ND	ug/L	10.5	1	07/11/11 22:50	07/12/11 18:14	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	10.5	1	07/11/11 22:50	07/12/11 18:14	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	21.1	1	07/11/11 22:50	07/12/11 18:14		
Naphthalene	ND	ug/L	5.3	1	07/11/11 22:50	07/12/11 18:14	91-20-3	
2-Nitroaniline	ND	ug/L	52.6	1	07/11/11 22:50	07/12/11 18:14	88-74-4	
3-Nitroaniline	ND	ug/L	52.6	1	07/11/11 22:50	07/12/11 18:14	99-09-2	
4-Nitroaniline	ND	ug/L	52.6	1	07/11/11 22:50	07/12/11 18:14	100-01-6	
Nitrobenzene	ND	ug/L	10.5	1	07/11/11 22:50	07/12/11 18:14	98-95-3	
2-Nitrophenol	ND	ug/L	10.5	1	07/11/11 22:50	07/12/11 18:14	88-75-5	
4-Nitrophenol	ND	ug/L	52.6	1	07/11/11 22:50	07/12/11 18:14	100-02-7	
N-Nitroso-di-n-propylamine	ND	ug/L	10.5	1	07/11/11 22:50	07/12/11 18:14	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	10.5	1	07/11/11 22:50	07/12/11 18:14	86-30-6	
Pentachlorophenol	ND	ug/L	52.6	1	07/11/11 22:50	07/12/11 18:14	87-86-5	
Phenanthrene	ND	ug/L	10.5	1	07/11/11 22:50	07/12/11 18:14	85-01-8	
Phenol	ND	ug/L	10.5	1	07/11/11 22:50	07/12/11 18:14	108-95-2	
Pyrene	ND	ug/L	10.5	1	07/11/11 22:50	07/12/11 18:14	129-00-0	
2,4,5-Trichlorophenol	ND	ug/L	10.5	1	07/11/11 22:50	07/12/11 18:14	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.5	1	07/11/11 22:50	07/12/11 18:14	88-06-2	
Nitrobenzene-d5 (S)	83	%	33-108	1	07/11/11 22:50	07/12/11 18:14	4165-60-0	
2-Fluorobiphenyl (S)	79	%	34-106	1	07/11/11 22:50	07/12/11 18:14	321-60-8	
Terphenyl-d14 (S)	78	%	31-122	1	07/11/11 22:50	07/12/11 18:14	1718-51-0	
Phenol-d6 (S)	34	%	10-56	1	07/11/11 22:50	07/12/11 18:14	13127-88-3	
2-Fluorophenol (S)	52	%	10-74	1	07/11/11 22:50	07/12/11 18:14	367-12-4	
2,4,6-Tribromophenol (S)	92	%	32-124	1	07/11/11 22:50	07/12/11 18:14	118-79-6	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		07/18/11 12:55	67-64-1	
Acrolein	ND	ug/L	50.0	1		07/18/11 12:55	107-02-8	
Acrylonitrile	ND	ug/L	100	1		07/18/11 12:55	107-13-1	
Benzene	ND	ug/L	5.0	1		07/18/11 12:55	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		07/18/11 12:55	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		07/18/11 12:55	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		07/18/11 12:55	75-27-4	
Bromoform	ND	ug/L	5.0	1		07/18/11 12:55	75-25-2	
Bromomethane	ND	ug/L	5.0	1		07/18/11 12:55	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		07/18/11 12:55	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		07/18/11 12:55	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		07/18/11 12:55	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		07/18/11 12:55	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		07/18/11 12:55	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		07/18/11 12:55	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		07/18/11 12:55	108-90-7	
Chloroethane	ND	ug/L	5.0	1		07/18/11 12:55	75-00-3	
Chloroform	ND	ug/L	5.0	1		07/18/11 12:55	67-66-3	
Chloromethane	ND	ug/L	5.0	1		07/18/11 12:55	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		07/18/11 12:55	95-49-8	

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ANALYTICAL RESULTS

Project: Carpenter 2339-353-03
Pace Project No.: 5050590

Sample: P-8 **Lab ID: 5050590001** Collected: 07/07/11 06:40 Received: 07/09/11 10:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
4-Chlorotoluene	ND	ug/L	5.0	1		07/18/11 12:55	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		07/18/11 12:55	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		07/18/11 12:55	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		07/18/11 12:55	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		07/18/11 12:55	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		07/18/11 12:55	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		07/18/11 12:55	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		07/18/11 12:55	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		07/18/11 12:55	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		07/18/11 12:55	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		07/18/11 12:55	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		07/18/11 12:55	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		07/18/11 12:55	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		07/18/11 12:55	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		07/18/11 12:55	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		07/18/11 12:55	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		07/18/11 12:55	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		07/18/11 12:55	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		07/18/11 12:55	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		07/18/11 12:55	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		07/18/11 12:55	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		07/18/11 12:55	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		07/18/11 12:55	87-68-3	
n-Hexane	ND	ug/L	5.0	1		07/18/11 12:55	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		07/18/11 12:55	591-78-6	
Iodomethane	ND	ug/L	10.0	1		07/18/11 12:55	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		07/18/11 12:55	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		07/18/11 12:55	99-87-6	
Methylene chloride	ND	ug/L	5.0	1		07/18/11 12:55	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		07/18/11 12:55	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		07/18/11 12:55	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		07/18/11 12:55	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		07/18/11 12:55	103-65-1	
Styrene	ND	ug/L	5.0	1		07/18/11 12:55	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		07/18/11 12:55	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		07/18/11 12:55	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		07/18/11 12:55	127-18-4	
Toluene	ND	ug/L	5.0	1		07/18/11 12:55	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		07/18/11 12:55	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		07/18/11 12:55	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		07/18/11 12:55	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		07/18/11 12:55	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		07/18/11 12:55	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		07/18/11 12:55	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		07/18/11 12:55	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		07/18/11 12:55	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		07/18/11 12:55	108-67-8	

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ANALYTICAL RESULTS

Project: Carpenter 2339-353-03
Pace Project No.: 5050590

Sample: P-8 **Lab ID: 5050590001** Collected: 07/07/11 06:40 Received: 07/09/11 10:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Vinyl acetate	ND	ug/L	50.0	1		07/18/11 12:55	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		07/18/11 12:55	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		07/18/11 12:55	1330-20-7	
Dibromofluoromethane (S)	98	%	83-123	1		07/18/11 12:55	1868-53-7	
4-Bromofluorobenzene (S)	97	%	72-125	1		07/18/11 12:55	460-00-4	
Toluene-d8 (S)	98	%	81-114	1		07/18/11 12:55	2037-26-5	

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ANALYTICAL RESULTS

Project: Carpenter 2339-353-03
Pace Project No.: 5050590

Sample: P-7 **Lab ID: 5050590002** Collected: 07/07/11 07:40 Received: 07/09/11 10:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel	Analytical Method: EPA 8015 Modified Preparation Method: EPA 3510							
Diesel Range Organics (C8-C28)	ND	mg/L	0.11	1	07/12/11 02:10	07/12/11 10:13		
n-Pentacosane (S)	40	%	20-108	1	07/12/11 02:10	07/12/11 10:13	629-99-2	
Gasoline Range Organics	Analytical Method: EPA 5030/8015 Mod.							
Gasoline Range Organics	ND	mg/L	0.20	1		07/13/11 16:36		
TPH (C06-C10)	ND	mg/L	0.20	1		07/13/11 16:36		
TPH (C06-C12)	ND	mg/L	0.20	1		07/13/11 16:36		
4-Bromofluorobenzene (S)	84	%	45-130	1		07/13/11 16:36	460-00-4	
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	10.9	1	07/11/11 22:50	07/12/11 18:35	83-32-9	
Acenaphthylene	ND	ug/L	10.9	1	07/11/11 22:50	07/12/11 18:35	208-96-8	
Anthracene	ND	ug/L	10.9	1	07/11/11 22:50	07/12/11 18:35	120-12-7	
Benzo(a)anthracene	ND	ug/L	10.9	1	07/11/11 22:50	07/12/11 18:35	56-55-3	
Benzo(a)pyrene	ND	ug/L	10.9	1	07/11/11 22:50	07/12/11 18:35	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	10.9	1	07/11/11 22:50	07/12/11 18:35	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	10.9	1	07/11/11 22:50	07/12/11 18:35	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	10.9	1	07/11/11 22:50	07/12/11 18:35	207-08-9	
Benzyl alcohol	ND	ug/L	21.7	1	07/11/11 22:50	07/12/11 18:35	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	10.9	1	07/11/11 22:50	07/12/11 18:35	101-55-3	
Butylbenzylphthalate	ND	ug/L	10.9	1	07/11/11 22:50	07/12/11 18:35	85-68-7	
4-Chloro-3-methylphenol	ND	ug/L	21.7	1	07/11/11 22:50	07/12/11 18:35	59-50-7	
4-Chloroaniline	ND	ug/L	21.7	1	07/11/11 22:50	07/12/11 18:35	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	10.9	1	07/11/11 22:50	07/12/11 18:35	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.9	1	07/11/11 22:50	07/12/11 18:35	111-44-4	
bis(2chloro1methylethyl) ether	ND	ug/L	5.4	1	07/11/11 22:50	07/12/11 18:35	108-60-1	
2-Chloronaphthalene	ND	ug/L	10.9	1	07/11/11 22:50	07/12/11 18:35	91-58-7	
2-Chlorophenol	ND	ug/L	10.9	1	07/11/11 22:50	07/12/11 18:35	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	10.9	1	07/11/11 22:50	07/12/11 18:35	7005-72-3	
Chrysene	ND	ug/L	10.9	1	07/11/11 22:50	07/12/11 18:35	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	10.9	1	07/11/11 22:50	07/12/11 18:35	53-70-3	
Dibenzofuran	ND	ug/L	10.9	1	07/11/11 22:50	07/12/11 18:35	132-64-9	
3,3'-Dichlorobenzidine	ND	ug/L	21.7	1	07/11/11 22:50	07/12/11 18:35	91-94-1	
2,4-Dichlorophenol	ND	ug/L	10.9	1	07/11/11 22:50	07/12/11 18:35	120-83-2	
Diethylphthalate	ND	ug/L	10.9	1	07/11/11 22:50	07/12/11 18:35	84-66-2	
2,4-Dimethylphenol	ND	ug/L	10.9	1	07/11/11 22:50	07/12/11 18:35	105-67-9	
Dimethylphthalate	ND	ug/L	10.9	1	07/11/11 22:50	07/12/11 18:35	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.9	1	07/11/11 22:50	07/12/11 18:35	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	54.3	1	07/11/11 22:50	07/12/11 18:35	534-52-1	
2,4-Dinitrophenol	ND	ug/L	54.3	1	07/11/11 22:50	07/12/11 18:35	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	10.9	1	07/11/11 22:50	07/12/11 18:35	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.9	1	07/11/11 22:50	07/12/11 18:35	606-20-2	
Di-n-octylphthalate	ND	ug/L	10.9	1	07/11/11 22:50	07/12/11 18:35	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	5.4	1	07/11/11 22:50	07/12/11 18:35	117-81-7	
Fluoranthene	ND	ug/L	10.9	1	07/11/11 22:50	07/12/11 18:35	206-44-0	
Fluorene	ND	ug/L	10.9	1	07/11/11 22:50	07/12/11 18:35	86-73-7	

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(317)875-5894

ANALYTICAL RESULTS

Project: Carpenter 2339-353-03
Pace Project No.: 5050590

Sample: P-7 **Lab ID: 5050590002** Collected: 07/07/11 07:40 Received: 07/09/11 10:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Hexachloro-1,3-butadiene	ND	ug/L	5.4	1	07/11/11 22:50	07/12/11 18:35	87-68-3	
Hexachlorobenzene	ND	ug/L	10.9	1	07/11/11 22:50	07/12/11 18:35	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	21.7	1	07/11/11 22:50	07/12/11 18:35	77-47-4	
Hexachloroethane	ND	ug/L	10.9	1	07/11/11 22:50	07/12/11 18:35	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	10.9	1	07/11/11 22:50	07/12/11 18:35	193-39-5	
Isophorone	ND	ug/L	10.9	1	07/11/11 22:50	07/12/11 18:35	78-59-1	
2-Methylnaphthalene	ND	ug/L	10.9	1	07/11/11 22:50	07/12/11 18:35	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	10.9	1	07/11/11 22:50	07/12/11 18:35	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	21.7	1	07/11/11 22:50	07/12/11 18:35		
Naphthalene	ND	ug/L	5.4	1	07/11/11 22:50	07/12/11 18:35	91-20-3	
2-Nitroaniline	ND	ug/L	54.3	1	07/11/11 22:50	07/12/11 18:35	88-74-4	
3-Nitroaniline	ND	ug/L	54.3	1	07/11/11 22:50	07/12/11 18:35	99-09-2	
4-Nitroaniline	ND	ug/L	54.3	1	07/11/11 22:50	07/12/11 18:35	100-01-6	
Nitrobenzene	ND	ug/L	10.9	1	07/11/11 22:50	07/12/11 18:35	98-95-3	
2-Nitrophenol	ND	ug/L	10.9	1	07/11/11 22:50	07/12/11 18:35	88-75-5	
4-Nitrophenol	ND	ug/L	54.3	1	07/11/11 22:50	07/12/11 18:35	100-02-7	
N-Nitroso-di-n-propylamine	ND	ug/L	10.9	1	07/11/11 22:50	07/12/11 18:35	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	10.9	1	07/11/11 22:50	07/12/11 18:35	86-30-6	
Pentachlorophenol	ND	ug/L	54.3	1	07/11/11 22:50	07/12/11 18:35	87-86-5	
Phenanthrene	ND	ug/L	10.9	1	07/11/11 22:50	07/12/11 18:35	85-01-8	
Phenol	ND	ug/L	10.9	1	07/11/11 22:50	07/12/11 18:35	108-95-2	
Pyrene	ND	ug/L	10.9	1	07/11/11 22:50	07/12/11 18:35	129-00-0	
2,4,5-Trichlorophenol	ND	ug/L	10.9	1	07/11/11 22:50	07/12/11 18:35	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.9	1	07/11/11 22:50	07/12/11 18:35	88-06-2	
Nitrobenzene-d5 (S)	84	%	33-108	1	07/11/11 22:50	07/12/11 18:35	4165-60-0	
2-Fluorobiphenyl (S)	78	%	34-106	1	07/11/11 22:50	07/12/11 18:35	321-60-8	
Terphenyl-d14 (S)	82	%	31-122	1	07/11/11 22:50	07/12/11 18:35	1718-51-0	
Phenol-d6 (S)	33	%	10-56	1	07/11/11 22:50	07/12/11 18:35	13127-88-3	
2-Fluorophenol (S)	50	%	10-74	1	07/11/11 22:50	07/12/11 18:35	367-12-4	
2,4,6-Tribromophenol (S)	92	%	32-124	1	07/11/11 22:50	07/12/11 18:35	118-79-6	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		07/18/11 13:33	67-64-1	
Acrolein	ND	ug/L	50.0	1		07/18/11 13:33	107-02-8	
Acrylonitrile	ND	ug/L	100	1		07/18/11 13:33	107-13-1	
Benzene	ND	ug/L	5.0	1		07/18/11 13:33	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		07/18/11 13:33	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		07/18/11 13:33	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		07/18/11 13:33	75-27-4	
Bromoform	ND	ug/L	5.0	1		07/18/11 13:33	75-25-2	
Bromomethane	ND	ug/L	5.0	1		07/18/11 13:33	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		07/18/11 13:33	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		07/18/11 13:33	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		07/18/11 13:33	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		07/18/11 13:33	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		07/18/11 13:33	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		07/18/11 13:33	56-23-5	

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ANALYTICAL RESULTS

Project: Carpenter 2339-353-03
Pace Project No.: 5050590

Sample: P-7 **Lab ID: 5050590002** Collected: 07/07/11 07:40 Received: 07/09/11 10:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Chlorobenzene	ND	ug/L	5.0	1		07/18/11 13:33	108-90-7	
Chloroethane	ND	ug/L	5.0	1		07/18/11 13:33	75-00-3	
Chloroform	ND	ug/L	5.0	1		07/18/11 13:33	67-66-3	
Chloromethane	ND	ug/L	5.0	1		07/18/11 13:33	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		07/18/11 13:33	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		07/18/11 13:33	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		07/18/11 13:33	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		07/18/11 13:33	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		07/18/11 13:33	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		07/18/11 13:33	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		07/18/11 13:33	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		07/18/11 13:33	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		07/18/11 13:33	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		07/18/11 13:33	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		07/18/11 13:33	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		07/18/11 13:33	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		07/18/11 13:33	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		07/18/11 13:33	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		07/18/11 13:33	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		07/18/11 13:33	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		07/18/11 13:33	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		07/18/11 13:33	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		07/18/11 13:33	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		07/18/11 13:33	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		07/18/11 13:33	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		07/18/11 13:33	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		07/18/11 13:33	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		07/18/11 13:33	87-68-3	
n-Hexane	ND	ug/L	5.0	1		07/18/11 13:33	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		07/18/11 13:33	591-78-6	
Iodomethane	ND	ug/L	10.0	1		07/18/11 13:33	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		07/18/11 13:33	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		07/18/11 13:33	99-87-6	
Methylene chloride	ND	ug/L	5.0	1		07/18/11 13:33	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		07/18/11 13:33	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		07/18/11 13:33	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		07/18/11 13:33	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		07/18/11 13:33	103-65-1	
Styrene	ND	ug/L	5.0	1		07/18/11 13:33	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		07/18/11 13:33	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		07/18/11 13:33	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		07/18/11 13:33	127-18-4	
Toluene	ND	ug/L	5.0	1		07/18/11 13:33	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		07/18/11 13:33	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		07/18/11 13:33	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		07/18/11 13:33	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		07/18/11 13:33	79-00-5	

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ANALYTICAL RESULTS

Project: Carpenter 2339-353-03
Pace Project No.: 5050590

Sample: P-7 **Lab ID: 5050590002** Collected: 07/07/11 07:40 Received: 07/09/11 10:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Trichloroethene	ND	ug/L	5.0	1		07/18/11 13:33	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		07/18/11 13:33	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		07/18/11 13:33	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		07/18/11 13:33	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		07/18/11 13:33	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		07/18/11 13:33	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		07/18/11 13:33	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		07/18/11 13:33	1330-20-7	
Dibromofluoromethane (S)	98	%	83-123	1		07/18/11 13:33	1868-53-7	
4-Bromofluorobenzene (S)	97	%	72-125	1		07/18/11 13:33	460-00-4	
Toluene-d8 (S)	99	%	81-114	1		07/18/11 13:33	2037-26-5	

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ANALYTICAL RESULTS

Project: Carpenter 2339-353-03
Pace Project No.: 5050590

Sample: P-5 **Lab ID: 5050590003** Collected: 07/07/11 08:30 Received: 07/09/11 10:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel	Analytical Method: EPA 8015 Modified Preparation Method: EPA 3510							
Diesel Range Organics (C8-C28)	ND	mg/L	0.11	1	07/12/11 02:10	07/12/11 10:20		
n-Pentacosane (S)	59	%	20-108	1	07/12/11 02:10	07/12/11 10:20	629-99-2	
Gasoline Range Organics	Analytical Method: EPA 5030/8015 Mod.							
Gasoline Range Organics	ND	mg/L	0.20	1		07/13/11 21:18		
TPH (C06-C10)	ND	mg/L	0.20	1		07/13/11 21:18		
TPH (C06-C12)	ND	mg/L	0.20	1		07/13/11 21:18		
4-Bromofluorobenzene (S)	82	%	45-130	1		07/13/11 21:18	460-00-4	
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	10.8	1	07/11/11 22:50	07/12/11 18:55	83-32-9	
Acenaphthylene	ND	ug/L	10.8	1	07/11/11 22:50	07/12/11 18:55	208-96-8	
Anthracene	ND	ug/L	10.8	1	07/11/11 22:50	07/12/11 18:55	120-12-7	
Benzo(a)anthracene	ND	ug/L	10.8	1	07/11/11 22:50	07/12/11 18:55	56-55-3	
Benzo(a)pyrene	ND	ug/L	10.8	1	07/11/11 22:50	07/12/11 18:55	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	10.8	1	07/11/11 22:50	07/12/11 18:55	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	10.8	1	07/11/11 22:50	07/12/11 18:55	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	10.8	1	07/11/11 22:50	07/12/11 18:55	207-08-9	
Benzyl alcohol	ND	ug/L	21.5	1	07/11/11 22:50	07/12/11 18:55	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	10.8	1	07/11/11 22:50	07/12/11 18:55	101-55-3	
Butylbenzylphthalate	ND	ug/L	10.8	1	07/11/11 22:50	07/12/11 18:55	85-68-7	
4-Chloro-3-methylphenol	ND	ug/L	21.5	1	07/11/11 22:50	07/12/11 18:55	59-50-7	
4-Chloroaniline	ND	ug/L	21.5	1	07/11/11 22:50	07/12/11 18:55	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	10.8	1	07/11/11 22:50	07/12/11 18:55	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.8	1	07/11/11 22:50	07/12/11 18:55	111-44-4	
bis(2chloro1methylethyl) ether	ND	ug/L	5.4	1	07/11/11 22:50	07/12/11 18:55	108-60-1	
2-Chloronaphthalene	ND	ug/L	10.8	1	07/11/11 22:50	07/12/11 18:55	91-58-7	
2-Chlorophenol	ND	ug/L	10.8	1	07/11/11 22:50	07/12/11 18:55	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	10.8	1	07/11/11 22:50	07/12/11 18:55	7005-72-3	
Chrysene	ND	ug/L	10.8	1	07/11/11 22:50	07/12/11 18:55	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	10.8	1	07/11/11 22:50	07/12/11 18:55	53-70-3	
Dibenzofuran	ND	ug/L	10.8	1	07/11/11 22:50	07/12/11 18:55	132-64-9	
3,3'-Dichlorobenzidine	ND	ug/L	21.5	1	07/11/11 22:50	07/12/11 18:55	91-94-1	
2,4-Dichlorophenol	ND	ug/L	10.8	1	07/11/11 22:50	07/12/11 18:55	120-83-2	
Diethylphthalate	ND	ug/L	10.8	1	07/11/11 22:50	07/12/11 18:55	84-66-2	
2,4-Dimethylphenol	ND	ug/L	10.8	1	07/11/11 22:50	07/12/11 18:55	105-67-9	
Dimethylphthalate	ND	ug/L	10.8	1	07/11/11 22:50	07/12/11 18:55	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.8	1	07/11/11 22:50	07/12/11 18:55	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	53.8	1	07/11/11 22:50	07/12/11 18:55	534-52-1	
2,4-Dinitrophenol	ND	ug/L	53.8	1	07/11/11 22:50	07/12/11 18:55	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	10.8	1	07/11/11 22:50	07/12/11 18:55	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.8	1	07/11/11 22:50	07/12/11 18:55	606-20-2	
Di-n-octylphthalate	ND	ug/L	10.8	1	07/11/11 22:50	07/12/11 18:55	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	5.4	1	07/11/11 22:50	07/12/11 18:55	117-81-7	
Fluoranthene	ND	ug/L	10.8	1	07/11/11 22:50	07/12/11 18:55	206-44-0	
Fluorene	ND	ug/L	10.8	1	07/11/11 22:50	07/12/11 18:55	86-73-7	

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ANALYTICAL RESULTS

Project: Carpenter 2339-353-03
Pace Project No.: 5050590

Sample: P-5 **Lab ID: 5050590003** Collected: 07/07/11 08:30 Received: 07/09/11 10:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Hexachloro-1,3-butadiene	ND	ug/L	5.4	1	07/11/11 22:50	07/12/11 18:55	87-68-3	
Hexachlorobenzene	ND	ug/L	10.8	1	07/11/11 22:50	07/12/11 18:55	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	21.5	1	07/11/11 22:50	07/12/11 18:55	77-47-4	
Hexachloroethane	ND	ug/L	10.8	1	07/11/11 22:50	07/12/11 18:55	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	10.8	1	07/11/11 22:50	07/12/11 18:55	193-39-5	
Isophorone	ND	ug/L	10.8	1	07/11/11 22:50	07/12/11 18:55	78-59-1	
2-Methylnaphthalene	ND	ug/L	10.8	1	07/11/11 22:50	07/12/11 18:55	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	10.8	1	07/11/11 22:50	07/12/11 18:55	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	21.5	1	07/11/11 22:50	07/12/11 18:55		
Naphthalene	ND	ug/L	5.4	1	07/11/11 22:50	07/12/11 18:55	91-20-3	
2-Nitroaniline	ND	ug/L	53.8	1	07/11/11 22:50	07/12/11 18:55	88-74-4	
3-Nitroaniline	ND	ug/L	53.8	1	07/11/11 22:50	07/12/11 18:55	99-09-2	
4-Nitroaniline	ND	ug/L	53.8	1	07/11/11 22:50	07/12/11 18:55	100-01-6	
Nitrobenzene	ND	ug/L	10.8	1	07/11/11 22:50	07/12/11 18:55	98-95-3	
2-Nitrophenol	ND	ug/L	10.8	1	07/11/11 22:50	07/12/11 18:55	88-75-5	
4-Nitrophenol	ND	ug/L	53.8	1	07/11/11 22:50	07/12/11 18:55	100-02-7	
N-Nitroso-di-n-propylamine	ND	ug/L	10.8	1	07/11/11 22:50	07/12/11 18:55	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	10.8	1	07/11/11 22:50	07/12/11 18:55	86-30-6	
Pentachlorophenol	ND	ug/L	53.8	1	07/11/11 22:50	07/12/11 18:55	87-86-5	
Phenanthrene	ND	ug/L	10.8	1	07/11/11 22:50	07/12/11 18:55	85-01-8	
Phenol	ND	ug/L	10.8	1	07/11/11 22:50	07/12/11 18:55	108-95-2	
Pyrene	ND	ug/L	10.8	1	07/11/11 22:50	07/12/11 18:55	129-00-0	
2,4,5-Trichlorophenol	ND	ug/L	10.8	1	07/11/11 22:50	07/12/11 18:55	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.8	1	07/11/11 22:50	07/12/11 18:55	88-06-2	
Nitrobenzene-d5 (S)	87	%	33-108	1	07/11/11 22:50	07/12/11 18:55	4165-60-0	
2-Fluorobiphenyl (S)	83	%	34-106	1	07/11/11 22:50	07/12/11 18:55	321-60-8	
Terphenyl-d14 (S)	87	%	31-122	1	07/11/11 22:50	07/12/11 18:55	1718-51-0	
Phenol-d6 (S)	33	%	10-56	1	07/11/11 22:50	07/12/11 18:55	13127-88-3	
2-Fluorophenol (S)	51	%	10-74	1	07/11/11 22:50	07/12/11 18:55	367-12-4	
2,4,6-Tribromophenol (S)	91	%	32-124	1	07/11/11 22:50	07/12/11 18:55	118-79-6	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		07/18/11 14:10	67-64-1	
Acrolein	ND	ug/L	50.0	1		07/18/11 14:10	107-02-8	
Acrylonitrile	ND	ug/L	100	1		07/18/11 14:10	107-13-1	
Benzene	ND	ug/L	5.0	1		07/18/11 14:10	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		07/18/11 14:10	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		07/18/11 14:10	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		07/18/11 14:10	75-27-4	
Bromoform	ND	ug/L	5.0	1		07/18/11 14:10	75-25-2	
Bromomethane	ND	ug/L	5.0	1		07/18/11 14:10	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		07/18/11 14:10	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		07/18/11 14:10	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		07/18/11 14:10	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		07/18/11 14:10	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		07/18/11 14:10	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		07/18/11 14:10	56-23-5	

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ANALYTICAL RESULTS

Project: Carpenter 2339-353-03
Pace Project No.: 5050590

Sample: P-5 **Lab ID: 5050590003** Collected: 07/07/11 08:30 Received: 07/09/11 10:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Chlorobenzene	ND	ug/L	5.0	1		07/18/11 14:10	108-90-7	
Chloroethane	ND	ug/L	5.0	1		07/18/11 14:10	75-00-3	
Chloroform	ND	ug/L	5.0	1		07/18/11 14:10	67-66-3	
Chloromethane	ND	ug/L	5.0	1		07/18/11 14:10	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		07/18/11 14:10	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		07/18/11 14:10	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		07/18/11 14:10	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		07/18/11 14:10	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		07/18/11 14:10	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		07/18/11 14:10	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		07/18/11 14:10	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		07/18/11 14:10	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		07/18/11 14:10	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		07/18/11 14:10	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		07/18/11 14:10	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		07/18/11 14:10	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		07/18/11 14:10	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		07/18/11 14:10	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		07/18/11 14:10	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		07/18/11 14:10	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		07/18/11 14:10	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		07/18/11 14:10	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		07/18/11 14:10	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		07/18/11 14:10	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		07/18/11 14:10	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		07/18/11 14:10	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		07/18/11 14:10	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		07/18/11 14:10	87-68-3	
n-Hexane	ND	ug/L	5.0	1		07/18/11 14:10	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		07/18/11 14:10	591-78-6	
Iodomethane	ND	ug/L	10.0	1		07/18/11 14:10	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		07/18/11 14:10	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		07/18/11 14:10	99-87-6	
Methylene chloride	ND	ug/L	5.0	1		07/18/11 14:10	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		07/18/11 14:10	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		07/18/11 14:10	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		07/18/11 14:10	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		07/18/11 14:10	103-65-1	
Styrene	ND	ug/L	5.0	1		07/18/11 14:10	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		07/18/11 14:10	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		07/18/11 14:10	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		07/18/11 14:10	127-18-4	
Toluene	ND	ug/L	5.0	1		07/18/11 14:10	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		07/18/11 14:10	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		07/18/11 14:10	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		07/18/11 14:10	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		07/18/11 14:10	79-00-5	

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ANALYTICAL RESULTS

Project: Carpenter 2339-353-03
Pace Project No.: 5050590

Sample: P-5 **Lab ID: 5050590003** Collected: 07/07/11 08:30 Received: 07/09/11 10:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Trichloroethene	ND	ug/L	5.0	1		07/18/11 14:10	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		07/18/11 14:10	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		07/18/11 14:10	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		07/18/11 14:10	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		07/18/11 14:10	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		07/18/11 14:10	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		07/18/11 14:10	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		07/18/11 14:10	1330-20-7	
Dibromofluoromethane (S)	98	%	83-123	1		07/18/11 14:10	1868-53-7	
4-Bromofluorobenzene (S)	96	%	72-125	1		07/18/11 14:10	460-00-4	
Toluene-d8 (S)	99	%	81-114	1		07/18/11 14:10	2037-26-5	

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ANALYTICAL RESULTS

Project: Carpenter 2339-353-03
Pace Project No.: 5050590

Sample: P-4 **Lab ID: 5050590004** Collected: 07/07/11 09:50 Received: 07/09/11 10:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel	Analytical Method: EPA 8015 Modified Preparation Method: EPA 3510							
Diesel Range Organics (C8-C28)	**0.41**	mg/L	0.12	1	07/12/11 02:10	07/12/11 09:19		
n-Pentacosane (S)	42	%	20-108	1	07/12/11 02:10	07/12/11 09:19	629-99-2	
Gasoline Range Organics	Analytical Method: EPA 5030/8015 Mod.							
Gasoline Range Organics	**0.40**	mg/L	0.20	1		07/13/11 17:01		
TPH (C06-C10)	**0.30**	mg/L	0.20	1		07/13/11 17:01		
TPH (C06-C12)	**0.45**	mg/L	0.20	1		07/13/11 17:01		
4-Bromofluorobenzene (S)	91	%	45-130	1		07/13/11 17:01	460-00-4	
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	12.5	1	07/11/11 22:50	07/12/11 19:57	83-32-9	
Acenaphthylene	ND	ug/L	12.5	1	07/11/11 22:50	07/12/11 19:57	208-96-8	
Anthracene	ND	ug/L	12.5	1	07/11/11 22:50	07/12/11 19:57	120-12-7	
Benzo(a)anthracene	ND	ug/L	12.5	1	07/11/11 22:50	07/12/11 19:57	56-55-3	
Benzo(a)pyrene	ND	ug/L	12.5	1	07/11/11 22:50	07/12/11 19:57	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	12.5	1	07/11/11 22:50	07/12/11 19:57	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	12.5	1	07/11/11 22:50	07/12/11 19:57	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	12.5	1	07/11/11 22:50	07/12/11 19:57	207-08-9	
Benzyl alcohol	ND	ug/L	25.0	1	07/11/11 22:50	07/12/11 19:57	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	12.5	1	07/11/11 22:50	07/12/11 19:57	101-55-3	
Butylbenzylphthalate	ND	ug/L	12.5	1	07/11/11 22:50	07/12/11 19:57	85-68-7	
4-Chloro-3-methylphenol	ND	ug/L	25.0	1	07/11/11 22:50	07/12/11 19:57	59-50-7	
4-Chloroaniline	ND	ug/L	25.0	1	07/11/11 22:50	07/12/11 19:57	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	12.5	1	07/11/11 22:50	07/12/11 19:57	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	12.5	1	07/11/11 22:50	07/12/11 19:57	111-44-4	
bis(2chloro1methylethyl) ether	ND	ug/L	6.2	1	07/11/11 22:50	07/12/11 19:57	108-60-1	
2-Chloronaphthalene	ND	ug/L	12.5	1	07/11/11 22:50	07/12/11 19:57	91-58-7	
2-Chlorophenol	ND	ug/L	12.5	1	07/11/11 22:50	07/12/11 19:57	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	12.5	1	07/11/11 22:50	07/12/11 19:57	7005-72-3	
Chrysene	ND	ug/L	12.5	1	07/11/11 22:50	07/12/11 19:57	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	12.5	1	07/11/11 22:50	07/12/11 19:57	53-70-3	
Dibenzofuran	ND	ug/L	12.5	1	07/11/11 22:50	07/12/11 19:57	132-64-9	
3,3'-Dichlorobenzidine	ND	ug/L	25.0	1	07/11/11 22:50	07/12/11 19:57	91-94-1	
2,4-Dichlorophenol	ND	ug/L	12.5	1	07/11/11 22:50	07/12/11 19:57	120-83-2	
Diethylphthalate	ND	ug/L	12.5	1	07/11/11 22:50	07/12/11 19:57	84-66-2	
2,4-Dimethylphenol	ND	ug/L	12.5	1	07/11/11 22:50	07/12/11 19:57	105-67-9	
Dimethylphthalate	ND	ug/L	12.5	1	07/11/11 22:50	07/12/11 19:57	131-11-3	
Di-n-butylphthalate	ND	ug/L	12.5	1	07/11/11 22:50	07/12/11 19:57	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	62.5	1	07/11/11 22:50	07/12/11 19:57	534-52-1	
2,4-Dinitrophenol	ND	ug/L	62.5	1	07/11/11 22:50	07/12/11 19:57	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	12.5	1	07/11/11 22:50	07/12/11 19:57	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	12.5	1	07/11/11 22:50	07/12/11 19:57	606-20-2	
Di-n-octylphthalate	ND	ug/L	12.5	1	07/11/11 22:50	07/12/11 19:57	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	6.2	1	07/11/11 22:50	07/12/11 19:57	117-81-7	
Fluoranthene	ND	ug/L	12.5	1	07/11/11 22:50	07/12/11 19:57	206-44-0	
Fluorene	ND	ug/L	12.5	1	07/11/11 22:50	07/12/11 19:57	86-73-7	

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ANALYTICAL RESULTS

Project: Carpenter 2339-353-03
Pace Project No.: 5050590

Sample: P-4 **Lab ID: 5050590004** Collected: 07/07/11 09:50 Received: 07/09/11 10:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Hexachloro-1,3-butadiene	ND	ug/L	6.2	1	07/11/11 22:50	07/12/11 19:57	87-68-3	
Hexachlorobenzene	ND	ug/L	12.5	1	07/11/11 22:50	07/12/11 19:57	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	25.0	1	07/11/11 22:50	07/12/11 19:57	77-47-4	
Hexachloroethane	ND	ug/L	12.5	1	07/11/11 22:50	07/12/11 19:57	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	12.5	1	07/11/11 22:50	07/12/11 19:57	193-39-5	
Isophorone	ND	ug/L	12.5	1	07/11/11 22:50	07/12/11 19:57	78-59-1	
2-Methylnaphthalene	ND	ug/L	12.5	1	07/11/11 22:50	07/12/11 19:57	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	12.5	1	07/11/11 22:50	07/12/11 19:57	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	25.0	1	07/11/11 22:50	07/12/11 19:57		
Naphthalene	ND	ug/L	6.2	1	07/11/11 22:50	07/12/11 19:57	91-20-3	
2-Nitroaniline	ND	ug/L	62.5	1	07/11/11 22:50	07/12/11 19:57	88-74-4	
3-Nitroaniline	ND	ug/L	62.5	1	07/11/11 22:50	07/12/11 19:57	99-09-2	
4-Nitroaniline	ND	ug/L	62.5	1	07/11/11 22:50	07/12/11 19:57	100-01-6	
Nitrobenzene	ND	ug/L	12.5	1	07/11/11 22:50	07/12/11 19:57	98-95-3	
2-Nitrophenol	ND	ug/L	12.5	1	07/11/11 22:50	07/12/11 19:57	88-75-5	
4-Nitrophenol	ND	ug/L	62.5	1	07/11/11 22:50	07/12/11 19:57	100-02-7	
N-Nitroso-di-n-propylamine	ND	ug/L	12.5	1	07/11/11 22:50	07/12/11 19:57	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	12.5	1	07/11/11 22:50	07/12/11 19:57	86-30-6	
Pentachlorophenol	ND	ug/L	62.5	1	07/11/11 22:50	07/12/11 19:57	87-86-5	
Phenanthrene	ND	ug/L	12.5	1	07/11/11 22:50	07/12/11 19:57	85-01-8	
Phenol	ND	ug/L	12.5	1	07/11/11 22:50	07/12/11 19:57	108-95-2	
Pyrene	ND	ug/L	12.5	1	07/11/11 22:50	07/12/11 19:57	129-00-0	
2,4,5-Trichlorophenol	ND	ug/L	12.5	1	07/11/11 22:50	07/12/11 19:57	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	12.5	1	07/11/11 22:50	07/12/11 19:57	88-06-2	
Nitrobenzene-d5 (S)	86	%	33-108	1	07/11/11 22:50	07/12/11 19:57	4165-60-0	
2-Fluorobiphenyl (S)	83	%	34-106	1	07/11/11 22:50	07/12/11 19:57	321-60-8	
Terphenyl-d14 (S)	67	%	31-122	1	07/11/11 22:50	07/12/11 19:57	1718-51-0	
Phenol-d6 (S)	33	%	10-56	1	07/11/11 22:50	07/12/11 19:57	13127-88-3	
2-Fluorophenol (S)	51	%	10-74	1	07/11/11 22:50	07/12/11 19:57	367-12-4	
2,4,6-Tribromophenol (S)	100	%	32-124	1	07/11/11 22:50	07/12/11 19:57	118-79-6	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		07/18/11 16:03	67-64-1	
Acrolein	ND	ug/L	50.0	1		07/18/11 16:03	107-02-8	
Acrylonitrile	ND	ug/L	100	1		07/18/11 16:03	107-13-1	
Benzene	ND	ug/L	5.0	1		07/18/11 16:03	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		07/18/11 16:03	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		07/18/11 16:03	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		07/18/11 16:03	75-27-4	
Bromoform	ND	ug/L	5.0	1		07/18/11 16:03	75-25-2	
Bromomethane	ND	ug/L	5.0	1		07/18/11 16:03	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		07/18/11 16:03	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		07/18/11 16:03	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		07/18/11 16:03	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		07/18/11 16:03	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		07/18/11 16:03	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		07/18/11 16:03	56-23-5	

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ANALYTICAL RESULTS

Project: Carpenter 2339-353-03
Pace Project No.: 5050590

Sample: P-4 **Lab ID: 5050590004** Collected: 07/07/11 09:50 Received: 07/09/11 10:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Chlorobenzene	ND	ug/L	5.0	1		07/18/11 16:03	108-90-7	
Chloroethane	ND	ug/L	5.0	1		07/18/11 16:03	75-00-3	
Chloroform	ND	ug/L	5.0	1		07/18/11 16:03	67-66-3	
Chloromethane	ND	ug/L	5.0	1		07/18/11 16:03	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		07/18/11 16:03	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		07/18/11 16:03	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		07/18/11 16:03	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		07/18/11 16:03	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		07/18/11 16:03	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		07/18/11 16:03	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		07/18/11 16:03	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		07/18/11 16:03	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		07/18/11 16:03	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		07/18/11 16:03	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		07/18/11 16:03	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		07/18/11 16:03	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		07/18/11 16:03	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		07/18/11 16:03	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		07/18/11 16:03	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		07/18/11 16:03	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		07/18/11 16:03	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		07/18/11 16:03	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		07/18/11 16:03	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		07/18/11 16:03	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		07/18/11 16:03	10061-02-6	
Ethylbenzene	**11.2**	ug/L	5.0	1		07/18/11 16:03	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		07/18/11 16:03	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		07/18/11 16:03	87-68-3	
n-Hexane	ND	ug/L	5.0	1		07/18/11 16:03	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		07/18/11 16:03	591-78-6	
Iodomethane	ND	ug/L	10.0	1		07/18/11 16:03	74-88-4	
Isopropylbenzene (Cumene)	**41.8**	ug/L	5.0	1		07/18/11 16:03	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		07/18/11 16:03	99-87-6	
Methylene chloride	ND	ug/L	5.0	1		07/18/11 16:03	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		07/18/11 16:03	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		07/18/11 16:03	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		07/18/11 16:03	91-20-3	
n-Propylbenzene	**12.6**	ug/L	5.0	1		07/18/11 16:03	103-65-1	
Styrene	ND	ug/L	5.0	1		07/18/11 16:03	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		07/18/11 16:03	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		07/18/11 16:03	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		07/18/11 16:03	127-18-4	
Toluene	ND	ug/L	5.0	1		07/18/11 16:03	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		07/18/11 16:03	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		07/18/11 16:03	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		07/18/11 16:03	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		07/18/11 16:03	79-00-5	

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ANALYTICAL RESULTS

Project: Carpenter 2339-353-03
Pace Project No.: 5050590

Sample: P-4 **Lab ID: 5050590004** Collected: 07/07/11 09:50 Received: 07/09/11 10:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Trichloroethene	ND	ug/L	5.0	1		07/18/11 16:03	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		07/18/11 16:03	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		07/18/11 16:03	96-18-4	
1,2,4-Trimethylbenzene	**109**	ug/L	5.0	1		07/18/11 16:03	95-63-6	
1,3,5-Trimethylbenzene	**8.1**	ug/L	5.0	1		07/18/11 16:03	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		07/18/11 16:03	108-05-4	
Vinyl chloride	**2.3**	ug/L	2.0	1		07/18/11 16:03	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		07/18/11 16:03	1330-20-7	
Dibromofluoromethane (S)	97	%	83-123	1		07/18/11 16:03	1868-53-7	
4-Bromofluorobenzene (S)	97	%	72-125	1		07/18/11 16:03	460-00-4	
Toluene-d8 (S)	98	%	81-114	1		07/18/11 16:03	2037-26-5	

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ANALYTICAL RESULTS

Project: Carpenter 2339-353-03
Pace Project No.: 5050590

Sample: P-6 **Lab ID: 5050590005** Collected: 07/07/11 10:30 Received: 07/09/11 10:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel	Analytical Method: EPA 8015 Modified Preparation Method: EPA 3510							
Diesel Range Organics (C8-C28)	**0.89**	mg/L	0.10	1	07/12/11 02:10	07/12/11 09:26		
n-Pentacosane (S)	61	%	20-108	1	07/12/11 02:10	07/12/11 09:26	629-99-2	
Gasoline Range Organics	Analytical Method: EPA 5030/8015 Mod.							
Gasoline Range Organics	**3.4**	mg/L	0.20	1		07/13/11 17:27		
TPH (C06-C10)	**3.5**	mg/L	0.20	1		07/13/11 17:27		
TPH (C06-C12)	**3.5**	mg/L	0.20	1		07/13/11 17:27		
4-Bromofluorobenzene (S)	91	%	45-130	1		07/13/11 17:27	460-00-4	
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	10.4	1	07/11/11 22:50	07/12/11 20:17	83-32-9	
Acenaphthylene	ND	ug/L	10.4	1	07/11/11 22:50	07/12/11 20:17	208-96-8	
Anthracene	ND	ug/L	10.4	1	07/11/11 22:50	07/12/11 20:17	120-12-7	
Benzo(a)anthracene	ND	ug/L	10.4	1	07/11/11 22:50	07/12/11 20:17	56-55-3	
Benzo(a)pyrene	ND	ug/L	10.4	1	07/11/11 22:50	07/12/11 20:17	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	10.4	1	07/11/11 22:50	07/12/11 20:17	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	10.4	1	07/11/11 22:50	07/12/11 20:17	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	10.4	1	07/11/11 22:50	07/12/11 20:17	207-08-9	
Benzyl alcohol	ND	ug/L	20.8	1	07/11/11 22:50	07/12/11 20:17	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	10.4	1	07/11/11 22:50	07/12/11 20:17	101-55-3	
Butylbenzylphthalate	ND	ug/L	10.4	1	07/11/11 22:50	07/12/11 20:17	85-68-7	
4-Chloro-3-methylphenol	ND	ug/L	20.8	1	07/11/11 22:50	07/12/11 20:17	59-50-7	
4-Chloroaniline	ND	ug/L	20.8	1	07/11/11 22:50	07/12/11 20:17	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	10.4	1	07/11/11 22:50	07/12/11 20:17	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.4	1	07/11/11 22:50	07/12/11 20:17	111-44-4	
bis(2chloro1methylethyl) ether	ND	ug/L	5.2	1	07/11/11 22:50	07/12/11 20:17	108-60-1	
2-Chloronaphthalene	ND	ug/L	10.4	1	07/11/11 22:50	07/12/11 20:17	91-58-7	
2-Chlorophenol	ND	ug/L	10.4	1	07/11/11 22:50	07/12/11 20:17	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	10.4	1	07/11/11 22:50	07/12/11 20:17	7005-72-3	
Chrysene	ND	ug/L	10.4	1	07/11/11 22:50	07/12/11 20:17	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	10.4	1	07/11/11 22:50	07/12/11 20:17	53-70-3	
Dibenzofuran	ND	ug/L	10.4	1	07/11/11 22:50	07/12/11 20:17	132-64-9	
3,3'-Dichlorobenzidine	ND	ug/L	20.8	1	07/11/11 22:50	07/12/11 20:17	91-94-1	
2,4-Dichlorophenol	ND	ug/L	10.4	1	07/11/11 22:50	07/12/11 20:17	120-83-2	
Diethylphthalate	ND	ug/L	10.4	1	07/11/11 22:50	07/12/11 20:17	84-66-2	
2,4-Dimethylphenol	ND	ug/L	10.4	1	07/11/11 22:50	07/12/11 20:17	105-67-9	
Dimethylphthalate	ND	ug/L	10.4	1	07/11/11 22:50	07/12/11 20:17	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.4	1	07/11/11 22:50	07/12/11 20:17	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	52.1	1	07/11/11 22:50	07/12/11 20:17	534-52-1	
2,4-Dinitrophenol	ND	ug/L	52.1	1	07/11/11 22:50	07/12/11 20:17	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	10.4	1	07/11/11 22:50	07/12/11 20:17	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.4	1	07/11/11 22:50	07/12/11 20:17	606-20-2	
Di-n-octylphthalate	ND	ug/L	10.4	1	07/11/11 22:50	07/12/11 20:17	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	5.2	1	07/11/11 22:50	07/12/11 20:17	117-81-7	
Fluoranthene	ND	ug/L	10.4	1	07/11/11 22:50	07/12/11 20:17	206-44-0	
Fluorene	ND	ug/L	10.4	1	07/11/11 22:50	07/12/11 20:17	86-73-7	

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ANALYTICAL RESULTS

Project: Carpenter 2339-353-03
Pace Project No.: 5050590

Sample: P-6 **Lab ID: 5050590005** Collected: 07/07/11 10:30 Received: 07/09/11 10:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Hexachloro-1,3-butadiene	ND	ug/L	5.2	1	07/11/11 22:50	07/12/11 20:17	87-68-3	
Hexachlorobenzene	ND	ug/L	10.4	1	07/11/11 22:50	07/12/11 20:17	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	20.8	1	07/11/11 22:50	07/12/11 20:17	77-47-4	
Hexachloroethane	ND	ug/L	10.4	1	07/11/11 22:50	07/12/11 20:17	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	10.4	1	07/11/11 22:50	07/12/11 20:17	193-39-5	
Isophorone	ND	ug/L	10.4	1	07/11/11 22:50	07/12/11 20:17	78-59-1	
2-Methylnaphthalene	ND	ug/L	10.4	1	07/11/11 22:50	07/12/11 20:17	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	10.4	1	07/11/11 22:50	07/12/11 20:17	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	20.8	1	07/11/11 22:50	07/12/11 20:17		
Naphthalene	**33.5**	ug/L	5.2	1	07/11/11 22:50	07/12/11 20:17	91-20-3	
2-Nitroaniline	ND	ug/L	52.1	1	07/11/11 22:50	07/12/11 20:17	88-74-4	
3-Nitroaniline	ND	ug/L	52.1	1	07/11/11 22:50	07/12/11 20:17	99-09-2	
4-Nitroaniline	ND	ug/L	52.1	1	07/11/11 22:50	07/12/11 20:17	100-01-6	
Nitrobenzene	ND	ug/L	10.4	1	07/11/11 22:50	07/12/11 20:17	98-95-3	
2-Nitrophenol	ND	ug/L	10.4	1	07/11/11 22:50	07/12/11 20:17	88-75-5	
4-Nitrophenol	ND	ug/L	52.1	1	07/11/11 22:50	07/12/11 20:17	100-02-7	
N-Nitroso-di-n-propylamine	ND	ug/L	10.4	1	07/11/11 22:50	07/12/11 20:17	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	10.4	1	07/11/11 22:50	07/12/11 20:17	86-30-6	
Pentachlorophenol	ND	ug/L	52.1	1	07/11/11 22:50	07/12/11 20:17	87-86-5	
Phenanthrene	ND	ug/L	10.4	1	07/11/11 22:50	07/12/11 20:17	85-01-8	
Phenol	ND	ug/L	10.4	1	07/11/11 22:50	07/12/11 20:17	108-95-2	
Pyrene	ND	ug/L	10.4	1	07/11/11 22:50	07/12/11 20:17	129-00-0	
2,4,5-Trichlorophenol	ND	ug/L	10.4	1	07/11/11 22:50	07/12/11 20:17	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.4	1	07/11/11 22:50	07/12/11 20:17	88-06-2	
Nitrobenzene-d5 (S)	77	%	33-108	1	07/11/11 22:50	07/12/11 20:17	4165-60-0	
2-Fluorobiphenyl (S)	73	%	34-106	1	07/11/11 22:50	07/12/11 20:17	321-60-8	
Terphenyl-d14 (S)	70	%	31-122	1	07/11/11 22:50	07/12/11 20:17	1718-51-0	
Phenol-d6 (S)	29	%	10-56	1	07/11/11 22:50	07/12/11 20:17	13127-88-3	
2-Fluorophenol (S)	46	%	10-74	1	07/11/11 22:50	07/12/11 20:17	367-12-4	
2,4,6-Tribromophenol (S)	90	%	32-124	1	07/11/11 22:50	07/12/11 20:17	118-79-6	
8260 MSV	Analytical Method: EPA 8260							
Acetone	**101**	ug/L	100	1		07/18/11 16:40	67-64-1	
Acrolein	ND	ug/L	50.0	1		07/18/11 16:40	107-02-8	
Acrylonitrile	ND	ug/L	100	1		07/18/11 16:40	107-13-1	
Benzene	**292**	ug/L	50.0	10		07/19/11 11:42	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		07/18/11 16:40	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		07/18/11 16:40	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		07/18/11 16:40	75-27-4	
Bromoform	ND	ug/L	5.0	1		07/18/11 16:40	75-25-2	
Bromomethane	ND	ug/L	5.0	1		07/18/11 16:40	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		07/18/11 16:40	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		07/18/11 16:40	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		07/18/11 16:40	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		07/18/11 16:40	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		07/18/11 16:40	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		07/18/11 16:40	56-23-5	

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ANALYTICAL RESULTS

Project: Carpenter 2339-353-03
Pace Project No.: 5050590

Sample: P-6 **Lab ID: 5050590005** Collected: 07/07/11 10:30 Received: 07/09/11 10:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Chlorobenzene	ND	ug/L	5.0	1		07/18/11 16:40	108-90-7	
Chloroethane	ND	ug/L	5.0	1		07/18/11 16:40	75-00-3	
Chloroform	ND	ug/L	5.0	1		07/18/11 16:40	67-66-3	
Chloromethane	ND	ug/L	5.0	1		07/18/11 16:40	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		07/18/11 16:40	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		07/18/11 16:40	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		07/18/11 16:40	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		07/18/11 16:40	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		07/18/11 16:40	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		07/18/11 16:40	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		07/18/11 16:40	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		07/18/11 16:40	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		07/18/11 16:40	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		07/18/11 16:40	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		07/18/11 16:40	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		07/18/11 16:40	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		07/18/11 16:40	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		07/18/11 16:40	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		07/18/11 16:40	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		07/18/11 16:40	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		07/18/11 16:40	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		07/18/11 16:40	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		07/18/11 16:40	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		07/18/11 16:40	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		07/18/11 16:40	10061-02-6	
Ethylbenzene	**318**	ug/L	50.0	10		07/19/11 11:42	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		07/18/11 16:40	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		07/18/11 16:40	87-68-3	
n-Hexane	**21.2**	ug/L	5.0	1		07/18/11 16:40	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		07/18/11 16:40	591-78-6	
Iodomethane	ND	ug/L	10.0	1		07/18/11 16:40	74-88-4	
Isopropylbenzene (Cumene)	**29.6**	ug/L	5.0	1		07/18/11 16:40	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		07/18/11 16:40	99-87-6	
Methylene chloride	ND	ug/L	5.0	1		07/18/11 16:40	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		07/18/11 16:40	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		07/18/11 16:40	1634-04-4	
Naphthalene	**53.6**	ug/L	5.0	1		07/18/11 16:40	91-20-3	
n-Propylbenzene	**24.4**	ug/L	5.0	1		07/18/11 16:40	103-65-1	
Styrene	ND	ug/L	5.0	1		07/18/11 16:40	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		07/18/11 16:40	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		07/18/11 16:40	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		07/18/11 16:40	127-18-4	
Toluene	**24.9**	ug/L	5.0	1		07/18/11 16:40	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		07/18/11 16:40	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		07/18/11 16:40	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		07/18/11 16:40	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		07/18/11 16:40	79-00-5	

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ANALYTICAL RESULTS

Project: Carpenter 2339-353-03
Pace Project No.: 5050590

Sample: P-6 **Lab ID: 5050590005** Collected: 07/07/11 10:30 Received: 07/09/11 10:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Trichloroethene	ND	ug/L	5.0	1		07/18/11 16:40	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		07/18/11 16:40	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		07/18/11 16:40	96-18-4	
1,2,4-Trimethylbenzene	**207**	ug/L	50.0	10		07/19/11 11:42	95-63-6	
1,3,5-Trimethylbenzene	**32.5**	ug/L	5.0	1		07/18/11 16:40	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		07/18/11 16:40	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		07/18/11 16:40	75-01-4	
Xylene (Total)	**738**	ug/L	100	10		07/19/11 11:42	1330-20-7	
Dibromofluoromethane (S)	98	%	83-123	1		07/18/11 16:40	1868-53-7	
4-Bromofluorobenzene (S)	92	%	72-125	1		07/18/11 16:40	460-00-4	
Toluene-d8 (S)	97	%	81-114	1		07/18/11 16:40	2037-26-5	

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ANALYTICAL RESULTS

Project: Carpenter 2339-353-03
Pace Project No.: 5050590

Sample: Dup **Lab ID: 5050590006** Collected: 07/07/11 08:00 Received: 07/09/11 10:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel	Analytical Method: EPA 8015 Modified Preparation Method: EPA 3510							
Diesel Range Organics (C8-C28)	**0.65**	mg/L	0.11	1	07/12/11 02:10	07/12/11 09:32		
n-Pentacosane (S)	49	%	20-108	1	07/12/11 02:10	07/12/11 09:32	629-99-2	
Gasoline Range Organics	Analytical Method: EPA 5030/8015 Mod.							
Gasoline Range Organics	**2.8**	mg/L	0.20	1		07/13/11 17:53		
TPH (C06-C10)	**2.8**	mg/L	0.20	1		07/13/11 17:53		
TPH (C06-C12)	**2.8**	mg/L	0.20	1		07/13/11 17:53		
4-Bromofluorobenzene (S)	90	%	45-130	1		07/13/11 17:53	460-00-4	
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	10.8	1	07/11/11 22:50	07/12/11 20:38	83-32-9	
Acenaphthylene	ND	ug/L	10.8	1	07/11/11 22:50	07/12/11 20:38	208-96-8	
Anthracene	ND	ug/L	10.8	1	07/11/11 22:50	07/12/11 20:38	120-12-7	
Benzo(a)anthracene	ND	ug/L	10.8	1	07/11/11 22:50	07/12/11 20:38	56-55-3	
Benzo(a)pyrene	ND	ug/L	10.8	1	07/11/11 22:50	07/12/11 20:38	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	10.8	1	07/11/11 22:50	07/12/11 20:38	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	10.8	1	07/11/11 22:50	07/12/11 20:38	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	10.8	1	07/11/11 22:50	07/12/11 20:38	207-08-9	
Benzyl alcohol	ND	ug/L	21.5	1	07/11/11 22:50	07/12/11 20:38	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	10.8	1	07/11/11 22:50	07/12/11 20:38	101-55-3	
Butylbenzylphthalate	ND	ug/L	10.8	1	07/11/11 22:50	07/12/11 20:38	85-68-7	
4-Chloro-3-methylphenol	ND	ug/L	21.5	1	07/11/11 22:50	07/12/11 20:38	59-50-7	
4-Chloroaniline	ND	ug/L	21.5	1	07/11/11 22:50	07/12/11 20:38	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	10.8	1	07/11/11 22:50	07/12/11 20:38	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.8	1	07/11/11 22:50	07/12/11 20:38	111-44-4	
bis(2chloro1methylethyl) ether	ND	ug/L	5.4	1	07/11/11 22:50	07/12/11 20:38	108-60-1	
2-Chloronaphthalene	ND	ug/L	10.8	1	07/11/11 22:50	07/12/11 20:38	91-58-7	
2-Chlorophenol	ND	ug/L	10.8	1	07/11/11 22:50	07/12/11 20:38	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	10.8	1	07/11/11 22:50	07/12/11 20:38	7005-72-3	
Chrysene	ND	ug/L	10.8	1	07/11/11 22:50	07/12/11 20:38	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	10.8	1	07/11/11 22:50	07/12/11 20:38	53-70-3	
Dibenzofuran	ND	ug/L	10.8	1	07/11/11 22:50	07/12/11 20:38	132-64-9	
3,3'-Dichlorobenzidine	ND	ug/L	21.5	1	07/11/11 22:50	07/12/11 20:38	91-94-1	
2,4-Dichlorophenol	ND	ug/L	10.8	1	07/11/11 22:50	07/12/11 20:38	120-83-2	
Diethylphthalate	ND	ug/L	10.8	1	07/11/11 22:50	07/12/11 20:38	84-66-2	
2,4-Dimethylphenol	ND	ug/L	10.8	1	07/11/11 22:50	07/12/11 20:38	105-67-9	
Dimethylphthalate	ND	ug/L	10.8	1	07/11/11 22:50	07/12/11 20:38	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.8	1	07/11/11 22:50	07/12/11 20:38	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	53.8	1	07/11/11 22:50	07/12/11 20:38	534-52-1	
2,4-Dinitrophenol	ND	ug/L	53.8	1	07/11/11 22:50	07/12/11 20:38	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	10.8	1	07/11/11 22:50	07/12/11 20:38	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.8	1	07/11/11 22:50	07/12/11 20:38	606-20-2	
Di-n-octylphthalate	ND	ug/L	10.8	1	07/11/11 22:50	07/12/11 20:38	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	5.4	1	07/11/11 22:50	07/12/11 20:38	117-81-7	
Fluoranthene	ND	ug/L	10.8	1	07/11/11 22:50	07/12/11 20:38	206-44-0	
Fluorene	ND	ug/L	10.8	1	07/11/11 22:50	07/12/11 20:38	86-73-7	

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ANALYTICAL RESULTS

Project: Carpenter 2339-353-03
Pace Project No.: 5050590

Sample: Dup **Lab ID: 5050590006** Collected: 07/07/11 08:00 Received: 07/09/11 10:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Hexachloro-1,3-butadiene	ND	ug/L	5.4	1	07/11/11 22:50	07/12/11 20:38	87-68-3	
Hexachlorobenzene	ND	ug/L	10.8	1	07/11/11 22:50	07/12/11 20:38	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	21.5	1	07/11/11 22:50	07/12/11 20:38	77-47-4	
Hexachloroethane	ND	ug/L	10.8	1	07/11/11 22:50	07/12/11 20:38	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	10.8	1	07/11/11 22:50	07/12/11 20:38	193-39-5	
Isophorone	ND	ug/L	10.8	1	07/11/11 22:50	07/12/11 20:38	78-59-1	
2-Methylnaphthalene	ND	ug/L	10.8	1	07/11/11 22:50	07/12/11 20:38	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	10.8	1	07/11/11 22:50	07/12/11 20:38	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	21.5	1	07/11/11 22:50	07/12/11 20:38		
Naphthalene	**44.6**	ug/L	5.4	1	07/11/11 22:50	07/12/11 20:38	91-20-3	
2-Nitroaniline	ND	ug/L	53.8	1	07/11/11 22:50	07/12/11 20:38	88-74-4	
3-Nitroaniline	ND	ug/L	53.8	1	07/11/11 22:50	07/12/11 20:38	99-09-2	
4-Nitroaniline	ND	ug/L	53.8	1	07/11/11 22:50	07/12/11 20:38	100-01-6	
Nitrobenzene	ND	ug/L	10.8	1	07/11/11 22:50	07/12/11 20:38	98-95-3	
2-Nitrophenol	ND	ug/L	10.8	1	07/11/11 22:50	07/12/11 20:38	88-75-5	
4-Nitrophenol	ND	ug/L	53.8	1	07/11/11 22:50	07/12/11 20:38	100-02-7	
N-Nitroso-di-n-propylamine	ND	ug/L	10.8	1	07/11/11 22:50	07/12/11 20:38	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	10.8	1	07/11/11 22:50	07/12/11 20:38	86-30-6	
Pentachlorophenol	ND	ug/L	53.8	1	07/11/11 22:50	07/12/11 20:38	87-86-5	
Phenanthrene	ND	ug/L	10.8	1	07/11/11 22:50	07/12/11 20:38	85-01-8	
Phenol	ND	ug/L	10.8	1	07/11/11 22:50	07/12/11 20:38	108-95-2	
Pyrene	ND	ug/L	10.8	1	07/11/11 22:50	07/12/11 20:38	129-00-0	
2,4,5-Trichlorophenol	ND	ug/L	10.8	1	07/11/11 22:50	07/12/11 20:38	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.8	1	07/11/11 22:50	07/12/11 20:38	88-06-2	
Nitrobenzene-d5 (S)	88	%	33-108	1	07/11/11 22:50	07/12/11 20:38	4165-60-0	
2-Fluorobiphenyl (S)	82	%	34-106	1	07/11/11 22:50	07/12/11 20:38	321-60-8	
Terphenyl-d14 (S)	76	%	31-122	1	07/11/11 22:50	07/12/11 20:38	1718-51-0	
Phenol-d6 (S)	34	%	10-56	1	07/11/11 22:50	07/12/11 20:38	13127-88-3	
2-Fluorophenol (S)	53	%	10-74	1	07/11/11 22:50	07/12/11 20:38	367-12-4	
2,4,6-Tribromophenol (S)	96	%	32-124	1	07/11/11 22:50	07/12/11 20:38	118-79-6	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		07/18/11 17:55	67-64-1	
Acrolein	ND	ug/L	50.0	1		07/18/11 17:55	107-02-8	
Acrylonitrile	ND	ug/L	100	1		07/18/11 17:55	107-13-1	
Benzene	**271**	ug/L	50.0	10		07/19/11 12:20	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		07/18/11 17:55	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		07/18/11 17:55	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		07/18/11 17:55	75-27-4	
Bromoform	ND	ug/L	5.0	1		07/18/11 17:55	75-25-2	
Bromomethane	ND	ug/L	5.0	1		07/18/11 17:55	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		07/18/11 17:55	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		07/18/11 17:55	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		07/18/11 17:55	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		07/18/11 17:55	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		07/18/11 17:55	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		07/18/11 17:55	56-23-5	

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ANALYTICAL RESULTS

Project: Carpenter 2339-353-03
Pace Project No.: 5050590

Sample: Dup **Lab ID: 5050590006** Collected: 07/07/11 08:00 Received: 07/09/11 10:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Chlorobenzene	ND	ug/L	5.0	1		07/18/11 17:55	108-90-7	
Chloroethane	ND	ug/L	5.0	1		07/18/11 17:55	75-00-3	
Chloroform	ND	ug/L	5.0	1		07/18/11 17:55	67-66-3	
Chloromethane	ND	ug/L	5.0	1		07/18/11 17:55	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		07/18/11 17:55	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		07/18/11 17:55	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		07/18/11 17:55	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		07/18/11 17:55	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		07/18/11 17:55	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		07/18/11 17:55	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		07/18/11 17:55	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		07/18/11 17:55	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		07/18/11 17:55	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		07/18/11 17:55	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		07/18/11 17:55	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		07/18/11 17:55	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		07/18/11 17:55	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		07/18/11 17:55	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		07/18/11 17:55	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		07/18/11 17:55	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		07/18/11 17:55	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		07/18/11 17:55	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		07/18/11 17:55	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		07/18/11 17:55	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		07/18/11 17:55	10061-02-6	
Ethylbenzene	**289**	ug/L	50.0	10		07/19/11 12:20	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		07/18/11 17:55	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		07/18/11 17:55	87-68-3	
n-Hexane	**15.8**	ug/L	5.0	1		07/18/11 17:55	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		07/18/11 17:55	591-78-6	
Iodomethane	ND	ug/L	10.0	1		07/18/11 17:55	74-88-4	
Isopropylbenzene (Cumene)	**23.8**	ug/L	5.0	1		07/18/11 17:55	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		07/18/11 17:55	99-87-6	
Methylene chloride	ND	ug/L	5.0	1		07/18/11 17:55	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		07/18/11 17:55	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		07/18/11 17:55	1634-04-4	
Naphthalene	**42.4**	ug/L	5.0	1		07/18/11 17:55	91-20-3	
n-Propylbenzene	**18.6**	ug/L	5.0	1		07/18/11 17:55	103-65-1	
Styrene	ND	ug/L	5.0	1		07/18/11 17:55	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		07/18/11 17:55	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		07/18/11 17:55	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		07/18/11 17:55	127-18-4	
Toluene	**23.5**	ug/L	5.0	1		07/18/11 17:55	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		07/18/11 17:55	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		07/18/11 17:55	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		07/18/11 17:55	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		07/18/11 17:55	79-00-5	

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ANALYTICAL RESULTS

Project: Carpenter 2339-353-03
Pace Project No.: 5050590

Sample: Dup **Lab ID: 5050590006** Collected: 07/07/11 08:00 Received: 07/09/11 10:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Trichloroethene	ND	ug/L	5.0	1		07/18/11 17:55	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		07/18/11 17:55	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		07/18/11 17:55	96-18-4	
1,2,4-Trimethylbenzene	**188**	ug/L	50.0	10		07/19/11 12:20	95-63-6	
1,3,5-Trimethylbenzene	**29.2**	ug/L	5.0	1		07/18/11 17:55	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		07/18/11 17:55	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		07/18/11 17:55	75-01-4	
Xylene (Total)	**672**	ug/L	100	10		07/19/11 12:20	1330-20-7	
Dibromofluoromethane (S)	95	%	83-123	1		07/18/11 17:55	1868-53-7	
4-Bromofluorobenzene (S)	92	%	72-125	1		07/18/11 17:55	460-00-4	
Toluene-d8 (S)	98	%	81-114	1		07/18/11 17:55	2037-26-5	

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ANALYTICAL RESULTS

Project: Carpenter 2339-353-03
Pace Project No.: 5050590

Sample: P-2 **Lab ID: 5050590007** Collected: 07/07/11 12:15 Received: 07/09/11 10:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel	Analytical Method: EPA 8015 Modified Preparation Method: EPA 3510							
Diesel Range Organics (C8-C28)	ND	mg/L	0.10	1	07/12/11 02:10	07/12/11 09:39		
n-Pentacosane (S)	46	%	20-108	1	07/12/11 02:10	07/12/11 09:39	629-99-2	
Gasoline Range Organics	Analytical Method: EPA 5030/8015 Mod.							
Gasoline Range Organics	ND	mg/L	0.20	1		07/13/11 18:19		
TPH (C06-C10)	ND	mg/L	0.20	1		07/13/11 18:19		
TPH (C06-C12)	ND	mg/L	0.20	1		07/13/11 18:19		
4-Bromofluorobenzene (S)	87	%	45-130	1		07/13/11 18:19	460-00-4	
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	10.4	1	07/11/11 22:50	07/12/11 20:58	83-32-9	
Acenaphthylene	ND	ug/L	10.4	1	07/11/11 22:50	07/12/11 20:58	208-96-8	
Anthracene	ND	ug/L	10.4	1	07/11/11 22:50	07/12/11 20:58	120-12-7	
Benzo(a)anthracene	ND	ug/L	10.4	1	07/11/11 22:50	07/12/11 20:58	56-55-3	
Benzo(a)pyrene	ND	ug/L	10.4	1	07/11/11 22:50	07/12/11 20:58	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	10.4	1	07/11/11 22:50	07/12/11 20:58	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	10.4	1	07/11/11 22:50	07/12/11 20:58	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	10.4	1	07/11/11 22:50	07/12/11 20:58	207-08-9	
Benzyl alcohol	ND	ug/L	20.8	1	07/11/11 22:50	07/12/11 20:58	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	10.4	1	07/11/11 22:50	07/12/11 20:58	101-55-3	
Butylbenzylphthalate	ND	ug/L	10.4	1	07/11/11 22:50	07/12/11 20:58	85-68-7	
4-Chloro-3-methylphenol	ND	ug/L	20.8	1	07/11/11 22:50	07/12/11 20:58	59-50-7	
4-Chloroaniline	ND	ug/L	20.8	1	07/11/11 22:50	07/12/11 20:58	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	10.4	1	07/11/11 22:50	07/12/11 20:58	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.4	1	07/11/11 22:50	07/12/11 20:58	111-44-4	
bis(2chloro1methylethyl) ether	ND	ug/L	5.2	1	07/11/11 22:50	07/12/11 20:58	108-60-1	
2-Chloronaphthalene	ND	ug/L	10.4	1	07/11/11 22:50	07/12/11 20:58	91-58-7	
2-Chlorophenol	ND	ug/L	10.4	1	07/11/11 22:50	07/12/11 20:58	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	10.4	1	07/11/11 22:50	07/12/11 20:58	7005-72-3	
Chrysene	ND	ug/L	10.4	1	07/11/11 22:50	07/12/11 20:58	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	10.4	1	07/11/11 22:50	07/12/11 20:58	53-70-3	
Dibenzofuran	ND	ug/L	10.4	1	07/11/11 22:50	07/12/11 20:58	132-64-9	
3,3'-Dichlorobenzidine	ND	ug/L	20.8	1	07/11/11 22:50	07/12/11 20:58	91-94-1	
2,4-Dichlorophenol	ND	ug/L	10.4	1	07/11/11 22:50	07/12/11 20:58	120-83-2	
Diethylphthalate	ND	ug/L	10.4	1	07/11/11 22:50	07/12/11 20:58	84-66-2	
2,4-Dimethylphenol	ND	ug/L	10.4	1	07/11/11 22:50	07/12/11 20:58	105-67-9	
Dimethylphthalate	ND	ug/L	10.4	1	07/11/11 22:50	07/12/11 20:58	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.4	1	07/11/11 22:50	07/12/11 20:58	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	52.1	1	07/11/11 22:50	07/12/11 20:58	534-52-1	
2,4-Dinitrophenol	ND	ug/L	52.1	1	07/11/11 22:50	07/12/11 20:58	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	10.4	1	07/11/11 22:50	07/12/11 20:58	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.4	1	07/11/11 22:50	07/12/11 20:58	606-20-2	
Di-n-octylphthalate	ND	ug/L	10.4	1	07/11/11 22:50	07/12/11 20:58	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	5.2	1	07/11/11 22:50	07/12/11 20:58	117-81-7	
Fluoranthene	ND	ug/L	10.4	1	07/11/11 22:50	07/12/11 20:58	206-44-0	
Fluorene	ND	ug/L	10.4	1	07/11/11 22:50	07/12/11 20:58	86-73-7	

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ANALYTICAL RESULTS

Project: Carpenter 2339-353-03
Pace Project No.: 5050590

Sample: P-2 **Lab ID: 5050590007** Collected: 07/07/11 12:15 Received: 07/09/11 10:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Hexachloro-1,3-butadiene	ND	ug/L	5.2	1	07/11/11 22:50	07/12/11 20:58	87-68-3	
Hexachlorobenzene	ND	ug/L	10.4	1	07/11/11 22:50	07/12/11 20:58	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	20.8	1	07/11/11 22:50	07/12/11 20:58	77-47-4	
Hexachloroethane	ND	ug/L	10.4	1	07/11/11 22:50	07/12/11 20:58	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	10.4	1	07/11/11 22:50	07/12/11 20:58	193-39-5	
Isophorone	ND	ug/L	10.4	1	07/11/11 22:50	07/12/11 20:58	78-59-1	
2-Methylnaphthalene	ND	ug/L	10.4	1	07/11/11 22:50	07/12/11 20:58	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	10.4	1	07/11/11 22:50	07/12/11 20:58	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	20.8	1	07/11/11 22:50	07/12/11 20:58		
Naphthalene	ND	ug/L	5.2	1	07/11/11 22:50	07/12/11 20:58	91-20-3	
2-Nitroaniline	ND	ug/L	52.1	1	07/11/11 22:50	07/12/11 20:58	88-74-4	
3-Nitroaniline	ND	ug/L	52.1	1	07/11/11 22:50	07/12/11 20:58	99-09-2	
4-Nitroaniline	ND	ug/L	52.1	1	07/11/11 22:50	07/12/11 20:58	100-01-6	
Nitrobenzene	ND	ug/L	10.4	1	07/11/11 22:50	07/12/11 20:58	98-95-3	
2-Nitrophenol	ND	ug/L	10.4	1	07/11/11 22:50	07/12/11 20:58	88-75-5	
4-Nitrophenol	ND	ug/L	52.1	1	07/11/11 22:50	07/12/11 20:58	100-02-7	
N-Nitroso-di-n-propylamine	ND	ug/L	10.4	1	07/11/11 22:50	07/12/11 20:58	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	10.4	1	07/11/11 22:50	07/12/11 20:58	86-30-6	
Pentachlorophenol	ND	ug/L	52.1	1	07/11/11 22:50	07/12/11 20:58	87-86-5	
Phenanthrene	ND	ug/L	10.4	1	07/11/11 22:50	07/12/11 20:58	85-01-8	
Phenol	ND	ug/L	10.4	1	07/11/11 22:50	07/12/11 20:58	108-95-2	
Pyrene	ND	ug/L	10.4	1	07/11/11 22:50	07/12/11 20:58	129-00-0	
2,4,5-Trichlorophenol	ND	ug/L	10.4	1	07/11/11 22:50	07/12/11 20:58	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.4	1	07/11/11 22:50	07/12/11 20:58	88-06-2	
Nitrobenzene-d5 (S)	83	%	33-108	1	07/11/11 22:50	07/12/11 20:58	4165-60-0	
2-Fluorobiphenyl (S)	81	%	34-106	1	07/11/11 22:50	07/12/11 20:58	321-60-8	
Terphenyl-d14 (S)	69	%	31-122	1	07/11/11 22:50	07/12/11 20:58	1718-51-0	
Phenol-d6 (S)	29	%	10-56	1	07/11/11 22:50	07/12/11 20:58	13127-88-3	
2-Fluorophenol (S)	49	%	10-74	1	07/11/11 22:50	07/12/11 20:58	367-12-4	
2,4,6-Tribromophenol (S)	94	%	32-124	1	07/11/11 22:50	07/12/11 20:58	118-79-6	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		07/18/11 21:40	67-64-1	
Acrolein	ND	ug/L	50.0	1		07/18/11 21:40	107-02-8	
Acrylonitrile	ND	ug/L	100	1		07/18/11 21:40	107-13-1	
Benzene	ND	ug/L	5.0	1		07/18/11 21:40	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		07/18/11 21:40	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		07/18/11 21:40	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		07/18/11 21:40	75-27-4	
Bromoform	ND	ug/L	5.0	1		07/18/11 21:40	75-25-2	
Bromomethane	ND	ug/L	5.0	1		07/18/11 21:40	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		07/18/11 21:40	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		07/18/11 21:40	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		07/18/11 21:40	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		07/18/11 21:40	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		07/18/11 21:40	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		07/18/11 21:40	56-23-5	

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ANALYTICAL RESULTS

Project: Carpenter 2339-353-03
Pace Project No.: 5050590

Sample: P-2 **Lab ID: 5050590007** Collected: 07/07/11 12:15 Received: 07/09/11 10:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Chlorobenzene	ND	ug/L	5.0	1		07/18/11 21:40	108-90-7	
Chloroethane	ND	ug/L	5.0	1		07/18/11 21:40	75-00-3	
Chloroform	ND	ug/L	5.0	1		07/18/11 21:40	67-66-3	
Chloromethane	ND	ug/L	5.0	1		07/18/11 21:40	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		07/18/11 21:40	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		07/18/11 21:40	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		07/18/11 21:40	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		07/18/11 21:40	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		07/18/11 21:40	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		07/18/11 21:40	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		07/18/11 21:40	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		07/18/11 21:40	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		07/18/11 21:40	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		07/18/11 21:40	75-71-8	H1,p2
1,1-Dichloroethane	ND	ug/L	5.0	1		07/18/11 21:40	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		07/18/11 21:40	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		07/18/11 21:40	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		07/18/11 21:40	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		07/18/11 21:40	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		07/18/11 21:40	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		07/18/11 21:40	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		07/18/11 21:40	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		07/18/11 21:40	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		07/18/11 21:40	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		07/18/11 21:40	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		07/18/11 21:40	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		07/18/11 21:40	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		07/18/11 21:40	87-68-3	
n-Hexane	ND	ug/L	5.0	1		07/18/11 21:40	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		07/18/11 21:40	591-78-6	
Iodomethane	ND	ug/L	10.0	1		07/18/11 21:40	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		07/18/11 21:40	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		07/18/11 21:40	99-87-6	
Methylene chloride	ND	ug/L	5.0	1		07/18/11 21:40	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		07/18/11 21:40	108-10-1	
Methyl-tert-butyl ether	**8.3**	ug/L	4.0	1		07/18/11 21:40	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		07/18/11 21:40	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		07/18/11 21:40	103-65-1	
Styrene	ND	ug/L	5.0	1		07/18/11 21:40	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		07/18/11 21:40	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		07/18/11 21:40	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		07/18/11 21:40	127-18-4	
Toluene	ND	ug/L	5.0	1		07/18/11 21:40	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		07/18/11 21:40	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		07/18/11 21:40	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		07/18/11 21:40	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		07/18/11 21:40	79-00-5	

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ANALYTICAL RESULTS

Project: Carpenter 2339-353-03
Pace Project No.: 5050590

Sample: P-2 **Lab ID: 5050590007** Collected: 07/07/11 12:15 Received: 07/09/11 10:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Trichloroethene	ND	ug/L	5.0	1		07/18/11 21:40	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		07/18/11 21:40	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		07/18/11 21:40	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		07/18/11 21:40	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		07/18/11 21:40	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		07/18/11 21:40	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		07/18/11 21:40	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		07/18/11 21:40	1330-20-7	
Dibromofluoromethane (S)	100	%	83-123	1		07/18/11 21:40	1868-53-7	
4-Bromofluorobenzene (S)	97	%	72-125	1		07/18/11 21:40	460-00-4	
Toluene-d8 (S)	98	%	81-114	1		07/18/11 21:40	2037-26-5	

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ANALYTICAL RESULTS

Project: Carpenter 2339-353-03
Pace Project No.: 5050590

Sample: EB **Lab ID: 5050590008** Collected: 07/07/11 11:30 Received: 07/09/11 10:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel	Analytical Method: EPA 8015 Modified Preparation Method: EPA 3510							
Diesel Range Organics (C8-C28)	ND	mg/L	0.10	1	07/12/11 02:10	07/12/11 09:46		
n-Pentacosane (S)	83	%	20-108	1	07/12/11 02:10	07/12/11 09:46	629-99-2	
Gasoline Range Organics	Analytical Method: EPA 5030/8015 Mod.							
Gasoline Range Organics	ND	mg/L	0.20	1		07/13/11 18:45		
TPH (C06-C10)	ND	mg/L	0.20	1		07/13/11 18:45		
TPH (C06-C12)	ND	mg/L	0.20	1		07/13/11 18:45		
4-Bromofluorobenzene (S)	83	%	45-130	1		07/13/11 18:45	460-00-4	
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	10.6	1	07/11/11 22:50	07/12/11 21:18	83-32-9	
Acenaphthylene	ND	ug/L	10.6	1	07/11/11 22:50	07/12/11 21:18	208-96-8	
Anthracene	ND	ug/L	10.6	1	07/11/11 22:50	07/12/11 21:18	120-12-7	
Benzo(a)anthracene	ND	ug/L	10.6	1	07/11/11 22:50	07/12/11 21:18	56-55-3	
Benzo(a)pyrene	ND	ug/L	10.6	1	07/11/11 22:50	07/12/11 21:18	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	10.6	1	07/11/11 22:50	07/12/11 21:18	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	10.6	1	07/11/11 22:50	07/12/11 21:18	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	10.6	1	07/11/11 22:50	07/12/11 21:18	207-08-9	
Benzyl alcohol	ND	ug/L	21.3	1	07/11/11 22:50	07/12/11 21:18	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	10.6	1	07/11/11 22:50	07/12/11 21:18	101-55-3	
Butylbenzylphthalate	ND	ug/L	10.6	1	07/11/11 22:50	07/12/11 21:18	85-68-7	
4-Chloro-3-methylphenol	ND	ug/L	21.3	1	07/11/11 22:50	07/12/11 21:18	59-50-7	
4-Chloroaniline	ND	ug/L	21.3	1	07/11/11 22:50	07/12/11 21:18	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	10.6	1	07/11/11 22:50	07/12/11 21:18	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.6	1	07/11/11 22:50	07/12/11 21:18	111-44-4	
bis(2chloro1methylethyl) ether	ND	ug/L	5.3	1	07/11/11 22:50	07/12/11 21:18	108-60-1	
2-Chloronaphthalene	ND	ug/L	10.6	1	07/11/11 22:50	07/12/11 21:18	91-58-7	
2-Chlorophenol	ND	ug/L	10.6	1	07/11/11 22:50	07/12/11 21:18	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	10.6	1	07/11/11 22:50	07/12/11 21:18	7005-72-3	
Chrysene	ND	ug/L	10.6	1	07/11/11 22:50	07/12/11 21:18	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	10.6	1	07/11/11 22:50	07/12/11 21:18	53-70-3	
Dibenzofuran	ND	ug/L	10.6	1	07/11/11 22:50	07/12/11 21:18	132-64-9	
3,3'-Dichlorobenzidine	ND	ug/L	21.3	1	07/11/11 22:50	07/12/11 21:18	91-94-1	
2,4-Dichlorophenol	ND	ug/L	10.6	1	07/11/11 22:50	07/12/11 21:18	120-83-2	
Diethylphthalate	ND	ug/L	10.6	1	07/11/11 22:50	07/12/11 21:18	84-66-2	
2,4-Dimethylphenol	ND	ug/L	10.6	1	07/11/11 22:50	07/12/11 21:18	105-67-9	
Dimethylphthalate	ND	ug/L	10.6	1	07/11/11 22:50	07/12/11 21:18	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.6	1	07/11/11 22:50	07/12/11 21:18	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	53.2	1	07/11/11 22:50	07/12/11 21:18	534-52-1	
2,4-Dinitrophenol	ND	ug/L	53.2	1	07/11/11 22:50	07/12/11 21:18	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	10.6	1	07/11/11 22:50	07/12/11 21:18	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.6	1	07/11/11 22:50	07/12/11 21:18	606-20-2	
Di-n-octylphthalate	ND	ug/L	10.6	1	07/11/11 22:50	07/12/11 21:18	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	5.3	1	07/11/11 22:50	07/12/11 21:18	117-81-7	
Fluoranthene	ND	ug/L	10.6	1	07/11/11 22:50	07/12/11 21:18	206-44-0	
Fluorene	ND	ug/L	10.6	1	07/11/11 22:50	07/12/11 21:18	86-73-7	

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ANALYTICAL RESULTS

Project: Carpenter 2339-353-03
Pace Project No.: 5050590

Sample: EB **Lab ID: 5050590008** Collected: 07/07/11 11:30 Received: 07/09/11 10:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Hexachloro-1,3-butadiene	ND	ug/L	5.3	1	07/11/11 22:50	07/12/11 21:18	87-68-3	
Hexachlorobenzene	ND	ug/L	10.6	1	07/11/11 22:50	07/12/11 21:18	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	21.3	1	07/11/11 22:50	07/12/11 21:18	77-47-4	
Hexachloroethane	ND	ug/L	10.6	1	07/11/11 22:50	07/12/11 21:18	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	10.6	1	07/11/11 22:50	07/12/11 21:18	193-39-5	
Isophorone	ND	ug/L	10.6	1	07/11/11 22:50	07/12/11 21:18	78-59-1	
2-Methylnaphthalene	ND	ug/L	10.6	1	07/11/11 22:50	07/12/11 21:18	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	10.6	1	07/11/11 22:50	07/12/11 21:18	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	21.3	1	07/11/11 22:50	07/12/11 21:18		
Naphthalene	ND	ug/L	5.3	1	07/11/11 22:50	07/12/11 21:18	91-20-3	
2-Nitroaniline	ND	ug/L	53.2	1	07/11/11 22:50	07/12/11 21:18	88-74-4	
3-Nitroaniline	ND	ug/L	53.2	1	07/11/11 22:50	07/12/11 21:18	99-09-2	
4-Nitroaniline	ND	ug/L	53.2	1	07/11/11 22:50	07/12/11 21:18	100-01-6	
Nitrobenzene	ND	ug/L	10.6	1	07/11/11 22:50	07/12/11 21:18	98-95-3	
2-Nitrophenol	ND	ug/L	10.6	1	07/11/11 22:50	07/12/11 21:18	88-75-5	
4-Nitrophenol	ND	ug/L	53.2	1	07/11/11 22:50	07/12/11 21:18	100-02-7	
N-Nitroso-di-n-propylamine	ND	ug/L	10.6	1	07/11/11 22:50	07/12/11 21:18	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	10.6	1	07/11/11 22:50	07/12/11 21:18	86-30-6	
Pentachlorophenol	ND	ug/L	53.2	1	07/11/11 22:50	07/12/11 21:18	87-86-5	
Phenanthrene	ND	ug/L	10.6	1	07/11/11 22:50	07/12/11 21:18	85-01-8	
Phenol	ND	ug/L	10.6	1	07/11/11 22:50	07/12/11 21:18	108-95-2	
Pyrene	ND	ug/L	10.6	1	07/11/11 22:50	07/12/11 21:18	129-00-0	
2,4,5-Trichlorophenol	ND	ug/L	10.6	1	07/11/11 22:50	07/12/11 21:18	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.6	1	07/11/11 22:50	07/12/11 21:18	88-06-2	
Nitrobenzene-d5 (S)	82	%	33-108	1	07/11/11 22:50	07/12/11 21:18	4165-60-0	
2-Fluorobiphenyl (S)	80	%	34-106	1	07/11/11 22:50	07/12/11 21:18	321-60-8	
Terphenyl-d14 (S)	84	%	31-122	1	07/11/11 22:50	07/12/11 21:18	1718-51-0	
Phenol-d6 (S)	29	%	10-56	1	07/11/11 22:50	07/12/11 21:18	13127-88-3	
2-Fluorophenol (S)	47	%	10-74	1	07/11/11 22:50	07/12/11 21:18	367-12-4	
2,4,6-Tribromophenol (S)	74	%	32-124	1	07/11/11 22:50	07/12/11 21:18	118-79-6	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		07/18/11 22:18	67-64-1	
Acrolein	ND	ug/L	50.0	1		07/18/11 22:18	107-02-8	
Acrylonitrile	ND	ug/L	100	1		07/18/11 22:18	107-13-1	
Benzene	ND	ug/L	5.0	1		07/18/11 22:18	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		07/18/11 22:18	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		07/18/11 22:18	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		07/18/11 22:18	75-27-4	
Bromoform	ND	ug/L	5.0	1		07/18/11 22:18	75-25-2	
Bromomethane	ND	ug/L	5.0	1		07/18/11 22:18	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		07/18/11 22:18	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		07/18/11 22:18	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		07/18/11 22:18	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		07/18/11 22:18	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		07/18/11 22:18	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		07/18/11 22:18	56-23-5	

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ANALYTICAL RESULTS

Project: Carpenter 2339-353-03
Pace Project No.: 5050590

Sample: EB **Lab ID: 5050590008** Collected: 07/07/11 11:30 Received: 07/09/11 10:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Chlorobenzene	ND	ug/L	5.0	1		07/18/11 22:18	108-90-7	
Chloroethane	ND	ug/L	5.0	1		07/18/11 22:18	75-00-3	
Chloroform	ND	ug/L	5.0	1		07/18/11 22:18	67-66-3	
Chloromethane	ND	ug/L	5.0	1		07/18/11 22:18	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		07/18/11 22:18	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		07/18/11 22:18	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		07/18/11 22:18	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		07/18/11 22:18	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		07/18/11 22:18	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		07/18/11 22:18	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		07/18/11 22:18	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		07/18/11 22:18	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		07/18/11 22:18	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		07/18/11 22:18	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		07/18/11 22:18	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		07/18/11 22:18	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		07/18/11 22:18	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		07/18/11 22:18	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		07/18/11 22:18	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		07/18/11 22:18	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		07/18/11 22:18	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		07/18/11 22:18	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		07/18/11 22:18	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		07/18/11 22:18	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		07/18/11 22:18	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		07/18/11 22:18	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		07/18/11 22:18	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		07/18/11 22:18	87-68-3	
n-Hexane	ND	ug/L	5.0	1		07/18/11 22:18	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		07/18/11 22:18	591-78-6	
Iodomethane	ND	ug/L	10.0	1		07/18/11 22:18	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		07/18/11 22:18	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		07/18/11 22:18	99-87-6	
Methylene chloride	ND	ug/L	5.0	1		07/18/11 22:18	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		07/18/11 22:18	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		07/18/11 22:18	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		07/18/11 22:18	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		07/18/11 22:18	103-65-1	
Styrene	ND	ug/L	5.0	1		07/18/11 22:18	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		07/18/11 22:18	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		07/18/11 22:18	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		07/18/11 22:18	127-18-4	
Toluene	ND	ug/L	5.0	1		07/18/11 22:18	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		07/18/11 22:18	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		07/18/11 22:18	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		07/18/11 22:18	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		07/18/11 22:18	79-00-5	

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ANALYTICAL RESULTS

Project: Carpenter 2339-353-03
Pace Project No.: 5050590

Sample: EB **Lab ID: 5050590008** Collected: 07/07/11 11:30 Received: 07/09/11 10:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Trichloroethene	ND	ug/L	5.0	1		07/18/11 22:18	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		07/18/11 22:18	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		07/18/11 22:18	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		07/18/11 22:18	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		07/18/11 22:18	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		07/18/11 22:18	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		07/18/11 22:18	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		07/18/11 22:18	1330-20-7	
Dibromofluoromethane (S)	99	%	83-123	1		07/18/11 22:18	1868-53-7	
4-Bromofluorobenzene (S)	97	%	72-125	1		07/18/11 22:18	460-00-4	
Toluene-d8 (S)	98	%	81-114	1		07/18/11 22:18	2037-26-5	

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ANALYTICAL RESULTS

Project: Carpenter 2339-353-03
Pace Project No.: 5050590

Sample: P-1 **Lab ID: 5050590009** Collected: 07/07/11 12:50 Received: 07/09/11 10:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel	Analytical Method: EPA 8015 Modified Preparation Method: EPA 3510							
Diesel Range Organics (C8-C28)	ND	mg/L	0.11	1	07/12/11 02:10	07/12/11 09:53		
n-Pentacosane (S)	43	%	20-108	1	07/12/11 02:10	07/12/11 09:53	629-99-2	
Gasoline Range Organics	Analytical Method: EPA 5030/8015 Mod.							
Gasoline Range Organics	ND	mg/L	0.20	1		07/13/11 20:27		
TPH (C06-C10)	ND	mg/L	0.20	1		07/13/11 20:27		
TPH (C06-C12)	ND	mg/L	0.20	1		07/13/11 20:27		
4-Bromofluorobenzene (S)	84	%	45-130	1		07/13/11 20:27	460-00-4	
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	10.5	1	07/11/11 22:50	07/12/11 21:39	83-32-9	
Acenaphthylene	ND	ug/L	10.5	1	07/11/11 22:50	07/12/11 21:39	208-96-8	
Anthracene	ND	ug/L	10.5	1	07/11/11 22:50	07/12/11 21:39	120-12-7	
Benzo(a)anthracene	ND	ug/L	10.5	1	07/11/11 22:50	07/12/11 21:39	56-55-3	
Benzo(a)pyrene	ND	ug/L	10.5	1	07/11/11 22:50	07/12/11 21:39	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	10.5	1	07/11/11 22:50	07/12/11 21:39	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	10.5	1	07/11/11 22:50	07/12/11 21:39	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	10.5	1	07/11/11 22:50	07/12/11 21:39	207-08-9	
Benzyl alcohol	ND	ug/L	21.1	1	07/11/11 22:50	07/12/11 21:39	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	10.5	1	07/11/11 22:50	07/12/11 21:39	101-55-3	
Butylbenzylphthalate	ND	ug/L	10.5	1	07/11/11 22:50	07/12/11 21:39	85-68-7	
4-Chloro-3-methylphenol	ND	ug/L	21.1	1	07/11/11 22:50	07/12/11 21:39	59-50-7	
4-Chloroaniline	ND	ug/L	21.1	1	07/11/11 22:50	07/12/11 21:39	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	10.5	1	07/11/11 22:50	07/12/11 21:39	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.5	1	07/11/11 22:50	07/12/11 21:39	111-44-4	
bis(2chloro1methylethyl) ether	ND	ug/L	5.3	1	07/11/11 22:50	07/12/11 21:39	108-60-1	
2-Chloronaphthalene	ND	ug/L	10.5	1	07/11/11 22:50	07/12/11 21:39	91-58-7	
2-Chlorophenol	ND	ug/L	10.5	1	07/11/11 22:50	07/12/11 21:39	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	10.5	1	07/11/11 22:50	07/12/11 21:39	7005-72-3	
Chrysene	ND	ug/L	10.5	1	07/11/11 22:50	07/12/11 21:39	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	10.5	1	07/11/11 22:50	07/12/11 21:39	53-70-3	
Dibenzofuran	ND	ug/L	10.5	1	07/11/11 22:50	07/12/11 21:39	132-64-9	
3,3'-Dichlorobenzidine	ND	ug/L	21.1	1	07/11/11 22:50	07/12/11 21:39	91-94-1	
2,4-Dichlorophenol	ND	ug/L	10.5	1	07/11/11 22:50	07/12/11 21:39	120-83-2	
Diethylphthalate	ND	ug/L	10.5	1	07/11/11 22:50	07/12/11 21:39	84-66-2	
2,4-Dimethylphenol	ND	ug/L	10.5	1	07/11/11 22:50	07/12/11 21:39	105-67-9	
Dimethylphthalate	ND	ug/L	10.5	1	07/11/11 22:50	07/12/11 21:39	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.5	1	07/11/11 22:50	07/12/11 21:39	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	52.6	1	07/11/11 22:50	07/12/11 21:39	534-52-1	
2,4-Dinitrophenol	ND	ug/L	52.6	1	07/11/11 22:50	07/12/11 21:39	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	10.5	1	07/11/11 22:50	07/12/11 21:39	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.5	1	07/11/11 22:50	07/12/11 21:39	606-20-2	
Di-n-octylphthalate	ND	ug/L	10.5	1	07/11/11 22:50	07/12/11 21:39	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	5.3	1	07/11/11 22:50	07/12/11 21:39	117-81-7	
Fluoranthene	ND	ug/L	10.5	1	07/11/11 22:50	07/12/11 21:39	206-44-0	
Fluorene	ND	ug/L	10.5	1	07/11/11 22:50	07/12/11 21:39	86-73-7	

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ANALYTICAL RESULTS

Project: Carpenter 2339-353-03
Pace Project No.: 5050590

Sample: P-1 **Lab ID: 5050590009** Collected: 07/07/11 12:50 Received: 07/09/11 10:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Hexachloro-1,3-butadiene	ND	ug/L	5.3	1	07/11/11 22:50	07/12/11 21:39	87-68-3	
Hexachlorobenzene	ND	ug/L	10.5	1	07/11/11 22:50	07/12/11 21:39	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	21.1	1	07/11/11 22:50	07/12/11 21:39	77-47-4	
Hexachloroethane	ND	ug/L	10.5	1	07/11/11 22:50	07/12/11 21:39	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	10.5	1	07/11/11 22:50	07/12/11 21:39	193-39-5	
Isophorone	ND	ug/L	10.5	1	07/11/11 22:50	07/12/11 21:39	78-59-1	
2-Methylnaphthalene	ND	ug/L	10.5	1	07/11/11 22:50	07/12/11 21:39	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	10.5	1	07/11/11 22:50	07/12/11 21:39	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	21.1	1	07/11/11 22:50	07/12/11 21:39		
Naphthalene	ND	ug/L	5.3	1	07/11/11 22:50	07/12/11 21:39	91-20-3	
2-Nitroaniline	ND	ug/L	52.6	1	07/11/11 22:50	07/12/11 21:39	88-74-4	
3-Nitroaniline	ND	ug/L	52.6	1	07/11/11 22:50	07/12/11 21:39	99-09-2	
4-Nitroaniline	ND	ug/L	52.6	1	07/11/11 22:50	07/12/11 21:39	100-01-6	
Nitrobenzene	ND	ug/L	10.5	1	07/11/11 22:50	07/12/11 21:39	98-95-3	
2-Nitrophenol	ND	ug/L	10.5	1	07/11/11 22:50	07/12/11 21:39	88-75-5	
4-Nitrophenol	ND	ug/L	52.6	1	07/11/11 22:50	07/12/11 21:39	100-02-7	
N-Nitroso-di-n-propylamine	ND	ug/L	10.5	1	07/11/11 22:50	07/12/11 21:39	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	10.5	1	07/11/11 22:50	07/12/11 21:39	86-30-6	
Pentachlorophenol	ND	ug/L	52.6	1	07/11/11 22:50	07/12/11 21:39	87-86-5	
Phenanthrene	ND	ug/L	10.5	1	07/11/11 22:50	07/12/11 21:39	85-01-8	
Phenol	ND	ug/L	10.5	1	07/11/11 22:50	07/12/11 21:39	108-95-2	
Pyrene	ND	ug/L	10.5	1	07/11/11 22:50	07/12/11 21:39	129-00-0	
2,4,5-Trichlorophenol	ND	ug/L	10.5	1	07/11/11 22:50	07/12/11 21:39	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.5	1	07/11/11 22:50	07/12/11 21:39	88-06-2	
Nitrobenzene-d5 (S)	81	%	33-108	1	07/11/11 22:50	07/12/11 21:39	4165-60-0	
2-Fluorobiphenyl (S)	76	%	34-106	1	07/11/11 22:50	07/12/11 21:39	321-60-8	
Terphenyl-d14 (S)	89	%	31-122	1	07/11/11 22:50	07/12/11 21:39	1718-51-0	
Phenol-d6 (S)	34	%	10-56	1	07/11/11 22:50	07/12/11 21:39	13127-88-3	
2-Fluorophenol (S)	53	%	10-74	1	07/11/11 22:50	07/12/11 21:39	367-12-4	
2,4,6-Tribromophenol (S)	90	%	32-124	1	07/11/11 22:50	07/12/11 21:39	118-79-6	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		07/18/11 22:55	67-64-1	
Acrolein	ND	ug/L	50.0	1		07/18/11 22:55	107-02-8	
Acrylonitrile	ND	ug/L	100	1		07/18/11 22:55	107-13-1	
Benzene	ND	ug/L	5.0	1		07/18/11 22:55	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		07/18/11 22:55	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		07/18/11 22:55	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		07/18/11 22:55	75-27-4	
Bromoform	ND	ug/L	5.0	1		07/18/11 22:55	75-25-2	
Bromomethane	ND	ug/L	5.0	1		07/18/11 22:55	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		07/18/11 22:55	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		07/18/11 22:55	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		07/18/11 22:55	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		07/18/11 22:55	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		07/18/11 22:55	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		07/18/11 22:55	56-23-5	

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ANALYTICAL RESULTS

Project: Carpenter 2339-353-03
Pace Project No.: 5050590

Sample: P-1 **Lab ID: 5050590009** Collected: 07/07/11 12:50 Received: 07/09/11 10:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Chlorobenzene	ND	ug/L	5.0	1		07/18/11 22:55	108-90-7	
Chloroethane	ND	ug/L	5.0	1		07/18/11 22:55	75-00-3	
Chloroform	ND	ug/L	5.0	1		07/18/11 22:55	67-66-3	
Chloromethane	ND	ug/L	5.0	1		07/18/11 22:55	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		07/18/11 22:55	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		07/18/11 22:55	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		07/18/11 22:55	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		07/18/11 22:55	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		07/18/11 22:55	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		07/18/11 22:55	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		07/18/11 22:55	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		07/18/11 22:55	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		07/18/11 22:55	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		07/18/11 22:55	75-71-8	H1,p2
1,1-Dichloroethane	ND	ug/L	5.0	1		07/18/11 22:55	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		07/18/11 22:55	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		07/18/11 22:55	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		07/18/11 22:55	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		07/18/11 22:55	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		07/18/11 22:55	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		07/18/11 22:55	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		07/18/11 22:55	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		07/18/11 22:55	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		07/18/11 22:55	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		07/18/11 22:55	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		07/18/11 22:55	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		07/18/11 22:55	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		07/18/11 22:55	87-68-3	
n-Hexane	ND	ug/L	5.0	1		07/18/11 22:55	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		07/18/11 22:55	591-78-6	
Iodomethane	ND	ug/L	10.0	1		07/18/11 22:55	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		07/18/11 22:55	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		07/18/11 22:55	99-87-6	
Methylene chloride	ND	ug/L	5.0	1		07/18/11 22:55	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		07/18/11 22:55	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		07/18/11 22:55	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		07/18/11 22:55	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		07/18/11 22:55	103-65-1	
Styrene	ND	ug/L	5.0	1		07/18/11 22:55	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		07/18/11 22:55	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		07/18/11 22:55	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		07/18/11 22:55	127-18-4	
Toluene	ND	ug/L	5.0	1		07/18/11 22:55	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		07/18/11 22:55	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		07/18/11 22:55	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		07/18/11 22:55	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		07/18/11 22:55	79-00-5	

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ANALYTICAL RESULTS

Project: Carpenter 2339-353-03
Pace Project No.: 5050590

Sample: P-1 **Lab ID: 5050590009** Collected: 07/07/11 12:50 Received: 07/09/11 10:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Trichloroethene	ND	ug/L	5.0	1		07/18/11 22:55	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		07/18/11 22:55	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		07/18/11 22:55	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		07/18/11 22:55	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		07/18/11 22:55	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		07/18/11 22:55	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		07/18/11 22:55	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		07/18/11 22:55	1330-20-7	
Dibromofluoromethane (S)	99	%	83-123	1		07/18/11 22:55	1868-53-7	
4-Bromofluorobenzene (S)	97	%	72-125	1		07/18/11 22:55	460-00-4	
Toluene-d8 (S)	98	%	81-114	1		07/18/11 22:55	2037-26-5	

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ANALYTICAL RESULTS

Project: Carpenter 2339-353-03
Pace Project No.: 5050590

Sample: P-3 **Lab ID: 5050590010** Collected: 07/07/11 13:30 Received: 07/09/11 10:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel	Analytical Method: EPA 8015 Modified Preparation Method: EPA 3510							
Diesel Range Organics (C8-C28)	**0.25**	mg/L	0.10	1	07/12/11 02:10	07/12/11 10:00		
n-Pentacosane (S)	93	%	20-108	1	07/12/11 02:10	07/12/11 10:00	629-99-2	
Gasoline Range Organics	Analytical Method: EPA 5030/8015 Mod.							
Gasoline Range Organics	ND	mg/L	0.20	1		07/13/11 20:53		
TPH (C06-C10)	ND	mg/L	0.20	1		07/13/11 20:53		
TPH (C06-C12)	ND	mg/L	0.20	1		07/13/11 20:53		
4-Bromofluorobenzene (S)	85	%	45-130	1		07/13/11 20:53	460-00-4	
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	10.5	1	07/11/11 22:50	07/12/11 21:59	83-32-9	
Acenaphthylene	ND	ug/L	10.5	1	07/11/11 22:50	07/12/11 21:59	208-96-8	
Anthracene	ND	ug/L	10.5	1	07/11/11 22:50	07/12/11 21:59	120-12-7	
Benzo(a)anthracene	ND	ug/L	10.5	1	07/11/11 22:50	07/12/11 21:59	56-55-3	
Benzo(a)pyrene	ND	ug/L	10.5	1	07/11/11 22:50	07/12/11 21:59	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	10.5	1	07/11/11 22:50	07/12/11 21:59	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	10.5	1	07/11/11 22:50	07/12/11 21:59	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	10.5	1	07/11/11 22:50	07/12/11 21:59	207-08-9	
Benzyl alcohol	ND	ug/L	21.1	1	07/11/11 22:50	07/12/11 21:59	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	10.5	1	07/11/11 22:50	07/12/11 21:59	101-55-3	
Butylbenzylphthalate	ND	ug/L	10.5	1	07/11/11 22:50	07/12/11 21:59	85-68-7	
4-Chloro-3-methylphenol	ND	ug/L	21.1	1	07/11/11 22:50	07/12/11 21:59	59-50-7	
4-Chloroaniline	ND	ug/L	21.1	1	07/11/11 22:50	07/12/11 21:59	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	10.5	1	07/11/11 22:50	07/12/11 21:59	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.5	1	07/11/11 22:50	07/12/11 21:59	111-44-4	
bis(2chloro1methylethyl) ether	ND	ug/L	5.3	1	07/11/11 22:50	07/12/11 21:59	108-60-1	
2-Chloronaphthalene	ND	ug/L	10.5	1	07/11/11 22:50	07/12/11 21:59	91-58-7	
2-Chlorophenol	ND	ug/L	10.5	1	07/11/11 22:50	07/12/11 21:59	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	10.5	1	07/11/11 22:50	07/12/11 21:59	7005-72-3	
Chrysene	ND	ug/L	10.5	1	07/11/11 22:50	07/12/11 21:59	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	10.5	1	07/11/11 22:50	07/12/11 21:59	53-70-3	
Dibenzofuran	ND	ug/L	10.5	1	07/11/11 22:50	07/12/11 21:59	132-64-9	
3,3'-Dichlorobenzidine	ND	ug/L	21.1	1	07/11/11 22:50	07/12/11 21:59	91-94-1	
2,4-Dichlorophenol	ND	ug/L	10.5	1	07/11/11 22:50	07/12/11 21:59	120-83-2	
Diethylphthalate	ND	ug/L	10.5	1	07/11/11 22:50	07/12/11 21:59	84-66-2	
2,4-Dimethylphenol	ND	ug/L	10.5	1	07/11/11 22:50	07/12/11 21:59	105-67-9	
Dimethylphthalate	ND	ug/L	10.5	1	07/11/11 22:50	07/12/11 21:59	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.5	1	07/11/11 22:50	07/12/11 21:59	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	52.6	1	07/11/11 22:50	07/12/11 21:59	534-52-1	
2,4-Dinitrophenol	ND	ug/L	52.6	1	07/11/11 22:50	07/12/11 21:59	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	10.5	1	07/11/11 22:50	07/12/11 21:59	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.5	1	07/11/11 22:50	07/12/11 21:59	606-20-2	
Di-n-octylphthalate	ND	ug/L	10.5	1	07/11/11 22:50	07/12/11 21:59	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	5.3	1	07/11/11 22:50	07/12/11 21:59	117-81-7	
Fluoranthene	ND	ug/L	10.5	1	07/11/11 22:50	07/12/11 21:59	206-44-0	
Fluorene	ND	ug/L	10.5	1	07/11/11 22:50	07/12/11 21:59	86-73-7	

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Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: Carpenter 2339-353-03
Pace Project No.: 5050590

Sample: P-3 **Lab ID: 5050590010** Collected: 07/07/11 13:30 Received: 07/09/11 10:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Hexachloro-1,3-butadiene	ND	ug/L	5.3	1	07/11/11 22:50	07/12/11 21:59	87-68-3	
Hexachlorobenzene	ND	ug/L	10.5	1	07/11/11 22:50	07/12/11 21:59	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	21.1	1	07/11/11 22:50	07/12/11 21:59	77-47-4	
Hexachloroethane	ND	ug/L	10.5	1	07/11/11 22:50	07/12/11 21:59	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	10.5	1	07/11/11 22:50	07/12/11 21:59	193-39-5	
Isophorone	ND	ug/L	10.5	1	07/11/11 22:50	07/12/11 21:59	78-59-1	
2-Methylnaphthalene	ND	ug/L	10.5	1	07/11/11 22:50	07/12/11 21:59	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	10.5	1	07/11/11 22:50	07/12/11 21:59	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	21.1	1	07/11/11 22:50	07/12/11 21:59		
Naphthalene	ND	ug/L	5.3	1	07/11/11 22:50	07/12/11 21:59	91-20-3	
2-Nitroaniline	ND	ug/L	52.6	1	07/11/11 22:50	07/12/11 21:59	88-74-4	
3-Nitroaniline	ND	ug/L	52.6	1	07/11/11 22:50	07/12/11 21:59	99-09-2	
4-Nitroaniline	ND	ug/L	52.6	1	07/11/11 22:50	07/12/11 21:59	100-01-6	
Nitrobenzene	ND	ug/L	10.5	1	07/11/11 22:50	07/12/11 21:59	98-95-3	
2-Nitrophenol	ND	ug/L	10.5	1	07/11/11 22:50	07/12/11 21:59	88-75-5	
4-Nitrophenol	ND	ug/L	52.6	1	07/11/11 22:50	07/12/11 21:59	100-02-7	
N-Nitroso-di-n-propylamine	ND	ug/L	10.5	1	07/11/11 22:50	07/12/11 21:59	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	10.5	1	07/11/11 22:50	07/12/11 21:59	86-30-6	
Pentachlorophenol	ND	ug/L	52.6	1	07/11/11 22:50	07/12/11 21:59	87-86-5	
Phenanthrene	ND	ug/L	10.5	1	07/11/11 22:50	07/12/11 21:59	85-01-8	
Phenol	ND	ug/L	10.5	1	07/11/11 22:50	07/12/11 21:59	108-95-2	
Pyrene	ND	ug/L	10.5	1	07/11/11 22:50	07/12/11 21:59	129-00-0	
2,4,5-Trichlorophenol	ND	ug/L	10.5	1	07/11/11 22:50	07/12/11 21:59	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.5	1	07/11/11 22:50	07/12/11 21:59	88-06-2	
Nitrobenzene-d5 (S)	83	%	33-108	1	07/11/11 22:50	07/12/11 21:59	4165-60-0	
2-Fluorobiphenyl (S)	80	%	34-106	1	07/11/11 22:50	07/12/11 21:59	321-60-8	
Terphenyl-d14 (S)	91	%	31-122	1	07/11/11 22:50	07/12/11 21:59	1718-51-0	
Phenol-d6 (S)	34	%	10-56	1	07/11/11 22:50	07/12/11 21:59	13127-88-3	
2-Fluorophenol (S)	52	%	10-74	1	07/11/11 22:50	07/12/11 21:59	367-12-4	
2,4,6-Tribromophenol (S)	91	%	32-124	1	07/11/11 22:50	07/12/11 21:59	118-79-6	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		07/18/11 23:33	67-64-1	
Acrolein	ND	ug/L	50.0	1		07/18/11 23:33	107-02-8	
Acrylonitrile	ND	ug/L	100	1		07/18/11 23:33	107-13-1	
Benzene	ND	ug/L	5.0	1		07/18/11 23:33	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		07/18/11 23:33	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		07/18/11 23:33	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		07/18/11 23:33	75-27-4	
Bromoform	ND	ug/L	5.0	1		07/18/11 23:33	75-25-2	
Bromomethane	ND	ug/L	5.0	1		07/18/11 23:33	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		07/18/11 23:33	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		07/18/11 23:33	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		07/18/11 23:33	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		07/18/11 23:33	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		07/18/11 23:33	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		07/18/11 23:33	56-23-5	

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ANALYTICAL RESULTS

Project: Carpenter 2339-353-03
Pace Project No.: 5050590

Sample: P-3 **Lab ID: 5050590010** Collected: 07/07/11 13:30 Received: 07/09/11 10:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Chlorobenzene	ND	ug/L	5.0	1		07/18/11 23:33	108-90-7	
Chloroethane	ND	ug/L	5.0	1		07/18/11 23:33	75-00-3	
Chloroform	ND	ug/L	5.0	1		07/18/11 23:33	67-66-3	
Chloromethane	ND	ug/L	5.0	1		07/18/11 23:33	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		07/18/11 23:33	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		07/18/11 23:33	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		07/18/11 23:33	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		07/18/11 23:33	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		07/18/11 23:33	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		07/18/11 23:33	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		07/18/11 23:33	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		07/18/11 23:33	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		07/18/11 23:33	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		07/18/11 23:33	75-71-8	H1,p2
1,1-Dichloroethane	ND	ug/L	5.0	1		07/18/11 23:33	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		07/18/11 23:33	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		07/18/11 23:33	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		07/18/11 23:33	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		07/18/11 23:33	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		07/18/11 23:33	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		07/18/11 23:33	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		07/18/11 23:33	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		07/18/11 23:33	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		07/18/11 23:33	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		07/18/11 23:33	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		07/18/11 23:33	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		07/18/11 23:33	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		07/18/11 23:33	87-68-3	
n-Hexane	ND	ug/L	5.0	1		07/18/11 23:33	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		07/18/11 23:33	591-78-6	
Iodomethane	ND	ug/L	10.0	1		07/18/11 23:33	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		07/18/11 23:33	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		07/18/11 23:33	99-87-6	
Methylene chloride	ND	ug/L	5.0	1		07/18/11 23:33	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		07/18/11 23:33	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		07/18/11 23:33	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		07/18/11 23:33	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		07/18/11 23:33	103-65-1	
Styrene	ND	ug/L	5.0	1		07/18/11 23:33	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		07/18/11 23:33	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		07/18/11 23:33	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		07/18/11 23:33	127-18-4	
Toluene	ND	ug/L	5.0	1		07/18/11 23:33	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		07/18/11 23:33	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		07/18/11 23:33	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		07/18/11 23:33	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		07/18/11 23:33	79-00-5	

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ANALYTICAL RESULTS

Project: Carpenter 2339-353-03
Pace Project No.: 5050590

Sample: P-3 **Lab ID: 5050590010** Collected: 07/07/11 13:30 Received: 07/09/11 10:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Trichloroethene	ND	ug/L	5.0	1		07/18/11 23:33	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		07/18/11 23:33	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		07/18/11 23:33	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		07/18/11 23:33	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		07/18/11 23:33	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		07/18/11 23:33	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		07/18/11 23:33	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		07/18/11 23:33	1330-20-7	
Dibromofluoromethane (S)	99	%	83-123	1		07/18/11 23:33	1868-53-7	
4-Bromofluorobenzene (S)	96	%	72-125	1		07/18/11 23:33	460-00-4	
Toluene-d8 (S)	96	%	81-114	1		07/18/11 23:33	2037-26-5	

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ANALYTICAL RESULTS

Project: Carpenter 2339-353-03
Pace Project No.: 5050590

Sample: Trip Blank **Lab ID: 5050590011** Collected: 07/07/11 08:00 Received: 07/09/11 10:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		07/19/11 00:10	67-64-1	
Acrolein	ND	ug/L	50.0	1		07/19/11 00:10	107-02-8	
Acrylonitrile	ND	ug/L	100	1		07/19/11 00:10	107-13-1	
Benzene	ND	ug/L	5.0	1		07/19/11 00:10	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		07/19/11 00:10	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		07/19/11 00:10	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		07/19/11 00:10	75-27-4	
Bromoform	ND	ug/L	5.0	1		07/19/11 00:10	75-25-2	
Bromomethane	ND	ug/L	5.0	1		07/19/11 00:10	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		07/19/11 00:10	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		07/19/11 00:10	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		07/19/11 00:10	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		07/19/11 00:10	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		07/19/11 00:10	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		07/19/11 00:10	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		07/19/11 00:10	108-90-7	
Chloroethane	ND	ug/L	5.0	1		07/19/11 00:10	75-00-3	
Chloroform	ND	ug/L	5.0	1		07/19/11 00:10	67-66-3	
Chloromethane	ND	ug/L	5.0	1		07/19/11 00:10	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		07/19/11 00:10	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		07/19/11 00:10	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		07/19/11 00:10	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		07/19/11 00:10	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		07/19/11 00:10	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		07/19/11 00:10	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		07/19/11 00:10	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		07/19/11 00:10	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		07/19/11 00:10	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		07/19/11 00:10	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		07/19/11 00:10	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		07/19/11 00:10	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		07/19/11 00:10	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		07/19/11 00:10	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		07/19/11 00:10	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		07/19/11 00:10	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		07/19/11 00:10	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		07/19/11 00:10	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		07/19/11 00:10	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		07/19/11 00:10	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		07/19/11 00:10	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		07/19/11 00:10	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		07/19/11 00:10	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		07/19/11 00:10	87-68-3	
n-Hexane	ND	ug/L	5.0	1		07/19/11 00:10	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		07/19/11 00:10	591-78-6	
Iodomethane	ND	ug/L	10.0	1		07/19/11 00:10	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		07/19/11 00:10	98-82-8	

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ANALYTICAL RESULTS

Project: Carpenter 2339-353-03
Pace Project No.: 5050590

Sample: Trip Blank **Lab ID: 5050590011** Collected: 07/07/11 08:00 Received: 07/09/11 10:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
p-Isopropyltoluene	ND	ug/L	5.0	1		07/19/11 00:10	99-87-6	
Methylene chloride	ND	ug/L	5.0	1		07/19/11 00:10	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		07/19/11 00:10	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		07/19/11 00:10	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		07/19/11 00:10	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		07/19/11 00:10	103-65-1	
Styrene	ND	ug/L	5.0	1		07/19/11 00:10	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		07/19/11 00:10	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		07/19/11 00:10	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		07/19/11 00:10	127-18-4	
Toluene	ND	ug/L	5.0	1		07/19/11 00:10	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		07/19/11 00:10	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		07/19/11 00:10	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		07/19/11 00:10	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		07/19/11 00:10	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		07/19/11 00:10	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		07/19/11 00:10	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		07/19/11 00:10	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		07/19/11 00:10	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		07/19/11 00:10	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		07/19/11 00:10	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		07/19/11 00:10	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		07/19/11 00:10	1330-20-7	
Dibromofluoromethane (S)	98	%	83-123	1		07/19/11 00:10	1868-53-7	
4-Bromofluorobenzene (S)	97	%	72-125	1		07/19/11 00:10	460-00-4	
Toluene-d8 (S)	99	%	81-114	1		07/19/11 00:10	2037-26-5	

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ANALYTICAL RESULTS

Project: Carpenter 2339-353-03
Pace Project No.: 5050590

Sample: P-3(11.5-12) **Lab ID: 5050590012** Collected: 07/06/11 11:15 Received: 07/09/11 10:50 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel	Analytical Method: EPA 8015 Modified Preparation Method: EPA 3546							
Diesel Range Organics (C8-C28)	ND	mg/kg	11.0	1	07/12/11 12:28	07/12/11 21:02		
n-Pentacosane (S)	84	%	30-126	1	07/12/11 12:28	07/12/11 21:02	629-99-2	
8015 GRO 5035	Analytical Method: EPA 8015 Mod Pur							
Gasoline Range Organics	**1.8**	mg/kg	0.75	1		07/14/11 01:03		
4-Bromofluorobenzene (S)	89	%	30-163	1		07/14/11 01:03	460-00-4	
8270 MSSV SHORT LIST MICROWAVE	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	363	1	07/13/11 01:15	07/13/11 17:11	83-32-9	
Acenaphthylene	ND	ug/kg	363	1	07/13/11 01:15	07/13/11 17:11	208-96-8	
Anthracene	ND	ug/kg	363	1	07/13/11 01:15	07/13/11 17:11	120-12-7	
Benzo(a)anthracene	ND	ug/kg	363	1	07/13/11 01:15	07/13/11 17:11	56-55-3	
Benzo(a)pyrene	ND	ug/kg	363	1	07/13/11 01:15	07/13/11 17:11	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	363	1	07/13/11 01:15	07/13/11 17:11	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	363	1	07/13/11 01:15	07/13/11 17:11	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	363	1	07/13/11 01:15	07/13/11 17:11	207-08-9	
Benzyl alcohol	ND	ug/kg	726	1	07/13/11 01:15	07/13/11 17:11	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	363	1	07/13/11 01:15	07/13/11 17:11	101-55-3	
Butylbenzylphthalate	ND	ug/kg	363	1	07/13/11 01:15	07/13/11 17:11	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	726	1	07/13/11 01:15	07/13/11 17:11	59-50-7	
4-Chloroaniline	ND	ug/kg	726	1	07/13/11 01:15	07/13/11 17:11	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	363	1	07/13/11 01:15	07/13/11 17:11	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	363	1	07/13/11 01:15	07/13/11 17:11	111-44-4	
bis(2chloro1methylethyl) ether	ND	ug/kg	363	1	07/13/11 01:15	07/13/11 17:11	108-60-1	
2-Chloronaphthalene	ND	ug/kg	363	1	07/13/11 01:15	07/13/11 17:11	91-58-7	
2-Chlorophenol	ND	ug/kg	363	1	07/13/11 01:15	07/13/11 17:11	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	363	1	07/13/11 01:15	07/13/11 17:11	7005-72-3	
Chrysene	ND	ug/kg	363	1	07/13/11 01:15	07/13/11 17:11	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	363	1	07/13/11 01:15	07/13/11 17:11	53-70-3	
Dibenzofuran	ND	ug/kg	363	1	07/13/11 01:15	07/13/11 17:11	132-64-9	
3,3'-Dichlorobenzidine	ND	ug/kg	726	1	07/13/11 01:15	07/13/11 17:11	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	363	1	07/13/11 01:15	07/13/11 17:11	120-83-2	
Diethylphthalate	ND	ug/kg	363	1	07/13/11 01:15	07/13/11 17:11	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	363	1	07/13/11 01:15	07/13/11 17:11	105-67-9	
Dimethylphthalate	ND	ug/kg	363	1	07/13/11 01:15	07/13/11 17:11	131-11-3	
Di-n-butylphthalate	ND	ug/kg	363	1	07/13/11 01:15	07/13/11 17:11	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	1760	1	07/13/11 01:15	07/13/11 17:11	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	1760	1	07/13/11 01:15	07/13/11 17:11	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	363	1	07/13/11 01:15	07/13/11 17:11	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	363	1	07/13/11 01:15	07/13/11 17:11	606-20-2	
Di-n-octylphthalate	ND	ug/kg	363	1	07/13/11 01:15	07/13/11 17:11	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	363	1	07/13/11 01:15	07/13/11 17:11	117-81-7	
Fluoranthene	ND	ug/kg	363	1	07/13/11 01:15	07/13/11 17:11	206-44-0	
Fluorene	ND	ug/kg	363	1	07/13/11 01:15	07/13/11 17:11	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	363	1	07/13/11 01:15	07/13/11 17:11	87-68-3	

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ANALYTICAL RESULTS

Project: Carpenter 2339-353-03
Pace Project No.: 5050590

Sample: P-3(11.5-12) **Lab ID: 5050590012** Collected: 07/06/11 11:15 Received: 07/09/11 10:50 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV SHORT LIST MICROWAVE	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Hexachlorobenzene	ND	ug/kg	363	1	07/13/11 01:15	07/13/11 17:11	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	363	1	07/13/11 01:15	07/13/11 17:11	77-47-4	
Hexachloroethane	ND	ug/kg	363	1	07/13/11 01:15	07/13/11 17:11	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	363	1	07/13/11 01:15	07/13/11 17:11	193-39-5	
Isophorone	ND	ug/kg	363	1	07/13/11 01:15	07/13/11 17:11	78-59-1	
2-Methylnaphthalene	ND	ug/kg	363	1	07/13/11 01:15	07/13/11 17:11	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	363	1	07/13/11 01:15	07/13/11 17:11	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	726	1	07/13/11 01:15	07/13/11 17:11		
Naphthalene	ND	ug/kg	363	1	07/13/11 01:15	07/13/11 17:11	91-20-3	
2-Nitroaniline	ND	ug/kg	1760	1	07/13/11 01:15	07/13/11 17:11	88-74-4	
3-Nitroaniline	ND	ug/kg	1760	1	07/13/11 01:15	07/13/11 17:11	99-09-2	
4-Nitroaniline	ND	ug/kg	1760	1	07/13/11 01:15	07/13/11 17:11	100-01-6	
Nitrobenzene	ND	ug/kg	363	1	07/13/11 01:15	07/13/11 17:11	98-95-3	
2-Nitrophenol	ND	ug/kg	363	1	07/13/11 01:15	07/13/11 17:11	88-75-5	
4-Nitrophenol	ND	ug/kg	1760	1	07/13/11 01:15	07/13/11 17:11	100-02-7	
N-Nitroso-di-n-propylamine	ND	ug/kg	363	1	07/13/11 01:15	07/13/11 17:11	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	363	1	07/13/11 01:15	07/13/11 17:11	86-30-6	
Pentachlorophenol	ND	ug/kg	1760	1	07/13/11 01:15	07/13/11 17:11	87-86-5	
Phenanthrene	ND	ug/kg	363	1	07/13/11 01:15	07/13/11 17:11	85-01-8	
Phenol	ND	ug/kg	363	1	07/13/11 01:15	07/13/11 17:11	108-95-2	
Pyrene	ND	ug/kg	363	1	07/13/11 01:15	07/13/11 17:11	129-00-0	
2,4,5-Trichlorophenol	ND	ug/kg	363	1	07/13/11 01:15	07/13/11 17:11	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	363	1	07/13/11 01:15	07/13/11 17:11	88-06-2	
Nitrobenzene-d5 (S)	76	%	26-98	1	07/13/11 01:15	07/13/11 17:11	4165-60-0	
2-Fluorobiphenyl (S)	72	%	36-94	1	07/13/11 01:15	07/13/11 17:11	321-60-8	
Terphenyl-d14 (S)	69	%	32-112	1	07/13/11 01:15	07/13/11 17:11	1718-51-0	
Phenol-d6 (S)	80	%	33-98	1	07/13/11 01:15	07/13/11 17:11	13127-88-3	
2-Fluorophenol (S)	80	%	29-97	1	07/13/11 01:15	07/13/11 17:11	367-12-4	
2,4,6-Tribromophenol (S)	89	%	24-114	1	07/13/11 01:15	07/13/11 17:11	118-79-6	
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	100	1		07/19/11 00:48	67-64-1	
Acrolein	ND	ug/kg	100	1		07/19/11 00:48	107-02-8	
Acrylonitrile	ND	ug/kg	100	1		07/19/11 00:48	107-13-1	
Benzene	**11.9**	ug/kg	5.0	1		07/19/11 00:48	71-43-2	
Bromobenzene	ND	ug/kg	5.0	1		07/19/11 00:48	108-86-1	
Bromochloromethane	ND	ug/kg	5.0	1		07/19/11 00:48	74-97-5	
Bromodichloromethane	ND	ug/kg	5.0	1		07/19/11 00:48	75-27-4	
Bromoform	ND	ug/kg	5.0	1		07/19/11 00:48	75-25-2	
Bromomethane	ND	ug/kg	5.0	1		07/19/11 00:48	74-83-9	
2-Butanone (MEK)	ND	ug/kg	25.1	1		07/19/11 00:48	78-93-3	
n-Butylbenzene	ND	ug/kg	5.0	1		07/19/11 00:48	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.0	1		07/19/11 00:48	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.0	1		07/19/11 00:48	98-06-6	
Carbon disulfide	ND	ug/kg	10.0	1		07/19/11 00:48	75-15-0	

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ANALYTICAL RESULTS

Project: Carpenter 2339-353-03
Pace Project No.: 5050590

Sample: P-3(11.5-12) **Lab ID: 5050590012** Collected: 07/06/11 11:15 Received: 07/09/11 10:50 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Carbon tetrachloride	ND	ug/kg	5.0	1		07/19/11 00:48	56-23-5	
Chlorobenzene	ND	ug/kg	5.0	1		07/19/11 00:48	108-90-7	
Chloroethane	ND	ug/kg	5.0	1		07/19/11 00:48	75-00-3	
Chloroform	ND	ug/kg	5.0	1		07/19/11 00:48	67-66-3	
Chloromethane	ND	ug/kg	5.0	1		07/19/11 00:48	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.0	1		07/19/11 00:48	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.0	1		07/19/11 00:48	106-43-4	
Dibromochloromethane	ND	ug/kg	5.0	1		07/19/11 00:48	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.0	1		07/19/11 00:48	106-93-4	
Dibromomethane	ND	ug/kg	5.0	1		07/19/11 00:48	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.0	1		07/19/11 00:48	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.0	1		07/19/11 00:48	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.0	1		07/19/11 00:48	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	100	1		07/19/11 00:48	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	5.0	1		07/19/11 00:48	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.0	1		07/19/11 00:48	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.0	1		07/19/11 00:48	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.0	1		07/19/11 00:48	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.0	1		07/19/11 00:48	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.0	1		07/19/11 00:48	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.0	1		07/19/11 00:48	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.0	1		07/19/11 00:48	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.0	1		07/19/11 00:48	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.0	1		07/19/11 00:48	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.0	1		07/19/11 00:48	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.0	1		07/19/11 00:48	10061-02-6	
Ethylbenzene	**10.3**	ug/kg	5.0	1		07/19/11 00:48	100-41-4	
Ethyl methacrylate	ND	ug/kg	100	1		07/19/11 00:48	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	5.0	1		07/19/11 00:48	87-68-3	
n-Hexane	ND	ug/kg	5.0	1		07/19/11 00:48	110-54-3	N2
2-Hexanone	ND	ug/kg	100	1		07/19/11 00:48	591-78-6	
Iodomethane	ND	ug/kg	100	1		07/19/11 00:48	74-88-4	
Isopropylbenzene (Cumene)	**5.9**	ug/kg	5.0	1		07/19/11 00:48	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.0	1		07/19/11 00:48	99-87-6	
Methylene chloride	ND	ug/kg	20.1	1		07/19/11 00:48	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	25.1	1		07/19/11 00:48	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.0	1		07/19/11 00:48	1634-04-4	
Naphthalene	ND	ug/kg	5.0	1		07/19/11 00:48	91-20-3	
n-Propylbenzene	ND	ug/kg	5.0	1		07/19/11 00:48	103-65-1	
Styrene	ND	ug/kg	5.0	1		07/19/11 00:48	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.0	1		07/19/11 00:48	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.0	1		07/19/11 00:48	79-34-5	
Tetrachloroethene	ND	ug/kg	5.0	1		07/19/11 00:48	127-18-4	
Toluene	ND	ug/kg	5.0	1		07/19/11 00:48	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.0	1		07/19/11 00:48	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.0	1		07/19/11 00:48	120-82-1	

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ANALYTICAL RESULTS

Project: Carpenter 2339-353-03
Pace Project No.: 5050590

Sample: P-3(11.5-12) **Lab ID: 5050590012** Collected: 07/06/11 11:15 Received: 07/09/11 10:50 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
1,1,1-Trichloroethane	ND	ug/kg	5.0	1		07/19/11 00:48	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.0	1		07/19/11 00:48	79-00-5	
Trichloroethene	ND	ug/kg	5.0	1		07/19/11 00:48	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.0	1		07/19/11 00:48	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.0	1		07/19/11 00:48	96-18-4	
1,2,4-Trimethylbenzene	**8.6**	ug/kg	5.0	1		07/19/11 00:48	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.0	1		07/19/11 00:48	108-67-8	
Vinyl acetate	ND	ug/kg	100	1		07/19/11 00:48	108-05-4	
Vinyl chloride	ND	ug/kg	5.0	1		07/19/11 00:48	75-01-4	
Xylene (Total)	ND	ug/kg	10.0	1		07/19/11 00:48	1330-20-7	
Dibromofluoromethane (S)	99	%	71-125	1		07/19/11 00:48	1868-53-7	
Toluene-d8 (S)	100	%	76-124	1		07/19/11 00:48	2037-26-5	
4-Bromofluorobenzene (S)	99	%	67-134	1		07/19/11 00:48	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**9.1**	%	0.10	1		07/15/11 13:41		

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QUALITY CONTROL DATA

Project: Carpenter 2339-353-03
Pace Project No.: 5050590

QC Batch: OEXT/25900
QC Batch Method: EPA 3546
Analysis Method: EPA 8015 Modified
Analysis Description: 8015 Solid GCSV
Associated Lab Samples: 5050590012

METHOD BLANK: 596879
Matrix: Solid
Associated Lab Samples: 5050590012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diesel Range Organics (C8-C28)	mg/kg	ND	10.0	07/12/11 20:00	
n-Pentacosane (S)	%	61	30-126	07/12/11 20:00	

LABORATORY CONTROL SAMPLE: 596880

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Diesel Range Organics (C8-C28)	mg/kg	83.3	53.8	65	47-107	
n-Pentacosane (S)	%			75	30-126	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 596881 596882

Parameter	Units	5050584001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Diesel Range Organics (C8-C28)	mg/kg	ND	103	103	69.4	72.0	61	64	23-115	4	20	
n-Pentacosane (S)	%						82	82	30-126		20	

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QUALITY CONTROL DATA

Project: Carpenter 2339-353-03
Pace Project No.: 5050590

QC Batch: OEXT/25890 Analysis Method: EPA 8015 Modified
QC Batch Method: EPA 3510 Analysis Description: 8015 GCS
Associated Lab Samples: 5050590002, 5050590003, 5050590004, 5050590005, 5050590006, 5050590007, 5050590008, 5050590009, 5050590010

METHOD BLANK: 596810 Matrix: Water
Associated Lab Samples: 5050590002, 5050590003, 5050590004, 5050590005, 5050590006, 5050590007, 5050590008, 5050590009, 5050590010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diesel Range Organics (C8-C28)	mg/L	ND	0.10	07/12/11 09:05	
n-Pentacosane (S)	%	88	20-108	07/12/11 09:05	

LABORATORY CONTROL SAMPLE: 596811

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Diesel Range Organics (C8-C28)	mg/L	2.5	2.1	84	56-104	
n-Pentacosane (S)	%			96	20-108	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 596812 596813

Parameter	Units	5050590003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Diesel Range Organics (C8-C28)	mg/L	ND	5.6	5.6	4.7	4.5	83	81	41-117	3	20	
n-Pentacosane (S)	%						72	67	20-108		20	

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QUALITY CONTROL DATA

Project: Carpenter 2339-353-03
Pace Project No.: 5050590

QC Batch: GCV/13328 | Analysis Method: EPA 8015 Mod Pur
QC Batch Method: EPA 8015 Mod Pur | Analysis Description: 8015 GRO 5035
Associated Lab Samples: 5050590012

METHOD BLANK: 597748 | Matrix: Solid
Associated Lab Samples: 5050590012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	mg/kg	ND	1.0	07/13/11 20:35	
4-Bromofluorobenzene (S)	%	90	30-163	07/13/11 20:35	

LABORATORY CONTROL SAMPLE: 597749

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	mg/kg	10	10.3	103	81-127	
4-Bromofluorobenzene (S)	%			99	30-163	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 597750 597751

Parameter	Units	5050589005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Gasoline Range Organics	mg/kg	ND	8.8	8.9	7.3	7.3	84	82	10-133	.3	20	
4-Bromofluorobenzene (S)	%						96	107	30-163		20	

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QUALITY CONTROL DATA

Project: Carpenter 2339-353-03
Pace Project No.: 5050590

QC Batch: GCV/13329 | Analysis Method: EPA 5030/8015 Mod.
QC Batch Method: EPA 5030/8015 Mod. | Analysis Description: Gasoline Range Organics
Associated Lab Samples: 5050590003, 5050590009, 5050590010

METHOD BLANK: 597768 | Matrix: Water
Associated Lab Samples: 5050590003, 5050590009, 5050590010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	mg/L	ND	0.20	07/13/11 20:01	
TPH (C06-C10)	mg/L	ND	0.20	07/13/11 20:01	
TPH (C06-C12)	mg/L	ND	0.20	07/13/11 20:01	
4-Bromofluorobenzene (S)	%	82	45-130	07/13/11 20:01	

LABORATORY CONTROL SAMPLE: 597769

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	mg/L	10	9.9	99	82-116	
TPH (C06-C10)	mg/L	10	10.1	101	82-118	
TPH (C06-C12)	mg/L	10	10.1	101	82-125	
4-Bromofluorobenzene (S)	%			95	45-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 597770 597771

Parameter	Units	5050590003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Gasoline Range Organics	mg/L	ND	10	10	7.0	7.5	70	75	31-122	6	20	
TPH (C06-C10)	mg/L	ND	10	10	7.2	7.7	72	77	40-122	6	20	
TPH (C06-C12)	mg/L	ND	10	10	7.0	7.5	70	75	48-120	6	20	
4-Bromofluorobenzene (S)	%						88	84	45-130		20	

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QUALITY CONTROL DATA

Project: Carpenter 2339-353-03
Pace Project No.: 5050590

QC Batch: GCV/13332 | Analysis Method: EPA 5030/8015 Mod.
QC Batch Method: EPA 5030/8015 Mod. | Analysis Description: Gasoline Range Organics
Associated Lab Samples: 5050590001, 5050590002, 5050590004, 5050590005, 5050590006, 5050590007, 5050590008

METHOD BLANK: 597876 | Matrix: Water
Associated Lab Samples: 5050590001, 5050590002, 5050590004, 5050590005, 5050590006, 5050590007, 5050590008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	mg/L	ND	0.20	07/13/11 10:26	
TPH (C06-C10)	mg/L	ND	0.20	07/13/11 10:26	
TPH (C06-C12)	mg/L	ND	0.20	07/13/11 10:26	
4-Bromofluorobenzene (S)	%	82	45-130	07/13/11 10:26	

LABORATORY CONTROL SAMPLE: 597877

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	mg/L	10	8.8	88	82-116	
TPH (C06-C10)	mg/L	10	9.0	90	82-118	
TPH (C06-C12)	mg/L	10	9.0	90	82-125	
4-Bromofluorobenzene (S)	%			95	45-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 597878 597879

Parameter	Units	5050554010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Gasoline Range Organics	mg/L	ND	10	10	10.4	9.5	104	95	31-122	9	20	
TPH (C06-C10)	mg/L	ND	10	10	10.6	9.7	106	97	40-122	9	20	
TPH (C06-C12)	mg/L	ND	10	10	10.6	9.6	106	96	48-120	10	20	
4-Bromofluorobenzene (S)	%						97	93	45-130		20	

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QUALITY CONTROL DATA

Project: Carpenter 2339-353-03
Pace Project No.: 5050590

QC Batch: OEXT/25916 | Analysis Method: EPA 8270
QC Batch Method: EPA 3546 | Analysis Description: 8270 Solid MSSV Microwave Short Spike
Associated Lab Samples: 5050590012

METHOD BLANK: 597194 | Matrix: Solid
Associated Lab Samples: 5050590012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
2,4,5-Trichlorophenol	ug/kg	ND	330	07/13/11 16:33	
2,4,6-Trichlorophenol	ug/kg	ND	330	07/13/11 16:33	
2,4-Dichlorophenol	ug/kg	ND	330	07/13/11 16:33	
2,4-Dimethylphenol	ug/kg	ND	330	07/13/11 16:33	
2,4-Dinitrophenol	ug/kg	ND	1600	07/13/11 16:33	
2,4-Dinitrotoluene	ug/kg	ND	330	07/13/11 16:33	
2,6-Dinitrotoluene	ug/kg	ND	330	07/13/11 16:33	
2-Chloronaphthalene	ug/kg	ND	330	07/13/11 16:33	
2-Chlorophenol	ug/kg	ND	330	07/13/11 16:33	
2-Methylnaphthalene	ug/kg	ND	330	07/13/11 16:33	
2-Methylphenol(o-Cresol)	ug/kg	ND	330	07/13/11 16:33	
2-Nitroaniline	ug/kg	ND	1600	07/13/11 16:33	
2-Nitrophenol	ug/kg	ND	330	07/13/11 16:33	
3&4-Methylphenol(m&p Cresol)	ug/kg	ND	660	07/13/11 16:33	
3,3'-Dichlorobenzidine	ug/kg	ND	660	07/13/11 16:33	
3-Nitroaniline	ug/kg	ND	1600	07/13/11 16:33	
4,6-Dinitro-2-methylphenol	ug/kg	ND	1600	07/13/11 16:33	
4-Bromophenylphenyl ether	ug/kg	ND	330	07/13/11 16:33	
4-Chloro-3-methylphenol	ug/kg	ND	660	07/13/11 16:33	
4-Chloroaniline	ug/kg	ND	660	07/13/11 16:33	
4-Chlorophenylphenyl ether	ug/kg	ND	330	07/13/11 16:33	
4-Nitroaniline	ug/kg	ND	1600	07/13/11 16:33	
4-Nitrophenol	ug/kg	ND	1600	07/13/11 16:33	
Acenaphthene	ug/kg	ND	330	07/13/11 16:33	
Acenaphthylene	ug/kg	ND	330	07/13/11 16:33	
Anthracene	ug/kg	ND	330	07/13/11 16:33	
Benzo(a)anthracene	ug/kg	ND	330	07/13/11 16:33	
Benzo(a)pyrene	ug/kg	ND	330	07/13/11 16:33	
Benzo(b)fluoranthene	ug/kg	ND	330	07/13/11 16:33	
Benzo(g,h,i)perylene	ug/kg	ND	330	07/13/11 16:33	
Benzo(k)fluoranthene	ug/kg	ND	330	07/13/11 16:33	
Benzyl alcohol	ug/kg	ND	660	07/13/11 16:33	
bis(2-Chloroethoxy)methane	ug/kg	ND	330	07/13/11 16:33	
bis(2-Chloroethyl) ether	ug/kg	ND	330	07/13/11 16:33	
bis(2-Ethylhexyl)phthalate	ug/kg	ND	330	07/13/11 16:33	
bis(2chloro1methylethyl) ether	ug/kg	ND	330	07/13/11 16:33	
Butylbenzylphthalate	ug/kg	ND	330	07/13/11 16:33	
Chrysene	ug/kg	ND	330	07/13/11 16:33	
Di-n-butylphthalate	ug/kg	ND	330	07/13/11 16:33	
Di-n-octylphthalate	ug/kg	ND	330	07/13/11 16:33	
Dibenz(a,h)anthracene	ug/kg	ND	330	07/13/11 16:33	
Dibenzofuran	ug/kg	ND	330	07/13/11 16:33	
Diethylphthalate	ug/kg	ND	330	07/13/11 16:33	

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QUALITY CONTROL DATA

Project: Carpenter 2339-353-03
Pace Project No.: 5050590

METHOD BLANK: 597194 Matrix: Solid

Associated Lab Samples: 5050590012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dimethylphthalate	ug/kg	ND	330	07/13/11 16:33	
Fluoranthene	ug/kg	ND	330	07/13/11 16:33	
Fluorene	ug/kg	ND	330	07/13/11 16:33	
Hexachloro-1,3-butadiene	ug/kg	ND	330	07/13/11 16:33	
Hexachlorobenzene	ug/kg	ND	330	07/13/11 16:33	
Hexachlorocyclopentadiene	ug/kg	ND	330	07/13/11 16:33	
Hexachloroethane	ug/kg	ND	330	07/13/11 16:33	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	330	07/13/11 16:33	
Isophorone	ug/kg	ND	330	07/13/11 16:33	
N-Nitroso-di-n-propylamine	ug/kg	ND	330	07/13/11 16:33	
N-Nitrosodiphenylamine	ug/kg	ND	330	07/13/11 16:33	
Naphthalene	ug/kg	ND	330	07/13/11 16:33	
Nitrobenzene	ug/kg	ND	330	07/13/11 16:33	
Pentachlorophenol	ug/kg	ND	1600	07/13/11 16:33	
Phenanthrene	ug/kg	ND	330	07/13/11 16:33	
Phenol	ug/kg	ND	330	07/13/11 16:33	
Pyrene	ug/kg	ND	330	07/13/11 16:33	
2,4,6-Tribromophenol (S)	%	94	24-114	07/13/11 16:33	
2-Fluorobiphenyl (S)	%	79	36-94	07/13/11 16:33	
2-Fluorophenol (S)	%	82	29-97	07/13/11 16:33	
Nitrobenzene-d5 (S)	%	78	26-98	07/13/11 16:33	
Phenol-d6 (S)	%	84	33-98	07/13/11 16:33	
Terphenyl-d14 (S)	%	83	32-112	07/13/11 16:33	

LABORATORY CONTROL SAMPLE: 597195

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,4-Dinitrotoluene	ug/kg	3330	2440	73	49-102	
2-Chlorophenol	ug/kg	3330	2630	79	44-98	
2-Methylnaphthalene	ug/kg	3330	2780	83	49-94	
4-Chloro-3-methylphenol	ug/kg	3330	2790	84	53-103	
4-Nitrophenol	ug/kg	3330	2790	84	25-110	
Acenaphthene	ug/kg	3330	2670	80	55-103	
Acenaphthylene	ug/kg	3330	2610	78	58-107	
Anthracene	ug/kg	3330	2620	79	57-113	
Benzo(a)anthracene	ug/kg	3330	2680	80	56-110	
Benzo(a)pyrene	ug/kg	3330	2700	81	59-110	
Benzo(b)fluoranthene	ug/kg	3330	2550	77	53-109	
Benzo(g,h,i)perylene	ug/kg	3330	2670	80	55-109	
Benzo(k)fluoranthene	ug/kg	3330	2790	84	55-108	
Chrysene	ug/kg	3330	2580	77	57-108	
Dibenz(a,h)anthracene	ug/kg	3330	2720	82	53-111	
Fluoranthene	ug/kg	3330	2660	80	59-108	
Fluorene	ug/kg	3330	2620	78	57-107	
Indeno(1,2,3-cd)pyrene	ug/kg	3330	2690	81	54-110	

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QUALITY CONTROL DATA

Project: Carpenter 2339-353-03
Pace Project No.: 5050590

LABORATORY CONTROL SAMPLE: 597195

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
N-Nitroso-di-n-propylamine	ug/kg	3330	2550	76	46-96	
Naphthalene	ug/kg	3330	2480	74	44-100	
Pentachlorophenol	ug/kg	3330	2620	79	10-106	
Phenanthrene	ug/kg	3330	2580	78	53-106	
Phenol	ug/kg	3330	2730	82	47-100	
Pyrene	ug/kg	3330	2660	80	60-112	
2,4,6-Tribromophenol (S)	%			91	24-114	
2-Fluorobiphenyl (S)	%			82	36-94	
2-Fluorophenol (S)	%			80	29-97	
Nitrobenzene-d5 (S)	%			78	26-98	
Phenol-d6 (S)	%			84	33-98	
Terphenyl-d14 (S)	%			85	32-112	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 597196 597197

Parameter	Units	5050597001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
2,4-Dinitrotoluene	ug/kg	ND	4090	4090	2750	2630	67	64	15-108	4	20	
2-Chlorophenol	ug/kg	ND	4090	4090	3200	3010	78	74	31-94	6	20	
2-Methylnaphthalene	ug/kg	ND	4090	4090	3230	3190	79	78	33-93	1	20	
4-Chloro-3-methylphenol	ug/kg	ND	4090	4090	3200	3010	78	74	35-102	6	20	
4-Nitrophenol	ug/kg	ND	4090	4090	3380	3210	83	79	10-125	5	20	
Acenaphthene	ug/kg	ND	4090	4090	3070	3000	75	73	36-98	3	20	
Acenaphthylene	ug/kg	ND	4090	4090	3040	2870	74	70	37-106	6	20	
Anthracene	ug/kg	ND	4090	4090	3090	2770	76	68	30-107	11	20	
Benzo(a)anthracene	ug/kg	ND	4090	4090	3030	2850	74	70	30-100	6	20	
Benzo(a)pyrene	ug/kg	ND	4090	4090	3030	2710	74	66	24-103	11	20	
Benzo(b)fluoranthene	ug/kg	ND	4090	4090	3110	2690	76	66	26-100	15	20	
Benzo(g,h,i)perylene	ug/kg	ND	4090	4090	3070	2730	75	67	24-100	12	20	
Benzo(k)fluoranthene	ug/kg	ND	4090	4090	2900	2860	71	70	29-100	1	20	
Chrysene	ug/kg	ND	4090	4090	3030	2790	74	68	30-99	8	20	
Dibenz(a,h)anthracene	ug/kg	ND	4090	4090	3130	2770	77	68	26-100	12	20	
Fluoranthene	ug/kg	ND	4090	4090	3070	2940	75	72	35-101	4	20	
Fluorene	ug/kg	ND	4090	4090	3050	2920	75	71	38-98	4	20	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	4090	4090	3080	2760	75	67	23-99	11	20	
N-Nitroso-di-n-propylamine	ug/kg	ND	4090	4090	3050	2950	75	72	33-96	3	20	
Naphthalene	ug/kg	ND	4090	4090	2850	2890	70	71	33-92	1	20	
Pentachlorophenol	ug/kg	ND	4090	4090	3320	3050	81	75	10-107	9	20	
Phenanthrene	ug/kg	ND	4090	4090	3080	2880	75	71	35-101	7	20	
Phenol	ug/kg	ND	4090	4090	3320	3110	81	76	32-99	7	20	
Pyrene	ug/kg	ND	4090	4090	3040	2910	74	71	37-103	4	20	
2,4,6-Tribromophenol (S)	%						88	77	24-114		20	
2-Fluorobiphenyl (S)	%						76	77	36-94		20	
2-Fluorophenol (S)	%						79	76	29-97		20	
Nitrobenzene-d5 (S)	%						72	72	26-98		20	
Phenol-d6 (S)	%						82	77	33-98		20	
Terphenyl-d14 (S)	%						75	73	32-112		20	

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QUALITY CONTROL DATA

Project: Carpenter 2339-353-03
Pace Project No.: 5050590

QC Batch: OEXT/25892 Analysis Method: EPA 8270
QC Batch Method: EPA 3510 Analysis Description: 8270 Water MSSV
Associated Lab Samples: 5050590001, 5050590002, 5050590003, 5050590004, 5050590005, 5050590006, 5050590007, 5050590008, 5050590009, 5050590010

METHOD BLANK: 596816 Matrix: Water
Associated Lab Samples: 5050590001, 5050590002, 5050590003, 5050590004, 5050590005, 5050590006, 5050590007, 5050590008, 5050590009, 5050590010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
2,4,5-Trichlorophenol	ug/L	ND	10.0	07/12/11 17:13	
2,4,6-Trichlorophenol	ug/L	ND	10.0	07/12/11 17:13	
2,4-Dichlorophenol	ug/L	ND	10.0	07/12/11 17:13	
2,4-Dimethylphenol	ug/L	ND	10.0	07/12/11 17:13	
2,4-Dinitrophenol	ug/L	ND	50.0	07/12/11 17:13	
2,4-Dinitrotoluene	ug/L	ND	10.0	07/12/11 17:13	
2,6-Dinitrotoluene	ug/L	ND	10.0	07/12/11 17:13	
2-Chloronaphthalene	ug/L	ND	10.0	07/12/11 17:13	
2-Chlorophenol	ug/L	ND	10.0	07/12/11 17:13	
2-Methylnaphthalene	ug/L	ND	10.0	07/12/11 17:13	
2-Methylphenol(o-Cresol)	ug/L	ND	10.0	07/12/11 17:13	
2-Nitroaniline	ug/L	ND	50.0	07/12/11 17:13	
2-Nitrophenol	ug/L	ND	10.0	07/12/11 17:13	
3&4-Methylphenol(m&p Cresol)	ug/L	ND	20.0	07/12/11 17:13	
3,3'-Dichlorobenzidine	ug/L	ND	20.0	07/12/11 17:13	
3-Nitroaniline	ug/L	ND	50.0	07/12/11 17:13	
4,6-Dinitro-2-methylphenol	ug/L	ND	50.0	07/12/11 17:13	
4-Bromophenylphenyl ether	ug/L	ND	10.0	07/12/11 17:13	
4-Chloro-3-methylphenol	ug/L	ND	20.0	07/12/11 17:13	
4-Chloroaniline	ug/L	ND	20.0	07/12/11 17:13	
4-Chlorophenylphenyl ether	ug/L	ND	10.0	07/12/11 17:13	
4-Nitroaniline	ug/L	ND	50.0	07/12/11 17:13	
4-Nitrophenol	ug/L	ND	50.0	07/12/11 17:13	
Acenaphthene	ug/L	ND	10.0	07/12/11 17:13	
Acenaphthylene	ug/L	ND	10.0	07/12/11 17:13	
Anthracene	ug/L	ND	10.0	07/12/11 17:13	
Benzo(a)anthracene	ug/L	ND	10.0	07/12/11 17:13	
Benzo(a)pyrene	ug/L	ND	10.0	07/12/11 17:13	
Benzo(b)fluoranthene	ug/L	ND	10.0	07/12/11 17:13	
Benzo(g,h,i)perylene	ug/L	ND	10.0	07/12/11 17:13	
Benzo(k)fluoranthene	ug/L	ND	10.0	07/12/11 17:13	
Benzyl alcohol	ug/L	ND	20.0	07/12/11 17:13	
bis(2-Chloroethoxy)methane	ug/L	ND	10.0	07/12/11 17:13	
bis(2-Chloroethyl) ether	ug/L	ND	10.0	07/12/11 17:13	
bis(2-Ethylhexyl)phthalate	ug/L	ND	5.0	07/12/11 17:13	
bis(2chloro1methylethyl) ether	ug/L	ND	5.0	07/12/11 17:13	
Butylbenzylphthalate	ug/L	ND	10.0	07/12/11 17:13	
Chrysene	ug/L	ND	10.0	07/12/11 17:13	
Di-n-butylphthalate	ug/L	ND	10.0	07/12/11 17:13	
Di-n-octylphthalate	ug/L	ND	10.0	07/12/11 17:13	
Dibenz(a,h)anthracene	ug/L	ND	10.0	07/12/11 17:13	

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QUALITY CONTROL DATA

Project: Carpenter 2339-353-03
Pace Project No.: 5050590

METHOD BLANK: 596816 Matrix: Water

Associated Lab Samples: 5050590001, 5050590002, 5050590003, 5050590004, 5050590005, 5050590006, 5050590007, 5050590008, 5050590009, 5050590010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibenzofuran	ug/L	ND	10.0	07/12/11 17:13	
Diethylphthalate	ug/L	ND	10.0	07/12/11 17:13	
Dimethylphthalate	ug/L	ND	10.0	07/12/11 17:13	
Fluoranthene	ug/L	ND	10.0	07/12/11 17:13	
Fluorene	ug/L	ND	10.0	07/12/11 17:13	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	07/12/11 17:13	
Hexachlorobenzene	ug/L	ND	10.0	07/12/11 17:13	
Hexachlorocyclopentadiene	ug/L	ND	20.0	07/12/11 17:13	
Hexachloroethane	ug/L	ND	10.0	07/12/11 17:13	
Indeno(1,2,3-cd)pyrene	ug/L	ND	10.0	07/12/11 17:13	
Isophorone	ug/L	ND	10.0	07/12/11 17:13	
N-Nitroso-di-n-propylamine	ug/L	ND	10.0	07/12/11 17:13	
N-Nitrosodiphenylamine	ug/L	ND	10.0	07/12/11 17:13	
Naphthalene	ug/L	ND	5.0	07/12/11 17:13	
Nitrobenzene	ug/L	ND	10.0	07/12/11 17:13	
Pentachlorophenol	ug/L	ND	50.0	07/12/11 17:13	
Phenanthrene	ug/L	ND	10.0	07/12/11 17:13	
Phenol	ug/L	ND	10.0	07/12/11 17:13	
Pyrene	ug/L	ND	10.0	07/12/11 17:13	
2,4,6-Tribromophenol (S)	%	83	32-124	07/12/11 17:13	
2-Fluorobiphenyl (S)	%	71	34-106	07/12/11 17:13	
2-Fluorophenol (S)	%	49	10-74	07/12/11 17:13	
Nitrobenzene-d5 (S)	%	78	33-108	07/12/11 17:13	
Phenol-d6 (S)	%	31	10-56	07/12/11 17:13	
Terphenyl-d14 (S)	%	90	31-122	07/12/11 17:13	

LABORATORY CONTROL SAMPLE: 596817

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,4-Dinitrotoluene	ug/L	100	87.2	87	38-119	
2-Chlorophenol	ug/L	100	82.3	82	37-106	
2-Methylnaphthalene	ug/L	100	80.1	80	40-106	
4-Chloro-3-methylphenol	ug/L	100	99.0	99	43-115	
4-Nitrophenol	ug/L	100	38.9J	39	10-57	
Acenaphthene	ug/L	100	82.5	82	48-114	
Acenaphthylene	ug/L	100	83.2	83	47-124	
Anthracene	ug/L	100	88.2	88	52-122	
Benzo(a)anthracene	ug/L	100	87.9	88	51-122	
Benzo(a)pyrene	ug/L	100	87.7	88	52-122	
Benzo(b)fluoranthene	ug/L	100	88.1	88	48-120	
Benzo(g,h,i)perylene	ug/L	100	80.1	80	49-119	
Benzo(k)fluoranthene	ug/L	100	90.7	91	49-120	
Chrysene	ug/L	100	89.3	89	51-121	
Dibenz(a,h)anthracene	ug/L	100	82.3	82	50-118	

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QUALITY CONTROL DATA

Project: Carpenter 2339-353-03
Pace Project No.: 5050590

LABORATORY CONTROL SAMPLE: 596817

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Fluoranthene	ug/L	100	96.0	96	50-122	
Fluorene	ug/L	100	87.0	87	49-118	
Indeno(1,2,3-cd)pyrene	ug/L	100	80.0	80	50-119	
N-Nitroso-di-n-propylamine	ug/L	100	86.5	86	43-112	
Naphthalene	ug/L	100	78.0	78	41-107	
Pentachlorophenol	ug/L	100	68.9	69	14-131	
Phenanthrene	ug/L	100	84.9	85	51-116	
Phenol	ug/L	100	34.4	34	14-50	
Pyrene	ug/L	100	95.7	96	52-126	
2,4,6-Tribromophenol (S)	%			97	32-124	
2-Fluorobiphenyl (S)	%			83	34-106	
2-Fluorophenol (S)	%			54	10-74	
Nitrobenzene-d5 (S)	%			88	33-108	
Phenol-d6 (S)	%			34	10-56	
Terphenyl-d14 (S)	%			100	31-122	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 596818 596819

Parameter	Units	5050590003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
2,4-Dinitrotoluene	ug/L	ND	211	211	185	187	88	89	37-114	1	20	
2-Chlorophenol	ug/L	ND	211	211	180	180	85	85	43-102	.06	20	
2-Methylnaphthalene	ug/L	ND	211	211	177	182	84	87	41-104	3	20	
4-Chloro-3-methylphenol	ug/L	ND	211	211	207	213	98	101	49-108	3	20	
4-Nitrophenol	ug/L	ND	211	211	147	144	70	68	10-99	2	20	
Acenaphthene	ug/L	ND	211	211	177	179	84	85	52-105	1	20	
Acenaphthylene	ug/L	ND	211	211	177	176	84	84	50-117	.2	20	
Anthracene	ug/L	ND	211	211	175	179	83	85	58-109	2	20	
Benzo(a)anthracene	ug/L	ND	211	211	165	160	78	76	55-109	3	20	
Benzo(a)pyrene	ug/L	ND	211	211	157	152	75	72	54-111	3	20	
Benzo(b)fluoranthene	ug/L	ND	211	211	154	150	73	71	50-107	3	20	
Benzo(g,h,i)perylene	ug/L	ND	211	211	140	139	66	66	50-107	.8	20	
Benzo(k)fluoranthene	ug/L	ND	211	211	167	158	79	75	55-106	6	20	
Chrysene	ug/L	ND	211	211	162	158	77	75	55-107	3	20	
Dibenz(a,h)anthracene	ug/L	ND	211	211	142	141	68	67	51-107	.9	20	
Fluoranthene	ug/L	ND	211	211	188	188	89	89	57-110	.06	20	
Fluorene	ug/L	ND	211	211	180	181	86	86	57-106	.4	20	
Indeno(1,2,3-cd)pyrene	ug/L	ND	211	211	140	138	66	65	50-107	1	20	
N-Nitroso-di-n-propylamine	ug/L	ND	211	211	178	177	84	84	43-107	.4	20	
Naphthalene	ug/L	ND	211	211	169	175	80	83	43-104	3	20	
Pentachlorophenol	ug/L	ND	211	211	173	175	82	83	25-117	1	20	
Phenanthrene	ug/L	ND	211	211	172	177	82	84	60-106	3	20	
Phenol	ug/L	ND	211	211	122	117	58	56	28-74	4	20	
Pyrene	ug/L	ND	211	211	189	185	90	88	64-111	2	20	
2,4,6-Tribromophenol (S)	%						94	98	32-124		20	
2-Fluorobiphenyl (S)	%						82	84	34-106		20	
2-Fluorophenol (S)	%						71	71	10-74		20	

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QUALITY CONTROL DATA

Project: Carpenter 2339-353-03
Pace Project No.: 5050590

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 596818 596819

Parameter	Units	5050590003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrobenzene-d5 (S)	%						84	88	33-108		20	
Phenol-d6 (S)	%						55	55	10-56		20	
Terphenyl-d14 (S)	%						85	84	31-122		20	

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QUALITY CONTROL DATA

Project: Carpenter 2339-353-03
Pace Project No.: 5050590

QC Batch: MSV/34243 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 5050590001, 5050590002, 5050590003, 5050590004, 5050590005, 5050590006

METHOD BLANK: 599262 Matrix: Water
Associated Lab Samples: 5050590001, 5050590002, 5050590003, 5050590004, 5050590005, 5050590006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	07/18/11 08:33	
1,1,1-Trichloroethane	ug/L	ND	5.0	07/18/11 08:33	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	07/18/11 08:33	
1,1,2-Trichloroethane	ug/L	ND	5.0	07/18/11 08:33	
1,1-Dichloroethane	ug/L	ND	5.0	07/18/11 08:33	
1,1-Dichloroethene	ug/L	ND	5.0	07/18/11 08:33	
1,1-Dichloropropene	ug/L	ND	5.0	07/18/11 08:33	
1,2,3-Trichlorobenzene	ug/L	ND	5.0	07/18/11 08:33	
1,2,3-Trichloropropane	ug/L	ND	5.0	07/18/11 08:33	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	07/18/11 08:33	
1,2,4-Trimethylbenzene	ug/L	ND	5.0	07/18/11 08:33	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	07/18/11 08:33	
1,2-Dichlorobenzene	ug/L	ND	5.0	07/18/11 08:33	
1,2-Dichloroethane	ug/L	ND	5.0	07/18/11 08:33	
1,2-Dichloropropane	ug/L	ND	5.0	07/18/11 08:33	
1,3,5-Trimethylbenzene	ug/L	ND	5.0	07/18/11 08:33	
1,3-Dichlorobenzene	ug/L	ND	5.0	07/18/11 08:33	
1,3-Dichloropropane	ug/L	ND	5.0	07/18/11 08:33	
1,4-Dichlorobenzene	ug/L	ND	5.0	07/18/11 08:33	
2,2-Dichloropropane	ug/L	ND	5.0	07/18/11 08:33	
2-Butanone (MEK)	ug/L	ND	25.0	07/18/11 08:33	
2-Chlorotoluene	ug/L	ND	5.0	07/18/11 08:33	
2-Hexanone	ug/L	ND	25.0	07/18/11 08:33	
4-Chlorotoluene	ug/L	ND	5.0	07/18/11 08:33	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25.0	07/18/11 08:33	
Acetone	ug/L	ND	100	07/18/11 08:33	
Acrolein	ug/L	ND	50.0	07/18/11 08:33	
Acrylonitrile	ug/L	ND	100	07/18/11 08:33	
Benzene	ug/L	ND	5.0	07/18/11 08:33	
Bromobenzene	ug/L	ND	5.0	07/18/11 08:33	
Bromochloromethane	ug/L	ND	5.0	07/18/11 08:33	
Bromodichloromethane	ug/L	ND	5.0	07/18/11 08:33	
Bromoform	ug/L	ND	5.0	07/18/11 08:33	
Bromomethane	ug/L	ND	5.0	07/18/11 08:33	
Carbon disulfide	ug/L	ND	10.0	07/18/11 08:33	
Carbon tetrachloride	ug/L	ND	5.0	07/18/11 08:33	
Chlorobenzene	ug/L	ND	5.0	07/18/11 08:33	
Chloroethane	ug/L	ND	5.0	07/18/11 08:33	
Chloroform	ug/L	ND	5.0	07/18/11 08:33	
Chloromethane	ug/L	ND	5.0	07/18/11 08:33	
cis-1,2-Dichloroethene	ug/L	ND	5.0	07/18/11 08:33	
cis-1,3-Dichloropropene	ug/L	ND	5.0	07/18/11 08:33	
Dibromochloromethane	ug/L	ND	5.0	07/18/11 08:33	

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QUALITY CONTROL DATA

Project: Carpenter 2339-353-03
Pace Project No.: 5050590

METHOD BLANK: 599262 Matrix: Water

Associated Lab Samples: 5050590001, 5050590002, 5050590003, 5050590004, 5050590005, 5050590006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/L	ND	5.0	07/18/11 08:33	
Dichlorodifluoromethane	ug/L	ND	5.0	07/18/11 08:33	
Ethyl methacrylate	ug/L	ND	100	07/18/11 08:33	
Ethylbenzene	ug/L	ND	5.0	07/18/11 08:33	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	07/18/11 08:33	
Iodomethane	ug/L	ND	10.0	07/18/11 08:33	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	07/18/11 08:33	
Methyl-tert-butyl ether	ug/L	ND	4.0	07/18/11 08:33	
Methylene chloride	ug/L	ND	5.0	07/18/11 08:33	
n-Butylbenzene	ug/L	ND	5.0	07/18/11 08:33	
n-Hexane	ug/L	ND	5.0	07/18/11 08:33	N2
n-Propylbenzene	ug/L	ND	5.0	07/18/11 08:33	
Naphthalene	ug/L	ND	5.0	07/18/11 08:33	
p-Isopropyltoluene	ug/L	ND	5.0	07/18/11 08:33	
sec-Butylbenzene	ug/L	ND	5.0	07/18/11 08:33	
Styrene	ug/L	ND	5.0	07/18/11 08:33	
tert-Butylbenzene	ug/L	ND	5.0	07/18/11 08:33	
Tetrachloroethene	ug/L	ND	5.0	07/18/11 08:33	
Toluene	ug/L	ND	5.0	07/18/11 08:33	
trans-1,2-Dichloroethene	ug/L	ND	5.0	07/18/11 08:33	
trans-1,3-Dichloropropene	ug/L	ND	5.0	07/18/11 08:33	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	07/18/11 08:33	
Trichloroethene	ug/L	ND	5.0	07/18/11 08:33	
Trichlorofluoromethane	ug/L	ND	5.0	07/18/11 08:33	
Vinyl acetate	ug/L	ND	50.0	07/18/11 08:33	
Vinyl chloride	ug/L	ND	2.0	07/18/11 08:33	
Xylene (Total)	ug/L	ND	10.0	07/18/11 08:33	
4-Bromofluorobenzene (S)	%	98	72-125	07/18/11 08:33	
Dibromofluoromethane (S)	%	100	83-123	07/18/11 08:33	
Toluene-d8 (S)	%	96	81-114	07/18/11 08:33	

LABORATORY CONTROL SAMPLE: 599263

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	50.7	101	69-122	
1,1,1-Trichloroethane	ug/L	50	50.2	100	69-126	
1,1,2,2-Tetrachloroethane	ug/L	50	47.2	94	68-134	
1,1,2-Trichloroethane	ug/L	50	46.1	92	77-129	
1,1-Dichloroethane	ug/L	50	46.3	93	70-127	
1,1-Dichloroethene	ug/L	50	45.7	91	75-145	
1,1-Dichloropropene	ug/L	50	50.4	101	75-126	
1,2,3-Trichlorobenzene	ug/L	50	52.5	105	63-130	
1,2,3-Trichloropropane	ug/L	100	91.4	91	45-121	
1,2,4-Trichlorobenzene	ug/L	50	51.8	104	64-122	
1,2,4-Trimethylbenzene	ug/L	50	50.4	101	68-129	

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QUALITY CONTROL DATA

Project: Carpenter 2339-353-03
Pace Project No.: 5050590

LABORATORY CONTROL SAMPLE: 599263

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	50	48.5	97	77-123	
1,2-Dichlorobenzene	ug/L	50	47.2	94	74-123	
1,2-Dichloroethane	ug/L	50	45.1	90	71-127	
1,2-Dichloropropane	ug/L	50	43.0	86	75-126	
1,3,5-Trimethylbenzene	ug/L	50	51.9	104	69-129	
1,3-Dichlorobenzene	ug/L	50	50.1	100	76-123	
1,3-Dichloropropane	ug/L	50	48.3	97	77-126	
1,4-Dichlorobenzene	ug/L	50	47.2	94	77-121	
2,2-Dichloropropane	ug/L	50	50.8	102	45-138	
2-Butanone (MEK)	ug/L	250	284	114	42-177	
2-Chlorotoluene	ug/L	50	51.0	102	74-129	
2-Hexanone	ug/L	250	296	118	57-162	
4-Chlorotoluene	ug/L	50	52.6	105	70-125	
4-Methyl-2-pentanone (MIBK)	ug/L	250	210	84	64-135	
Acetone	ug/L	250	456	182	10-200	
Acrolein	ug/L	1000	850	85	10-200	
Acrylonitrile	ug/L	1000	801	80	59-144	
Benzene	ug/L	50	47.5	95	76-123	
Bromobenzene	ug/L	50	45.0	90	67-130	
Bromochloromethane	ug/L	50	44.7	89	58-153	
Bromodichloromethane	ug/L	50	49.9	100	71-124	
Bromoform	ug/L	50	44.7	89	64-116	
Bromomethane	ug/L	50	59.1	118	23-197	
Carbon disulfide	ug/L	100	83.1	83	55-146	
Carbon tetrachloride	ug/L	50	51.0	102	65-125	
Chlorobenzene	ug/L	50	46.4	93	78-120	
Chloroethane	ug/L	50	42.8	86	56-163	
Chloroform	ug/L	50	46.3	93	73-122	
Chloromethane	ug/L	50	40.3	81	46-146	
cis-1,2-Dichloroethene	ug/L	50	52.4	105	79-129	
cis-1,3-Dichloropropene	ug/L	50	48.6	97	66-123	
Dibromochloromethane	ug/L	50	48.5	97	70-123	
Dibromomethane	ug/L	50	49.7	99	73-123	
Dichlorodifluoromethane	ug/L	50	60.9	122	19-200	
Ethyl methacrylate	ug/L	200	158	79	70-127	
Ethylbenzene	ug/L	50	49.5	99	75-120	
Hexachloro-1,3-butadiene	ug/L	50	56.5	113	64-131	
Iodomethane	ug/L	100	87.7	88	16-181	
Isopropylbenzene (Cumene)	ug/L	50	49.5	99	73-123	
Methyl-tert-butyl ether	ug/L	100	86.6	87	66-128	
Methylene chloride	ug/L	50	47.1	94	61-138	
n-Butylbenzene	ug/L	50	50.8	102	69-130	
n-Hexane	ug/L	50	46.6	93	67-142	N2
n-Propylbenzene	ug/L	50	51.7	103	71-132	
Naphthalene	ug/L	50	51.3	103	62-130	
p-Isopropyltoluene	ug/L	50	52.7	105	71-126	
sec-Butylbenzene	ug/L	50	51.7	103	69-130	
Styrene	ug/L	50	49.4	99	75-125	

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QUALITY CONTROL DATA

Project: Carpenter 2339-353-03
Pace Project No.: 5050590

LABORATORY CONTROL SAMPLE: 599263

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butylbenzene	ug/L	50	40.8	82	49-114	
Tetrachloroethene	ug/L	50	49.6	99	57-125	
Toluene	ug/L	50	46.5	93	72-124	
trans-1,2-Dichloroethene	ug/L	50	48.8	98	71-145	
trans-1,3-Dichloropropene	ug/L	50	46.3	93	58-118	
trans-1,4-Dichloro-2-butene	ug/L	200	176	88	50-121	
Trichloroethene	ug/L	50	49.3	99	77-122	
Trichlorofluoromethane	ug/L	50	45.4	91	56-159	
Vinyl acetate	ug/L	200	138	69	27-119	
Vinyl chloride	ug/L	50	52.5	105	61-146	
Xylene (Total)	ug/L	150	149	99	72-126	
4-Bromofluorobenzene (S)	%			96	72-125	
Dibromofluoromethane (S)	%			103	83-123	
Toluene-d8 (S)	%			97	81-114	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 599264 599265

Parameter	Units	5050590003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	50	50	53.6	56.2	107	112	30-122	5	20	
1,1,1-Trichloroethane	ug/L	ND	50	50	55.7	56.1	111	112	37-136	.9	20	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	50	53.5	55.2	107	110	47-132	3	20	
1,1,2-Trichloroethane	ug/L	ND	50	50	56.5	57.3	113	115	53-131	2	20	
1,1-Dichloroethane	ug/L	ND	50	50	52.3	52.4	105	105	47-138	.2	20	
1,1-Dichloroethene	ug/L	ND	50	50	52.0	52.4	104	105	54-152	.6	20	
1,1-Dichloropropene	ug/L	ND	50	50	55.8	57.1	112	114	47-136	2	20	
1,2,3-Trichlorobenzene	ug/L	ND	50	50	53.9	59.5	108	119	15-132	10	20	
1,2,3-Trichloropropane	ug/L	ND	100	100	96.4	95.4	96	95	24-108	1	20	
1,2,4-Trichlorobenzene	ug/L	ND	50	50	51.3	56.8	103	114	10-130	10	20	
1,2,4-Trimethylbenzene	ug/L	ND	50	50	51.9	56.5	104	113	10-141	9	20	
1,2-Dibromoethane (EDB)	ug/L	ND	50	50	55.6	56.9	111	114	49-130	2	20	
1,2-Dichlorobenzene	ug/L	ND	50	50	50.2	54.1	100	108	20-137	8	20	
1,2-Dichloroethane	ug/L	ND	50	50	52.0	52.4	104	105	42-139	.8	20	
1,2-Dichloropropane	ug/L	ND	50	50	50.0	51.2	100	102	50-131	2	20	
1,3,5-Trimethylbenzene	ug/L	ND	50	50	54.7	58.5	109	117	10-145	7	20	
1,3-Dichlorobenzene	ug/L	ND	50	50	52.0	58.1	104	116	13-143	11	20	
1,3-Dichloropropane	ug/L	ND	50	50	56.6	57.2	113	114	53-130	1	20	
1,4-Dichlorobenzene	ug/L	ND	50	50	49.2	54.0	98	108	13-140	9	20	
2,2-Dichloropropane	ug/L	ND	50	50	54.4	54.0	109	108	13-142	.8	20	
2-Butanone (MEK)	ug/L	ND	250	250	228	230	91	92	43-142	.6	20	
2-Chlorotoluene	ug/L	ND	50	50	53.7	58.6	107	117	15-145	9	20	
2-Hexanone	ug/L	ND	250	250	251	259	101	104	46-139	3	20	
4-Chlorotoluene	ug/L	ND	50	50	55.3	60.3	111	121	12-143	9	20	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	250	250	239	239	95	96	43-140	.3	20	
Acetone	ug/L	ND	250	250	225	233	90	93	38-155	3	20	
Acrolein	ug/L	ND	1000	1000	995	1010	100	101	11-200	2	20	
Acrylonitrile	ug/L	ND	1000	1000	927	928	93	93	42-150	.09	20	

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7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

QUALITY CONTROL DATA

Project: Carpenter 2339-353-03
Pace Project No.: 5050590

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 599264 599265

Parameter	Units	5050590003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	ND	50	50	53.8	54.9	108	110	52-134	2	20	
Bromobenzene	ug/L	ND	50	50	48.5	50.4	97	101	25-140	4	20	
Bromochloromethane	ug/L	ND	50	50	51.5	51.3	103	103	54-144	.3	20	
Bromodichloromethane	ug/L	ND	50	50	56.3	57.4	113	115	42-128	2	20	
Bromoform	ug/L	ND	50	50	50.4	52.7	101	105	34-116	4	20	
Bromomethane	ug/L	ND	50	50	63.6	65.6	127	131	10-200	3	20	
Carbon disulfide	ug/L	ND	100	100	91.6	92.7	92	93	43-144	1	20	
Carbon tetrachloride	ug/L	ND	50	50	56.3	57.3	113	115	26-136	2	20	
Chlorobenzene	ug/L	ND	50	50	51.0	53.2	102	106	33-136	4	20	
Chloroethane	ug/L	ND	50	50	50.7	49.2	101	98	21-200	3	20	
Chloroform	ug/L	ND	50	50	51.6	52.5	103	105	50-134	2	20	
Chloromethane	ug/L	ND	50	50	46.5	47.0	93	94	32-160	1	20	
cis-1,2-Dichloroethene	ug/L	ND	50	50	59.5	60.4	116	118	48-145	1	20	
cis-1,3-Dichloropropene	ug/L	ND	50	50	54.1	54.7	108	109	35-116	1	20	
Dibromochloromethane	ug/L	ND	50	50	55.4	56.3	111	113	39-122	2	20	
Dibromomethane	ug/L	ND	50	50	56.4	57.4	113	115	49-134	2	20	
Dichlorodifluoromethane	ug/L	ND	50	50	68.6	68.1	137	136	35-200	.7	20	
Ethyl methacrylate	ug/L	ND	200	200	190	193	95	96	54-123	2	20	
Ethylbenzene	ug/L	ND	50	50	54.0	57.1	108	114	29-132	6	20	
Hexachloro-1,3-butadiene	ug/L	ND	50	50	55.7	62.4	111	125	10-146	11	20	
Iodomethane	ug/L	ND	100	100	93.3	93.0	93	93	10-171	.2	20	
Isopropylbenzene (Cumene)	ug/L	ND	50	50	52.1	54.5	104	109	11-146	4	20	
Methyl-tert-butyl ether	ug/L	ND	100	100	97.8	98.4	98	98	39-137	.6	20	
Methylene chloride	ug/L	ND	50	50	51.2	51.3	102	103	47-141	.2	20	
n-Butylbenzene	ug/L	ND	50	50	51.4	57.4	103	115	10-156	11	20	
n-Hexane	ug/L	ND	50	50	53.4	53.7	107	107	51-137	.6	20	N2
n-Propylbenzene	ug/L	ND	50	50	55.4	60.0	111	120	10-148	8	20	
Naphthalene	ug/L	ND	50	50	54.7	58.8	109	118	40-124	7	20	
p-Isopropyltoluene	ug/L	ND	50	50	54.2	59.3	108	119	10-150	9	20	
sec-Butylbenzene	ug/L	ND	50	50	53.9	59.0	108	118	10-150	9	20	
Styrene	ug/L	ND	50	50	53.9	56.1	108	112	20-143	4	20	
tert-Butylbenzene	ug/L	ND	50	50	43.2	46.9	86	94	10-123	8	20	
Tetrachloroethene	ug/L	ND	50	50	54.0	56.4	108	113	30-124	4	20	
Toluene	ug/L	ND	50	50	52.5	54.1	104	107	42-130	3	20	
trans-1,2-Dichloroethene	ug/L	ND	50	50	53.4	54.2	107	108	48-144	2	20	
trans-1,3-Dichloropropene	ug/L	ND	50	50	52.8	53.8	106	108	24-114	2	20	
trans-1,4-Dichloro-2-butene	ug/L	ND	200	200	184	168	92	84	22-120	9	20	
Trichloroethene	ug/L	ND	50	50	53.7	55.6	107	111	44-130	4	20	
Trichlorofluoromethane	ug/L	ND	50	50	49.0	49.6	98	99	17-200	1	20	
Vinyl acetate	ug/L	ND	200	200	163	163	81	82	10-115	.4	20	
Vinyl chloride	ug/L	ND	50	50	59.5	58.7	119	117	45-159	1	20	
Xylene (Total)	ug/L	ND	150	150	161	169	108	112	29-131	4	20	
4-Bromofluorobenzene (S)	%						96	95	72-125		20	
Dibromofluoromethane (S)	%						100	100	83-123		20	
Toluene-d8 (S)	%						98	97	81-114		20	

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QUALITY CONTROL DATA

Project: Carpenter 2339-353-03
Pace Project No.: 5050590

QC Batch: MSV/34244 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 5050590007, 5050590008, 5050590009, 5050590010, 5050590011

METHOD BLANK: 599273 Matrix: Water
Associated Lab Samples: 5050590007, 5050590008, 5050590009, 5050590010, 5050590011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	07/18/11 21:03	
1,1,1-Trichloroethane	ug/L	ND	5.0	07/18/11 21:03	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	07/18/11 21:03	
1,1,2-Trichloroethane	ug/L	ND	5.0	07/18/11 21:03	
1,1-Dichloroethane	ug/L	ND	5.0	07/18/11 21:03	
1,1-Dichloroethene	ug/L	ND	5.0	07/18/11 21:03	
1,1-Dichloropropene	ug/L	ND	5.0	07/18/11 21:03	
1,2,3-Trichlorobenzene	ug/L	ND	5.0	07/18/11 21:03	
1,2,3-Trichloropropane	ug/L	ND	5.0	07/18/11 21:03	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	07/18/11 21:03	
1,2,4-Trimethylbenzene	ug/L	ND	5.0	07/18/11 21:03	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	07/18/11 21:03	
1,2-Dichlorobenzene	ug/L	ND	5.0	07/18/11 21:03	
1,2-Dichloroethane	ug/L	ND	5.0	07/18/11 21:03	
1,2-Dichloropropane	ug/L	ND	5.0	07/18/11 21:03	
1,3,5-Trimethylbenzene	ug/L	ND	5.0	07/18/11 21:03	
1,3-Dichlorobenzene	ug/L	ND	5.0	07/18/11 21:03	
1,3-Dichloropropane	ug/L	ND	5.0	07/18/11 21:03	
1,4-Dichlorobenzene	ug/L	ND	5.0	07/18/11 21:03	
2,2-Dichloropropane	ug/L	ND	5.0	07/18/11 21:03	
2-Butanone (MEK)	ug/L	ND	25.0	07/18/11 21:03	
2-Chlorotoluene	ug/L	ND	5.0	07/18/11 21:03	
2-Hexanone	ug/L	ND	25.0	07/18/11 21:03	
4-Chlorotoluene	ug/L	ND	5.0	07/18/11 21:03	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25.0	07/18/11 21:03	
Acetone	ug/L	ND	100	07/18/11 21:03	
Acrolein	ug/L	ND	50.0	07/18/11 21:03	
Acrylonitrile	ug/L	ND	100	07/18/11 21:03	
Benzene	ug/L	ND	5.0	07/18/11 21:03	
Bromobenzene	ug/L	ND	5.0	07/18/11 21:03	
Bromochloromethane	ug/L	ND	5.0	07/18/11 21:03	
Bromodichloromethane	ug/L	ND	5.0	07/18/11 21:03	
Bromoform	ug/L	ND	5.0	07/18/11 21:03	
Bromomethane	ug/L	ND	5.0	07/18/11 21:03	
Carbon disulfide	ug/L	ND	10.0	07/18/11 21:03	
Carbon tetrachloride	ug/L	ND	5.0	07/18/11 21:03	
Chlorobenzene	ug/L	ND	5.0	07/18/11 21:03	
Chloroethane	ug/L	ND	5.0	07/18/11 21:03	
Chloroform	ug/L	ND	5.0	07/18/11 21:03	
Chloromethane	ug/L	ND	5.0	07/18/11 21:03	
cis-1,2-Dichloroethene	ug/L	ND	5.0	07/18/11 21:03	
cis-1,3-Dichloropropene	ug/L	ND	5.0	07/18/11 21:03	
Dibromochloromethane	ug/L	ND	5.0	07/18/11 21:03	

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QUALITY CONTROL DATA

Project: Carpenter 2339-353-03
Pace Project No.: 5050590

METHOD BLANK: 599273 Matrix: Water

Associated Lab Samples: 5050590007, 5050590008, 5050590009, 5050590010, 5050590011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/L	ND	5.0	07/18/11 21:03	
Dichlorodifluoromethane	ug/L	ND	5.0	07/18/11 21:03	
Ethyl methacrylate	ug/L	ND	100	07/18/11 21:03	
Ethylbenzene	ug/L	ND	5.0	07/18/11 21:03	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	07/18/11 21:03	
Iodomethane	ug/L	ND	10.0	07/18/11 21:03	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	07/18/11 21:03	
Methyl-tert-butyl ether	ug/L	ND	4.0	07/18/11 21:03	
Methylene chloride	ug/L	ND	5.0	07/18/11 21:03	
n-Butylbenzene	ug/L	ND	5.0	07/18/11 21:03	
n-Hexane	ug/L	ND	5.0	07/18/11 21:03	N2
n-Propylbenzene	ug/L	ND	5.0	07/18/11 21:03	
Naphthalene	ug/L	ND	5.0	07/18/11 21:03	
p-Isopropyltoluene	ug/L	ND	5.0	07/18/11 21:03	
sec-Butylbenzene	ug/L	ND	5.0	07/18/11 21:03	
Styrene	ug/L	ND	5.0	07/18/11 21:03	
tert-Butylbenzene	ug/L	ND	5.0	07/18/11 21:03	
Tetrachloroethene	ug/L	ND	5.0	07/18/11 21:03	
Toluene	ug/L	ND	5.0	07/18/11 21:03	
trans-1,2-Dichloroethene	ug/L	ND	5.0	07/18/11 21:03	
trans-1,3-Dichloropropene	ug/L	ND	5.0	07/18/11 21:03	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	07/18/11 21:03	
Trichloroethene	ug/L	ND	5.0	07/18/11 21:03	
Trichlorofluoromethane	ug/L	ND	5.0	07/18/11 21:03	
Vinyl acetate	ug/L	ND	50.0	07/18/11 21:03	
Vinyl chloride	ug/L	ND	2.0	07/18/11 21:03	
Xylene (Total)	ug/L	ND	10.0	07/18/11 21:03	
4-Bromofluorobenzene (S)	%	98	72-125	07/18/11 21:03	
Dibromofluoromethane (S)	%	99	83-123	07/18/11 21:03	
Toluene-d8 (S)	%	97	81-114	07/18/11 21:03	

LABORATORY CONTROL SAMPLE: 599274

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	53.4	107	69-122	
1,1,1-Trichloroethane	ug/L	50	51.7	103	69-126	
1,1,2,2-Tetrachloroethane	ug/L	50	51.5	103	68-134	
1,1,2-Trichloroethane	ug/L	50	51.9	104	77-129	
1,1-Dichloroethane	ug/L	50	47.8	96	70-127	
1,1-Dichloroethene	ug/L	50	48.6	97	75-145	
1,1-Dichloropropene	ug/L	50	52.2	104	75-126	
1,2,3-Trichlorobenzene	ug/L	50	50.6	101	63-130	
1,2,3-Trichloropropane	ug/L	100	89.6	90	45-121	
1,2,4-Trichlorobenzene	ug/L	50	45.7	91	64-122	
1,2,4-Trimethylbenzene	ug/L	50	49.9	100	68-129	

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QUALITY CONTROL DATA

Project: Carpenter 2339-353-03
Pace Project No.: 5050590

LABORATORY CONTROL SAMPLE: 599274

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	50	53.2	106	77-123	
1,2-Dichlorobenzene	ug/L	50	48.0	96	74-123	
1,2-Dichloroethane	ug/L	50	47.9	96	71-127	
1,2-Dichloropropane	ug/L	50	46.4	93	75-126	
1,3,5-Trimethylbenzene	ug/L	50	52.1	104	69-129	
1,3-Dichlorobenzene	ug/L	50	49.1	98	76-123	
1,3-Dichloropropane	ug/L	50	52.3	105	77-126	
1,4-Dichlorobenzene	ug/L	50	46.3	93	77-121	
2,2-Dichloropropane	ug/L	50	47.2	94	45-138	
2-Butanone (MEK)	ug/L	250	214	85	42-177	
2-Chlorotoluene	ug/L	50	50.9	102	74-129	
2-Hexanone	ug/L	250	238	95	57-162	
4-Chlorotoluene	ug/L	50	52.2	104	70-125	
4-Methyl-2-pentanone (MIBK)	ug/L	250	226	91	64-135	
Acetone	ug/L	250	225	90	10-200	
Acrolein	ug/L	1000	803	80	10-200	
Acrylonitrile	ug/L	1000	860	86	59-144	
Benzene	ug/L	50	50.1	100	76-123	
Bromobenzene	ug/L	50	46.8	94	67-130	
Bromochloromethane	ug/L	50	47.3	95	58-153	
Bromodichloromethane	ug/L	50	52.6	105	71-124	
Bromoform	ug/L	50	48.8	98	64-116	
Bromomethane	ug/L	50	64.1	128	23-197	
Carbon disulfide	ug/L	100	85.0	85	55-146	
Carbon tetrachloride	ug/L	50	52.5	105	65-125	
Chlorobenzene	ug/L	50	49.1	98	78-120	
Chloroethane	ug/L	50	47.5	95	56-163	
Chloroform	ug/L	50	48.3	97	73-122	
Chloromethane	ug/L	50	44.5	89	46-146	
cis-1,2-Dichloroethene	ug/L	50	54.1	108	79-129	
cis-1,3-Dichloropropene	ug/L	50	48.6	97	66-123	
Dibromochloromethane	ug/L	50	52.5	105	70-123	
Dibromomethane	ug/L	50	52.4	105	73-123	
Dichlorodifluoromethane	ug/L	50	63.4	127	19-200	
Ethyl methacrylate	ug/L	200	175	87	70-127	
Ethylbenzene	ug/L	50	51.5	103	75-120	
Hexachloro-1,3-butadiene	ug/L	50	54.3	109	64-131	
Iodomethane	ug/L	100	91.8	92	16-181	
Isopropylbenzene (Cumene)	ug/L	50	50.2	100	73-123	
Methyl-tert-butyl ether	ug/L	100	89.4	89	66-128	
Methylene chloride	ug/L	50	50.1	100	61-138	
n-Butylbenzene	ug/L	50	48.1	96	69-130	
n-Hexane	ug/L	50	48.9	98	67-142	N2
n-Propylbenzene	ug/L	50	52.3	105	71-132	
Naphthalene	ug/L	50	53.9	108	62-130	
p-Isopropyltoluene	ug/L	50	51.8	104	71-126	
sec-Butylbenzene	ug/L	50	51.8	104	69-130	
Styrene	ug/L	50	52.0	104	75-125	

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QUALITY CONTROL DATA

Project: Carpenter 2339-353-03
Pace Project No.: 5050590

LABORATORY CONTROL SAMPLE: 599274

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butylbenzene	ug/L	50	41.8	84	49-114	
Tetrachloroethene	ug/L	50	51.2	102	57-125	
Toluene	ug/L	50	49.5	99	72-124	
trans-1,2-Dichloroethene	ug/L	50	48.8	98	71-145	
trans-1,3-Dichloropropene	ug/L	50	47.3	95	58-118	
trans-1,4-Dichloro-2-butene	ug/L	200	162	81	50-121	
Trichloroethene	ug/L	50	50.9	102	77-122	
Trichlorofluoromethane	ug/L	50	46.4	93	56-159	
Vinyl acetate	ug/L	200	142	71	27-119	
Vinyl chloride	ug/L	50	54.7	109	61-146	
Xylene (Total)	ug/L	150	155	104	72-126	
4-Bromofluorobenzene (S)	%			96	72-125	
Dibromofluoromethane (S)	%			99	83-123	
Toluene-d8 (S)	%			98	81-114	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 599275 599276

Parameter	Units	5050680003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	50	50	57.3	47.8	115	96	30-122	18	20	
1,1,1-Trichloroethane	ug/L	ND	50	50	55.3	49.8	111	100	37-136	10	20	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	50	54.0	51.4	108	103	47-132	5	20	
1,1,2-Trichloroethane	ug/L	ND	50	50	55.5	51.3	111	103	53-131	8	20	
1,1-Dichloroethane	ug/L	ND	50	50	50.8	48.3	102	97	47-138	5	20	
1,1-Dichloroethene	ug/L	ND	50	50	52.1	46.3	104	93	54-152	12	20	
1,1-Dichloropropene	ug/L	ND	50	50	54.8	46.8	110	94	47-136	16	20	
1,2,3-Trichlorobenzene	ug/L	ND	50	50	52.5	37.3	105	75	15-132	34	20	
1,2,3-Trichloropropane	ug/L	ND	100	100	93.0	86.3	93	86	24-108	7	20	
1,2,4-Trichlorobenzene	ug/L	ND	50	50	47.7	31.9	95	64	10-130	40	20	
1,2,4-Trimethylbenzene	ug/L	ND	50	50	52.8	30.4	106	61	10-141	54	20	
1,2-Dibromoethane (EDB)	ug/L	ND	50	50	55.1	50.7	110	101	49-130	8	20	
1,2-Dichlorobenzene	ug/L	ND	50	50	50.9	35.1	102	70	20-137	37	20	
1,2-Dichloroethane	ug/L	ND	50	50	50.4	47.6	101	95	42-139	6	20	
1,2-Dichloropropane	ug/L	ND	50	50	48.2	44.0	96	88	50-131	9	20	
1,3,5-Trimethylbenzene	ug/L	ND	50	50	55.7	31.8	111	64	10-145	54	20	
1,3-Dichlorobenzene	ug/L	ND	50	50	52.5	32.8	105	66	13-143	46	20	
1,3-Dichloropropane	ug/L	ND	50	50	55.4	50.4	111	101	53-130	9	20	
1,4-Dichlorobenzene	ug/L	ND	50	50	48.7	30.5	97	61	13-140	46	20	
2,2-Dichloropropane	ug/L	ND	50	50	49.6	46.1	99	92	13-142	7	20	
2-Butanone (MEK)	ug/L	ND	250	250	212	211	85	84	43-142	.4	20	
2-Chlorotoluene	ug/L	ND	50	50	54.9	34.1	110	68	15-145	47	20	
2-Hexanone	ug/L	ND	250	250	235	232	94	93	46-139	1	20	
4-Chlorotoluene	ug/L	ND	50	50	55.4	33.1	111	66	12-143	50	20	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	250	250	236	235	94	94	43-140	.5	20	
Acetone	ug/L	ND	250	250	230	229	92	92	38-155	.4	20	
Acrolein	ug/L	ND	1000	1000	1270	1260	127	126	11-200	.7	20	
Acrylonitrile	ug/L	ND	1000	1000	905	894	90	89	42-150	1	20	

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QUALITY CONTROL DATA

Project: Carpenter 2339-353-03
Pace Project No.: 5050590

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 599275 599276

Parameter	Units	5050680003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	ND	50	50	52.9	46.9	106	94	52-134	12	20	
Bromobenzene	ug/L	ND	50	50	49.7	36.2	99	72	25-140	31	20	
Bromochloromethane	ug/L	ND	50	50	50.6	47.6	101	95	54-144	6	20	
Bromodichloromethane	ug/L	ND	50	50	55.2	49.9	110	100	42-128	10	20	
Bromoform	ug/L	ND	50	50	50.5	45.8	101	92	34-116	10	20	
Bromomethane	ug/L	ND	50	50	73.0	67.0	146	134	10-200	9	20	
Carbon disulfide	ug/L	ND	100	100	90.5	80.7	91	81	43-144	11	20	
Carbon tetrachloride	ug/L	ND	50	50	55.5	49.1	111	98	26-136	12	20	
Chlorobenzene	ug/L	ND	50	50	51.9	38.2	104	76	33-136	30	20	
Chloroethane	ug/L	ND	50	50	51.9	51.0	104	102	21-200	2	20	
Chloroform	ug/L	ND	50	50	51.7	47.5	103	95	50-134	8	20	
Chloromethane	ug/L	ND	50	50	46.1	47.2	92	94	32-160	2	20	
cis-1,2-Dichloroethene	ug/L	ND	50	50	57.8	53.0	116	106	48-145	9	20	
cis-1,3-Dichloropropene	ug/L	ND	50	50	51.8	45.2	104	90	35-116	14	20	
Dibromochloromethane	ug/L	ND	50	50	55.9	49.7	112	99	39-122	12	20	
Dibromomethane	ug/L	ND	50	50	55.7	51.9	111	104	49-134	7	20	
Dichlorodifluoromethane	ug/L	ND	50	50	67.4	66.0	135	132	35-200	2	20	
Ethyl methacrylate	ug/L	ND	200	200	180	167	90	83	54-123	8	20	
Ethylbenzene	ug/L	ND	50	50	54.7	36.7	109	73	29-132	39	20	
Hexachloro-1,3-butadiene	ug/L	ND	50	50	57.0	20.5	114	41	10-146	94	20	
Iodomethane	ug/L	ND	100	100	97.5	94.4	98	94	10-171	3	20	
Isopropylbenzene (Cumene)	ug/L	ND	50	50	54.4	33.7	109	67	11-146	47	20	
Methyl-tert-butyl ether	ug/L	ND	100	100	94.9	93.8	95	94	39-137	1	20	
Methylene chloride	ug/L	ND	50	50	52.6	50.0	105	100	47-141	5	20	
n-Butylbenzene	ug/L	ND	50	50	50.5	22.3	101	45	10-156	78	20	
n-Hexane	ug/L	ND	50	50	51.2	45.9	102	92	51-137	11	20	N2
n-Propylbenzene	ug/L	ND	50	50	55.9	30.5	112	61	10-148	59	20	
Naphthalene	ug/L	ND	50	50	55.7	47.0	111	94	40-124	17	20	
p-Isopropyltoluene	ug/L	ND	50	50	55.1	26.6	110	53	10-150	70	20	
sec-Butylbenzene	ug/L	ND	50	50	56.0	28.0	112	56	10-150	67	20	
Styrene	ug/L	ND	50	50	54.0	37.8	108	76	20-143	35	20	
tert-Butylbenzene	ug/L	ND	50	50	45.1	25.5	90	51	10-123	56	20	
Tetrachloroethene	ug/L	ND	50	50	54.1	38.1	108	76	30-124	35	20	
Toluene	ug/L	ND	50	50	52.6	41.5	105	83	42-130	24	20	1d
trans-1,2-Dichloroethene	ug/L	ND	50	50	52.9	47.0	106	94	48-144	12	20	
trans-1,3-Dichloropropene	ug/L	ND	50	50	49.6	43.2	99	86	24-114	14	20	
trans-1,4-Dichloro-2-butene	ug/L	ND	200	200	176	161	88	81	22-120	9	20	
Trichloroethene	ug/L	60.1	50	50	118	98.4	116	77	44-130	18	20	
Trichlorofluoromethane	ug/L	ND	50	50	50.2	47.0	100	94	17-200	7	20	
Vinyl acetate	ug/L	ND	200	200	117	114	59	57	10-115	3	20	
Vinyl chloride	ug/L	ND	50	50	60.5	58.2	121	116	45-159	4	20	
Xylene (Total)	ug/L	ND	150	150	166	112	111	75	29-131	39	20	
4-Bromofluorobenzene (S)	%						97	98	72-125		20	
Dibromofluoromethane (S)	%						100	103	83-123		20	
Toluene-d8 (S)	%						98	98	81-114		20	

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7726 Moller Road
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(317)875-5894

QUALITY CONTROL DATA

Project: Carpenter 2339-353-03
Pace Project No.: 5050590

QC Batch: MSV/34246
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 5050590012

METHOD BLANK: 599331
Matrix: Solid
Associated Lab Samples: 5050590012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.0	07/18/11 21:03	
1,1,1-Trichloroethane	ug/kg	ND	5.0	07/18/11 21:03	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	07/18/11 21:03	
1,1,2-Trichloroethane	ug/kg	ND	5.0	07/18/11 21:03	
1,1-Dichloroethane	ug/kg	ND	5.0	07/18/11 21:03	
1,1-Dichloroethene	ug/kg	ND	5.0	07/18/11 21:03	
1,1-Dichloropropene	ug/kg	ND	5.0	07/18/11 21:03	
1,2,3-Trichlorobenzene	ug/kg	ND	5.0	07/18/11 21:03	
1,2,3-Trichloropropane	ug/kg	ND	5.0	07/18/11 21:03	
1,2,4-Trichlorobenzene	ug/kg	ND	5.0	07/18/11 21:03	
1,2,4-Trimethylbenzene	ug/kg	ND	5.0	07/18/11 21:03	
1,2-Dibromoethane (EDB)	ug/kg	ND	5.0	07/18/11 21:03	
1,2-Dichlorobenzene	ug/kg	ND	5.0	07/18/11 21:03	
1,2-Dichloroethane	ug/kg	ND	5.0	07/18/11 21:03	
1,2-Dichloropropane	ug/kg	ND	5.0	07/18/11 21:03	
1,3,5-Trimethylbenzene	ug/kg	ND	5.0	07/18/11 21:03	
1,3-Dichlorobenzene	ug/kg	ND	5.0	07/18/11 21:03	
1,3-Dichloropropane	ug/kg	ND	5.0	07/18/11 21:03	
1,4-Dichlorobenzene	ug/kg	ND	5.0	07/18/11 21:03	
2,2-Dichloropropane	ug/kg	ND	5.0	07/18/11 21:03	
2-Butanone (MEK)	ug/kg	ND	25.0	07/18/11 21:03	
2-Chlorotoluene	ug/kg	ND	5.0	07/18/11 21:03	
2-Hexanone	ug/kg	ND	100	07/18/11 21:03	
4-Chlorotoluene	ug/kg	ND	5.0	07/18/11 21:03	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	25.0	07/18/11 21:03	
Acetone	ug/kg	ND	100	07/18/11 21:03	
Acrolein	ug/kg	ND	100	07/18/11 21:03	
Acrylonitrile	ug/kg	ND	100	07/18/11 21:03	
Benzene	ug/kg	ND	5.0	07/18/11 21:03	
Bromobenzene	ug/kg	ND	5.0	07/18/11 21:03	
Bromochloromethane	ug/kg	ND	5.0	07/18/11 21:03	
Bromodichloromethane	ug/kg	ND	5.0	07/18/11 21:03	
Bromoform	ug/kg	ND	5.0	07/18/11 21:03	
Bromomethane	ug/kg	ND	5.0	07/18/11 21:03	
Carbon disulfide	ug/kg	ND	10.0	07/18/11 21:03	
Carbon tetrachloride	ug/kg	ND	5.0	07/18/11 21:03	
Chlorobenzene	ug/kg	ND	5.0	07/18/11 21:03	
Chloroethane	ug/kg	ND	5.0	07/18/11 21:03	
Chloroform	ug/kg	ND	5.0	07/18/11 21:03	
Chloromethane	ug/kg	ND	5.0	07/18/11 21:03	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	07/18/11 21:03	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	07/18/11 21:03	
Dibromochloromethane	ug/kg	ND	5.0	07/18/11 21:03	

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QUALITY CONTROL DATA

Project: Carpenter 2339-353-03
Pace Project No.: 5050590

METHOD BLANK: 599331 Matrix: Solid

Associated Lab Samples: 5050590012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/kg	ND	5.0	07/18/11 21:03	
Dichlorodifluoromethane	ug/kg	ND	5.0	07/18/11 21:03	
Ethyl methacrylate	ug/kg	ND	100	07/18/11 21:03	
Ethylbenzene	ug/kg	ND	5.0	07/18/11 21:03	
Hexachloro-1,3-butadiene	ug/kg	ND	5.0	07/18/11 21:03	
Iodomethane	ug/kg	ND	100	07/18/11 21:03	
Isopropylbenzene (Cumene)	ug/kg	ND	5.0	07/18/11 21:03	
Methyl-tert-butyl ether	ug/kg	ND	5.0	07/18/11 21:03	
Methylene chloride	ug/kg	ND	20.0	07/18/11 21:03	
n-Butylbenzene	ug/kg	ND	5.0	07/18/11 21:03	
n-Hexane	ug/kg	ND	5.0	07/18/11 21:03	N2
n-Propylbenzene	ug/kg	ND	5.0	07/18/11 21:03	
Naphthalene	ug/kg	ND	5.0	07/18/11 21:03	
p-Isopropyltoluene	ug/kg	ND	5.0	07/18/11 21:03	
sec-Butylbenzene	ug/kg	ND	5.0	07/18/11 21:03	
Styrene	ug/kg	ND	5.0	07/18/11 21:03	
tert-Butylbenzene	ug/kg	ND	5.0	07/18/11 21:03	
Tetrachloroethene	ug/kg	ND	5.0	07/18/11 21:03	
Toluene	ug/kg	ND	5.0	07/18/11 21:03	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	07/18/11 21:03	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	07/18/11 21:03	
trans-1,4-Dichloro-2-butene	ug/kg	ND	100	07/18/11 21:03	
Trichloroethene	ug/kg	ND	5.0	07/18/11 21:03	
Trichlorofluoromethane	ug/kg	ND	5.0	07/18/11 21:03	
Vinyl acetate	ug/kg	ND	100	07/18/11 21:03	
Vinyl chloride	ug/kg	ND	5.0	07/18/11 21:03	
Xylene (Total)	ug/kg	ND	10.0	07/18/11 21:03	
4-Bromofluorobenzene (S)	%	98	67-134	07/18/11 21:03	
Dibromofluoromethane (S)	%	99	71-125	07/18/11 21:03	
Toluene-d8 (S)	%	97	76-124	07/18/11 21:03	

LABORATORY CONTROL SAMPLE: 599332

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	50	53.4	107	70-118	
1,1,1-Trichloroethane	ug/kg	50	51.7	103	73-123	
1,1,2,2-Tetrachloroethane	ug/kg	50	51.5	103	71-127	
1,1,2-Trichloroethane	ug/kg	50	51.9	104	78-124	
1,1-Dichloroethane	ug/kg	50	47.8	96	73-122	
1,1-Dichloroethene	ug/kg	50	48.6	97	80-137	
1,1-Dichloropropene	ug/kg	50	52.2	104	77-121	
1,2,3-Trichlorobenzene	ug/kg	50	50.6	101	67-125	
1,2,3-Trichloropropane	ug/kg	100	89.6	90	47-117	
1,2,4-Trichlorobenzene	ug/kg	50	45.7	91	64-121	
1,2,4-Trimethylbenzene	ug/kg	50	49.9	100	70-122	

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QUALITY CONTROL DATA

Project: Carpenter 2339-353-03
Pace Project No.: 5050590

LABORATORY CONTROL SAMPLE: 599332

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromoethane (EDB)	ug/kg	50	53.2	106	79-119	
1,2-Dichlorobenzene	ug/kg	50	48.0	96	76-120	
1,2-Dichloroethane	ug/kg	50	47.9	96	72-125	
1,2-Dichloropropane	ug/kg	50	46.4	93	76-121	
1,3,5-Trimethylbenzene	ug/kg	50	52.1	104	70-122	
1,3-Dichlorobenzene	ug/kg	50	49.1	98	78-120	
1,3-Dichloropropane	ug/kg	50	52.3	105	78-121	
1,4-Dichlorobenzene	ug/kg	50	46.3	93	77-117	
2,2-Dichloropropane	ug/kg	50	47.2	94	55-128	
2-Butanone (MEK)	ug/kg	250	214	85	39-186	
2-Chlorotoluene	ug/kg	50	50.9	102	76-122	
2-Hexanone	ug/kg	250	238	95	53-168	
4-Chlorotoluene	ug/kg	50	52.2	104	73-121	
4-Methyl-2-pentanone (MIBK)	ug/kg	250	226	91	67-124	
Acetone	ug/kg	250	225	90	10-200	
Acrolein	ug/kg	1000	803	80	10-200	
Acrylonitrile	ug/kg	1000	860	86	70-126	
Benzene	ug/kg	50	50.1	100	77-123	
Bromobenzene	ug/kg	50	46.8	94	73-120	
Bromochloromethane	ug/kg	50	47.3	95	70-131	
Bromodichloromethane	ug/kg	50	52.6	105	74-120	
Bromoform	ug/kg	50	48.8	98	65-116	
Bromomethane	ug/kg	50	64.1	128	18-190	
Carbon disulfide	ug/kg	100	85.0	85	68-127	
Carbon tetrachloride	ug/kg	50	52.5	105	65-127	
Chlorobenzene	ug/kg	50	49.1	98	80-116	
Chloroethane	ug/kg	50	47.5	95	55-159	
Chloroform	ug/kg	50	48.3	97	74-118	
Chloromethane	ug/kg	50	44.5	89	56-142	
cis-1,2-Dichloroethene	ug/kg	50	54.1	108	82-125	
cis-1,3-Dichloropropene	ug/kg	50	48.6	97	67-118	
Dibromochloromethane	ug/kg	50	52.5	105	70-123	
Dibromomethane	ug/kg	50	52.4	105	76-121	
Dichlorodifluoromethane	ug/kg	50	63.4	127	25-200	
Ethyl methacrylate	ug/kg	200	175	87	70-122	
Ethylbenzene	ug/kg	50	51.5	103	77-120	
Hexachloro-1,3-butadiene	ug/kg	50	54.3	109	64-127	
Iodomethane	ug/kg	100	91.8J	92	26-171	
Isopropylbenzene (Cumene)	ug/kg	50	50.2	100	75-118	
Methyl-tert-butyl ether	ug/kg	100	89.4	89	69-125	
Methylene chloride	ug/kg	50	50.1	100	66-128	
n-Butylbenzene	ug/kg	50	48.1	96	68-126	
n-Hexane	ug/kg	50	48.9	98	71-148	N2
n-Propylbenzene	ug/kg	50	52.3	105	74-124	
Naphthalene	ug/kg	50	53.9	108	68-129	
p-Isopropyltoluene	ug/kg	50	51.8	104	71-123	
sec-Butylbenzene	ug/kg	50	51.8	104	70-126	
Styrene	ug/kg	50	52.0	104	76-120	

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QUALITY CONTROL DATA

Project: Carpenter 2339-353-03
Pace Project No.: 5050590

LABORATORY CONTROL SAMPLE: 599332

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butylbenzene	ug/kg	50	41.8	84	46-117	
Tetrachloroethene	ug/kg	50	51.2	102	69-112	
Toluene	ug/kg	50	49.5	99	74-121	
trans-1,2-Dichloroethene	ug/kg	50	48.8	98	79-134	
trans-1,3-Dichloropropene	ug/kg	50	47.3	95	59-113	
trans-1,4-Dichloro-2-butene	ug/kg	200	162	81	51-118	
Trichloroethene	ug/kg	50	50.9	102	79-119	
Trichlorofluoromethane	ug/kg	50	46.4	93	57-151	
Vinyl acetate	ug/kg	200	142	71	29-122	
Vinyl chloride	ug/kg	50	54.7	109	69-138	
Xylene (Total)	ug/kg	150	155	104	75-122	
4-Bromofluorobenzene (S)	%			96	67-134	
Dibromofluoromethane (S)	%			99	71-125	
Toluene-d8 (S)	%			98	76-124	

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QUALITY CONTROL DATA

Project: Carpenter 2339-353-03
Pace Project No.: 5050590

QC Batch: PMST/6052
QC Batch Method: ASTM D2974-87
Associated Lab Samples: 5050590012

Analysis Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture

SAMPLE DUPLICATE: 598555

Parameter	Units	5050680012 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	13.6	14.2	5	5	

SAMPLE DUPLICATE: 598556

Parameter	Units	5050685004 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	11.5	11.8	3	5	

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QUALIFIERS

Project: Carpenter 2339-353-03
Pace Project No.: 5050590

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

ANALYTE QUALIFIERS

1d	Multiple compounds RPD's are outside of the required control limits. Refer to the LCS for system control and data acceptibility. slb071911
H1	Analysis conducted outside the EPA method holding time.
N2	The lab does not hold TNI accreditation for this parameter.
p2	Post-analysis pH measurement indicates pH > 2.

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CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 2

1471750

Section A Required Client Information:

Company: Weaver Boos Consultants
Address: 4085 Meghan Beeler Ct.
South Bend, IN 46628
Email To: sstanford@weaverboos.com
Phone: 574-271-3447 Fax: 574-271-3343
Requested Due Date/TAT: Standard 7-10 days

Section B Required Project Information:

Report To: Steve Stanford
Copy To: Colin Flaherty
cflaherty@weaverboos.com
Purchase Order No.: 2339-353-03
Project Name: Carpenter
Project Number: 2339-353-03

Section C Invoice Information:

Attention: Steve Stanford
Company Name: Weaver Boos Consultants
Address: Same
Pace Quote Reference: WB-040111-AD
Pace Project Manager: Donna Spyker
Pace Profile #:

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☒ OTHER Brownfields

Site Location STATE: IN

Section D Required Client Information

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

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

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

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start Date	Composite Start Time	Composite End/Grab Date	Composite End/Grab Time	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test: VOCs (8260)	TPH - GRO	SVOCs (8270)	TPH - DRO	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	P-8	WT	G			7/7	1640		9	3			6					X	X	X	X		001
2	P-7	↓	↓			↓	740		↓	↓			↓					X	X	X	X		002
3	P-5	↓	↓			↓	830		↓	↓			↓					X	X	X	X		003
4	P-5 (MS)	↓	↓			↓	830		↓	↓			↓					X	X	X	X		↓
5	P-5 (MSD)	↓	↓			↓	830		↓	↓			↓					X	X	X	X		↓
6	P-4	↓	↓			↓	950		↓	↓			↓					X	X	X	X		004
7	P-6	↓	↓			↓	1030		↓	↓			↓					X	X	X	X		005
8	Dup	↓	↓			↓	—		↓	↓			↓					X	X	X	X		006
9	P-2	↓	↓			↓	1215		↓	↓			↓					X	X	X	X		007
10	EB	↓	↓			↓	1130		↓	↓			↓					X	X	X	X		008
11	P-1	↓	↓			↓	1350		↓	↓			↓					X	X	X	X		009
12	P-3	↓	↓			↓	1330		↓	↓			↓					X	X	X	X		010

5050590

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
*Please include Level IV QAQC Data Package	Weaver Boos	7/8/11	1400	[illegible]	7/9/11	1050	2.1 / 1.7 / 1.4 / 2.3	Y	Y	N
Shipped via FedEx										

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Colin Flaherty
SIGNATURE of SAMPLER: [signature]
DATE Signed (MM/DD/YY): 7/8/11

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

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

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CHAIN-OF-CUSTODY / Analytical Request Document

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

1471751

Section A Required Client Information:

Company: Weaver Boos Consultants
Address:
Email To:
Phone: 574-271-3447 Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To: Steve Stanford
Copy To:
Purchase Order No.:
Project Name: Carpenter
Project Number:

Section C Invoice Information:

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

REGULATORY AGENCY

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

Site Location STATE: _____

Section D Required Client Information

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

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

Requested Analysis Filtered (Y/N): VOCs (8260) N; TPH - GRO N; SVOCs (8270) N; TPH - DRO N

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start Date	Composite Start Time	Composite End/Grab Date	Composite End/Grab Time	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	VOCs (8260)	TPH - GRO	SVOCs (8270)	TPH - DRO	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	Trip Blank	WT	—	—	—	—	—		3									X					011
2	P-3 (11.5-12)	SL	G			7/6	1115		7									X	X	X	X		012
3																							
4																							
5																							
6																							
7																							
8																							
9																							
10																							
11																							
12																							

5050590

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
*Please include level IV QA/QC Data Package • Shipped via FedEx	Weaver Boos	7/8/11	1400	KAMoller PACE	7/9/11	1050

SAMPLE CONDITIONS: 2.1, 1.7, 1.4, 2.3 | Temp in °C: Y | Received on Ice (Y/N): Y | Custody Sealed Cooler (Y/N): N | Samples Intact (Y/N)

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Colin Flaherty
SIGNATURE of SAMPLER:
DATE Signed (MM/DD/YY): 7/8/11

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

Sample Condition Upon Receipt

Pace Analytical™ Client Name: WEAVER BOOS Project # 5050590

Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other _____

Tracking #: 876254422177 (master)

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

Date/Time 5035A kits placed in freezer: 7/9/11 @ 1142

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☒ Other BOXES/FOAM BLOCKS/TRASH BAGS/ICE

Thermometer Used: 1 2 3 4 6 A B C D E Type of Ice: Wet Blue None ☒ Samples on ice, cooling process has begun

Cooler Temperature (Corrected, if applicable): 2.1, 1.7, 1.4, 2.3°C Ice Visible in Sample Containers: ☐ yes ☒ no

Temp should be above freezing to 6°C

Date and Initials of person examining contents: 7/9/11 IE

				Comments:
Chain of Custody Present:	☒ Yes	☐ No	☐ N/A	1.
Chain of Custody Filled Out:	☒ Yes	☐ No	☐ N/A	2. pg 2 No pres. MARKED
Chain of Custody Relinquished:	☒ Yes	☐ No	☐ N/A	3.
Sampler Name & Signature on COC:	☒ Yes	☐ No	☐ N/A	4.
Short Hold Time Analysis (<72hr):	☐ Yes	☒ No	☐ N/A	5. TC Kit
Rush Turn Around Time Requested:	☐ Yes	☒ No	☐ N/A	6.
Containers Intact:	☐ Yes	☒ No	☐ N/A	7. 2-1LTRS P-8 rec. broken, 1 1LTR P-5 rec. broken, ~~1-1LTR P-7 rec broken~~
Sample Labels match COC: -Includes date/time/ID/Analysis	☒ Yes	☐ No	☐ N/A	8. Pictures taken of packaging
All containers needing acid/base pres. have been checked? exceptions: VOA, coliform, TOC, O&G	☐ Yes	☐ No	☒ N/A	9. (Circle) HNO3 H2SO4 NaOH HCl
All containers needing preservation are found to be in compliance with EPA recommendation.	☐ Yes	☐ No	☒ N/A	
Headspace in VOA Vials (>6mm):	☒ Yes	☐ No	☐ N/A	10. See comments
Trip Blank Present:	☒ Yes	☐ No	☐ N/A	11.
Trip Blank Custody Seals Present	☒ Yes	☐ No	☐ N/A	
Project Manager Review				
Samples Arrived within Hold Time:	☒ Yes	☐ No	☐ N/A	12.
Sufficient Volume:	☒ Yes	☐ No	☐ N/A	13.
Correct Containers Used:	☒ Yes	☐ No	☐ N/A	14.

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

Person Contacted: Steve Stanford Date/Time: 7/11/11 4:05pm

Comments/ Resolution: ~~MW~~ P-5 - 13 vials have headspace >6mm P-4 - 3 vials have headspace >6mm, P-6 - 3 vials >6mm, Dup - 2 vials >6mm P-2 - 3 vials P-1 - 4 vials >6mm, P-3 - 3 vials >6mm - "X" placed on top of vials.

7/11/11 SIM not requested - for P-8, run SVOC, will recollect for DRO

Project Manager Review: Kenneth Hurst **Date:** 7/9/11

Form F-IN-Q290-rev.04, 28Apr2011

Sample Container Count

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CLIENT: WEAVER BOOR

COC PAGE 1 of 2
COC ID# 1471750

Project # 605590

Sample Line Item	DG9H	AG1U	WGFU	R 4/6	BP2N	BP2U	BP2S	BP3N	BP3U	BP3S	AG3S	AG1H				Comments
1	6	1														
2		~~3~~ 2														
3		3														
4		3														
5		2														
6		3														
7																
8																
9																
10																
11																
12																

Container Codes

DG9H	40mL HCL amber voa vial	AF	Air Filter	BP1N	1 liter HNO3 plastic	DG9P	40mL TSP amber vial
AG1U	1liter unpreserved amber glass	AG1H	1 liter HCL amber glass	BP1S	1 liter H2SO4 plastic	DG9S	40mL H2SO4 amber vial
WGFU	4oz clear soil jar	AG1S	1 liter H2SO4 amber glass	BP1U	1 liter unpreserved plastic	DG9T	40mL Na Thio amber vial
R	terra core kit	AG1T	1 liter Na Thiosulfate amber gl	BP1Z	1 liter NaOH, Zn, Ac	DG9U	40mL unpreserved **amber** vial
BP2N	500mL HNO3 plastic	AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plastic	I	Wipe/Swab
BP2U	500mL unpreserved plastic	AG2S	500mL H2SO4 amber glass	BP2O	500mL NaOH plastic	JGFU	4oz unpreserved amber wide
BP2S	500mL H2SO4 plastic	AG2U	500mL unpreserved amber gla	BP2Z	500mL NaOH, Zn Ac	U	Summa Can
BP3N	250mL HNO3 plastic	AG3U	250mL unpreserved amber gla	BP3A	250mL NaOh, Asc Acid plastic	VG9H	40mL HCL clear vial
BP3U	250mL unpreserved plastic	BG1H	1 liter HCL clear glass	BP3C	250mL NaOH plastic	VG9T	40mL Na Thio. clear vial
BP3S	250mL H2SO4 plastic	BG1S	1 liter H2SO4 clear glass	BP3Z	250mL NaOH, Zn Ac plastic	VG9U	40mL unpreserved **clear** vial
AG3S	250mL H2SO4 glass amber	BG1T	1 liter Na Thiosulfate clear gla	C	Air Cassettes	VSG	Headspace septa vial & HCL
AG1S	1 liter H2SO4 amber glass	BG1U	1 liter unpreserved glass	DG9B	40mL Na Bisulfate amber vial	WGFX	4oz wide jar w/hexane wipe
BP1U	1 liter unpreserved plastic	BP1A	1 liter NaOH, Asc Acid plastic	DG9M	40mL MeOH clear vial	ZPLC	Ziploc Bag

Sample Container Count

Pace Analytical
www.pacelabs.com

CLIENT: WEAVER BOOS

COC PAGE 2 of 2
COC ID# 1471751

Project # 950590

Sample Line Item	DG9H	AG1U	WGFU	R 4 / 6	BP2N	BP2U	BP2S	BP3N	BP3U	BP3S	AG3S	AG1H				Comments
1	3															
2			1	6												
3																
4																
5																
6																
7																
8																
9																
10																
11																
12																

Container Codes

DG9H	40mL HCL amber voa vial	AF	Air Filter	BP1N	1 liter HNO3 plastic	DG9P	40mL TSP amber vial
AG1U	1liter unpreserved amber glass	AG1H	1 liter HCL amber glass	BP1S	1 liter H2SO4 plastic	DG9S	40mL H2SO4 amber vial
WGFU	4oz clear soil jar	AG1S	1 liter H2SO4 amber glass	BP1U	1 liter unpreserved plastic	DG9T	40mL Na Thio amber vial
R	terra core kit	AG1T	1 liter Na Thiosulfate amber gl	BP1Z	1 liter NaOH, Zn, Ac	DG9U	40mL unpreserved **amber** vial
BP2N	500mL HNO3 plastic	AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plastic	I	Wipe/Swab
BP2U	500mL unpreserved plastic	AG2S	500mL H2SO4 amber glass	BP2O	500mL NaOH plastic	JGFU	4oz unpreserved amber wide
BP2S	500mL H2SO4 plastic	AG2U	500mL unpreserved amber gla	BP2Z	500mL NaOH, Zn Ac	U	Summa Can
BP3N	250mL HNO3 plastic	AG3U	250mL unpreserved amber gla	BP3A	250mL NaOh, Asc Acid plastic	VG9H	40mL HCL clear vial
BP3U	250mL unpreserved plastic	BG1H	1 liter HCL clear glass	BP3C	250mL NaOH plastic	VG9T	40mL Na Thio. clear vial
BP3S	250mL H2SO4 plastic	BG1S	1 liter H2SO4 clear glass	BP3Z	250mL NaOH, Zn Ac plastic	VG9U	40mL unpreserved **clear** vial
AG3S	250mL H2SO4 glass amber	BG1T	1 liter Na Thiosulfate clear gla	C	Air Cassettes	VSG	Headspace septa vial & HCL
AG1S	1 liter H2SO4 amber glass	BG1U	1 liter unpreserved glass	DG9B	40mL Na Bisulfate amber vial	WGFX	4oz wide jar w/hexane wipe
BP1U	1 liter unpreserved plastic	BP1A	1 liter NaOH, Asc Acid plastic	DG9M	40mL MeOH clear vial	ZPLC	Ziploc Bag

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

August 04, 2011

Mr. Steve Stanford
Weaver Boos & Gordon
4085 Meghan Beeler Court
South Bend, IN 46628

RE: Project: Carpenter 2339-353-03
Pace Project No.: 5050871

Dear Mr. Stanford:
Enclosed are the analytical results for sample(s) received by the laboratory on July 21, 2011. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards, where applicable, unless otherwise narrated in the body of the report.

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

Sincerely,

Donna S. Spyker

Donna Spyker

donna.spyker@pacelabs.com
Project Manager

Illinois/NELAC Certification #: 100418
Indiana Certification #: C-49-06
Kansas Certification #: E-10247
Kentucky Certification #: 0042
Louisiana Certification #: 04076
Ohio VAP: CL0065
Pennsylvania: 68-00791
West Virginia Certification #: 330

Enclosures

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Indianapolis, IN 46268
(317)875-5894

SAMPLE SUMMARY

Project: Carpenter 2339-353-03
Pace Project No.: 5050871

Lab ID	Sample ID	Matrix	Date Collected	Date Received
5050871001	**P-8**	Water	07/20/11 14:00	07/21/11 10:50

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Indianapolis, IN 46268
(317)875-5894

SAMPLE ANALYTE COUNT

Project: Carpenter 2339-353-03
Pace Project No.: 5050871

Lab ID	Sample ID	Method	Analysts	Analytes Reported
5050871001	**P-8**	EPA 8015 Modified	CEM	2

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Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: Carpenter 2339-353-03
Pace Project No.: 5050871

Sample: P-8 **Lab ID: 5050871001** Collected: 07/20/11 14:00 Received: 07/21/11 10:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel	Analytical Method: EPA 8015 Modified Preparation Method: EPA 3510							
Diesel Range Organics (C8-C28)	**0.11**	mg/L	0.11	1	07/21/11 23:55	07/22/11 08:58		
n-Pentacosane (S)	44	%	20-108	1	07/21/11 23:55	07/22/11 08:58	629-99-2	

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7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

QUALITY CONTROL DATA

Project: Carpenter 2339-353-03
Pace Project No.: 5050871

QC Batch: OEXT/26074 | Analysis Method: EPA 8015 Modified
QC Batch Method: EPA 3510 | Analysis Description: 8015 GCS
Associated Lab Samples: 5050871001

METHOD BLANK: 600747 | Matrix: Water
Associated Lab Samples: 5050871001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diesel Range Organics (C8-C28)	mg/L	ND	0.10	07/22/11 08:10	
n-Pentacosane (S)	%	85	20-108	07/22/11 08:10	

LABORATORY CONTROL SAMPLE: 600748

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Diesel Range Organics (C8-C28)	mg/L	2.5	1.9	75	56-104	
n-Pentacosane (S)	%			87	20-108	

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Indianapolis, IN 46268
(317)875-5894

QUALIFIERS

Project: Carpenter 2339-353-03
Pace Project No.: 5050871

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

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CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

1471752

Section A Required Client Information:

Company: Weaver Boos Consultants
Address: 4085 Meghan Beeler Court, South Bend, IN 46628
Email To: sstanford@weaverboos.com
Phone: 574-271-3447 Fax: 574-271-3343
Requested Due Date/TAT: Standard 7-10 days

Section B Required Project Information:

Report To: Steve Stanford
Copy To: Colin Flaherty, cflaherty@weaverboos.com
Purchase Order No.: 2339-353-03
Project Name: Carpenter
Project Number: 2339-353-03

Section C Invoice Information:

Attention: Steve Stanford
Company Name: Weaver Boos Consultants
Address: Same
Pace Quote Reference: WB-040111-AD
Pace Project Manager: Donna Spyker
Pace Profile #:

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☒ OTHER Brownfields

Site Location STATE: IN

Section D Required Client Information

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

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

Requested Analysis Filtered (Y/N): N

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start Date	Composite Start Time	Composite End/Grab Date	Composite End/Grab Time	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test: TPH-DRO	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	P-8	WT	G			7/20	1400		4	4								X		6050871 001
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS		
*Please include level IV QA/QC Data Package shipped via FedEx	[signature] / Weaver Boos	7/20	1600	[signature] Pace	7/21/11	1050	3.8	Y	Y

WF
Fed Ex 8735 8826 1290

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Colin Flaherty
SIGNATURE of SAMPLER: [signature]
DATE Signed (MM/DD/YY): 7/20/11

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

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

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

Sample Condition Upon Receipt

Pace Analytical

Client Name: Weaver Boos Project # 5050871

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other _____

Tracking #: 8735 8826 1290

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

Date/Time 5035A kits placed in freezer _____

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other _____

Thermometer Used 0 2 3 4 6 A B C D E Type of Ice: (Wet) Blue None ☑ Samples on ice, cooling process has begun

Cooler Temperature 3.8°C Ice Visible in Sample Containers: ☐ yes ☑ no
(Corrected, if applicable)

Temp should be above freezing to 6°C

Date and Initials of person examining contents: 7/21/11

				Comments:
Chain of Custody Present:	☑Yes	☐No	☐N/A	1.
Chain of Custody Filled Out:	☑Yes	☐No	☐N/A	2.
Chain of Custody Relinquished:	☑Yes	☐No	☐N/A	3.
Sampler Name & Signature on COC:	☑Yes	☐No	☐N/A	4.
Short Hold Time Analysis (<72hr):	☐Yes	☑No	☐N/A	5.
Rush Turn Around Time Requested:	☐Yes	☑No	☐N/A	6.
Containers Intact:	☑Yes	☐No	☐N/A	7.
Sample Labels match COC: -Includes date/time/ID/Analysis	☑Yes	☐No	☐N/A	8.
All containers needing acid/base pres. have been checked? exceptions: VOA, coliform, TOC, O&G	☐Yes	☐No	☑N/A	9. (Circle) HNO3 H2SO4 NaOH HCl
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes	☐No	☑N/A	
Headspace in VOA Vials (>6mm):	☐Yes	☐No	☑N/A	10.
Trip Blank Present:	☐Yes	☐No	☑N/A	11.
Trip Blank Custody Seals Present	☐Yes	☐No	☑N/A	
Project Manager Review				
Samples Arrived within Hold Time:	☑Yes	☐No	☐N/A	12.
Sufficient Volume:	☑Yes	☐No	☐N/A	13.
Correct Containers Used:	☑Yes	☐No	☐N/A	14.

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: [signature] **Date:** 7/21/11

Form F-IN-Q290-rev.04, 28Apr2011

Sample Container Count

CLIENT: Weaver Bros

COC PAGE 1 of 1
COC ID# 1471752

Project # ~~[illegible]~~ 6050871 (8)

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Sample Line Item	DG9H	AG1U	WGFU	R 4 / 6	BP2N	BP2U	BP2S	BP3N	BP3U	BP3S	AG3S	AG1H				Comments
1		4														
2																
3																
4																
5																
6																
7																
8																
9																
10																
11																
12																

Container Codes

DG9H	40mL HCL amber voa vial	AF	Air Filter	BP1N	1 liter HNO3 plastic	DG9P	40mL TSP amber vial
AG1U	1liter unpreserved amber glass	AG1H	1 liter HCL amber glass	BP1S	1 liter H2SO4 plastic	DG9S	40mL H2SO4 amber vial
WGFU	4oz clear soil jar	AG1S	1 liter H2SO4 amber glass	BP1U	1 liter unpreserved plastic	DG9T	40mL Na Thio amber vial
R	terra core kit	AG1T	1 liter Na Thiosulfate amber gl	BP1Z	1 liter NaOH, Zn, Ac	DG9U	40mL unpreserved **amber** vial
BP2N	500mL HNO3 plastic	AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plastic	I	Wipe/Swab
BP2U	500mL unpreserved plastic	AG2S	500mL H2SO4 amber glass	BP2O	500mL NaOH plastic	JGFU	4oz unpreserved amber wide
BP2S	500mL H2SO4 plastic	AG2U	500mL unpreserved amber gla	BP2Z	500mL NaOH, Zn Ac	U	Summa Can
BP3N	250mL HNO3 plastic	AG3U	250mL unpreserved amber gla	BP3A	250mL NaOh, Asc Acid plastic	VG9H	40mL HCL clear vial
BP3U	250mL unpreserved plastic	BG1H	1 liter HCL clear glass	BP3C	250mL NaOH plastic	VG9T	40mL Na Thio. clear vial
BP3S	250mL H2SO4 plastic	BG1S	1 liter H2SO4 clear glass	BP3Z	250mL NaOH, Zn Ac plastic	VG9U	40mL unpreserved **clear** vial
AG3S	250mL H2SO4 glass amber	BG1T	1 liter Na Thiosulfate clear gla	C	Air Cassettes	VSG	Headspace septa vial & HCL
AG1S	1 liter H2SO4 amber glass	BG1U	1 liter unpreserved glass	DG9B	40mL Na Bisulfate amber vial	WGFX	4oz wide jar w/hexane wipe
BP1U	1 liter unpreserved plastic	BP1A	1 liter NaOH, Asc Acid plastic	DG9M	40mL MeOH clear vial	ZPLC	Ziploc Bag

Pace Analytical Services, Inc.
1233 Dublin Road
Columbus, OH 43215
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

August 23, 2012

Colin Flaherty
Weaver Boos
4085 Meghan Beeler Ct
South Bend, IN 46628

RE: Project: Carpenter Manufacturing
Pace Project No.: 5067678

Dear Colin Flaherty:
Enclosed are the analytical results for sample(s) received by the laboratory on August 16, 2012. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Lyle Cable

lyle.cable@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: Carpenter Manufacturing
Pace Project No.: 5067678

Indiana Certification IDs
7726 Moller Road, Indianapolis, IN 46268
Illinois Certification #: 200074
Indiana Certification #: C-49-06
Kansas Certification #: E-10247
Kentucky Certification #: 0042
Louisiana/NELAC Certification #: 04076
Ohio VAP Certification #: CL0065
Pennsylvania Certification #: 68-04991
West Virginia Certification #: 330

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SAMPLE SUMMARY

Project: Carpenter Manufacturing
Pace Project No.: 5067678

Lab ID	Sample ID	Matrix	Date Collected	Date Received
5067678001	**P-10 (0-4)**	Solid	08/15/12 10:10	08/16/12 15:00
5067678002	**P-10 (4-8)**	Solid	08/15/12 10:15	08/16/12 15:00
5067678003	**P-11 (12-14)**	Solid	08/15/12 11:40	08/16/12 15:00
5067678004	**Dup-1**	Solid	08/15/12 08:00	08/16/12 15:00
5067678005	**EB-1**	Water	08/15/12 12:00	08/16/12 15:00
5067678006	**P-9 (0-4)**	Solid	08/15/12 12:40	08/16/12 15:00
5067678007	**P-13 (0-4)**	Solid	08/15/12 13:30	08/16/12 15:00
5067678008	**P-13 (4-8)**	Solid	08/15/12 13:35	08/16/12 15:00
5067678009	**P-14 (0-4)**	Solid	08/15/12 14:00	08/16/12 15:00
5067678010	**P-14 (4-8)**	Solid	08/15/12 14:05	08/16/12 15:00
5067678011	**P-17 (0-4)**	Solid	08/15/12 15:00	08/16/12 15:00
5067678012	**P-16 (0-4)**	Solid	08/15/12 15:45	08/16/12 15:00
5067678013	**Trip Blank**	Solid	08/15/12 08:00	08/16/12 15:00
5067678014	**P-11**	Water	08/16/12 12:15	08/16/12 15:00
5067678015	**P-10**	Water	08/16/12 13:10	08/16/12 15:00
5067678016	**P-9**	Water	08/16/12 14:15	08/16/12 15:00
5067678017	**Dup-2**	Water	08/16/12 08:00	08/16/12 15:00
5067678018	**EB-2**	Water	08/16/12 14:45	08/16/12 15:00
5067678019	**Trip Blank**	Water	08/16/12 08:00	08/16/12 15:00

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SAMPLE ANALYTE COUNT

Project: Carpenter Manufacturing
Pace Project No.: 5067678

Lab ID	Sample ID	Method	Analysts	Analytes Reported
5067678001	**P-10 (0-4)**	EPA 8015B Modified	RAK	2
		EPA 8015 Mod Pur	AMV	2
		EPA 8270	KES	66
		EPA 8260	GRM	73
		ASTM D2974-87	DAE	1
5067678002	**P-10 (4-8)**	EPA 8015B Modified	RAK	2
		EPA 8015 Mod Pur	AMV	2
		EPA 8270	KES	66
		EPA 8260	GRM	73
		ASTM D2974-87	DAE	1
5067678003	**P-11 (12-14)**	EPA 8015B Modified	RAK	2
		EPA 8015 Mod Pur	AMV	2
		EPA 8270	KES	66
		EPA 8260	GRM	73
		ASTM D2974-87	DAE	1
5067678004	**Dup-1**	EPA 8015B Modified	RAK	2
		EPA 8015 Mod Pur	AMV	2
		EPA 8270	KES	66
		EPA 8260	GRM	73
		ASTM D2974-87	DAE	1
5067678005	**EB-1**	EPA 8015B Modified	RAK	2
		EPA 5030/8015 Mod.	AMV	2
		EPA 8270	KES	66
		EPA 8260	GRM	73
5067678006	**P-9 (0-4)**	EPA 8015B Modified	RAK	2
		EPA 8015 Mod Pur	AMV	2
		EPA 8270	KES	66
		EPA 8260	GRM	73
		ASTM D2974-87	DAE	1
5067678007	**P-13 (0-4)**	EPA 8015B Modified	RAK	2
		EPA 8015 Mod Pur	AMV	2
		EPA 8270	KES	66
		EPA 8260	GRM	73
		ASTM D2974-87	DAE	1
5067678008	**P-13 (4-8)**	EPA 8015B Modified	RAK	2
		EPA 8015 Mod Pur	AMV	2
		EPA 8270	KES	66

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SAMPLE ANALYTE COUNT

Project: Carpenter Manufacturing
Pace Project No.: 5067678

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 8260	GRM	73
		ASTM D2974-87	DAE	1
5067678009	**P-14 (0-4)**	EPA 8015 Mod Pur	AMV	2
		EPA 8260	GRM	73
		ASTM D2974-87	DAE	1
5067678010	**P-14 (4-8)**	EPA 8015B Modified	RAK	2
		EPA 8015 Mod Pur	AMV	2
		EPA 8270	KES	66
		EPA 8260	GRM	73
		ASTM D2974-87	DAE	1
5067678011	**P-17 (0-4)**	EPA 8015B Modified	RAK	2
		EPA 8015 Mod Pur	AMV	2
		EPA 8270	KES	66
		EPA 8260	GRM	73
		ASTM D2974-87	DAE	1
5067678012	**P-16 (0-4)**	EPA 8015B Modified	RAK	2
		EPA 8015 Mod Pur	AMV	2
		EPA 8270	KES	66
		EPA 8260	GRM	73
		ASTM D2974-87	DAE	1
5067678013	**Trip Blank**	EPA 8260	GRM	73
5067678014	**P-11**	EPA 8015B Modified	RAK	2
		EPA 5030/8015 Mod.	AMV	2
		EPA 8270	KES	66
		EPA 8260	GRM	73
5067678015	**P-10**	EPA 8015B Modified	RAK	2
		EPA 5030/8015 Mod.	AMV	2
		EPA 8270	KES	66
		EPA 8260	GRM	73
5067678016	**P-9**	EPA 8015B Modified	RAK	2
		EPA 5030/8015 Mod.	AMV	2
		EPA 8270	KES	66
		EPA 8260	GRM	73
5067678017	**Dup-2**	EPA 8015B Modified	RAK	2
		EPA 5030/8015 Mod.	AMV	2
		EPA 8270	KES	66
		EPA 8260	GRM	73

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SAMPLE ANALYTE COUNT

Project: Carpenter Manufacturing
Pace Project No.: 5067678

Lab ID	Sample ID	Method	Analysts	Analytes Reported
5067678018	**EB-2**	EPA 8015B Modified	RAK	2
		EPA 5030/8015 Mod.	AMV	2
		EPA 8270	KES	66
		EPA 8260	GRM	73
5067678019	**Trip Blank**	EPA 8260	GRM	73

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ANALYTICAL RESULTS

Project: Carpenter Manufacturing
Pace Project No.: 5067678

Sample: P-10 (0-4) **Lab ID: 5067678001** Collected: 08/15/12 10:10 Received: 08/16/12 15:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel	Analytical Method: EPA 8015B Modified Preparation Method: EPA 3546							
Diesel Range Organics (C8-C28)	**31.7**	mg/kg	11.2	1	08/17/12 17:59	08/20/12 13:10		
Surrogates								
n-Pentacosane (S)	92	%.	30-126	1	08/17/12 17:59	08/20/12 13:10	629-99-2	
8015 GRO 5035	Analytical Method: EPA 8015 Mod Pur							
Gasoline Range Organics	**2.8**	mg/kg	0.66	1		08/21/12 06:07		
Surrogates								
4-Bromofluorobenzene (S)	89	%.	30-163	1		08/21/12 06:07	460-00-4	
8270 MSSV SHORT LIST MICROWAVE	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	368	1	08/21/12 11:56	08/21/12 16:21	83-32-9	
Acenaphthylene	ND	ug/kg	368	1	08/21/12 11:56	08/21/12 16:21	208-96-8	
Anthracene	ND	ug/kg	368	1	08/21/12 11:56	08/21/12 16:21	120-12-7	
Benzo(a)anthracene	ND	ug/kg	368	1	08/21/12 11:56	08/21/12 16:21	56-55-3	
Benzo(a)pyrene	ND	ug/kg	368	1	08/21/12 11:56	08/21/12 16:21	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	368	1	08/21/12 11:56	08/21/12 16:21	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	368	1	08/21/12 11:56	08/21/12 16:21	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	368	1	08/21/12 11:56	08/21/12 16:21	207-08-9	
Benzyl alcohol	ND	ug/kg	736	1	08/21/12 11:56	08/21/12 16:21	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	368	1	08/21/12 11:56	08/21/12 16:21	101-55-3	
Butylbenzylphthalate	ND	ug/kg	368	1	08/21/12 11:56	08/21/12 16:21	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	736	1	08/21/12 11:56	08/21/12 16:21	59-50-7	
4-Chloroaniline	ND	ug/kg	736	1	08/21/12 11:56	08/21/12 16:21	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	368	1	08/21/12 11:56	08/21/12 16:21	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	368	1	08/21/12 11:56	08/21/12 16:21	111-44-4	
bis(2chloro1methylethyl) ether	ND	ug/kg	368	1	08/21/12 11:56	08/21/12 16:21	108-60-1	
2-Chloronaphthalene	ND	ug/kg	368	1	08/21/12 11:56	08/21/12 16:21	91-58-7	
2-Chlorophenol	ND	ug/kg	368	1	08/21/12 11:56	08/21/12 16:21	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	368	1	08/21/12 11:56	08/21/12 16:21	7005-72-3	
Chrysene	ND	ug/kg	368	1	08/21/12 11:56	08/21/12 16:21	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	368	1	08/21/12 11:56	08/21/12 16:21	53-70-3	
Dibenzofuran	ND	ug/kg	368	1	08/21/12 11:56	08/21/12 16:21	132-64-9	
3,3'-Dichlorobenzidine	ND	ug/kg	736	1	08/21/12 11:56	08/21/12 16:21	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	368	1	08/21/12 11:56	08/21/12 16:21	120-83-2	
Diethylphthalate	ND	ug/kg	368	1	08/21/12 11:56	08/21/12 16:21	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	368	1	08/21/12 11:56	08/21/12 16:21	105-67-9	
Dimethylphthalate	ND	ug/kg	368	1	08/21/12 11:56	08/21/12 16:21	131-11-3	
Di-n-butylphthalate	ND	ug/kg	368	1	08/21/12 11:56	08/21/12 16:21	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	1780	1	08/21/12 11:56	08/21/12 16:21	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	1780	1	08/21/12 11:56	08/21/12 16:21	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	368	1	08/21/12 11:56	08/21/12 16:21	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	368	1	08/21/12 11:56	08/21/12 16:21	606-20-2	
Di-n-octylphthalate	ND	ug/kg	368	1	08/21/12 11:56	08/21/12 16:21	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	368	1	08/21/12 11:56	08/21/12 16:21	117-81-7	
Fluoranthene	ND	ug/kg	368	1	08/21/12 11:56	08/21/12 16:21	206-44-0	

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ANALYTICAL RESULTS

Project: Carpenter Manufacturing
Pace Project No.: 5067678

Sample: P-10 (0-4) **Lab ID: 5067678001** Collected: 08/15/12 10:10 Received: 08/16/12 15:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV SHORT LIST MICROWAVE	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Fluorene	ND	ug/kg	368	1	08/21/12 11:56	08/21/12 16:21	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	368	1	08/21/12 11:56	08/21/12 16:21	87-68-3	
Hexachlorobenzene	ND	ug/kg	368	1	08/21/12 11:56	08/21/12 16:21	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	368	1	08/21/12 11:56	08/21/12 16:21	77-47-4	
Hexachloroethane	ND	ug/kg	368	1	08/21/12 11:56	08/21/12 16:21	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	368	1	08/21/12 11:56	08/21/12 16:21	193-39-5	
Isophorone	ND	ug/kg	368	1	08/21/12 11:56	08/21/12 16:21	78-59-1	
2-Methylnaphthalene	**689**	ug/kg	368	1	08/21/12 11:56	08/21/12 16:21	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	368	1	08/21/12 11:56	08/21/12 16:21	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	736	1	08/21/12 11:56	08/21/12 16:21		
Naphthalene	**815**	ug/kg	368	1	08/21/12 11:56	08/21/12 16:21	91-20-3	
2-Nitroaniline	ND	ug/kg	1780	1	08/21/12 11:56	08/21/12 16:21	88-74-4	
3-Nitroaniline	ND	ug/kg	1780	1	08/21/12 11:56	08/21/12 16:21	99-09-2	
4-Nitroaniline	ND	ug/kg	1780	1	08/21/12 11:56	08/21/12 16:21	100-01-6	
Nitrobenzene	ND	ug/kg	368	1	08/21/12 11:56	08/21/12 16:21	98-95-3	
2-Nitrophenol	ND	ug/kg	368	1	08/21/12 11:56	08/21/12 16:21	88-75-5	
4-Nitrophenol	ND	ug/kg	1780	1	08/21/12 11:56	08/21/12 16:21	100-02-7	
N-Nitroso-di-n-propylamine	ND	ug/kg	368	1	08/21/12 11:56	08/21/12 16:21	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	368	1	08/21/12 11:56	08/21/12 16:21	86-30-6	
Pentachlorophenol	ND	ug/kg	1780	1	08/21/12 11:56	08/21/12 16:21	87-86-5	
Phenanthrene	ND	ug/kg	368	1	08/21/12 11:56	08/21/12 16:21	85-01-8	
Phenol	ND	ug/kg	368	1	08/21/12 11:56	08/21/12 16:21	108-95-2	
Pyrene	ND	ug/kg	368	1	08/21/12 11:56	08/21/12 16:21	129-00-0	
2,4,5-Trichlorophenol	ND	ug/kg	368	1	08/21/12 11:56	08/21/12 16:21	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	368	1	08/21/12 11:56	08/21/12 16:21	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	72	%.	26-98	1	08/21/12 11:56	08/21/12 16:21	4165-60-0	
2-Fluorobiphenyl (S)	71	%.	36-94	1	08/21/12 11:56	08/21/12 16:21	321-60-8	
p-Terphenyl-d14 (S)	80	%.	32-112	1	08/21/12 11:56	08/21/12 16:21	1718-51-0	
Phenol-d5 (S)	74	%.	33-98	1	08/21/12 11:56	08/21/12 16:21	4165-62-2	
2-Fluorophenol (S)	75	%.	29-97	1	08/21/12 11:56	08/21/12 16:21	367-12-4	
2,4,6-Tribromophenol (S)	76	%.	24-114	1	08/21/12 11:56	08/21/12 16:21	118-79-6	
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	86.5	1		08/17/12 18:50	67-64-1	
Acrolein	ND	ug/kg	86.5	1		08/17/12 18:50	107-02-8	
Acrylonitrile	ND	ug/kg	86.5	1		08/17/12 18:50	107-13-1	
Benzene	**4.4**	ug/kg	4.3	1		08/17/12 18:50	71-43-2	
Bromobenzene	ND	ug/kg	4.3	1		08/17/12 18:50	108-86-1	
Bromochloromethane	ND	ug/kg	4.3	1		08/17/12 18:50	74-97-5	
Bromodichloromethane	ND	ug/kg	4.3	1		08/17/12 18:50	75-27-4	
Bromoform	ND	ug/kg	4.3	1		08/17/12 18:50	75-25-2	
Bromomethane	ND	ug/kg	4.3	1		08/17/12 18:50	74-83-9	
2-Butanone (MEK)	ND	ug/kg	21.6	1		08/17/12 18:50	78-93-3	
n-Butylbenzene	**6.0**	ug/kg	4.3	1		08/17/12 18:50	104-51-8	

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ANALYTICAL RESULTS

Project: Carpenter Manufacturing
Pace Project No.: 5067678

Sample: P-10 (0-4) **Lab ID: 5067678001** Collected: 08/15/12 10:10 Received: 08/16/12 15:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
sec-Butylbenzene	ND	ug/kg	4.3	1		08/17/12 18:50	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.3	1		08/17/12 18:50	98-06-6	
Carbon disulfide	ND	ug/kg	8.6	1		08/17/12 18:50	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.3	1		08/17/12 18:50	56-23-5	
Chlorobenzene	ND	ug/kg	4.3	1		08/17/12 18:50	108-90-7	
Chloroethane	ND	ug/kg	4.3	1		08/17/12 18:50	75-00-3	
Chloroform	ND	ug/kg	4.3	1		08/17/12 18:50	67-66-3	
Chloromethane	ND	ug/kg	4.3	1		08/17/12 18:50	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.3	1		08/17/12 18:50	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.3	1		08/17/12 18:50	106-43-4	
Dibromochloromethane	ND	ug/kg	4.3	1		08/17/12 18:50	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.3	1		08/17/12 18:50	106-93-4	
Dibromomethane	ND	ug/kg	4.3	1		08/17/12 18:50	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.3	1		08/17/12 18:50	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.3	1		08/17/12 18:50	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.3	1		08/17/12 18:50	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	86.5	1		08/17/12 18:50	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	4.3	1		08/17/12 18:50	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.3	1		08/17/12 18:50	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.3	1		08/17/12 18:50	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.3	1		08/17/12 18:50	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.3	1		08/17/12 18:50	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.3	1		08/17/12 18:50	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.3	1		08/17/12 18:50	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.3	1		08/17/12 18:50	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.3	1		08/17/12 18:50	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.3	1		08/17/12 18:50	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.3	1		08/17/12 18:50	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.3	1		08/17/12 18:50	10061-02-6	
Ethylbenzene	**78.0**	ug/kg	4.3	1		08/17/12 18:50	100-41-4	
Ethyl methacrylate	ND	ug/kg	86.5	1		08/17/12 18:50	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	4.3	1		08/17/12 18:50	87-68-3	
n-Hexane	**21.7**	ug/kg	4.3	1		08/17/12 18:50	110-54-3	N2
2-Hexanone	ND	ug/kg	86.5	1		08/17/12 18:50	591-78-6	
Iodomethane	ND	ug/kg	86.5	1		08/17/12 18:50	74-88-4	
Isopropylbenzene (Cumene)	**9.0**	ug/kg	4.3	1		08/17/12 18:50	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.3	1		08/17/12 18:50	99-87-6	
Methylene Chloride	ND	ug/kg	17.3	1		08/17/12 18:50	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	21.6	1		08/17/12 18:50	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.3	1		08/17/12 18:50	1634-04-4	
Naphthalene	**72.9**	ug/kg	4.3	1		08/17/12 18:50	91-20-3	
n-Propylbenzene	**26.8**	ug/kg	4.3	1		08/17/12 18:50	103-65-1	
Styrene	ND	ug/kg	4.3	1		08/17/12 18:50	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.3	1		08/17/12 18:50	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.3	1		08/17/12 18:50	79-34-5	
Tetrachloroethene	ND	ug/kg	4.3	1		08/17/12 18:50	127-18-4	

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ANALYTICAL RESULTS

Project: Carpenter Manufacturing
Pace Project No.: 5067678

Sample: P-10 (0-4) **Lab ID: 5067678001** Collected: 08/15/12 10:10 Received: 08/16/12 15:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Toluene	ND	ug/kg	4.3	1		08/17/12 18:50	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.3	1		08/17/12 18:50	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.3	1		08/17/12 18:50	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.3	1		08/17/12 18:50	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.3	1		08/17/12 18:50	79-00-5	
Trichloroethene	ND	ug/kg	4.3	1		08/17/12 18:50	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.3	1		08/17/12 18:50	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.3	1		08/17/12 18:50	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.3	1		08/17/12 18:50	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.3	1		08/17/12 18:50	108-67-8	
Vinyl acetate	ND	ug/kg	86.5	1		08/17/12 18:50	108-05-4	
Vinyl chloride	ND	ug/kg	4.3	1		08/17/12 18:50	75-01-4	
Xylene (Total)	ND	ug/kg	8.6	1		08/17/12 18:50	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	94	%.	71-125	1		08/17/12 18:50	1868-53-7	
Toluene-d8 (S)	104	%.	76-124	1		08/17/12 18:50	2037-26-5	
4-Bromofluorobenzene (S)	103	%.	67-134	1		08/17/12 18:50	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**10.4**	%	0.10	1		08/20/12 17:04		

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ANALYTICAL RESULTS

Project: Carpenter Manufacturing
Pace Project No.: 5067678

Sample: P-10 (4-8) **Lab ID: 5067678002** Collected: 08/15/12 10:15 Received: 08/16/12 15:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel	Analytical Method: EPA 8015B Modified Preparation Method: EPA 3546							
Diesel Range Organics (C8-C28)	ND	mg/kg	11.1	1	08/17/12 17:59	08/20/12 13:37		
Surrogates								
n-Pentacosane (S)	64	%.	30-126	1	08/17/12 17:59	08/20/12 13:37	629-99-2	
8015 GRO 5035	Analytical Method: EPA 8015 Mod Pur							
Gasoline Range Organics	ND	mg/kg	0.81	1		08/21/12 06:29		
Surrogates								
4-Bromofluorobenzene (S)	81	%.	30-163	1		08/21/12 06:29	460-00-4	
8270 MSSV SHORT LIST MICROWAVE	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	368	1	08/21/12 11:56	08/21/12 16:41	83-32-9	
Acenaphthylene	ND	ug/kg	368	1	08/21/12 11:56	08/21/12 16:41	208-96-8	
Anthracene	ND	ug/kg	368	1	08/21/12 11:56	08/21/12 16:41	120-12-7	
Benzo(a)anthracene	ND	ug/kg	368	1	08/21/12 11:56	08/21/12 16:41	56-55-3	
Benzo(a)pyrene	ND	ug/kg	368	1	08/21/12 11:56	08/21/12 16:41	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	368	1	08/21/12 11:56	08/21/12 16:41	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	368	1	08/21/12 11:56	08/21/12 16:41	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	368	1	08/21/12 11:56	08/21/12 16:41	207-08-9	
Benzyl alcohol	ND	ug/kg	736	1	08/21/12 11:56	08/21/12 16:41	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	368	1	08/21/12 11:56	08/21/12 16:41	101-55-3	
Butylbenzylphthalate	ND	ug/kg	368	1	08/21/12 11:56	08/21/12 16:41	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	736	1	08/21/12 11:56	08/21/12 16:41	59-50-7	
4-Chloroaniline	ND	ug/kg	736	1	08/21/12 11:56	08/21/12 16:41	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	368	1	08/21/12 11:56	08/21/12 16:41	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	368	1	08/21/12 11:56	08/21/12 16:41	111-44-4	
bis(2chloro1methylethyl) ether	ND	ug/kg	368	1	08/21/12 11:56	08/21/12 16:41	108-60-1	
2-Chloronaphthalene	ND	ug/kg	368	1	08/21/12 11:56	08/21/12 16:41	91-58-7	
2-Chlorophenol	ND	ug/kg	368	1	08/21/12 11:56	08/21/12 16:41	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	368	1	08/21/12 11:56	08/21/12 16:41	7005-72-3	
Chrysene	ND	ug/kg	368	1	08/21/12 11:56	08/21/12 16:41	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	368	1	08/21/12 11:56	08/21/12 16:41	53-70-3	
Dibenzofuran	ND	ug/kg	368	1	08/21/12 11:56	08/21/12 16:41	132-64-9	
3,3'-Dichlorobenzidine	ND	ug/kg	736	1	08/21/12 11:56	08/21/12 16:41	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	368	1	08/21/12 11:56	08/21/12 16:41	120-83-2	
Diethylphthalate	ND	ug/kg	368	1	08/21/12 11:56	08/21/12 16:41	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	368	1	08/21/12 11:56	08/21/12 16:41	105-67-9	
Dimethylphthalate	ND	ug/kg	368	1	08/21/12 11:56	08/21/12 16:41	131-11-3	
Di-n-butylphthalate	ND	ug/kg	368	1	08/21/12 11:56	08/21/12 16:41	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	1780	1	08/21/12 11:56	08/21/12 16:41	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	1780	1	08/21/12 11:56	08/21/12 16:41	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	368	1	08/21/12 11:56	08/21/12 16:41	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	368	1	08/21/12 11:56	08/21/12 16:41	606-20-2	
Di-n-octylphthalate	ND	ug/kg	368	1	08/21/12 11:56	08/21/12 16:41	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	368	1	08/21/12 11:56	08/21/12 16:41	117-81-7	
Fluoranthene	ND	ug/kg	368	1	08/21/12 11:56	08/21/12 16:41	206-44-0	

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ANALYTICAL RESULTS

Project: Carpenter Manufacturing
Pace Project No.: 5067678

Sample: P-10 (4-8) **Lab ID: 5067678002** Collected: 08/15/12 10:15 Received: 08/16/12 15:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV SHORT LIST MICROWAVE	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Fluorene	ND	ug/kg	368	1	08/21/12 11:56	08/21/12 16:41	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	368	1	08/21/12 11:56	08/21/12 16:41	87-68-3	
Hexachlorobenzene	ND	ug/kg	368	1	08/21/12 11:56	08/21/12 16:41	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	368	1	08/21/12 11:56	08/21/12 16:41	77-47-4	
Hexachloroethane	ND	ug/kg	368	1	08/21/12 11:56	08/21/12 16:41	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	368	1	08/21/12 11:56	08/21/12 16:41	193-39-5	
Isophorone	ND	ug/kg	368	1	08/21/12 11:56	08/21/12 16:41	78-59-1	
2-Methylnaphthalene	ND	ug/kg	368	1	08/21/12 11:56	08/21/12 16:41	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	368	1	08/21/12 11:56	08/21/12 16:41	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	736	1	08/21/12 11:56	08/21/12 16:41		
Naphthalene	ND	ug/kg	368	1	08/21/12 11:56	08/21/12 16:41	91-20-3	
2-Nitroaniline	ND	ug/kg	1780	1	08/21/12 11:56	08/21/12 16:41	88-74-4	
3-Nitroaniline	ND	ug/kg	1780	1	08/21/12 11:56	08/21/12 16:41	99-09-2	
4-Nitroaniline	ND	ug/kg	1780	1	08/21/12 11:56	08/21/12 16:41	100-01-6	
Nitrobenzene	ND	ug/kg	368	1	08/21/12 11:56	08/21/12 16:41	98-95-3	
2-Nitrophenol	ND	ug/kg	368	1	08/21/12 11:56	08/21/12 16:41	88-75-5	
4-Nitrophenol	ND	ug/kg	1780	1	08/21/12 11:56	08/21/12 16:41	100-02-7	
N-Nitroso-di-n-propylamine	ND	ug/kg	368	1	08/21/12 11:56	08/21/12 16:41	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	368	1	08/21/12 11:56	08/21/12 16:41	86-30-6	
Pentachlorophenol	ND	ug/kg	1780	1	08/21/12 11:56	08/21/12 16:41	87-86-5	
Phenanthrene	ND	ug/kg	368	1	08/21/12 11:56	08/21/12 16:41	85-01-8	
Phenol	ND	ug/kg	368	1	08/21/12 11:56	08/21/12 16:41	108-95-2	
Pyrene	ND	ug/kg	368	1	08/21/12 11:56	08/21/12 16:41	129-00-0	
2,4,5-Trichlorophenol	ND	ug/kg	368	1	08/21/12 11:56	08/21/12 16:41	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	368	1	08/21/12 11:56	08/21/12 16:41	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	71	%.	26-98	1	08/21/12 11:56	08/21/12 16:41	4165-60-0	
2-Fluorobiphenyl (S)	69	%.	36-94	1	08/21/12 11:56	08/21/12 16:41	321-60-8	
p-Terphenyl-d14 (S)	67	%.	32-112	1	08/21/12 11:56	08/21/12 16:41	1718-51-0	
Phenol-d5 (S)	75	%.	33-98	1	08/21/12 11:56	08/21/12 16:41	4165-62-2	
2-Fluorophenol (S)	75	%.	29-97	1	08/21/12 11:56	08/21/12 16:41	367-12-4	
2,4,6-Tribromophenol (S)	79	%.	24-114	1	08/21/12 11:56	08/21/12 16:41	118-79-6	
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	73.4	1		08/17/12 19:23	67-64-1	
Acrolein	ND	ug/kg	73.4	1		08/17/12 19:23	107-02-8	
Acrylonitrile	ND	ug/kg	73.4	1		08/17/12 19:23	107-13-1	
Benzene	ND	ug/kg	3.7	1		08/17/12 19:23	71-43-2	
Bromobenzene	ND	ug/kg	3.7	1		08/17/12 19:23	108-86-1	
Bromochloromethane	ND	ug/kg	3.7	1		08/17/12 19:23	74-97-5	
Bromodichloromethane	ND	ug/kg	3.7	1		08/17/12 19:23	75-27-4	
Bromoform	ND	ug/kg	3.7	1		08/17/12 19:23	75-25-2	
Bromomethane	ND	ug/kg	3.7	1		08/17/12 19:23	74-83-9	
2-Butanone (MEK)	ND	ug/kg	18.4	1		08/17/12 19:23	78-93-3	
n-Butylbenzene	ND	ug/kg	3.7	1		08/17/12 19:23	104-51-8	

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ANALYTICAL RESULTS

Project: Carpenter Manufacturing
Pace Project No.: 5067678

Sample: P-10 (4-8) **Lab ID: 5067678002** Collected: 08/15/12 10:15 Received: 08/16/12 15:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
sec-Butylbenzene	ND	ug/kg	3.7	1		08/17/12 19:23	135-98-8	
tert-Butylbenzene	ND	ug/kg	3.7	1		08/17/12 19:23	98-06-6	
Carbon disulfide	ND	ug/kg	7.3	1		08/17/12 19:23	75-15-0	
Carbon tetrachloride	ND	ug/kg	3.7	1		08/17/12 19:23	56-23-5	
Chlorobenzene	ND	ug/kg	3.7	1		08/17/12 19:23	108-90-7	
Chloroethane	ND	ug/kg	3.7	1		08/17/12 19:23	75-00-3	
Chloroform	ND	ug/kg	3.7	1		08/17/12 19:23	67-66-3	
Chloromethane	ND	ug/kg	3.7	1		08/17/12 19:23	74-87-3	
2-Chlorotoluene	ND	ug/kg	3.7	1		08/17/12 19:23	95-49-8	
4-Chlorotoluene	ND	ug/kg	3.7	1		08/17/12 19:23	106-43-4	
Dibromochloromethane	ND	ug/kg	3.7	1		08/17/12 19:23	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	3.7	1		08/17/12 19:23	106-93-4	
Dibromomethane	ND	ug/kg	3.7	1		08/17/12 19:23	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	3.7	1		08/17/12 19:23	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	3.7	1		08/17/12 19:23	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	3.7	1		08/17/12 19:23	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	73.4	1		08/17/12 19:23	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	3.7	1		08/17/12 19:23	75-71-8	
1,1-Dichloroethane	ND	ug/kg	3.7	1		08/17/12 19:23	75-34-3	
1,2-Dichloroethane	ND	ug/kg	3.7	1		08/17/12 19:23	107-06-2	
1,1-Dichloroethene	ND	ug/kg	3.7	1		08/17/12 19:23	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	3.7	1		08/17/12 19:23	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	3.7	1		08/17/12 19:23	156-60-5	
1,2-Dichloropropane	ND	ug/kg	3.7	1		08/17/12 19:23	78-87-5	
1,3-Dichloropropane	ND	ug/kg	3.7	1		08/17/12 19:23	142-28-9	
2,2-Dichloropropane	ND	ug/kg	3.7	1		08/17/12 19:23	594-20-7	
1,1-Dichloropropene	ND	ug/kg	3.7	1		08/17/12 19:23	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	3.7	1		08/17/12 19:23	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	3.7	1		08/17/12 19:23	10061-02-6	
Ethylbenzene	ND	ug/kg	3.7	1		08/17/12 19:23	100-41-4	
Ethyl methacrylate	ND	ug/kg	73.4	1		08/17/12 19:23	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	3.7	1		08/17/12 19:23	87-68-3	
n-Hexane	ND	ug/kg	3.7	1		08/17/12 19:23	110-54-3	N2
2-Hexanone	ND	ug/kg	73.4	1		08/17/12 19:23	591-78-6	
Iodomethane	ND	ug/kg	73.4	1		08/17/12 19:23	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/kg	3.7	1		08/17/12 19:23	98-82-8	
p-Isopropyltoluene	ND	ug/kg	3.7	1		08/17/12 19:23	99-87-6	
Methylene Chloride	ND	ug/kg	14.7	1		08/17/12 19:23	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	18.4	1		08/17/12 19:23	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	3.7	1		08/17/12 19:23	1634-04-4	
Naphthalene	ND	ug/kg	3.7	1		08/17/12 19:23	91-20-3	
n-Propylbenzene	ND	ug/kg	3.7	1		08/17/12 19:23	103-65-1	
Styrene	ND	ug/kg	3.7	1		08/17/12 19:23	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	3.7	1		08/17/12 19:23	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	3.7	1		08/17/12 19:23	79-34-5	
Tetrachloroethene	ND	ug/kg	3.7	1		08/17/12 19:23	127-18-4	

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ANALYTICAL RESULTS

Project: Carpenter Manufacturing
Pace Project No.: 5067678

Sample: P-10 (4-8) **Lab ID: 5067678002** Collected: 08/15/12 10:15 Received: 08/16/12 15:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Toluene	ND	ug/kg	3.7	1		08/17/12 19:23	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	3.7	1		08/17/12 19:23	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	3.7	1		08/17/12 19:23	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	3.7	1		08/17/12 19:23	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	3.7	1		08/17/12 19:23	79-00-5	
Trichloroethene	ND	ug/kg	3.7	1		08/17/12 19:23	79-01-6	
Trichlorofluoromethane	ND	ug/kg	3.7	1		08/17/12 19:23	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	3.7	1		08/17/12 19:23	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	3.7	1		08/17/12 19:23	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	3.7	1		08/17/12 19:23	108-67-8	
Vinyl acetate	ND	ug/kg	73.4	1		08/17/12 19:23	108-05-4	
Vinyl chloride	ND	ug/kg	3.7	1		08/17/12 19:23	75-01-4	
Xylene (Total)	ND	ug/kg	7.3	1		08/17/12 19:23	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	94	%.	71-125	1		08/17/12 19:23	1868-53-7	
Toluene-d8 (S)	99	%.	76-124	1		08/17/12 19:23	2037-26-5	
4-Bromofluorobenzene (S)	96	%.	67-134	1		08/17/12 19:23	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**10.3**	%	0.10	1		08/20/12 17:04		

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ANALYTICAL RESULTS

Project: Carpenter Manufacturing
Pace Project No.: 5067678

Sample: P-11 (12-14) **Lab ID: 5067678003** Collected: 08/15/12 11:40 Received: 08/16/12 15:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel	Analytical Method: EPA 8015B Modified Preparation Method: EPA 3546							
Diesel Range Organics (C8-C28)	ND	mg/kg	11.0	1	08/17/12 17:59	08/20/12 14:04		
Surrogates								
n-Pentacosane (S)	73	%.	30-126	1	08/17/12 17:59	08/20/12 14:04	629-99-2	
8015 GRO 5035	Analytical Method: EPA 8015 Mod Pur							
Gasoline Range Organics	ND	mg/kg	0.95	1		08/21/12 07:38		
Surrogates								
4-Bromofluorobenzene (S)	80	%.	30-163	1		08/21/12 07:38	460-00-4	
8270 MSSV SHORT LIST MICROWAVE	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	362	1	08/21/12 11:56	08/21/12 17:43	83-32-9	
Acenaphthylene	ND	ug/kg	362	1	08/21/12 11:56	08/21/12 17:43	208-96-8	
Anthracene	ND	ug/kg	362	1	08/21/12 11:56	08/21/12 17:43	120-12-7	
Benzo(a)anthracene	ND	ug/kg	362	1	08/21/12 11:56	08/21/12 17:43	56-55-3	
Benzo(a)pyrene	ND	ug/kg	362	1	08/21/12 11:56	08/21/12 17:43	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	362	1	08/21/12 11:56	08/21/12 17:43	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	362	1	08/21/12 11:56	08/21/12 17:43	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	362	1	08/21/12 11:56	08/21/12 17:43	207-08-9	
Benzyl alcohol	ND	ug/kg	724	1	08/21/12 11:56	08/21/12 17:43	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	362	1	08/21/12 11:56	08/21/12 17:43	101-55-3	
Butylbenzylphthalate	ND	ug/kg	362	1	08/21/12 11:56	08/21/12 17:43	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	724	1	08/21/12 11:56	08/21/12 17:43	59-50-7	
4-Chloroaniline	ND	ug/kg	724	1	08/21/12 11:56	08/21/12 17:43	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	362	1	08/21/12 11:56	08/21/12 17:43	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	362	1	08/21/12 11:56	08/21/12 17:43	111-44-4	
bis(2chloro1methylethyl) ether	ND	ug/kg	362	1	08/21/12 11:56	08/21/12 17:43	108-60-1	
2-Chloronaphthalene	ND	ug/kg	362	1	08/21/12 11:56	08/21/12 17:43	91-58-7	
2-Chlorophenol	ND	ug/kg	362	1	08/21/12 11:56	08/21/12 17:43	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	362	1	08/21/12 11:56	08/21/12 17:43	7005-72-3	
Chrysene	ND	ug/kg	362	1	08/21/12 11:56	08/21/12 17:43	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	362	1	08/21/12 11:56	08/21/12 17:43	53-70-3	
Dibenzofuran	ND	ug/kg	362	1	08/21/12 11:56	08/21/12 17:43	132-64-9	
3,3'-Dichlorobenzidine	ND	ug/kg	724	1	08/21/12 11:56	08/21/12 17:43	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	362	1	08/21/12 11:56	08/21/12 17:43	120-83-2	
Diethylphthalate	ND	ug/kg	362	1	08/21/12 11:56	08/21/12 17:43	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	362	1	08/21/12 11:56	08/21/12 17:43	105-67-9	
Dimethylphthalate	ND	ug/kg	362	1	08/21/12 11:56	08/21/12 17:43	131-11-3	
Di-n-butylphthalate	ND	ug/kg	362	1	08/21/12 11:56	08/21/12 17:43	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	1750	1	08/21/12 11:56	08/21/12 17:43	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	1750	1	08/21/12 11:56	08/21/12 17:43	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	362	1	08/21/12 11:56	08/21/12 17:43	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	362	1	08/21/12 11:56	08/21/12 17:43	606-20-2	
Di-n-octylphthalate	ND	ug/kg	362	1	08/21/12 11:56	08/21/12 17:43	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	362	1	08/21/12 11:56	08/21/12 17:43	117-81-7	
Fluoranthene	ND	ug/kg	362	1	08/21/12 11:56	08/21/12 17:43	206-44-0	

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ANALYTICAL RESULTS

Project: Carpenter Manufacturing
Pace Project No.: 5067678

Sample: P-11 (12-14) **Lab ID: 5067678003** Collected: 08/15/12 11:40 Received: 08/16/12 15:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV SHORT LIST MICROWAVE	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Fluorene	ND	ug/kg	362	1	08/21/12 11:56	08/21/12 17:43	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	362	1	08/21/12 11:56	08/21/12 17:43	87-68-3	
Hexachlorobenzene	ND	ug/kg	362	1	08/21/12 11:56	08/21/12 17:43	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	362	1	08/21/12 11:56	08/21/12 17:43	77-47-4	
Hexachloroethane	ND	ug/kg	362	1	08/21/12 11:56	08/21/12 17:43	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	362	1	08/21/12 11:56	08/21/12 17:43	193-39-5	
Isophorone	ND	ug/kg	362	1	08/21/12 11:56	08/21/12 17:43	78-59-1	
2-Methylnaphthalene	ND	ug/kg	362	1	08/21/12 11:56	08/21/12 17:43	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	362	1	08/21/12 11:56	08/21/12 17:43	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	724	1	08/21/12 11:56	08/21/12 17:43		
Naphthalene	ND	ug/kg	362	1	08/21/12 11:56	08/21/12 17:43	91-20-3	
2-Nitroaniline	ND	ug/kg	1750	1	08/21/12 11:56	08/21/12 17:43	88-74-4	
3-Nitroaniline	ND	ug/kg	1750	1	08/21/12 11:56	08/21/12 17:43	99-09-2	
4-Nitroaniline	ND	ug/kg	1750	1	08/21/12 11:56	08/21/12 17:43	100-01-6	
Nitrobenzene	ND	ug/kg	362	1	08/21/12 11:56	08/21/12 17:43	98-95-3	
2-Nitrophenol	ND	ug/kg	362	1	08/21/12 11:56	08/21/12 17:43	88-75-5	
4-Nitrophenol	ND	ug/kg	1750	1	08/21/12 11:56	08/21/12 17:43	100-02-7	
N-Nitroso-di-n-propylamine	ND	ug/kg	362	1	08/21/12 11:56	08/21/12 17:43	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	362	1	08/21/12 11:56	08/21/12 17:43	86-30-6	
Pentachlorophenol	ND	ug/kg	1750	1	08/21/12 11:56	08/21/12 17:43	87-86-5	
Phenanthrene	ND	ug/kg	362	1	08/21/12 11:56	08/21/12 17:43	85-01-8	
Phenol	ND	ug/kg	362	1	08/21/12 11:56	08/21/12 17:43	108-95-2	
Pyrene	ND	ug/kg	362	1	08/21/12 11:56	08/21/12 17:43	129-00-0	
2,4,5-Trichlorophenol	ND	ug/kg	362	1	08/21/12 11:56	08/21/12 17:43	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	362	1	08/21/12 11:56	08/21/12 17:43	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	69	%.	26-98	1	08/21/12 11:56	08/21/12 17:43	4165-60-0	
2-Fluorobiphenyl (S)	72	%.	36-94	1	08/21/12 11:56	08/21/12 17:43	321-60-8	
p-Terphenyl-d14 (S)	79	%.	32-112	1	08/21/12 11:56	08/21/12 17:43	1718-51-0	
Phenol-d5 (S)	75	%.	33-98	1	08/21/12 11:56	08/21/12 17:43	4165-62-2	
2-Fluorophenol (S)	75	%.	29-97	1	08/21/12 11:56	08/21/12 17:43	367-12-4	
2,4,6-Tribromophenol (S)	81	%.	24-114	1	08/21/12 11:56	08/21/12 17:43	118-79-6	
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	74.0	1		08/17/12 21:00	67-64-1	
Acrolein	ND	ug/kg	74.0	1		08/17/12 21:00	107-02-8	
Acrylonitrile	ND	ug/kg	74.0	1		08/17/12 21:00	107-13-1	
Benzene	ND	ug/kg	3.7	1		08/17/12 21:00	71-43-2	
Bromobenzene	ND	ug/kg	3.7	1		08/17/12 21:00	108-86-1	
Bromochloromethane	ND	ug/kg	3.7	1		08/17/12 21:00	74-97-5	
Bromodichloromethane	ND	ug/kg	3.7	1		08/17/12 21:00	75-27-4	
Bromoform	ND	ug/kg	3.7	1		08/17/12 21:00	75-25-2	
Bromomethane	ND	ug/kg	3.7	1		08/17/12 21:00	74-83-9	
2-Butanone (MEK)	ND	ug/kg	18.5	1		08/17/12 21:00	78-93-3	
n-Butylbenzene	ND	ug/kg	3.7	1		08/17/12 21:00	104-51-8	

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ANALYTICAL RESULTS

Project: Carpenter Manufacturing
Pace Project No.: 5067678

Sample: P-11 (12-14) **Lab ID: 5067678003** Collected: 08/15/12 11:40 Received: 08/16/12 15:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
sec-Butylbenzene	ND	ug/kg	3.7	1		08/17/12 21:00	135-98-8	
tert-Butylbenzene	ND	ug/kg	3.7	1		08/17/12 21:00	98-06-6	
Carbon disulfide	ND	ug/kg	7.4	1		08/17/12 21:00	75-15-0	
Carbon tetrachloride	ND	ug/kg	3.7	1		08/17/12 21:00	56-23-5	
Chlorobenzene	ND	ug/kg	3.7	1		08/17/12 21:00	108-90-7	
Chloroethane	ND	ug/kg	3.7	1		08/17/12 21:00	75-00-3	
Chloroform	ND	ug/kg	3.7	1		08/17/12 21:00	67-66-3	
Chloromethane	ND	ug/kg	3.7	1		08/17/12 21:00	74-87-3	
2-Chlorotoluene	ND	ug/kg	3.7	1		08/17/12 21:00	95-49-8	
4-Chlorotoluene	ND	ug/kg	3.7	1		08/17/12 21:00	106-43-4	
Dibromochloromethane	ND	ug/kg	3.7	1		08/17/12 21:00	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	3.7	1		08/17/12 21:00	106-93-4	
Dibromomethane	ND	ug/kg	3.7	1		08/17/12 21:00	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	3.7	1		08/17/12 21:00	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	3.7	1		08/17/12 21:00	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	3.7	1		08/17/12 21:00	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	74.0	1		08/17/12 21:00	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	3.7	1		08/17/12 21:00	75-71-8	
1,1-Dichloroethane	ND	ug/kg	3.7	1		08/17/12 21:00	75-34-3	
1,2-Dichloroethane	ND	ug/kg	3.7	1		08/17/12 21:00	107-06-2	
1,1-Dichloroethene	ND	ug/kg	3.7	1		08/17/12 21:00	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	3.7	1		08/17/12 21:00	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	3.7	1		08/17/12 21:00	156-60-5	
1,2-Dichloropropane	ND	ug/kg	3.7	1		08/17/12 21:00	78-87-5	
1,3-Dichloropropane	ND	ug/kg	3.7	1		08/17/12 21:00	142-28-9	
2,2-Dichloropropane	ND	ug/kg	3.7	1		08/17/12 21:00	594-20-7	
1,1-Dichloropropene	ND	ug/kg	3.7	1		08/17/12 21:00	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	3.7	1		08/17/12 21:00	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	3.7	1		08/17/12 21:00	10061-02-6	
Ethylbenzene	**10.5**	ug/kg	3.7	1		08/17/12 21:00	100-41-4	
Ethyl methacrylate	ND	ug/kg	74.0	1		08/17/12 21:00	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	3.7	1		08/17/12 21:00	87-68-3	
n-Hexane	ND	ug/kg	3.7	1		08/17/12 21:00	110-54-3	N2
2-Hexanone	ND	ug/kg	74.0	1		08/17/12 21:00	591-78-6	
Iodomethane	ND	ug/kg	74.0	1		08/17/12 21:00	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/kg	3.7	1		08/17/12 21:00	98-82-8	
p-Isopropyltoluene	ND	ug/kg	3.7	1		08/17/12 21:00	99-87-6	
Methylene Chloride	ND	ug/kg	14.8	1		08/17/12 21:00	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	18.5	1		08/17/12 21:00	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	3.7	1		08/17/12 21:00	1634-04-4	
Naphthalene	ND	ug/kg	3.7	1		08/17/12 21:00	91-20-3	
n-Propylbenzene	ND	ug/kg	3.7	1		08/17/12 21:00	103-65-1	
Styrene	ND	ug/kg	3.7	1		08/17/12 21:00	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	3.7	1		08/17/12 21:00	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	3.7	1		08/17/12 21:00	79-34-5	
Tetrachloroethene	ND	ug/kg	3.7	1		08/17/12 21:00	127-18-4	

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ANALYTICAL RESULTS

Project: Carpenter Manufacturing
Pace Project No.: 5067678

Sample: P-11 (12-14) **Lab ID: 5067678003** Collected: 08/15/12 11:40 Received: 08/16/12 15:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Toluene	ND	ug/kg	3.7	1		08/17/12 21:00	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	3.7	1		08/17/12 21:00	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	3.7	1		08/17/12 21:00	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	3.7	1		08/17/12 21:00	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	3.7	1		08/17/12 21:00	79-00-5	
Trichloroethene	ND	ug/kg	3.7	1		08/17/12 21:00	79-01-6	
Trichlorofluoromethane	ND	ug/kg	3.7	1		08/17/12 21:00	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	3.7	1		08/17/12 21:00	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	3.7	1		08/17/12 21:00	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	3.7	1		08/17/12 21:00	108-67-8	
Vinyl acetate	ND	ug/kg	74.0	1		08/17/12 21:00	108-05-4	
Vinyl chloride	ND	ug/kg	3.7	1		08/17/12 21:00	75-01-4	
Xylene (Total)	**10.4**	ug/kg	7.4	1		08/17/12 21:00	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	97	%.	71-125	1		08/17/12 21:00	1868-53-7	
Toluene-d8 (S)	100	%.	76-124	1		08/17/12 21:00	2037-26-5	
4-Bromofluorobenzene (S)	98	%.	67-134	1		08/17/12 21:00	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**8.8**	%	0.10	1		08/20/12 17:05		

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ANALYTICAL RESULTS

Project: Carpenter Manufacturing
Pace Project No.: 5067678

Sample: Dup-1 **Lab ID: 5067678004** Collected: 08/15/12 08:00 Received: 08/16/12 15:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel	Analytical Method: EPA 8015B Modified Preparation Method: EPA 3546							
Diesel Range Organics (C8-C28)	ND	mg/kg	11.0	1	08/17/12 17:59	08/20/12 14:11		
Surrogates								
n-Pentacosane (S)	82	%.	30-126	1	08/17/12 17:59	08/20/12 14:11	629-99-2	
8015 GRO 5035	Analytical Method: EPA 8015 Mod Pur							
Gasoline Range Organics	ND	mg/kg	0.73	1		08/21/12 08:01		
Surrogates								
4-Bromofluorobenzene (S)	79	%.	30-163	1		08/21/12 08:01	460-00-4	
8270 MSSV SHORT LIST MICROWAVE	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	364	1	08/21/12 11:56	08/21/12 18:03	83-32-9	
Acenaphthylene	ND	ug/kg	364	1	08/21/12 11:56	08/21/12 18:03	208-96-8	
Anthracene	ND	ug/kg	364	1	08/21/12 11:56	08/21/12 18:03	120-12-7	
Benzo(a)anthracene	ND	ug/kg	364	1	08/21/12 11:56	08/21/12 18:03	56-55-3	
Benzo(a)pyrene	ND	ug/kg	364	1	08/21/12 11:56	08/21/12 18:03	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	364	1	08/21/12 11:56	08/21/12 18:03	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	364	1	08/21/12 11:56	08/21/12 18:03	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	364	1	08/21/12 11:56	08/21/12 18:03	207-08-9	
Benzyl alcohol	ND	ug/kg	727	1	08/21/12 11:56	08/21/12 18:03	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	364	1	08/21/12 11:56	08/21/12 18:03	101-55-3	
Butylbenzylphthalate	ND	ug/kg	364	1	08/21/12 11:56	08/21/12 18:03	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	727	1	08/21/12 11:56	08/21/12 18:03	59-50-7	
4-Chloroaniline	ND	ug/kg	727	1	08/21/12 11:56	08/21/12 18:03	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	364	1	08/21/12 11:56	08/21/12 18:03	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	364	1	08/21/12 11:56	08/21/12 18:03	111-44-4	
bis(2chloro1methylethyl) ether	ND	ug/kg	364	1	08/21/12 11:56	08/21/12 18:03	108-60-1	
2-Chloronaphthalene	ND	ug/kg	364	1	08/21/12 11:56	08/21/12 18:03	91-58-7	
2-Chlorophenol	ND	ug/kg	364	1	08/21/12 11:56	08/21/12 18:03	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	364	1	08/21/12 11:56	08/21/12 18:03	7005-72-3	
Chrysene	ND	ug/kg	364	1	08/21/12 11:56	08/21/12 18:03	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	364	1	08/21/12 11:56	08/21/12 18:03	53-70-3	
Dibenzofuran	ND	ug/kg	364	1	08/21/12 11:56	08/21/12 18:03	132-64-9	
3,3'-Dichlorobenzidine	ND	ug/kg	727	1	08/21/12 11:56	08/21/12 18:03	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	364	1	08/21/12 11:56	08/21/12 18:03	120-83-2	
Diethylphthalate	ND	ug/kg	364	1	08/21/12 11:56	08/21/12 18:03	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	364	1	08/21/12 11:56	08/21/12 18:03	105-67-9	
Dimethylphthalate	ND	ug/kg	364	1	08/21/12 11:56	08/21/12 18:03	131-11-3	
Di-n-butylphthalate	ND	ug/kg	364	1	08/21/12 11:56	08/21/12 18:03	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	1760	1	08/21/12 11:56	08/21/12 18:03	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	1760	1	08/21/12 11:56	08/21/12 18:03	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	364	1	08/21/12 11:56	08/21/12 18:03	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	364	1	08/21/12 11:56	08/21/12 18:03	606-20-2	
Di-n-octylphthalate	ND	ug/kg	364	1	08/21/12 11:56	08/21/12 18:03	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	364	1	08/21/12 11:56	08/21/12 18:03	117-81-7	
Fluoranthene	ND	ug/kg	364	1	08/21/12 11:56	08/21/12 18:03	206-44-0	

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ANALYTICAL RESULTS

Project: Carpenter Manufacturing
Pace Project No.: 5067678

Sample: Dup-1 **Lab ID: 5067678004** Collected: 08/15/12 08:00 Received: 08/16/12 15:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV SHORT LIST MICROWAVE	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Fluorene	ND	ug/kg	364	1	08/21/12 11:56	08/21/12 18:03	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	364	1	08/21/12 11:56	08/21/12 18:03	87-68-3	
Hexachlorobenzene	ND	ug/kg	364	1	08/21/12 11:56	08/21/12 18:03	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	364	1	08/21/12 11:56	08/21/12 18:03	77-47-4	
Hexachloroethane	ND	ug/kg	364	1	08/21/12 11:56	08/21/12 18:03	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	364	1	08/21/12 11:56	08/21/12 18:03	193-39-5	
Isophorone	ND	ug/kg	364	1	08/21/12 11:56	08/21/12 18:03	78-59-1	
2-Methylnaphthalene	ND	ug/kg	364	1	08/21/12 11:56	08/21/12 18:03	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	364	1	08/21/12 11:56	08/21/12 18:03	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	727	1	08/21/12 11:56	08/21/12 18:03		
Naphthalene	ND	ug/kg	364	1	08/21/12 11:56	08/21/12 18:03	91-20-3	
2-Nitroaniline	ND	ug/kg	1760	1	08/21/12 11:56	08/21/12 18:03	88-74-4	
3-Nitroaniline	ND	ug/kg	1760	1	08/21/12 11:56	08/21/12 18:03	99-09-2	
4-Nitroaniline	ND	ug/kg	1760	1	08/21/12 11:56	08/21/12 18:03	100-01-6	
Nitrobenzene	ND	ug/kg	364	1	08/21/12 11:56	08/21/12 18:03	98-95-3	
2-Nitrophenol	ND	ug/kg	364	1	08/21/12 11:56	08/21/12 18:03	88-75-5	
4-Nitrophenol	ND	ug/kg	1760	1	08/21/12 11:56	08/21/12 18:03	100-02-7	
N-Nitroso-di-n-propylamine	ND	ug/kg	364	1	08/21/12 11:56	08/21/12 18:03	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	364	1	08/21/12 11:56	08/21/12 18:03	86-30-6	
Pentachlorophenol	ND	ug/kg	1760	1	08/21/12 11:56	08/21/12 18:03	87-86-5	
Phenanthrene	ND	ug/kg	364	1	08/21/12 11:56	08/21/12 18:03	85-01-8	
Phenol	ND	ug/kg	364	1	08/21/12 11:56	08/21/12 18:03	108-95-2	
Pyrene	ND	ug/kg	364	1	08/21/12 11:56	08/21/12 18:03	129-00-0	
2,4,5-Trichlorophenol	ND	ug/kg	364	1	08/21/12 11:56	08/21/12 18:03	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	364	1	08/21/12 11:56	08/21/12 18:03	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	74	%.	26-98	1	08/21/12 11:56	08/21/12 18:03	4165-60-0	
2-Fluorobiphenyl (S)	69	%.	36-94	1	08/21/12 11:56	08/21/12 18:03	321-60-8	
p-Terphenyl-d14 (S)	75	%.	32-112	1	08/21/12 11:56	08/21/12 18:03	1718-51-0	
Phenol-d5 (S)	77	%.	33-98	1	08/21/12 11:56	08/21/12 18:03	4165-62-2	
2-Fluorophenol (S)	77	%.	29-97	1	08/21/12 11:56	08/21/12 18:03	367-12-4	
2,4,6-Tribromophenol (S)	80	%.	24-114	1	08/21/12 11:56	08/21/12 18:03	118-79-6	
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	104	1		08/17/12 21:32	67-64-1	
Acrolein	ND	ug/kg	104	1		08/17/12 21:32	107-02-8	
Acrylonitrile	ND	ug/kg	104	1		08/17/12 21:32	107-13-1	
Benzene	ND	ug/kg	5.2	1		08/17/12 21:32	71-43-2	
Bromobenzene	ND	ug/kg	5.2	1		08/17/12 21:32	108-86-1	
Bromochloromethane	ND	ug/kg	5.2	1		08/17/12 21:32	74-97-5	
Bromodichloromethane	ND	ug/kg	5.2	1		08/17/12 21:32	75-27-4	
Bromoform	ND	ug/kg	5.2	1		08/17/12 21:32	75-25-2	
Bromomethane	ND	ug/kg	5.2	1		08/17/12 21:32	74-83-9	
2-Butanone (MEK)	ND	ug/kg	26.1	1		08/17/12 21:32	78-93-3	
n-Butylbenzene	ND	ug/kg	5.2	1		08/17/12 21:32	104-51-8	

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ANALYTICAL RESULTS

Project: Carpenter Manufacturing
Pace Project No.: 5067678

Sample: Dup-1 **Lab ID: 5067678004** Collected: 08/15/12 08:00 Received: 08/16/12 15:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
sec-Butylbenzene	ND	ug/kg	5.2	1		08/17/12 21:32	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.2	1		08/17/12 21:32	98-06-6	
Carbon disulfide	ND	ug/kg	10.4	1		08/17/12 21:32	75-15-0	
Carbon tetrachloride	ND	ug/kg	5.2	1		08/17/12 21:32	56-23-5	
Chlorobenzene	ND	ug/kg	5.2	1		08/17/12 21:32	108-90-7	
Chloroethane	ND	ug/kg	5.2	1		08/17/12 21:32	75-00-3	
Chloroform	ND	ug/kg	5.2	1		08/17/12 21:32	67-66-3	
Chloromethane	ND	ug/kg	5.2	1		08/17/12 21:32	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.2	1		08/17/12 21:32	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.2	1		08/17/12 21:32	106-43-4	
Dibromochloromethane	ND	ug/kg	5.2	1		08/17/12 21:32	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.2	1		08/17/12 21:32	106-93-4	
Dibromomethane	ND	ug/kg	5.2	1		08/17/12 21:32	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.2	1		08/17/12 21:32	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.2	1		08/17/12 21:32	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.2	1		08/17/12 21:32	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	104	1		08/17/12 21:32	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	5.2	1		08/17/12 21:32	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.2	1		08/17/12 21:32	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.2	1		08/17/12 21:32	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.2	1		08/17/12 21:32	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.2	1		08/17/12 21:32	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.2	1		08/17/12 21:32	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.2	1		08/17/12 21:32	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.2	1		08/17/12 21:32	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.2	1		08/17/12 21:32	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.2	1		08/17/12 21:32	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.2	1		08/17/12 21:32	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.2	1		08/17/12 21:32	10061-02-6	
Ethylbenzene	**7.6**	ug/kg	5.2	1		08/17/12 21:32	100-41-4	
Ethyl methacrylate	ND	ug/kg	104	1		08/17/12 21:32	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	5.2	1		08/17/12 21:32	87-68-3	
n-Hexane	ND	ug/kg	5.2	1		08/17/12 21:32	110-54-3	N2
2-Hexanone	ND	ug/kg	104	1		08/17/12 21:32	591-78-6	
Iodomethane	ND	ug/kg	104	1		08/17/12 21:32	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/kg	5.2	1		08/17/12 21:32	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.2	1		08/17/12 21:32	99-87-6	
Methylene Chloride	ND	ug/kg	20.9	1		08/17/12 21:32	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	26.1	1		08/17/12 21:32	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.2	1		08/17/12 21:32	1634-04-4	
Naphthalene	ND	ug/kg	5.2	1		08/17/12 21:32	91-20-3	
n-Propylbenzene	ND	ug/kg	5.2	1		08/17/12 21:32	103-65-1	
Styrene	ND	ug/kg	5.2	1		08/17/12 21:32	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.2	1		08/17/12 21:32	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.2	1		08/17/12 21:32	79-34-5	
Tetrachloroethene	ND	ug/kg	5.2	1		08/17/12 21:32	127-18-4	

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ANALYTICAL RESULTS

Project: Carpenter Manufacturing
Pace Project No.: 5067678

Sample: Dup-1 **Lab ID: 5067678004** Collected: 08/15/12 08:00 Received: 08/16/12 15:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Toluene	ND	ug/kg	5.2	1		08/17/12 21:32	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.2	1		08/17/12 21:32	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.2	1		08/17/12 21:32	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.2	1		08/17/12 21:32	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.2	1		08/17/12 21:32	79-00-5	
Trichloroethene	ND	ug/kg	5.2	1		08/17/12 21:32	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.2	1		08/17/12 21:32	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.2	1		08/17/12 21:32	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.2	1		08/17/12 21:32	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.2	1		08/17/12 21:32	108-67-8	
Vinyl acetate	ND	ug/kg	104	1		08/17/12 21:32	108-05-4	
Vinyl chloride	ND	ug/kg	5.2	1		08/17/12 21:32	75-01-4	
Xylene (Total)	ND	ug/kg	10.4	1		08/17/12 21:32	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	97	%.	71-125	1		08/17/12 21:32	1868-53-7	
Toluene-d8 (S)	100	%.	76-124	1		08/17/12 21:32	2037-26-5	
4-Bromofluorobenzene (S)	98	%.	67-134	1		08/17/12 21:32	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**9.3**	%	0.10	1		08/20/12 17:05		

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ANALYTICAL RESULTS

Project: Carpenter Manufacturing
Pace Project No.: 5067678

Sample: EB-1 **Lab ID: 5067678005** Collected: 08/15/12 12:00 Received: 08/16/12 15:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel	Analytical Method: EPA 8015B Modified Preparation Method: EPA 3510							
Diesel Range Organics (C8-C28)	ND	mg/L	0.10	1	08/17/12 14:23	08/17/12 17:26		
Surrogates								
n-Pentacosane (S)	41	%.	20-108	1	08/17/12 14:23	08/17/12 17:26	629-99-2	
Gasoline Range Organics	Analytical Method: EPA 5030/8015 Mod.							
Gasoline Range Organics	ND	mg/L	0.20	1		08/20/12 22:50		
Surrogates								
4-Bromofluorobenzene (S)	89	%.	45-130	1		08/20/12 22:50	460-00-4	
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	10.3	1	08/20/12 10:54	08/20/12 15:18	83-32-9	
Acenaphthylene	ND	ug/L	10.3	1	08/20/12 10:54	08/20/12 15:18	208-96-8	
Anthracene	ND	ug/L	10.3	1	08/20/12 10:54	08/20/12 15:18	120-12-7	
Benzo(a)anthracene	ND	ug/L	10.3	1	08/20/12 10:54	08/20/12 15:18	56-55-3	
Benzo(a)pyrene	ND	ug/L	10.3	1	08/20/12 10:54	08/20/12 15:18	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	10.3	1	08/20/12 10:54	08/20/12 15:18	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	10.3	1	08/20/12 10:54	08/20/12 15:18	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	10.3	1	08/20/12 10:54	08/20/12 15:18	207-08-9	
Benzyl alcohol	ND	ug/L	20.6	1	08/20/12 10:54	08/20/12 15:18	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	10.3	1	08/20/12 10:54	08/20/12 15:18	101-55-3	
Butylbenzylphthalate	ND	ug/L	10.3	1	08/20/12 10:54	08/20/12 15:18	85-68-7	
4-Chloro-3-methylphenol	ND	ug/L	20.6	1	08/20/12 10:54	08/20/12 15:18	59-50-7	
4-Chloroaniline	ND	ug/L	20.6	1	08/20/12 10:54	08/20/12 15:18	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	10.3	1	08/20/12 10:54	08/20/12 15:18	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.3	1	08/20/12 10:54	08/20/12 15:18	111-44-4	
bis(2chloro1methylethyl) ether	ND	ug/L	5.2	1	08/20/12 10:54	08/20/12 15:18	108-60-1	
2-Chloronaphthalene	ND	ug/L	10.3	1	08/20/12 10:54	08/20/12 15:18	91-58-7	
2-Chlorophenol	ND	ug/L	10.3	1	08/20/12 10:54	08/20/12 15:18	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	10.3	1	08/20/12 10:54	08/20/12 15:18	7005-72-3	
Chrysene	ND	ug/L	10.3	1	08/20/12 10:54	08/20/12 15:18	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	10.3	1	08/20/12 10:54	08/20/12 15:18	53-70-3	
Dibenzofuran	ND	ug/L	10.3	1	08/20/12 10:54	08/20/12 15:18	132-64-9	
3,3'-Dichlorobenzidine	ND	ug/L	20.6	1	08/20/12 10:54	08/20/12 15:18	91-94-1	
2,4-Dichlorophenol	ND	ug/L	10.3	1	08/20/12 10:54	08/20/12 15:18	120-83-2	
Diethylphthalate	ND	ug/L	10.3	1	08/20/12 10:54	08/20/12 15:18	84-66-2	
2,4-Dimethylphenol	ND	ug/L	10.3	1	08/20/12 10:54	08/20/12 15:18	105-67-9	
Dimethylphthalate	ND	ug/L	10.3	1	08/20/12 10:54	08/20/12 15:18	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.3	1	08/20/12 10:54	08/20/12 15:18	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	51.5	1	08/20/12 10:54	08/20/12 15:18	534-52-1	
2,4-Dinitrophenol	ND	ug/L	51.5	1	08/20/12 10:54	08/20/12 15:18	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	10.3	1	08/20/12 10:54	08/20/12 15:18	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.3	1	08/20/12 10:54	08/20/12 15:18	606-20-2	
Di-n-octylphthalate	ND	ug/L	10.3	1	08/20/12 10:54	08/20/12 15:18	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	5.2	1	08/20/12 10:54	08/20/12 15:18	117-81-7	
Fluoranthene	ND	ug/L	10.3	1	08/20/12 10:54	08/20/12 15:18	206-44-0	
Fluorene	ND	ug/L	10.3	1	08/20/12 10:54	08/20/12 15:18	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	5.2	1	08/20/12 10:54	08/20/12 15:18	87-68-3	

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ANALYTICAL RESULTS

Project: Carpenter Manufacturing
Pace Project No.: 5067678

Sample: EB-1 **Lab ID: 5067678005** Collected: 08/15/12 12:00 Received: 08/16/12 15:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Hexachlorobenzene	ND	ug/L	10.3	1	08/20/12 10:54	08/20/12 15:18	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	20.6	1	08/20/12 10:54	08/20/12 15:18	77-47-4	
Hexachloroethane	ND	ug/L	10.3	1	08/20/12 10:54	08/20/12 15:18	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	10.3	1	08/20/12 10:54	08/20/12 15:18	193-39-5	
Isophorone	ND	ug/L	10.3	1	08/20/12 10:54	08/20/12 15:18	78-59-1	
2-Methylnaphthalene	ND	ug/L	10.3	1	08/20/12 10:54	08/20/12 15:18	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	10.3	1	08/20/12 10:54	08/20/12 15:18	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	20.6	1	08/20/12 10:54	08/20/12 15:18		
Naphthalene	ND	ug/L	5.2	1	08/20/12 10:54	08/20/12 15:18	91-20-3	
2-Nitroaniline	ND	ug/L	51.5	1	08/20/12 10:54	08/20/12 15:18	88-74-4	
3-Nitroaniline	ND	ug/L	51.5	1	08/20/12 10:54	08/20/12 15:18	99-09-2	
4-Nitroaniline	ND	ug/L	51.5	1	08/20/12 10:54	08/20/12 15:18	100-01-6	
Nitrobenzene	ND	ug/L	10.3	1	08/20/12 10:54	08/20/12 15:18	98-95-3	
2-Nitrophenol	ND	ug/L	10.3	1	08/20/12 10:54	08/20/12 15:18	88-75-5	
4-Nitrophenol	ND	ug/L	51.5	1	08/20/12 10:54	08/20/12 15:18	100-02-7	
N-Nitroso-di-n-propylamine	ND	ug/L	10.3	1	08/20/12 10:54	08/20/12 15:18	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	10.3	1	08/20/12 10:54	08/20/12 15:18	86-30-6	
Pentachlorophenol	ND	ug/L	51.5	1	08/20/12 10:54	08/20/12 15:18	87-86-5	
Phenanthrene	ND	ug/L	10.3	1	08/20/12 10:54	08/20/12 15:18	85-01-8	
Phenol	ND	ug/L	10.3	1	08/20/12 10:54	08/20/12 15:18	108-95-2	
Pyrene	ND	ug/L	10.3	1	08/20/12 10:54	08/20/12 15:18	129-00-0	
2,4,5-Trichlorophenol	ND	ug/L	10.3	1	08/20/12 10:54	08/20/12 15:18	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.3	1	08/20/12 10:54	08/20/12 15:18	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	93	%.	33-108	1	08/20/12 10:54	08/20/12 15:18	4165-60-0	
2-Fluorobiphenyl (S)	88	%.	34-106	1	08/20/12 10:54	08/20/12 15:18	321-60-8	
p-Terphenyl-d14 (S)	103	%.	31-122	1	08/20/12 10:54	08/20/12 15:18	1718-51-0	
Phenol-d5 (S)	25	%.	10-56	1	08/20/12 10:54	08/20/12 15:18	4165-62-2	
2-Fluorophenol (S)	43	%.	10-74	1	08/20/12 10:54	08/20/12 15:18	367-12-4	
2,4,6-Tribromophenol (S)	102	%.	32-124	1	08/20/12 10:54	08/20/12 15:18	118-79-6	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		08/17/12 20:44	67-64-1	
Acrolein	ND	ug/L	50.0	1		08/17/12 20:44	107-02-8	
Acrylonitrile	ND	ug/L	100	1		08/17/12 20:44	107-13-1	
Benzene	ND	ug/L	5.0	1		08/17/12 20:44	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		08/17/12 20:44	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		08/17/12 20:44	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		08/17/12 20:44	75-27-4	
Bromoform	ND	ug/L	5.0	1		08/17/12 20:44	75-25-2	
Bromomethane	ND	ug/L	5.0	1		08/17/12 20:44	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		08/17/12 20:44	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		08/17/12 20:44	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		08/17/12 20:44	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		08/17/12 20:44	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		08/17/12 20:44	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		08/17/12 20:44	56-23-5	

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ANALYTICAL RESULTS

Project: Carpenter Manufacturing
Pace Project No.: 5067678

Sample: EB-1 **Lab ID: 5067678005** Collected: 08/15/12 12:00 Received: 08/16/12 15:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Chlorobenzene	ND	ug/L	5.0	1		08/17/12 20:44	108-90-7	
Chloroethane	ND	ug/L	5.0	1		08/17/12 20:44	75-00-3	
Chloroform	ND	ug/L	5.0	1		08/17/12 20:44	67-66-3	
Chloromethane	ND	ug/L	5.0	1		08/17/12 20:44	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		08/17/12 20:44	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		08/17/12 20:44	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		08/17/12 20:44	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		08/17/12 20:44	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		08/17/12 20:44	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		08/17/12 20:44	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		08/17/12 20:44	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		08/17/12 20:44	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		08/17/12 20:44	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		08/17/12 20:44	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		08/17/12 20:44	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		08/17/12 20:44	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		08/17/12 20:44	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		08/17/12 20:44	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		08/17/12 20:44	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		08/17/12 20:44	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		08/17/12 20:44	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		08/17/12 20:44	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		08/17/12 20:44	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		08/17/12 20:44	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		08/17/12 20:44	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		08/17/12 20:44	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		08/17/12 20:44	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		08/17/12 20:44	87-68-3	
n-Hexane	ND	ug/L	5.0	1		08/17/12 20:44	110-54-3	N2
2-Hexanone	ND	ug/L	25.0	1		08/17/12 20:44	591-78-6	
Iodomethane	ND	ug/L	10.0	1		08/17/12 20:44	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		08/17/12 20:44	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		08/17/12 20:44	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		08/17/12 20:44	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		08/17/12 20:44	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		08/17/12 20:44	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		08/17/12 20:44	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		08/17/12 20:44	103-65-1	
Styrene	ND	ug/L	5.0	1		08/17/12 20:44	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		08/17/12 20:44	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		08/17/12 20:44	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		08/17/12 20:44	127-18-4	
Toluene	ND	ug/L	5.0	1		08/17/12 20:44	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		08/17/12 20:44	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		08/17/12 20:44	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		08/17/12 20:44	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		08/17/12 20:44	79-00-5	

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ANALYTICAL RESULTS

Project: Carpenter Manufacturing
Pace Project No.: 5067678

Sample: EB-1 **Lab ID: 5067678005** Collected: 08/15/12 12:00 Received: 08/16/12 15:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Trichloroethene	ND	ug/L	5.0	1		08/17/12 20:44	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		08/17/12 20:44	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		08/17/12 20:44	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		08/17/12 20:44	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		08/17/12 20:44	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		08/17/12 20:44	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		08/17/12 20:44	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		08/17/12 20:44	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	97	%.	83-123	1		08/17/12 20:44	1868-53-7	
4-Bromofluorobenzene (S)	98	%.	72-125	1		08/17/12 20:44	460-00-4	
Toluene-d8 (S)	98	%.	81-114	1		08/17/12 20:44	2037-26-5	

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ANALYTICAL RESULTS

Project: Carpenter Manufacturing
Pace Project No.: 5067678

Sample: P-9 (0-4) **Lab ID: 5067678006** Collected: 08/15/12 12:40 Received: 08/16/12 15:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel	Analytical Method: EPA 8015B Modified Preparation Method: EPA 3546							
Diesel Range Organics (C8-C28)	ND	mg/kg	10.9	1	08/17/12 17:59	08/20/12 13:17		
Surrogates								
n-Pentacosane (S)	84	%.	30-126	1	08/17/12 17:59	08/20/12 13:17	629-99-2	
8015 GRO 5035	Analytical Method: EPA 8015 Mod Pur							
Gasoline Range Organics	ND	mg/kg	0.84	1		08/21/12 08:24		
Surrogates								
4-Bromofluorobenzene (S)	85	%.	30-163	1		08/21/12 08:24	460-00-4	
8270 MSSV SHORT LIST MICROWAVE	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 18:24	83-32-9	
Acenaphthylene	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 18:24	208-96-8	
Anthracene	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 18:24	120-12-7	
Benzo(a)anthracene	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 18:24	56-55-3	
Benzo(a)pyrene	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 18:24	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 18:24	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 18:24	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 18:24	207-08-9	
Benzyl alcohol	ND	ug/kg	720	1	08/21/12 11:56	08/21/12 18:24	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 18:24	101-55-3	
Butylbenzylphthalate	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 18:24	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	720	1	08/21/12 11:56	08/21/12 18:24	59-50-7	
4-Chloroaniline	ND	ug/kg	720	1	08/21/12 11:56	08/21/12 18:24	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 18:24	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 18:24	111-44-4	
bis(2chloro1methylethyl) ether	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 18:24	108-60-1	
2-Chloronaphthalene	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 18:24	91-58-7	
2-Chlorophenol	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 18:24	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 18:24	7005-72-3	
Chrysene	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 18:24	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 18:24	53-70-3	
Dibenzofuran	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 18:24	132-64-9	
3,3'-Dichlorobenzidine	ND	ug/kg	720	1	08/21/12 11:56	08/21/12 18:24	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 18:24	120-83-2	
Diethylphthalate	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 18:24	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 18:24	105-67-9	
Dimethylphthalate	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 18:24	131-11-3	
Di-n-butylphthalate	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 18:24	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	1750	1	08/21/12 11:56	08/21/12 18:24	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	1750	1	08/21/12 11:56	08/21/12 18:24	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 18:24	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 18:24	606-20-2	
Di-n-octylphthalate	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 18:24	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 18:24	117-81-7	
Fluoranthene	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 18:24	206-44-0	

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ANALYTICAL RESULTS

Project: Carpenter Manufacturing
Pace Project No.: 5067678

Sample: P-9 (0-4) **Lab ID: 5067678006** Collected: 08/15/12 12:40 Received: 08/16/12 15:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV SHORT LIST MICROWAVE	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Fluorene	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 18:24	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 18:24	87-68-3	
Hexachlorobenzene	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 18:24	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 18:24	77-47-4	
Hexachloroethane	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 18:24	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 18:24	193-39-5	
Isophorone	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 18:24	78-59-1	
2-Methylnaphthalene	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 18:24	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 18:24	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	720	1	08/21/12 11:56	08/21/12 18:24		
Naphthalene	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 18:24	91-20-3	
2-Nitroaniline	ND	ug/kg	1750	1	08/21/12 11:56	08/21/12 18:24	88-74-4	
3-Nitroaniline	ND	ug/kg	1750	1	08/21/12 11:56	08/21/12 18:24	99-09-2	
4-Nitroaniline	ND	ug/kg	1750	1	08/21/12 11:56	08/21/12 18:24	100-01-6	
Nitrobenzene	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 18:24	98-95-3	
2-Nitrophenol	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 18:24	88-75-5	
4-Nitrophenol	ND	ug/kg	1750	1	08/21/12 11:56	08/21/12 18:24	100-02-7	
N-Nitroso-di-n-propylamine	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 18:24	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 18:24	86-30-6	
Pentachlorophenol	ND	ug/kg	1750	1	08/21/12 11:56	08/21/12 18:24	87-86-5	
Phenanthrene	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 18:24	85-01-8	
Phenol	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 18:24	108-95-2	
Pyrene	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 18:24	129-00-0	
2,4,5-Trichlorophenol	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 18:24	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 18:24	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	75	%.	26-98	1	08/21/12 11:56	08/21/12 18:24	4165-60-0	
2-Fluorobiphenyl (S)	73	%.	36-94	1	08/21/12 11:56	08/21/12 18:24	321-60-8	
p-Terphenyl-d14 (S)	78	%.	32-112	1	08/21/12 11:56	08/21/12 18:24	1718-51-0	
Phenol-d5 (S)	69	%.	33-98	1	08/21/12 11:56	08/21/12 18:24	4165-62-2	
2-Fluorophenol (S)	73	%.	29-97	1	08/21/12 11:56	08/21/12 18:24	367-12-4	
2,4,6-Tribromophenol (S)	84	%.	24-114	1	08/21/12 11:56	08/21/12 18:24	118-79-6	
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	101	1		08/17/12 22:05	67-64-1	
Acrolein	ND	ug/kg	101	1		08/17/12 22:05	107-02-8	
Acrylonitrile	ND	ug/kg	101	1		08/17/12 22:05	107-13-1	
Benzene	ND	ug/kg	5.0	1		08/17/12 22:05	71-43-2	
Bromobenzene	ND	ug/kg	5.0	1		08/17/12 22:05	108-86-1	
Bromochloromethane	ND	ug/kg	5.0	1		08/17/12 22:05	74-97-5	
Bromodichloromethane	ND	ug/kg	5.0	1		08/17/12 22:05	75-27-4	
Bromoform	ND	ug/kg	5.0	1		08/17/12 22:05	75-25-2	
Bromomethane	ND	ug/kg	5.0	1		08/17/12 22:05	74-83-9	
2-Butanone (MEK)	ND	ug/kg	25.2	1		08/17/12 22:05	78-93-3	
n-Butylbenzene	ND	ug/kg	5.0	1		08/17/12 22:05	104-51-8	

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ANALYTICAL RESULTS

Project: Carpenter Manufacturing
Pace Project No.: 5067678

Sample: P-9 (0-4) **Lab ID: 5067678006** Collected: 08/15/12 12:40 Received: 08/16/12 15:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
sec-Butylbenzene	ND	ug/kg	5.0	1		08/17/12 22:05	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.0	1		08/17/12 22:05	98-06-6	
Carbon disulfide	ND	ug/kg	10.1	1		08/17/12 22:05	75-15-0	
Carbon tetrachloride	ND	ug/kg	5.0	1		08/17/12 22:05	56-23-5	
Chlorobenzene	ND	ug/kg	5.0	1		08/17/12 22:05	108-90-7	
Chloroethane	ND	ug/kg	5.0	1		08/17/12 22:05	75-00-3	
Chloroform	ND	ug/kg	5.0	1		08/17/12 22:05	67-66-3	
Chloromethane	ND	ug/kg	5.0	1		08/17/12 22:05	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.0	1		08/17/12 22:05	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.0	1		08/17/12 22:05	106-43-4	
Dibromochloromethane	ND	ug/kg	5.0	1		08/17/12 22:05	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.0	1		08/17/12 22:05	106-93-4	
Dibromomethane	ND	ug/kg	5.0	1		08/17/12 22:05	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.0	1		08/17/12 22:05	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.0	1		08/17/12 22:05	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.0	1		08/17/12 22:05	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	101	1		08/17/12 22:05	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	5.0	1		08/17/12 22:05	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.0	1		08/17/12 22:05	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.0	1		08/17/12 22:05	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.0	1		08/17/12 22:05	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.0	1		08/17/12 22:05	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.0	1		08/17/12 22:05	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.0	1		08/17/12 22:05	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.0	1		08/17/12 22:05	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.0	1		08/17/12 22:05	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.0	1		08/17/12 22:05	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.0	1		08/17/12 22:05	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.0	1		08/17/12 22:05	10061-02-6	
Ethylbenzene	ND	ug/kg	5.0	1		08/17/12 22:05	100-41-4	
Ethyl methacrylate	ND	ug/kg	101	1		08/17/12 22:05	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	5.0	1		08/17/12 22:05	87-68-3	
n-Hexane	ND	ug/kg	5.0	1		08/17/12 22:05	110-54-3	N2
2-Hexanone	ND	ug/kg	101	1		08/17/12 22:05	591-78-6	
Iodomethane	ND	ug/kg	101	1		08/17/12 22:05	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/kg	5.0	1		08/17/12 22:05	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.0	1		08/17/12 22:05	99-87-6	
Methylene Chloride	ND	ug/kg	20.2	1		08/17/12 22:05	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	25.2	1		08/17/12 22:05	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.0	1		08/17/12 22:05	1634-04-4	
Naphthalene	ND	ug/kg	5.0	1		08/17/12 22:05	91-20-3	
n-Propylbenzene	ND	ug/kg	5.0	1		08/17/12 22:05	103-65-1	
Styrene	ND	ug/kg	5.0	1		08/17/12 22:05	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.0	1		08/17/12 22:05	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.0	1		08/17/12 22:05	79-34-5	
Tetrachloroethene	ND	ug/kg	5.0	1		08/17/12 22:05	127-18-4	

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ANALYTICAL RESULTS

Project: Carpenter Manufacturing
Pace Project No.: 5067678

Sample: P-9 (0-4) **Lab ID: 5067678006** Collected: 08/15/12 12:40 Received: 08/16/12 15:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Toluene	ND	ug/kg	5.0	1		08/17/12 22:05	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.0	1		08/17/12 22:05	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.0	1		08/17/12 22:05	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.0	1		08/17/12 22:05	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.0	1		08/17/12 22:05	79-00-5	
Trichloroethene	ND	ug/kg	5.0	1		08/17/12 22:05	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.0	1		08/17/12 22:05	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.0	1		08/17/12 22:05	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.0	1		08/17/12 22:05	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.0	1		08/17/12 22:05	108-67-8	
Vinyl acetate	ND	ug/kg	101	1		08/17/12 22:05	108-05-4	
Vinyl chloride	ND	ug/kg	5.0	1		08/17/12 22:05	75-01-4	
Xylene (Total)	ND	ug/kg	10.1	1		08/17/12 22:05	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	94	%.	71-125	1		08/17/12 22:05	1868-53-7	
Toluene-d8 (S)	100	%.	76-124	1		08/17/12 22:05	2037-26-5	
4-Bromofluorobenzene (S)	99	%.	67-134	1		08/17/12 22:05	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**8.3**	%	0.10	1		08/20/12 17:05		

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ANALYTICAL RESULTS

Project: Carpenter Manufacturing
Pace Project No.: 5067678

Sample: P-13 (0-4) **Lab ID: 5067678007** Collected: 08/15/12 13:30 Received: 08/16/12 15:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel	Analytical Method: EPA 8015B Modified Preparation Method: EPA 3546							
Diesel Range Organics (C8-C28)	**32.1**	mg/kg	11.0	1	08/17/12 17:59	08/20/12 13:57		
Surrogates								
n-Pentacosane (S)	82	%.	30-126	1	08/17/12 17:59	08/20/12 13:57	629-99-2	
8015 GRO 5035	Analytical Method: EPA 8015 Mod Pur							
Gasoline Range Organics	**1.1**	mg/kg	0.64	1		08/21/12 08:47		
Surrogates								
4-Bromofluorobenzene (S)	88	%.	30-163	1		08/21/12 08:47	460-00-4	
8270 MSSV SHORT LIST MICROWAVE	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	363	1	08/21/12 11:56	08/21/12 18:45	83-32-9	
Acenaphthylene	ND	ug/kg	363	1	08/21/12 11:56	08/21/12 18:45	208-96-8	
Anthracene	ND	ug/kg	363	1	08/21/12 11:56	08/21/12 18:45	120-12-7	
Benzo(a)anthracene	ND	ug/kg	363	1	08/21/12 11:56	08/21/12 18:45	56-55-3	
Benzo(a)pyrene	ND	ug/kg	363	1	08/21/12 11:56	08/21/12 18:45	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	363	1	08/21/12 11:56	08/21/12 18:45	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	363	1	08/21/12 11:56	08/21/12 18:45	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	363	1	08/21/12 11:56	08/21/12 18:45	207-08-9	
Benzyl alcohol	ND	ug/kg	727	1	08/21/12 11:56	08/21/12 18:45	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	363	1	08/21/12 11:56	08/21/12 18:45	101-55-3	
Butylbenzylphthalate	ND	ug/kg	363	1	08/21/12 11:56	08/21/12 18:45	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	727	1	08/21/12 11:56	08/21/12 18:45	59-50-7	
4-Chloroaniline	ND	ug/kg	727	1	08/21/12 11:56	08/21/12 18:45	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	363	1	08/21/12 11:56	08/21/12 18:45	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	363	1	08/21/12 11:56	08/21/12 18:45	111-44-4	
bis(2chloro1methylethyl) ether	ND	ug/kg	363	1	08/21/12 11:56	08/21/12 18:45	108-60-1	
2-Chloronaphthalene	ND	ug/kg	363	1	08/21/12 11:56	08/21/12 18:45	91-58-7	
2-Chlorophenol	ND	ug/kg	363	1	08/21/12 11:56	08/21/12 18:45	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	363	1	08/21/12 11:56	08/21/12 18:45	7005-72-3	
Chrysene	ND	ug/kg	363	1	08/21/12 11:56	08/21/12 18:45	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	363	1	08/21/12 11:56	08/21/12 18:45	53-70-3	
Dibenzofuran	ND	ug/kg	363	1	08/21/12 11:56	08/21/12 18:45	132-64-9	
3,3'-Dichlorobenzidine	ND	ug/kg	727	1	08/21/12 11:56	08/21/12 18:45	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	363	1	08/21/12 11:56	08/21/12 18:45	120-83-2	
Diethylphthalate	ND	ug/kg	363	1	08/21/12 11:56	08/21/12 18:45	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	363	1	08/21/12 11:56	08/21/12 18:45	105-67-9	
Dimethylphthalate	ND	ug/kg	363	1	08/21/12 11:56	08/21/12 18:45	131-11-3	
Di-n-butylphthalate	ND	ug/kg	363	1	08/21/12 11:56	08/21/12 18:45	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	1760	1	08/21/12 11:56	08/21/12 18:45	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	1760	1	08/21/12 11:56	08/21/12 18:45	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	363	1	08/21/12 11:56	08/21/12 18:45	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	363	1	08/21/12 11:56	08/21/12 18:45	606-20-2	
Di-n-octylphthalate	ND	ug/kg	363	1	08/21/12 11:56	08/21/12 18:45	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	363	1	08/21/12 11:56	08/21/12 18:45	117-81-7	
Fluoranthene	ND	ug/kg	363	1	08/21/12 11:56	08/21/12 18:45	206-44-0	

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ANALYTICAL RESULTS

Project: Carpenter Manufacturing
Pace Project No.: 5067678

Sample: P-13 (0-4) **Lab ID: 5067678007** Collected: 08/15/12 13:30 Received: 08/16/12 15:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV SHORT LIST MICROWAVE	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Fluorene	ND	ug/kg	363	1	08/21/12 11:56	08/21/12 18:45	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	363	1	08/21/12 11:56	08/21/12 18:45	87-68-3	
Hexachlorobenzene	ND	ug/kg	363	1	08/21/12 11:56	08/21/12 18:45	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	363	1	08/21/12 11:56	08/21/12 18:45	77-47-4	
Hexachloroethane	ND	ug/kg	363	1	08/21/12 11:56	08/21/12 18:45	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	363	1	08/21/12 11:56	08/21/12 18:45	193-39-5	
Isophorone	ND	ug/kg	363	1	08/21/12 11:56	08/21/12 18:45	78-59-1	
2-Methylnaphthalene	ND	ug/kg	363	1	08/21/12 11:56	08/21/12 18:45	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	363	1	08/21/12 11:56	08/21/12 18:45	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	727	1	08/21/12 11:56	08/21/12 18:45		
Naphthalene	ND	ug/kg	363	1	08/21/12 11:56	08/21/12 18:45	91-20-3	
2-Nitroaniline	ND	ug/kg	1760	1	08/21/12 11:56	08/21/12 18:45	88-74-4	
3-Nitroaniline	ND	ug/kg	1760	1	08/21/12 11:56	08/21/12 18:45	99-09-2	
4-Nitroaniline	ND	ug/kg	1760	1	08/21/12 11:56	08/21/12 18:45	100-01-6	
Nitrobenzene	ND	ug/kg	363	1	08/21/12 11:56	08/21/12 18:45	98-95-3	
2-Nitrophenol	ND	ug/kg	363	1	08/21/12 11:56	08/21/12 18:45	88-75-5	
4-Nitrophenol	ND	ug/kg	1760	1	08/21/12 11:56	08/21/12 18:45	100-02-7	
N-Nitroso-di-n-propylamine	ND	ug/kg	363	1	08/21/12 11:56	08/21/12 18:45	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	363	1	08/21/12 11:56	08/21/12 18:45	86-30-6	
Pentachlorophenol	ND	ug/kg	1760	1	08/21/12 11:56	08/21/12 18:45	87-86-5	
Phenanthrene	ND	ug/kg	363	1	08/21/12 11:56	08/21/12 18:45	85-01-8	
Phenol	ND	ug/kg	363	1	08/21/12 11:56	08/21/12 18:45	108-95-2	
Pyrene	ND	ug/kg	363	1	08/21/12 11:56	08/21/12 18:45	129-00-0	
2,4,5-Trichlorophenol	ND	ug/kg	363	1	08/21/12 11:56	08/21/12 18:45	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	363	1	08/21/12 11:56	08/21/12 18:45	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	72	%.	26-98	1	08/21/12 11:56	08/21/12 18:45	4165-60-0	
2-Fluorobiphenyl (S)	69	%.	36-94	1	08/21/12 11:56	08/21/12 18:45	321-60-8	
p-Terphenyl-d14 (S)	79	%.	32-112	1	08/21/12 11:56	08/21/12 18:45	1718-51-0	
Phenol-d5 (S)	76	%.	33-98	1	08/21/12 11:56	08/21/12 18:45	4165-62-2	
2-Fluorophenol (S)	77	%.	29-97	1	08/21/12 11:56	08/21/12 18:45	367-12-4	
2,4,6-Tribromophenol (S)	81	%.	24-114	1	08/21/12 11:56	08/21/12 18:45	118-79-6	
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	71.4	1		08/17/12 22:37	67-64-1	
Acrolein	ND	ug/kg	71.4	1		08/17/12 22:37	107-02-8	
Acrylonitrile	ND	ug/kg	71.4	1		08/17/12 22:37	107-13-1	
Benzene	ND	ug/kg	3.6	1		08/17/12 22:37	71-43-2	
Bromobenzene	ND	ug/kg	3.6	1		08/17/12 22:37	108-86-1	
Bromochloromethane	ND	ug/kg	3.6	1		08/17/12 22:37	74-97-5	
Bromodichloromethane	ND	ug/kg	3.6	1		08/17/12 22:37	75-27-4	
Bromoform	ND	ug/kg	3.6	1		08/17/12 22:37	75-25-2	
Bromomethane	ND	ug/kg	3.6	1		08/17/12 22:37	74-83-9	
2-Butanone (MEK)	ND	ug/kg	17.9	1		08/17/12 22:37	78-93-3	
n-Butylbenzene	ND	ug/kg	3.6	1		08/17/12 22:37	104-51-8	

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ANALYTICAL RESULTS

Project: Carpenter Manufacturing
Pace Project No.: 5067678

Sample: P-13 (0-4) **Lab ID: 5067678007** Collected: 08/15/12 13:30 Received: 08/16/12 15:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
sec-Butylbenzene	ND	ug/kg	3.6	1		08/17/12 22:37	135-98-8	
tert-Butylbenzene	ND	ug/kg	3.6	1		08/17/12 22:37	98-06-6	
Carbon disulfide	ND	ug/kg	7.1	1		08/17/12 22:37	75-15-0	
Carbon tetrachloride	ND	ug/kg	3.6	1		08/17/12 22:37	56-23-5	
Chlorobenzene	ND	ug/kg	3.6	1		08/17/12 22:37	108-90-7	
Chloroethane	ND	ug/kg	3.6	1		08/17/12 22:37	75-00-3	
Chloroform	ND	ug/kg	3.6	1		08/17/12 22:37	67-66-3	
Chloromethane	ND	ug/kg	3.6	1		08/17/12 22:37	74-87-3	
2-Chlorotoluene	ND	ug/kg	3.6	1		08/17/12 22:37	95-49-8	
4-Chlorotoluene	ND	ug/kg	3.6	1		08/17/12 22:37	106-43-4	
Dibromochloromethane	ND	ug/kg	3.6	1		08/17/12 22:37	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	3.6	1		08/17/12 22:37	106-93-4	
Dibromomethane	ND	ug/kg	3.6	1		08/17/12 22:37	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	3.6	1		08/17/12 22:37	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	3.6	1		08/17/12 22:37	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	3.6	1		08/17/12 22:37	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	71.4	1		08/17/12 22:37	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	3.6	1		08/17/12 22:37	75-71-8	
1,1-Dichloroethane	ND	ug/kg	3.6	1		08/17/12 22:37	75-34-3	
1,2-Dichloroethane	ND	ug/kg	3.6	1		08/17/12 22:37	107-06-2	
1,1-Dichloroethene	ND	ug/kg	3.6	1		08/17/12 22:37	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	3.6	1		08/17/12 22:37	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	3.6	1		08/17/12 22:37	156-60-5	
1,2-Dichloropropane	ND	ug/kg	3.6	1		08/17/12 22:37	78-87-5	
1,3-Dichloropropane	ND	ug/kg	3.6	1		08/17/12 22:37	142-28-9	
2,2-Dichloropropane	ND	ug/kg	3.6	1		08/17/12 22:37	594-20-7	
1,1-Dichloropropene	ND	ug/kg	3.6	1		08/17/12 22:37	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	3.6	1		08/17/12 22:37	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	3.6	1		08/17/12 22:37	10061-02-6	
Ethylbenzene	**12.5**	ug/kg	3.6	1		08/17/12 22:37	100-41-4	
Ethyl methacrylate	ND	ug/kg	71.4	1		08/17/12 22:37	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	3.6	1		08/17/12 22:37	87-68-3	
n-Hexane	**10**	ug/kg	3.6	1		08/17/12 22:37	110-54-3	N2
2-Hexanone	ND	ug/kg	71.4	1		08/17/12 22:37	591-78-6	
Iodomethane	ND	ug/kg	71.4	1		08/17/12 22:37	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/kg	3.6	1		08/17/12 22:37	98-82-8	
p-Isopropyltoluene	ND	ug/kg	3.6	1		08/17/12 22:37	99-87-6	
Methylene Chloride	ND	ug/kg	14.3	1		08/17/12 22:37	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	17.9	1		08/17/12 22:37	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	3.6	1		08/17/12 22:37	1634-04-4	
Naphthalene	**14.9**	ug/kg	3.6	1		08/17/12 22:37	91-20-3	
n-Propylbenzene	**3.8**	ug/kg	3.6	1		08/17/12 22:37	103-65-1	
Styrene	ND	ug/kg	3.6	1		08/17/12 22:37	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	3.6	1		08/17/12 22:37	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	3.6	1		08/17/12 22:37	79-34-5	
Tetrachloroethene	ND	ug/kg	3.6	1		08/17/12 22:37	127-18-4	

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ANALYTICAL RESULTS

Project: Carpenter Manufacturing
Pace Project No.: 5067678

Sample: P-13 (0-4) **Lab ID: 5067678007** Collected: 08/15/12 13:30 Received: 08/16/12 15:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Toluene	ND	ug/kg	3.6	1		08/17/12 22:37	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	3.6	1		08/17/12 22:37	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	3.6	1		08/17/12 22:37	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	3.6	1		08/17/12 22:37	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	3.6	1		08/17/12 22:37	79-00-5	
Trichloroethene	ND	ug/kg	3.6	1		08/17/12 22:37	79-01-6	
Trichlorofluoromethane	ND	ug/kg	3.6	1		08/17/12 22:37	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	3.6	1		08/17/12 22:37	96-18-4	
1,2,4-Trimethylbenzene	**14.9**	ug/kg	3.6	1		08/17/12 22:37	95-63-6	
1,3,5-Trimethylbenzene	**7.0**	ug/kg	3.6	1		08/17/12 22:37	108-67-8	
Vinyl acetate	ND	ug/kg	71.4	1		08/17/12 22:37	108-05-4	
Vinyl chloride	ND	ug/kg	3.6	1		08/17/12 22:37	75-01-4	
Xylene (Total)	ND	ug/kg	7.1	1		08/17/12 22:37	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	96	%.	71-125	1		08/17/12 22:37	1868-53-7	
Toluene-d8 (S)	100	%.	76-124	1		08/17/12 22:37	2037-26-5	
4-Bromofluorobenzene (S)	101	%.	67-134	1		08/17/12 22:37	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**9.2**	%	0.10	1		08/20/12 17:05		

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ANALYTICAL RESULTS

Project: Carpenter Manufacturing
Pace Project No.: 5067678

Sample: P-13 (4-8) **Lab ID: 5067678008** Collected: 08/15/12 13:35 Received: 08/16/12 15:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel	Analytical Method: EPA 8015B Modified Preparation Method: EPA 3546							
Diesel Range Organics (C8-C28)	ND	mg/kg	11.1	1	08/17/12 17:59	08/20/12 14:18		
Surrogates								
n-Pentacosane (S)	72	%.	30-126	1	08/17/12 17:59	08/20/12 14:18	629-99-2	
8015 GRO 5035	Analytical Method: EPA 8015 Mod Pur							
Gasoline Range Organics	ND	mg/kg	0.72	1		08/21/12 09:33		
Surrogates								
4-Bromofluorobenzene (S)	79	%.	30-163	1		08/21/12 09:33	460-00-4	
8270 MSSV SHORT LIST MICROWAVE	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	367	1	08/21/12 11:56	08/21/12 19:05	83-32-9	
Acenaphthylene	ND	ug/kg	367	1	08/21/12 11:56	08/21/12 19:05	208-96-8	
Anthracene	ND	ug/kg	367	1	08/21/12 11:56	08/21/12 19:05	120-12-7	
Benzo(a)anthracene	ND	ug/kg	367	1	08/21/12 11:56	08/21/12 19:05	56-55-3	
Benzo(a)pyrene	ND	ug/kg	367	1	08/21/12 11:56	08/21/12 19:05	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	367	1	08/21/12 11:56	08/21/12 19:05	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	367	1	08/21/12 11:56	08/21/12 19:05	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	367	1	08/21/12 11:56	08/21/12 19:05	207-08-9	
Benzyl alcohol	ND	ug/kg	733	1	08/21/12 11:56	08/21/12 19:05	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	367	1	08/21/12 11:56	08/21/12 19:05	101-55-3	
Butylbenzylphthalate	ND	ug/kg	367	1	08/21/12 11:56	08/21/12 19:05	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	733	1	08/21/12 11:56	08/21/12 19:05	59-50-7	
4-Chloroaniline	ND	ug/kg	733	1	08/21/12 11:56	08/21/12 19:05	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	367	1	08/21/12 11:56	08/21/12 19:05	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	367	1	08/21/12 11:56	08/21/12 19:05	111-44-4	
bis(2chloro1methylethyl) ether	ND	ug/kg	367	1	08/21/12 11:56	08/21/12 19:05	108-60-1	
2-Chloronaphthalene	ND	ug/kg	367	1	08/21/12 11:56	08/21/12 19:05	91-58-7	
2-Chlorophenol	ND	ug/kg	367	1	08/21/12 11:56	08/21/12 19:05	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	367	1	08/21/12 11:56	08/21/12 19:05	7005-72-3	
Chrysene	ND	ug/kg	367	1	08/21/12 11:56	08/21/12 19:05	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	367	1	08/21/12 11:56	08/21/12 19:05	53-70-3	
Dibenzofuran	ND	ug/kg	367	1	08/21/12 11:56	08/21/12 19:05	132-64-9	
3,3'-Dichlorobenzidine	ND	ug/kg	733	1	08/21/12 11:56	08/21/12 19:05	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	367	1	08/21/12 11:56	08/21/12 19:05	120-83-2	
Diethylphthalate	ND	ug/kg	367	1	08/21/12 11:56	08/21/12 19:05	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	367	1	08/21/12 11:56	08/21/12 19:05	105-67-9	
Dimethylphthalate	ND	ug/kg	367	1	08/21/12 11:56	08/21/12 19:05	131-11-3	
Di-n-butylphthalate	ND	ug/kg	367	1	08/21/12 11:56	08/21/12 19:05	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	1780	1	08/21/12 11:56	08/21/12 19:05	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	1780	1	08/21/12 11:56	08/21/12 19:05	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	367	1	08/21/12 11:56	08/21/12 19:05	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	367	1	08/21/12 11:56	08/21/12 19:05	606-20-2	
Di-n-octylphthalate	ND	ug/kg	367	1	08/21/12 11:56	08/21/12 19:05	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	367	1	08/21/12 11:56	08/21/12 19:05	117-81-7	
Fluoranthene	ND	ug/kg	367	1	08/21/12 11:56	08/21/12 19:05	206-44-0	

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ANALYTICAL RESULTS

Project: Carpenter Manufacturing
Pace Project No.: 5067678

Sample: P-13 (4-8) **Lab ID: 5067678008** Collected: 08/15/12 13:35 Received: 08/16/12 15:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV SHORT LIST MICROWAVE	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Fluorene	ND	ug/kg	367	1	08/21/12 11:56	08/21/12 19:05	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	367	1	08/21/12 11:56	08/21/12 19:05	87-68-3	
Hexachlorobenzene	ND	ug/kg	367	1	08/21/12 11:56	08/21/12 19:05	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	367	1	08/21/12 11:56	08/21/12 19:05	77-47-4	
Hexachloroethane	ND	ug/kg	367	1	08/21/12 11:56	08/21/12 19:05	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	367	1	08/21/12 11:56	08/21/12 19:05	193-39-5	
Isophorone	ND	ug/kg	367	1	08/21/12 11:56	08/21/12 19:05	78-59-1	
2-Methylnaphthalene	ND	ug/kg	367	1	08/21/12 11:56	08/21/12 19:05	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	367	1	08/21/12 11:56	08/21/12 19:05	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	733	1	08/21/12 11:56	08/21/12 19:05		
Naphthalene	ND	ug/kg	367	1	08/21/12 11:56	08/21/12 19:05	91-20-3	
2-Nitroaniline	ND	ug/kg	1780	1	08/21/12 11:56	08/21/12 19:05	88-74-4	
3-Nitroaniline	ND	ug/kg	1780	1	08/21/12 11:56	08/21/12 19:05	99-09-2	
4-Nitroaniline	ND	ug/kg	1780	1	08/21/12 11:56	08/21/12 19:05	100-01-6	
Nitrobenzene	ND	ug/kg	367	1	08/21/12 11:56	08/21/12 19:05	98-95-3	
2-Nitrophenol	ND	ug/kg	367	1	08/21/12 11:56	08/21/12 19:05	88-75-5	
4-Nitrophenol	ND	ug/kg	1780	1	08/21/12 11:56	08/21/12 19:05	100-02-7	
N-Nitroso-di-n-propylamine	ND	ug/kg	367	1	08/21/12 11:56	08/21/12 19:05	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	367	1	08/21/12 11:56	08/21/12 19:05	86-30-6	
Pentachlorophenol	ND	ug/kg	1780	1	08/21/12 11:56	08/21/12 19:05	87-86-5	
Phenanthrene	ND	ug/kg	367	1	08/21/12 11:56	08/21/12 19:05	85-01-8	
Phenol	ND	ug/kg	367	1	08/21/12 11:56	08/21/12 19:05	108-95-2	
Pyrene	ND	ug/kg	367	1	08/21/12 11:56	08/21/12 19:05	129-00-0	
2,4,5-Trichlorophenol	ND	ug/kg	367	1	08/21/12 11:56	08/21/12 19:05	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	367	1	08/21/12 11:56	08/21/12 19:05	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	76	%.	26-98	1	08/21/12 11:56	08/21/12 19:05	4165-60-0	
2-Fluorobiphenyl (S)	79	%.	36-94	1	08/21/12 11:56	08/21/12 19:05	321-60-8	
p-Terphenyl-d14 (S)	77	%.	32-112	1	08/21/12 11:56	08/21/12 19:05	1718-51-0	
Phenol-d5 (S)	76	%.	33-98	1	08/21/12 11:56	08/21/12 19:05	4165-62-2	
2-Fluorophenol (S)	75	%.	29-97	1	08/21/12 11:56	08/21/12 19:05	367-12-4	
2,4,6-Tribromophenol (S)	77	%.	24-114	1	08/21/12 11:56	08/21/12 19:05	118-79-6	
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	84.1	1		08/17/12 23:10	67-64-1	
Acrolein	ND	ug/kg	84.1	1		08/17/12 23:10	107-02-8	
Acrylonitrile	ND	ug/kg	84.1	1		08/17/12 23:10	107-13-1	
Benzene	ND	ug/kg	4.2	1		08/17/12 23:10	71-43-2	
Bromobenzene	ND	ug/kg	4.2	1		08/17/12 23:10	108-86-1	
Bromochloromethane	ND	ug/kg	4.2	1		08/17/12 23:10	74-97-5	
Bromodichloromethane	ND	ug/kg	4.2	1		08/17/12 23:10	75-27-4	
Bromoform	ND	ug/kg	4.2	1		08/17/12 23:10	75-25-2	
Bromomethane	ND	ug/kg	4.2	1		08/17/12 23:10	74-83-9	
2-Butanone (MEK)	ND	ug/kg	21.0	1		08/17/12 23:10	78-93-3	
n-Butylbenzene	ND	ug/kg	4.2	1		08/17/12 23:10	104-51-8	

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ANALYTICAL RESULTS

Project: Carpenter Manufacturing
Pace Project No.: 5067678

Sample: P-13 (4-8) **Lab ID: 5067678008** Collected: 08/15/12 13:35 Received: 08/16/12 15:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
sec-Butylbenzene	ND	ug/kg	4.2	1		08/17/12 23:10	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.2	1		08/17/12 23:10	98-06-6	
Carbon disulfide	ND	ug/kg	8.4	1		08/17/12 23:10	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.2	1		08/17/12 23:10	56-23-5	
Chlorobenzene	ND	ug/kg	4.2	1		08/17/12 23:10	108-90-7	
Chloroethane	ND	ug/kg	4.2	1		08/17/12 23:10	75-00-3	
Chloroform	ND	ug/kg	4.2	1		08/17/12 23:10	67-66-3	
Chloromethane	ND	ug/kg	4.2	1		08/17/12 23:10	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.2	1		08/17/12 23:10	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.2	1		08/17/12 23:10	106-43-4	
Dibromochloromethane	ND	ug/kg	4.2	1		08/17/12 23:10	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.2	1		08/17/12 23:10	106-93-4	
Dibromomethane	ND	ug/kg	4.2	1		08/17/12 23:10	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.2	1		08/17/12 23:10	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.2	1		08/17/12 23:10	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.2	1		08/17/12 23:10	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	84.1	1		08/17/12 23:10	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	4.2	1		08/17/12 23:10	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.2	1		08/17/12 23:10	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.2	1		08/17/12 23:10	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.2	1		08/17/12 23:10	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.2	1		08/17/12 23:10	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.2	1		08/17/12 23:10	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.2	1		08/17/12 23:10	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.2	1		08/17/12 23:10	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.2	1		08/17/12 23:10	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.2	1		08/17/12 23:10	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.2	1		08/17/12 23:10	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.2	1		08/17/12 23:10	10061-02-6	
Ethylbenzene	ND	ug/kg	4.2	1		08/17/12 23:10	100-41-4	
Ethyl methacrylate	ND	ug/kg	84.1	1		08/17/12 23:10	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	4.2	1		08/17/12 23:10	87-68-3	
n-Hexane	ND	ug/kg	4.2	1		08/17/12 23:10	110-54-3	N2
2-Hexanone	ND	ug/kg	84.1	1		08/17/12 23:10	591-78-6	
Iodomethane	ND	ug/kg	84.1	1		08/17/12 23:10	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/kg	4.2	1		08/17/12 23:10	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.2	1		08/17/12 23:10	99-87-6	
Methylene Chloride	ND	ug/kg	16.8	1		08/17/12 23:10	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	21.0	1		08/17/12 23:10	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.2	1		08/17/12 23:10	1634-04-4	
Naphthalene	ND	ug/kg	4.2	1		08/17/12 23:10	91-20-3	
n-Propylbenzene	ND	ug/kg	4.2	1		08/17/12 23:10	103-65-1	
Styrene	ND	ug/kg	4.2	1		08/17/12 23:10	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.2	1		08/17/12 23:10	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.2	1		08/17/12 23:10	79-34-5	
Tetrachloroethene	ND	ug/kg	4.2	1		08/17/12 23:10	127-18-4	

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ANALYTICAL RESULTS

Project: Carpenter Manufacturing
Pace Project No.: 5067678

Sample: P-13 (4-8) **Lab ID: 5067678008** Collected: 08/15/12 13:35 Received: 08/16/12 15:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Toluene	ND	ug/kg	4.2	1		08/17/12 23:10	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.2	1		08/17/12 23:10	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.2	1		08/17/12 23:10	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.2	1		08/17/12 23:10	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.2	1		08/17/12 23:10	79-00-5	
Trichloroethene	ND	ug/kg	4.2	1		08/17/12 23:10	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.2	1		08/17/12 23:10	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.2	1		08/17/12 23:10	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.2	1		08/17/12 23:10	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.2	1		08/17/12 23:10	108-67-8	
Vinyl acetate	ND	ug/kg	84.1	1		08/17/12 23:10	108-05-4	
Vinyl chloride	ND	ug/kg	4.2	1		08/17/12 23:10	75-01-4	
Xylene (Total)	ND	ug/kg	8.4	1		08/17/12 23:10	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	96	%.	71-125	1		08/17/12 23:10	1868-53-7	
Toluene-d8 (S)	98	%.	76-124	1		08/17/12 23:10	2037-26-5	
4-Bromofluorobenzene (S)	99	%.	67-134	1		08/17/12 23:10	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**10.0**	%	0.10	1		08/20/12 17:05		

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ANALYTICAL RESULTS

Project: Carpenter Manufacturing
Pace Project No.: 5067678

Sample: P-14 (0-4) **Lab ID: 5067678009** Collected: 08/15/12 14:00 Received: 08/16/12 15:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GRO 5035	Analytical Method: EPA 8015 Mod Pur							
Gasoline Range Organics	**39.2**	mg/kg	16.3	25		08/21/12 21:11		
Surrogates								
4-Bromofluorobenzene (S)	84	%.	30-163	25		08/21/12 21:11	460-00-4	
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	3250	50		08/21/12 21:58	67-64-1	
Acrolein	ND	ug/kg	3250	50		08/21/12 21:58	107-02-8	
Acrylonitrile	ND	ug/kg	3250	50		08/21/12 21:58	107-13-1	
Benzene	ND	ug/kg	163	50		08/21/12 21:58	71-43-2	1d
Bromobenzene	ND	ug/kg	163	50		08/21/12 21:58	108-86-1	
Bromochloromethane	ND	ug/kg	163	50		08/21/12 21:58	74-97-5	
Bromodichloromethane	ND	ug/kg	163	50		08/21/12 21:58	75-27-4	
Bromoform	ND	ug/kg	163	50		08/21/12 21:58	75-25-2	
Bromomethane	ND	ug/kg	163	50		08/21/12 21:58	74-83-9	
2-Butanone (MEK)	ND	ug/kg	813	50		08/21/12 21:58	78-93-3	
n-Butylbenzene	**607**	ug/kg	163	50		08/21/12 21:58	104-51-8	
sec-Butylbenzene	**162**	ug/kg	163	50		08/21/12 21:58	135-98-8	
tert-Butylbenzene	ND	ug/kg	163	50		08/21/12 21:58	98-06-6	
Carbon disulfide	ND	ug/kg	325	50		08/21/12 21:58	75-15-0	
Carbon tetrachloride	ND	ug/kg	163	50		08/21/12 21:58	56-23-5	
Chlorobenzene	ND	ug/kg	163	50		08/21/12 21:58	108-90-7	
Chloroethane	ND	ug/kg	163	50		08/21/12 21:58	75-00-3	
Chloroform	ND	ug/kg	163	50		08/21/12 21:58	67-66-3	
Chloromethane	ND	ug/kg	163	50		08/21/12 21:58	74-87-3	
2-Chlorotoluene	ND	ug/kg	163	50		08/21/12 21:58	95-49-8	
4-Chlorotoluene	ND	ug/kg	163	50		08/21/12 21:58	106-43-4	
Dibromochloromethane	ND	ug/kg	163	50		08/21/12 21:58	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	163	50		08/21/12 21:58	106-93-4	
Dibromomethane	ND	ug/kg	163	50		08/21/12 21:58	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	163	50		08/21/12 21:58	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	163	50		08/21/12 21:58	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	163	50		08/21/12 21:58	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	3250	50		08/21/12 21:58	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	163	50		08/21/12 21:58	75-71-8	
1,1-Dichloroethane	ND	ug/kg	163	50		08/21/12 21:58	75-34-3	
1,2-Dichloroethane	ND	ug/kg	163	50		08/21/12 21:58	107-06-2	
1,1-Dichloroethene	ND	ug/kg	163	50		08/21/12 21:58	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	163	50		08/21/12 21:58	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	163	50		08/21/12 21:58	156-60-5	
1,2-Dichloropropane	ND	ug/kg	163	50		08/21/12 21:58	78-87-5	
1,3-Dichloropropane	ND	ug/kg	163	50		08/21/12 21:58	142-28-9	
2,2-Dichloropropane	ND	ug/kg	163	50		08/21/12 21:58	594-20-7	
1,1-Dichloropropene	ND	ug/kg	163	50		08/21/12 21:58	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	163	50		08/21/12 21:58	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	163	50		08/21/12 21:58	10061-02-6	
Ethylbenzene	**2190**	ug/kg	163	50		08/21/12 21:58	100-41-4	

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ANALYTICAL RESULTS

Project: Carpenter Manufacturing
Pace Project No.: 5067678

Sample: P-14 (0-4) **Lab ID: 5067678009** Collected: 08/15/12 14:00 Received: 08/16/12 15:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Ethyl methacrylate	ND	ug/kg	3250	50		08/21/12 21:58	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	163	50		08/21/12 21:58	87-68-3	
n-Hexane	**7690**	ug/kg	163	50		08/21/12 21:58	110-54-3	N2
2-Hexanone	ND	ug/kg	3250	50		08/21/12 21:58	591-78-6	
Iodomethane	ND	ug/kg	3250	50		08/21/12 21:58	74-88-4	
Isopropylbenzene (Cumene)	**488**	ug/kg	163	50		08/21/12 21:58	98-82-8	
p-Isopropyltoluene	ND	ug/kg	163	50		08/21/12 21:58	99-87-6	
Methylene Chloride	ND	ug/kg	650	50		08/21/12 21:58	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	813	50		08/21/12 21:58	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	163	50		08/21/12 21:58	1634-04-4	
Naphthalene	**4070**	ug/kg	163	50		08/21/12 21:58	91-20-3	
n-Propylbenzene	**1710**	ug/kg	163	50		08/21/12 21:58	103-65-1	
Styrene	ND	ug/kg	163	50		08/21/12 21:58	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	163	50		08/21/12 21:58	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	163	50		08/21/12 21:58	79-34-5	
Tetrachloroethene	ND	ug/kg	163	50		08/21/12 21:58	127-18-4	
Toluene	ND	ug/kg	163	50		08/21/12 21:58	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	163	50		08/21/12 21:58	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	163	50		08/21/12 21:58	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	163	50		08/21/12 21:58	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	163	50		08/21/12 21:58	79-00-5	
Trichloroethene	ND	ug/kg	163	50		08/21/12 21:58	79-01-6	
Trichlorofluoromethane	ND	ug/kg	163	50		08/21/12 21:58	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	163	50		08/21/12 21:58	96-18-4	
1,2,4-Trimethylbenzene	**14800**	ug/kg	3250	1000		08/21/12 22:30	95-63-6	
1,3,5-Trimethylbenzene	**4030**	ug/kg	163	50		08/21/12 21:58	108-67-8	
Vinyl acetate	ND	ug/kg	3250	50		08/21/12 21:58	108-05-4	
Vinyl chloride	ND	ug/kg	163	50		08/21/12 21:58	75-01-4	3d,D4
Xylene (Total)	**21500**	ug/kg	6500	1000		08/21/12 22:30	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	88	%.	71-125	50		08/21/12 21:58	1868-53-7	
Toluene-d8 (S)	106	%.	76-124	50		08/21/12 21:58	2037-26-5	
4-Bromofluorobenzene (S)	107	%.	67-134	50		08/21/12 21:58	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**6.2**	%	0.10	1		08/20/12 17:05		

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ANALYTICAL RESULTS

Project: Carpenter Manufacturing
Pace Project No.: 5067678

Sample: P-14 (4-8) **Lab ID: 5067678010** Collected: 08/15/12 14:05 Received: 08/16/12 15:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel	Analytical Method: EPA 8015B Modified Preparation Method: EPA 3546							
Diesel Range Organics (C8-C28)	ND	mg/kg	11.0	1	08/17/12 17:59	08/20/12 13:24		
Surrogates								
n-Pentacosane (S)	70	%.	30-126	1	08/17/12 17:59	08/20/12 13:24	629-99-2	
8015 GRO 5035	Analytical Method: EPA 8015 Mod Pur							
Gasoline Range Organics	ND	mg/kg	0.69	1		08/21/12 10:19		
Surrogates								
4-Bromofluorobenzene (S)	83	%.	30-163	1		08/21/12 10:19	460-00-4	
8270 MSSV SHORT LIST MICROWAVE	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	364	1	08/21/12 11:56	08/21/12 19:26	83-32-9	
Acenaphthylene	ND	ug/kg	364	1	08/21/12 11:56	08/21/12 19:26	208-96-8	
Anthracene	ND	ug/kg	364	1	08/21/12 11:56	08/21/12 19:26	120-12-7	
Benzo(a)anthracene	ND	ug/kg	364	1	08/21/12 11:56	08/21/12 19:26	56-55-3	
Benzo(a)pyrene	ND	ug/kg	364	1	08/21/12 11:56	08/21/12 19:26	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	364	1	08/21/12 11:56	08/21/12 19:26	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	364	1	08/21/12 11:56	08/21/12 19:26	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	364	1	08/21/12 11:56	08/21/12 19:26	207-08-9	
Benzyl alcohol	ND	ug/kg	728	1	08/21/12 11:56	08/21/12 19:26	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	364	1	08/21/12 11:56	08/21/12 19:26	101-55-3	
Butylbenzylphthalate	ND	ug/kg	364	1	08/21/12 11:56	08/21/12 19:26	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	728	1	08/21/12 11:56	08/21/12 19:26	59-50-7	
4-Chloroaniline	ND	ug/kg	728	1	08/21/12 11:56	08/21/12 19:26	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	364	1	08/21/12 11:56	08/21/12 19:26	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	364	1	08/21/12 11:56	08/21/12 19:26	111-44-4	
bis(2chloro1methylethyl) ether	ND	ug/kg	364	1	08/21/12 11:56	08/21/12 19:26	108-60-1	
2-Chloronaphthalene	ND	ug/kg	364	1	08/21/12 11:56	08/21/12 19:26	91-58-7	
2-Chlorophenol	ND	ug/kg	364	1	08/21/12 11:56	08/21/12 19:26	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	364	1	08/21/12 11:56	08/21/12 19:26	7005-72-3	
Chrysene	ND	ug/kg	364	1	08/21/12 11:56	08/21/12 19:26	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	364	1	08/21/12 11:56	08/21/12 19:26	53-70-3	
Dibenzofuran	ND	ug/kg	364	1	08/21/12 11:56	08/21/12 19:26	132-64-9	
3,3'-Dichlorobenzidine	ND	ug/kg	728	1	08/21/12 11:56	08/21/12 19:26	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	364	1	08/21/12 11:56	08/21/12 19:26	120-83-2	
Diethylphthalate	ND	ug/kg	364	1	08/21/12 11:56	08/21/12 19:26	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	364	1	08/21/12 11:56	08/21/12 19:26	105-67-9	
Dimethylphthalate	ND	ug/kg	364	1	08/21/12 11:56	08/21/12 19:26	131-11-3	
Di-n-butylphthalate	ND	ug/kg	364	1	08/21/12 11:56	08/21/12 19:26	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	1770	1	08/21/12 11:56	08/21/12 19:26	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	1770	1	08/21/12 11:56	08/21/12 19:26	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	364	1	08/21/12 11:56	08/21/12 19:26	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	364	1	08/21/12 11:56	08/21/12 19:26	606-20-2	
Di-n-octylphthalate	ND	ug/kg	364	1	08/21/12 11:56	08/21/12 19:26	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	364	1	08/21/12 11:56	08/21/12 19:26	117-81-7	
Fluoranthene	ND	ug/kg	364	1	08/21/12 11:56	08/21/12 19:26	206-44-0	

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ANALYTICAL RESULTS

Project: Carpenter Manufacturing
Pace Project No.: 5067678

Sample: P-14 (4-8) **Lab ID: 5067678010** Collected: 08/15/12 14:05 Received: 08/16/12 15:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV SHORT LIST MICROWAVE	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Fluorene	ND	ug/kg	364	1	08/21/12 11:56	08/21/12 19:26	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	364	1	08/21/12 11:56	08/21/12 19:26	87-68-3	
Hexachlorobenzene	ND	ug/kg	364	1	08/21/12 11:56	08/21/12 19:26	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	364	1	08/21/12 11:56	08/21/12 19:26	77-47-4	
Hexachloroethane	ND	ug/kg	364	1	08/21/12 11:56	08/21/12 19:26	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	364	1	08/21/12 11:56	08/21/12 19:26	193-39-5	
Isophorone	ND	ug/kg	364	1	08/21/12 11:56	08/21/12 19:26	78-59-1	
2-Methylnaphthalene	ND	ug/kg	364	1	08/21/12 11:56	08/21/12 19:26	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	364	1	08/21/12 11:56	08/21/12 19:26	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	728	1	08/21/12 11:56	08/21/12 19:26		
Naphthalene	ND	ug/kg	364	1	08/21/12 11:56	08/21/12 19:26	91-20-3	
2-Nitroaniline	ND	ug/kg	1770	1	08/21/12 11:56	08/21/12 19:26	88-74-4	
3-Nitroaniline	ND	ug/kg	1770	1	08/21/12 11:56	08/21/12 19:26	99-09-2	
4-Nitroaniline	ND	ug/kg	1770	1	08/21/12 11:56	08/21/12 19:26	100-01-6	
Nitrobenzene	ND	ug/kg	364	1	08/21/12 11:56	08/21/12 19:26	98-95-3	
2-Nitrophenol	ND	ug/kg	364	1	08/21/12 11:56	08/21/12 19:26	88-75-5	
4-Nitrophenol	ND	ug/kg	1770	1	08/21/12 11:56	08/21/12 19:26	100-02-7	
N-Nitroso-di-n-propylamine	ND	ug/kg	364	1	08/21/12 11:56	08/21/12 19:26	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	364	1	08/21/12 11:56	08/21/12 19:26	86-30-6	
Pentachlorophenol	ND	ug/kg	1770	1	08/21/12 11:56	08/21/12 19:26	87-86-5	
Phenanthrene	ND	ug/kg	364	1	08/21/12 11:56	08/21/12 19:26	85-01-8	
Phenol	ND	ug/kg	364	1	08/21/12 11:56	08/21/12 19:26	108-95-2	
Pyrene	ND	ug/kg	364	1	08/21/12 11:56	08/21/12 19:26	129-00-0	
2,4,5-Trichlorophenol	ND	ug/kg	364	1	08/21/12 11:56	08/21/12 19:26	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	364	1	08/21/12 11:56	08/21/12 19:26	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	73	%.	26-98	1	08/21/12 11:56	08/21/12 19:26	4165-60-0	
2-Fluorobiphenyl (S)	71	%.	36-94	1	08/21/12 11:56	08/21/12 19:26	321-60-8	
p-Terphenyl-d14 (S)	73	%.	32-112	1	08/21/12 11:56	08/21/12 19:26	1718-51-0	
Phenol-d5 (S)	73	%.	33-98	1	08/21/12 11:56	08/21/12 19:26	4165-62-2	
2-Fluorophenol (S)	77	%.	29-97	1	08/21/12 11:56	08/21/12 19:26	367-12-4	
2,4,6-Tribromophenol (S)	69	%.	24-114	1	08/21/12 11:56	08/21/12 19:26	118-79-6	
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	68.7	1		08/18/12 02:55	67-64-1	
Acrolein	ND	ug/kg	68.7	1		08/18/12 02:55	107-02-8	
Acrylonitrile	ND	ug/kg	68.7	1		08/18/12 02:55	107-13-1	
Benzene	ND	ug/kg	3.4	1		08/18/12 02:55	71-43-2	
Bromobenzene	ND	ug/kg	3.4	1		08/18/12 02:55	108-86-1	
Bromochloromethane	ND	ug/kg	3.4	1		08/18/12 02:55	74-97-5	
Bromodichloromethane	ND	ug/kg	3.4	1		08/18/12 02:55	75-27-4	
Bromoform	ND	ug/kg	3.4	1		08/18/12 02:55	75-25-2	
Bromomethane	ND	ug/kg	3.4	1		08/18/12 02:55	74-83-9	
2-Butanone (MEK)	ND	ug/kg	17.2	1		08/18/12 02:55	78-93-3	
n-Butylbenzene	ND	ug/kg	3.4	1		08/18/12 02:55	104-51-8	

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ANALYTICAL RESULTS

Project: Carpenter Manufacturing
Pace Project No.: 5067678

Sample: P-14 (4-8) **Lab ID: 5067678010** Collected: 08/15/12 14:05 Received: 08/16/12 15:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
sec-Butylbenzene	ND	ug/kg	3.4	1		08/18/12 02:55	135-98-8	
tert-Butylbenzene	ND	ug/kg	3.4	1		08/18/12 02:55	98-06-6	
Carbon disulfide	ND	ug/kg	6.9	1		08/18/12 02:55	75-15-0	
Carbon tetrachloride	ND	ug/kg	3.4	1		08/18/12 02:55	56-23-5	
Chlorobenzene	ND	ug/kg	3.4	1		08/18/12 02:55	108-90-7	
Chloroethane	ND	ug/kg	3.4	1		08/18/12 02:55	75-00-3	
Chloroform	ND	ug/kg	3.4	1		08/18/12 02:55	67-66-3	
Chloromethane	ND	ug/kg	3.4	1		08/18/12 02:55	74-87-3	
2-Chlorotoluene	ND	ug/kg	3.4	1		08/18/12 02:55	95-49-8	
4-Chlorotoluene	ND	ug/kg	3.4	1		08/18/12 02:55	106-43-4	
Dibromochloromethane	ND	ug/kg	3.4	1		08/18/12 02:55	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	3.4	1		08/18/12 02:55	106-93-4	
Dibromomethane	ND	ug/kg	3.4	1		08/18/12 02:55	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	3.4	1		08/18/12 02:55	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	3.4	1		08/18/12 02:55	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	3.4	1		08/18/12 02:55	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	68.7	1		08/18/12 02:55	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	3.4	1		08/18/12 02:55	75-71-8	
1,1-Dichloroethane	ND	ug/kg	3.4	1		08/18/12 02:55	75-34-3	
1,2-Dichloroethane	ND	ug/kg	3.4	1		08/18/12 02:55	107-06-2	
1,1-Dichloroethene	ND	ug/kg	3.4	1		08/18/12 02:55	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	3.4	1		08/18/12 02:55	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	3.4	1		08/18/12 02:55	156-60-5	
1,2-Dichloropropane	ND	ug/kg	3.4	1		08/18/12 02:55	78-87-5	
1,3-Dichloropropane	ND	ug/kg	3.4	1		08/18/12 02:55	142-28-9	
2,2-Dichloropropane	ND	ug/kg	3.4	1		08/18/12 02:55	594-20-7	
1,1-Dichloropropene	ND	ug/kg	3.4	1		08/18/12 02:55	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	3.4	1		08/18/12 02:55	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	3.4	1		08/18/12 02:55	10061-02-6	
Ethylbenzene	ND	ug/kg	3.4	1		08/18/12 02:55	100-41-4	
Ethyl methacrylate	ND	ug/kg	68.7	1		08/18/12 02:55	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	3.4	1		08/18/12 02:55	87-68-3	
n-Hexane	ND	ug/kg	3.4	1		08/18/12 02:55	110-54-3	N2
2-Hexanone	ND	ug/kg	68.7	1		08/18/12 02:55	591-78-6	
Iodomethane	ND	ug/kg	68.7	1		08/18/12 02:55	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/kg	3.4	1		08/18/12 02:55	98-82-8	
p-Isopropyltoluene	ND	ug/kg	3.4	1		08/18/12 02:55	99-87-6	
Methylene Chloride	ND	ug/kg	13.7	1		08/18/12 02:55	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	17.2	1		08/18/12 02:55	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	3.4	1		08/18/12 02:55	1634-04-4	
Naphthalene	ND	ug/kg	3.4	1		08/18/12 02:55	91-20-3	
n-Propylbenzene	ND	ug/kg	3.4	1		08/18/12 02:55	103-65-1	
Styrene	ND	ug/kg	3.4	1		08/18/12 02:55	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	3.4	1		08/18/12 02:55	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	3.4	1		08/18/12 02:55	79-34-5	
Tetrachloroethene	ND	ug/kg	3.4	1		08/18/12 02:55	127-18-4	

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ANALYTICAL RESULTS

Project: Carpenter Manufacturing
Pace Project No.: 5067678

Sample: P-14 (4-8) **Lab ID: 5067678010** Collected: 08/15/12 14:05 Received: 08/16/12 15:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Toluene	ND	ug/kg	3.4	1		08/18/12 02:55	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	3.4	1		08/18/12 02:55	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	3.4	1		08/18/12 02:55	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	3.4	1		08/18/12 02:55	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	3.4	1		08/18/12 02:55	79-00-5	
Trichloroethene	ND	ug/kg	3.4	1		08/18/12 02:55	79-01-6	
Trichlorofluoromethane	ND	ug/kg	3.4	1		08/18/12 02:55	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	3.4	1		08/18/12 02:55	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	3.4	1		08/18/12 02:55	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	3.4	1		08/18/12 02:55	108-67-8	
Vinyl acetate	ND	ug/kg	68.7	1		08/18/12 02:55	108-05-4	
Vinyl chloride	ND	ug/kg	3.4	1		08/18/12 02:55	75-01-4	
Xylene (Total)	ND	ug/kg	6.9	1		08/18/12 02:55	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	96	%.	71-125	1		08/18/12 02:55	1868-53-7	
Toluene-d8 (S)	101	%.	76-124	1		08/18/12 02:55	2037-26-5	
4-Bromofluorobenzene (S)	94	%.	67-134	1		08/18/12 02:55	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**9.4**	%	0.10	1		08/20/12 17:05		

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ANALYTICAL RESULTS

Project: Carpenter Manufacturing
Pace Project No.: 5067678

Sample: P-17 (0-4) **Lab ID: 5067678011** Collected: 08/15/12 15:00 Received: 08/16/12 15:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel	Analytical Method: EPA 8015B Modified Preparation Method: EPA 3546							
Diesel Range Organics (C8-C28)	ND	mg/kg	10.9	1	08/17/12 17:59	08/20/12 13:31		
Surrogates								
n-Pentacosane (S)	72	%.	30-126	1	08/17/12 17:59	08/20/12 13:31	629-99-2	
8015 GRO 5035	Analytical Method: EPA 8015 Mod Pur							
Gasoline Range Organics	**11.3**	mg/kg	0.68	1		08/21/12 10:42		
Surrogates								
4-Bromofluorobenzene (S)	106	%.	30-163	1		08/21/12 10:42	460-00-4	
8270 MSSV SHORT LIST MICROWAVE	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 19:46	83-32-9	
Acenaphthylene	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 19:46	208-96-8	
Anthracene	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 19:46	120-12-7	
Benzo(a)anthracene	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 19:46	56-55-3	
Benzo(a)pyrene	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 19:46	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 19:46	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 19:46	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 19:46	207-08-9	
Benzyl alcohol	ND	ug/kg	719	1	08/21/12 11:56	08/21/12 19:46	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 19:46	101-55-3	
Butylbenzylphthalate	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 19:46	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	719	1	08/21/12 11:56	08/21/12 19:46	59-50-7	
4-Chloroaniline	ND	ug/kg	719	1	08/21/12 11:56	08/21/12 19:46	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 19:46	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 19:46	111-44-4	
bis(2chloro1methylethyl) ether	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 19:46	108-60-1	
2-Chloronaphthalene	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 19:46	91-58-7	
2-Chlorophenol	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 19:46	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 19:46	7005-72-3	
Chrysene	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 19:46	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 19:46	53-70-3	
Dibenzofuran	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 19:46	132-64-9	
3,3'-Dichlorobenzidine	ND	ug/kg	719	1	08/21/12 11:56	08/21/12 19:46	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 19:46	120-83-2	
Diethylphthalate	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 19:46	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 19:46	105-67-9	
Dimethylphthalate	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 19:46	131-11-3	
Di-n-butylphthalate	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 19:46	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	1740	1	08/21/12 11:56	08/21/12 19:46	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	1740	1	08/21/12 11:56	08/21/12 19:46	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 19:46	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 19:46	606-20-2	
Di-n-octylphthalate	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 19:46	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 19:46	117-81-7	
Fluoranthene	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 19:46	206-44-0	

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ANALYTICAL RESULTS

Project: Carpenter Manufacturing
Pace Project No.: 5067678

Sample: P-17 (0-4) **Lab ID: 5067678011** Collected: 08/15/12 15:00 Received: 08/16/12 15:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV SHORT LIST MICROWAVE	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Fluorene	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 19:46	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 19:46	87-68-3	
Hexachlorobenzene	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 19:46	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 19:46	77-47-4	
Hexachloroethane	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 19:46	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 19:46	193-39-5	
Isophorone	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 19:46	78-59-1	
2-Methylnaphthalene	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 19:46	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 19:46	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	719	1	08/21/12 11:56	08/21/12 19:46		
Naphthalene	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 19:46	91-20-3	
2-Nitroaniline	ND	ug/kg	1740	1	08/21/12 11:56	08/21/12 19:46	88-74-4	
3-Nitroaniline	ND	ug/kg	1740	1	08/21/12 11:56	08/21/12 19:46	99-09-2	
4-Nitroaniline	ND	ug/kg	1740	1	08/21/12 11:56	08/21/12 19:46	100-01-6	
Nitrobenzene	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 19:46	98-95-3	
2-Nitrophenol	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 19:46	88-75-5	
4-Nitrophenol	ND	ug/kg	1740	1	08/21/12 11:56	08/21/12 19:46	100-02-7	
N-Nitroso-di-n-propylamine	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 19:46	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 19:46	86-30-6	
Pentachlorophenol	ND	ug/kg	1740	1	08/21/12 11:56	08/21/12 19:46	87-86-5	
Phenanthrene	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 19:46	85-01-8	
Phenol	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 19:46	108-95-2	
Pyrene	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 19:46	129-00-0	
2,4,5-Trichlorophenol	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 19:46	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 19:46	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	73	%.	26-98	1	08/21/12 11:56	08/21/12 19:46	4165-60-0	
2-Fluorobiphenyl (S)	77	%.	36-94	1	08/21/12 11:56	08/21/12 19:46	321-60-8	
p-Terphenyl-d14 (S)	79	%.	32-112	1	08/21/12 11:56	08/21/12 19:46	1718-51-0	
Phenol-d5 (S)	72	%.	33-98	1	08/21/12 11:56	08/21/12 19:46	4165-62-2	
2-Fluorophenol (S)	75	%.	29-97	1	08/21/12 11:56	08/21/12 19:46	367-12-4	
2,4,6-Tribromophenol (S)	85	%.	24-114	1	08/21/12 11:56	08/21/12 19:46	118-79-6	
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	77.1	1		08/18/12 03:27	67-64-1	
Acrolein	ND	ug/kg	77.1	1		08/18/12 03:27	107-02-8	
Acrylonitrile	ND	ug/kg	77.1	1		08/18/12 03:27	107-13-1	
Benzene	ND	ug/kg	3.9	1		08/18/12 03:27	71-43-2	
Bromobenzene	ND	ug/kg	3.9	1		08/18/12 03:27	108-86-1	
Bromochloromethane	ND	ug/kg	3.9	1		08/18/12 03:27	74-97-5	
Bromodichloromethane	ND	ug/kg	3.9	1		08/18/12 03:27	75-27-4	
Bromoform	ND	ug/kg	3.9	1		08/18/12 03:27	75-25-2	
Bromomethane	ND	ug/kg	3.9	1		08/18/12 03:27	74-83-9	
2-Butanone (MEK)	ND	ug/kg	19.3	1		08/18/12 03:27	78-93-3	
n-Butylbenzene	ND	ug/kg	3.9	1		08/18/12 03:27	104-51-8	

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ANALYTICAL RESULTS

Project: Carpenter Manufacturing
Pace Project No.: 5067678

Sample: P-17 (0-4) **Lab ID: 5067678011** Collected: 08/15/12 15:00 Received: 08/16/12 15:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
sec-Butylbenzene	ND	ug/kg	3.9	1		08/18/12 03:27	135-98-8	
tert-Butylbenzene	ND	ug/kg	3.9	1		08/18/12 03:27	98-06-6	
Carbon disulfide	ND	ug/kg	7.7	1		08/18/12 03:27	75-15-0	
Carbon tetrachloride	ND	ug/kg	3.9	1		08/18/12 03:27	56-23-5	
Chlorobenzene	ND	ug/kg	3.9	1		08/18/12 03:27	108-90-7	
Chloroethane	ND	ug/kg	3.9	1		08/18/12 03:27	75-00-3	
Chloroform	ND	ug/kg	3.9	1		08/18/12 03:27	67-66-3	
Chloromethane	ND	ug/kg	3.9	1		08/18/12 03:27	74-87-3	
2-Chlorotoluene	ND	ug/kg	3.9	1		08/18/12 03:27	95-49-8	
4-Chlorotoluene	ND	ug/kg	3.9	1		08/18/12 03:27	106-43-4	
Dibromochloromethane	ND	ug/kg	3.9	1		08/18/12 03:27	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	3.9	1		08/18/12 03:27	106-93-4	
Dibromomethane	ND	ug/kg	3.9	1		08/18/12 03:27	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	3.9	1		08/18/12 03:27	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	3.9	1		08/18/12 03:27	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	3.9	1		08/18/12 03:27	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	77.1	1		08/18/12 03:27	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	3.9	1		08/18/12 03:27	75-71-8	
1,1-Dichloroethane	ND	ug/kg	3.9	1		08/18/12 03:27	75-34-3	
1,2-Dichloroethane	ND	ug/kg	3.9	1		08/18/12 03:27	107-06-2	
1,1-Dichloroethene	ND	ug/kg	3.9	1		08/18/12 03:27	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	3.9	1		08/18/12 03:27	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	3.9	1		08/18/12 03:27	156-60-5	
1,2-Dichloropropane	ND	ug/kg	3.9	1		08/18/12 03:27	78-87-5	
1,3-Dichloropropane	ND	ug/kg	3.9	1		08/18/12 03:27	142-28-9	
2,2-Dichloropropane	ND	ug/kg	3.9	1		08/18/12 03:27	594-20-7	
1,1-Dichloropropene	ND	ug/kg	3.9	1		08/18/12 03:27	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	3.9	1		08/18/12 03:27	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	3.9	1		08/18/12 03:27	10061-02-6	
Ethylbenzene	ND	ug/kg	3.9	1		08/18/12 03:27	100-41-4	
Ethyl methacrylate	ND	ug/kg	77.1	1		08/18/12 03:27	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	3.9	1		08/18/12 03:27	87-68-3	
n-Hexane	ND	ug/kg	3.9	1		08/18/12 03:27	110-54-3	N2
2-Hexanone	ND	ug/kg	77.1	1		08/18/12 03:27	591-78-6	
Iodomethane	ND	ug/kg	77.1	1		08/18/12 03:27	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/kg	3.9	1		08/18/12 03:27	98-82-8	
p-Isopropyltoluene	ND	ug/kg	3.9	1		08/18/12 03:27	99-87-6	
Methylene Chloride	ND	ug/kg	15.4	1		08/18/12 03:27	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	19.3	1		08/18/12 03:27	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	3.9	1		08/18/12 03:27	1634-04-4	
Naphthalene	ND	ug/kg	3.9	1		08/18/12 03:27	91-20-3	
n-Propylbenzene	ND	ug/kg	3.9	1		08/18/12 03:27	103-65-1	
Styrene	ND	ug/kg	3.9	1		08/18/12 03:27	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	3.9	1		08/18/12 03:27	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	3.9	1		08/18/12 03:27	79-34-5	
Tetrachloroethene	ND	ug/kg	3.9	1		08/18/12 03:27	127-18-4	

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ANALYTICAL RESULTS

Project: Carpenter Manufacturing
Pace Project No.: 5067678

Sample: P-17 (0-4) **Lab ID: 5067678011** Collected: 08/15/12 15:00 Received: 08/16/12 15:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Toluene	ND	ug/kg	3.9	1		08/18/12 03:27	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	3.9	1		08/18/12 03:27	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	3.9	1		08/18/12 03:27	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	3.9	1		08/18/12 03:27	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	3.9	1		08/18/12 03:27	79-00-5	
Trichloroethene	ND	ug/kg	3.9	1		08/18/12 03:27	79-01-6	
Trichlorofluoromethane	ND	ug/kg	3.9	1		08/18/12 03:27	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	3.9	1		08/18/12 03:27	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	3.9	1		08/18/12 03:27	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	3.9	1		08/18/12 03:27	108-67-8	
Vinyl acetate	ND	ug/kg	77.1	1		08/18/12 03:27	108-05-4	
Vinyl chloride	ND	ug/kg	3.9	1		08/18/12 03:27	75-01-4	
Xylene (Total)	ND	ug/kg	7.7	1		08/18/12 03:27	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	93	%.	71-125	1		08/18/12 03:27	1868-53-7	
Toluene-d8 (S)	99	%.	76-124	1		08/18/12 03:27	2037-26-5	
4-Bromofluorobenzene (S)	99	%.	67-134	1		08/18/12 03:27	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**8.2**	%	0.10	1		08/20/12 17:05		

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ANALYTICAL RESULTS

Project: Carpenter Manufacturing
Pace Project No.: 5067678

Sample: P-16 (0-4) **Lab ID: 5067678012** Collected: 08/15/12 15:45 Received: 08/16/12 15:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel	Analytical Method: EPA 8015B Modified Preparation Method: EPA 3546							
Diesel Range Organics (C8-C28)	ND	mg/kg	10.9	1	08/17/12 17:59	08/20/12 14:25		
Surrogates								
n-Pentacosane (S)	75	%.	30-126	1	08/17/12 17:59	08/20/12 14:25	629-99-2	
8015 GRO 5035	Analytical Method: EPA 8015 Mod Pur							
Gasoline Range Organics	**1.6**	mg/kg	0.76	1		08/21/12 11:05		
Surrogates								
4-Bromofluorobenzene (S)	85	%.	30-163	1		08/21/12 11:05	460-00-4	
8270 MSSV SHORT LIST MICROWAVE	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 20:07	83-32-9	
Acenaphthylene	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 20:07	208-96-8	
Anthracene	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 20:07	120-12-7	
Benzo(a)anthracene	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 20:07	56-55-3	
Benzo(a)pyrene	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 20:07	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 20:07	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 20:07	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 20:07	207-08-9	
Benzyl alcohol	ND	ug/kg	719	1	08/21/12 11:56	08/21/12 20:07	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 20:07	101-55-3	
Butylbenzylphthalate	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 20:07	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	719	1	08/21/12 11:56	08/21/12 20:07	59-50-7	
4-Chloroaniline	ND	ug/kg	719	1	08/21/12 11:56	08/21/12 20:07	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 20:07	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 20:07	111-44-4	
bis(2chloro1methylethyl) ether	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 20:07	108-60-1	
2-Chloronaphthalene	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 20:07	91-58-7	
2-Chlorophenol	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 20:07	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 20:07	7005-72-3	
Chrysene	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 20:07	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 20:07	53-70-3	
Dibenzofuran	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 20:07	132-64-9	
3,3'-Dichlorobenzidine	ND	ug/kg	719	1	08/21/12 11:56	08/21/12 20:07	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 20:07	120-83-2	
Diethylphthalate	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 20:07	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 20:07	105-67-9	
Dimethylphthalate	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 20:07	131-11-3	
Di-n-butylphthalate	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 20:07	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	1740	1	08/21/12 11:56	08/21/12 20:07	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	1740	1	08/21/12 11:56	08/21/12 20:07	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 20:07	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 20:07	606-20-2	
Di-n-octylphthalate	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 20:07	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 20:07	117-81-7	
Fluoranthene	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 20:07	206-44-0	

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ANALYTICAL RESULTS

Project: Carpenter Manufacturing
Pace Project No.: 5067678

Sample: P-16 (0-4) **Lab ID: 5067678012** Collected: 08/15/12 15:45 Received: 08/16/12 15:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV SHORT LIST MICROWAVE	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Fluorene	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 20:07	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 20:07	87-68-3	
Hexachlorobenzene	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 20:07	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 20:07	77-47-4	
Hexachloroethane	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 20:07	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 20:07	193-39-5	
Isophorone	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 20:07	78-59-1	
2-Methylnaphthalene	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 20:07	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 20:07	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	719	1	08/21/12 11:56	08/21/12 20:07		
Naphthalene	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 20:07	91-20-3	
2-Nitroaniline	ND	ug/kg	1740	1	08/21/12 11:56	08/21/12 20:07	88-74-4	
3-Nitroaniline	ND	ug/kg	1740	1	08/21/12 11:56	08/21/12 20:07	99-09-2	
4-Nitroaniline	ND	ug/kg	1740	1	08/21/12 11:56	08/21/12 20:07	100-01-6	
Nitrobenzene	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 20:07	98-95-3	
2-Nitrophenol	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 20:07	88-75-5	
4-Nitrophenol	ND	ug/kg	1740	1	08/21/12 11:56	08/21/12 20:07	100-02-7	
N-Nitroso-di-n-propylamine	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 20:07	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 20:07	86-30-6	
Pentachlorophenol	ND	ug/kg	1740	1	08/21/12 11:56	08/21/12 20:07	87-86-5	
Phenanthrene	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 20:07	85-01-8	
Phenol	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 20:07	108-95-2	
Pyrene	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 20:07	129-00-0	
2,4,5-Trichlorophenol	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 20:07	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	360	1	08/21/12 11:56	08/21/12 20:07	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	74	%.	26-98	1	08/21/12 11:56	08/21/12 20:07	4165-60-0	
2-Fluorobiphenyl (S)	73	%.	36-94	1	08/21/12 11:56	08/21/12 20:07	321-60-8	
p-Terphenyl-d14 (S)	75	%.	32-112	1	08/21/12 11:56	08/21/12 20:07	1718-51-0	
Phenol-d5 (S)	74	%.	33-98	1	08/21/12 11:56	08/21/12 20:07	4165-62-2	
2-Fluorophenol (S)	74	%.	29-97	1	08/21/12 11:56	08/21/12 20:07	367-12-4	
2,4,6-Tribromophenol (S)	81	%.	24-114	1	08/21/12 11:56	08/21/12 20:07	118-79-6	
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	82.5	1		08/18/12 03:59	67-64-1	
Acrolein	ND	ug/kg	82.5	1		08/18/12 03:59	107-02-8	
Acrylonitrile	ND	ug/kg	82.5	1		08/18/12 03:59	107-13-1	
Benzene	ND	ug/kg	4.1	1		08/18/12 03:59	71-43-2	
Bromobenzene	ND	ug/kg	4.1	1		08/18/12 03:59	108-86-1	
Bromochloromethane	ND	ug/kg	4.1	1		08/18/12 03:59	74-97-5	
Bromodichloromethane	ND	ug/kg	4.1	1		08/18/12 03:59	75-27-4	
Bromoform	ND	ug/kg	4.1	1		08/18/12 03:59	75-25-2	
Bromomethane	ND	ug/kg	4.1	1		08/18/12 03:59	74-83-9	
2-Butanone (MEK)	ND	ug/kg	20.6	1		08/18/12 03:59	78-93-3	
n-Butylbenzene	ND	ug/kg	4.1	1		08/18/12 03:59	104-51-8	

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ANALYTICAL RESULTS

Project: Carpenter Manufacturing
Pace Project No.: 5067678

Sample: P-16 (0-4) **Lab ID: 5067678012** Collected: 08/15/12 15:45 Received: 08/16/12 15:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
sec-Butylbenzene	ND	ug/kg	4.1	1		08/18/12 03:59	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.1	1		08/18/12 03:59	98-06-6	
Carbon disulfide	ND	ug/kg	8.3	1		08/18/12 03:59	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.1	1		08/18/12 03:59	56-23-5	
Chlorobenzene	ND	ug/kg	4.1	1		08/18/12 03:59	108-90-7	
Chloroethane	ND	ug/kg	4.1	1		08/18/12 03:59	75-00-3	
Chloroform	ND	ug/kg	4.1	1		08/18/12 03:59	67-66-3	
Chloromethane	ND	ug/kg	4.1	1		08/18/12 03:59	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.1	1		08/18/12 03:59	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.1	1		08/18/12 03:59	106-43-4	
Dibromochloromethane	ND	ug/kg	4.1	1		08/18/12 03:59	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.1	1		08/18/12 03:59	106-93-4	
Dibromomethane	ND	ug/kg	4.1	1		08/18/12 03:59	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.1	1		08/18/12 03:59	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.1	1		08/18/12 03:59	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.1	1		08/18/12 03:59	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	82.5	1		08/18/12 03:59	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	4.1	1		08/18/12 03:59	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.1	1		08/18/12 03:59	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.1	1		08/18/12 03:59	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.1	1		08/18/12 03:59	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.1	1		08/18/12 03:59	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.1	1		08/18/12 03:59	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.1	1		08/18/12 03:59	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.1	1		08/18/12 03:59	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.1	1		08/18/12 03:59	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.1	1		08/18/12 03:59	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.1	1		08/18/12 03:59	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.1	1		08/18/12 03:59	10061-02-6	
Ethylbenzene	ND	ug/kg	4.1	1		08/18/12 03:59	100-41-4	
Ethyl methacrylate	ND	ug/kg	82.5	1		08/18/12 03:59	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	4.1	1		08/18/12 03:59	87-68-3	
n-Hexane	ND	ug/kg	4.1	1		08/18/12 03:59	110-54-3	N2
2-Hexanone	ND	ug/kg	82.5	1		08/18/12 03:59	591-78-6	
Iodomethane	ND	ug/kg	82.5	1		08/18/12 03:59	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/kg	4.1	1		08/18/12 03:59	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.1	1		08/18/12 03:59	99-87-6	
Methylene Chloride	ND	ug/kg	16.5	1		08/18/12 03:59	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	20.6	1		08/18/12 03:59	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.1	1		08/18/12 03:59	1634-04-4	
Naphthalene	ND	ug/kg	4.1	1		08/18/12 03:59	91-20-3	
n-Propylbenzene	ND	ug/kg	4.1	1		08/18/12 03:59	103-65-1	
Styrene	ND	ug/kg	4.1	1		08/18/12 03:59	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.1	1		08/18/12 03:59	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.1	1		08/18/12 03:59	79-34-5	
Tetrachloroethene	ND	ug/kg	4.1	1		08/18/12 03:59	127-18-4	

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ANALYTICAL RESULTS

Project: Carpenter Manufacturing
Pace Project No.: 5067678

Sample: P-16 (0-4) **Lab ID: 5067678012** Collected: 08/15/12 15:45 Received: 08/16/12 15:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Toluene	ND	ug/kg	4.1	1		08/18/12 03:59	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.1	1		08/18/12 03:59	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.1	1		08/18/12 03:59	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.1	1		08/18/12 03:59	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.1	1		08/18/12 03:59	79-00-5	
Trichloroethene	ND	ug/kg	4.1	1		08/18/12 03:59	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.1	1		08/18/12 03:59	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.1	1		08/18/12 03:59	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.1	1		08/18/12 03:59	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.1	1		08/18/12 03:59	108-67-8	
Vinyl acetate	ND	ug/kg	82.5	1		08/18/12 03:59	108-05-4	
Vinyl chloride	ND	ug/kg	4.1	1		08/18/12 03:59	75-01-4	
Xylene (Total)	ND	ug/kg	8.3	1		08/18/12 03:59	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	93	%.	71-125	1		08/18/12 03:59	1868-53-7	
Toluene-d8 (S)	100	%.	76-124	1		08/18/12 03:59	2037-26-5	
4-Bromofluorobenzene (S)	101	%.	67-134	1		08/18/12 03:59	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**8.2**	%	0.10	1		08/20/12 17:06		

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ANALYTICAL RESULTS

Project: Carpenter Manufacturing
Pace Project No.: 5067678

Sample: Trip Blank **Lab ID: 5067678013** Collected: 08/15/12 08:00 Received: 08/16/12 15:00 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	100	1		08/18/12 04:31	67-64-1	
Acrolein	ND	ug/kg	100	1		08/18/12 04:31	107-02-8	
Acrylonitrile	ND	ug/kg	100	1		08/18/12 04:31	107-13-1	
Benzene	ND	ug/kg	5.0	1		08/18/12 04:31	71-43-2	
Bromobenzene	ND	ug/kg	5.0	1		08/18/12 04:31	108-86-1	
Bromochloromethane	ND	ug/kg	5.0	1		08/18/12 04:31	74-97-5	
Bromodichloromethane	ND	ug/kg	5.0	1		08/18/12 04:31	75-27-4	
Bromoform	ND	ug/kg	5.0	1		08/18/12 04:31	75-25-2	
Bromomethane	ND	ug/kg	5.0	1		08/18/12 04:31	74-83-9	
2-Butanone (MEK)	ND	ug/kg	25.0	1		08/18/12 04:31	78-93-3	
n-Butylbenzene	ND	ug/kg	5.0	1		08/18/12 04:31	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.0	1		08/18/12 04:31	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.0	1		08/18/12 04:31	98-06-6	
Carbon disulfide	ND	ug/kg	10.0	1		08/18/12 04:31	75-15-0	
Carbon tetrachloride	ND	ug/kg	5.0	1		08/18/12 04:31	56-23-5	
Chlorobenzene	ND	ug/kg	5.0	1		08/18/12 04:31	108-90-7	
Chloroethane	ND	ug/kg	5.0	1		08/18/12 04:31	75-00-3	
Chloroform	ND	ug/kg	5.0	1		08/18/12 04:31	67-66-3	
Chloromethane	ND	ug/kg	5.0	1		08/18/12 04:31	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.0	1		08/18/12 04:31	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.0	1		08/18/12 04:31	106-43-4	
Dibromochloromethane	ND	ug/kg	5.0	1		08/18/12 04:31	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.0	1		08/18/12 04:31	106-93-4	
Dibromomethane	ND	ug/kg	5.0	1		08/18/12 04:31	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.0	1		08/18/12 04:31	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.0	1		08/18/12 04:31	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.0	1		08/18/12 04:31	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	100	1		08/18/12 04:31	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	5.0	1		08/18/12 04:31	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.0	1		08/18/12 04:31	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.0	1		08/18/12 04:31	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.0	1		08/18/12 04:31	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.0	1		08/18/12 04:31	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.0	1		08/18/12 04:31	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.0	1		08/18/12 04:31	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.0	1		08/18/12 04:31	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.0	1		08/18/12 04:31	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.0	1		08/18/12 04:31	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.0	1		08/18/12 04:31	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.0	1		08/18/12 04:31	10061-02-6	
Ethylbenzene	ND	ug/kg	5.0	1		08/18/12 04:31	100-41-4	
Ethyl methacrylate	ND	ug/kg	100	1		08/18/12 04:31	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	5.0	1		08/18/12 04:31	87-68-3	
n-Hexane	ND	ug/kg	5.0	1		08/18/12 04:31	110-54-3	N2
2-Hexanone	ND	ug/kg	100	1		08/18/12 04:31	591-78-6	
Iodomethane	ND	ug/kg	100	1		08/18/12 04:31	74-88-4	

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ANALYTICAL RESULTS

Project: Carpenter Manufacturing
Pace Project No.: 5067678

Sample: Trip Blank **Lab ID: 5067678013** Collected: 08/15/12 08:00 Received: 08/16/12 15:00 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Isopropylbenzene (Cumene)	ND	ug/kg	5.0	1		08/18/12 04:31	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.0	1		08/18/12 04:31	99-87-6	
Methylene Chloride	ND	ug/kg	20.0	1		08/18/12 04:31	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	25.0	1		08/18/12 04:31	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.0	1		08/18/12 04:31	1634-04-4	
Naphthalene	ND	ug/kg	5.0	1		08/18/12 04:31	91-20-3	
n-Propylbenzene	ND	ug/kg	5.0	1		08/18/12 04:31	103-65-1	
Styrene	ND	ug/kg	5.0	1		08/18/12 04:31	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.0	1		08/18/12 04:31	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.0	1		08/18/12 04:31	79-34-5	
Tetrachloroethene	ND	ug/kg	5.0	1		08/18/12 04:31	127-18-4	
Toluene	ND	ug/kg	5.0	1		08/18/12 04:31	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.0	1		08/18/12 04:31	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.0	1		08/18/12 04:31	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.0	1		08/18/12 04:31	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.0	1		08/18/12 04:31	79-00-5	
Trichloroethene	ND	ug/kg	5.0	1		08/18/12 04:31	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.0	1		08/18/12 04:31	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.0	1		08/18/12 04:31	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.0	1		08/18/12 04:31	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.0	1		08/18/12 04:31	108-67-8	
Vinyl acetate	ND	ug/kg	100	1		08/18/12 04:31	108-05-4	
Vinyl chloride	ND	ug/kg	5.0	1		08/18/12 04:31	75-01-4	
Xylene (Total)	ND	ug/kg	10.0	1		08/18/12 04:31	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	94	%.	71-125	1		08/18/12 04:31	1868-53-7	
Toluene-d8 (S)	99	%.	76-124	1		08/18/12 04:31	2037-26-5	
4-Bromofluorobenzene (S)	99	%.	67-134	1		08/18/12 04:31	460-00-4	

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ANALYTICAL RESULTS

Project: Carpenter Manufacturing
Pace Project No.: 5067678

Sample: P-11 **Lab ID: 5067678014** Collected: 08/16/12 12:15 Received: 08/16/12 15:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel	Analytical Method: EPA 8015B Modified Preparation Method: EPA 3510							
Diesel Range Organics (C8-C28)	ND	mg/L	0.11	1	08/17/12 14:23	08/17/12 17:33		
Surrogates								
n-Pentacosane (S)	42	%.	20-108	1	08/17/12 14:23	08/17/12 17:33	629-99-2	
Gasoline Range Organics	Analytical Method: EPA 5030/8015 Mod.							
Gasoline Range Organics	ND	mg/L	0.20	1		08/20/12 23:13		
Surrogates								
4-Bromofluorobenzene (S)	96	%.	45-130	1		08/20/12 23:13	460-00-4	
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	10.5	1	08/20/12 10:54	08/20/12 15:38	83-32-9	
Acenaphthylene	ND	ug/L	10.5	1	08/20/12 10:54	08/20/12 15:38	208-96-8	
Anthracene	ND	ug/L	10.5	1	08/20/12 10:54	08/20/12 15:38	120-12-7	
Benzo(a)anthracene	ND	ug/L	10.5	1	08/20/12 10:54	08/20/12 15:38	56-55-3	
Benzo(a)pyrene	ND	ug/L	10.5	1	08/20/12 10:54	08/20/12 15:38	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	10.5	1	08/20/12 10:54	08/20/12 15:38	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	10.5	1	08/20/12 10:54	08/20/12 15:38	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	10.5	1	08/20/12 10:54	08/20/12 15:38	207-08-9	
Benzyl alcohol	ND	ug/L	21.1	1	08/20/12 10:54	08/20/12 15:38	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	10.5	1	08/20/12 10:54	08/20/12 15:38	101-55-3	
Butylbenzylphthalate	ND	ug/L	10.5	1	08/20/12 10:54	08/20/12 15:38	85-68-7	
4-Chloro-3-methylphenol	ND	ug/L	21.1	1	08/20/12 10:54	08/20/12 15:38	59-50-7	
4-Chloroaniline	ND	ug/L	21.1	1	08/20/12 10:54	08/20/12 15:38	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	10.5	1	08/20/12 10:54	08/20/12 15:38	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.5	1	08/20/12 10:54	08/20/12 15:38	111-44-4	
bis(2chloro1methylethyl) ether	ND	ug/L	5.3	1	08/20/12 10:54	08/20/12 15:38	108-60-1	
2-Chloronaphthalene	ND	ug/L	10.5	1	08/20/12 10:54	08/20/12 15:38	91-58-7	
2-Chlorophenol	ND	ug/L	10.5	1	08/20/12 10:54	08/20/12 15:38	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	10.5	1	08/20/12 10:54	08/20/12 15:38	7005-72-3	
Chrysene	ND	ug/L	10.5	1	08/20/12 10:54	08/20/12 15:38	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	10.5	1	08/20/12 10:54	08/20/12 15:38	53-70-3	
Dibenzofuran	ND	ug/L	10.5	1	08/20/12 10:54	08/20/12 15:38	132-64-9	
3,3'-Dichlorobenzidine	ND	ug/L	21.1	1	08/20/12 10:54	08/20/12 15:38	91-94-1	
2,4-Dichlorophenol	ND	ug/L	10.5	1	08/20/12 10:54	08/20/12 15:38	120-83-2	
Diethylphthalate	ND	ug/L	10.5	1	08/20/12 10:54	08/20/12 15:38	84-66-2	
2,4-Dimethylphenol	ND	ug/L	10.5	1	08/20/12 10:54	08/20/12 15:38	105-67-9	
Dimethylphthalate	ND	ug/L	10.5	1	08/20/12 10:54	08/20/12 15:38	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.5	1	08/20/12 10:54	08/20/12 15:38	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	52.6	1	08/20/12 10:54	08/20/12 15:38	534-52-1	
2,4-Dinitrophenol	ND	ug/L	52.6	1	08/20/12 10:54	08/20/12 15:38	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	10.5	1	08/20/12 10:54	08/20/12 15:38	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.5	1	08/20/12 10:54	08/20/12 15:38	606-20-2	
Di-n-octylphthalate	ND	ug/L	10.5	1	08/20/12 10:54	08/20/12 15:38	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	5.3	1	08/20/12 10:54	08/20/12 15:38	117-81-7	
Fluoranthene	ND	ug/L	10.5	1	08/20/12 10:54	08/20/12 15:38	206-44-0	
Fluorene	ND	ug/L	10.5	1	08/20/12 10:54	08/20/12 15:38	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	5.3	1	08/20/12 10:54	08/20/12 15:38	87-68-3	

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ANALYTICAL RESULTS

Project: Carpenter Manufacturing
Pace Project No.: 5067678

Sample: P-11 **Lab ID: 5067678014** Collected: 08/16/12 12:15 Received: 08/16/12 15:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Hexachlorobenzene	ND	ug/L	10.5	1	08/20/12 10:54	08/20/12 15:38	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	21.1	1	08/20/12 10:54	08/20/12 15:38	77-47-4	
Hexachloroethane	ND	ug/L	10.5	1	08/20/12 10:54	08/20/12 15:38	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	10.5	1	08/20/12 10:54	08/20/12 15:38	193-39-5	
Isophorone	ND	ug/L	10.5	1	08/20/12 10:54	08/20/12 15:38	78-59-1	
2-Methylnaphthalene	ND	ug/L	10.5	1	08/20/12 10:54	08/20/12 15:38	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	10.5	1	08/20/12 10:54	08/20/12 15:38	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	21.1	1	08/20/12 10:54	08/20/12 15:38		
Naphthalene	ND	ug/L	5.3	1	08/20/12 10:54	08/20/12 15:38	91-20-3	
2-Nitroaniline	ND	ug/L	52.6	1	08/20/12 10:54	08/20/12 15:38	88-74-4	
3-Nitroaniline	ND	ug/L	52.6	1	08/20/12 10:54	08/20/12 15:38	99-09-2	
4-Nitroaniline	ND	ug/L	52.6	1	08/20/12 10:54	08/20/12 15:38	100-01-6	
Nitrobenzene	ND	ug/L	10.5	1	08/20/12 10:54	08/20/12 15:38	98-95-3	
2-Nitrophenol	ND	ug/L	10.5	1	08/20/12 10:54	08/20/12 15:38	88-75-5	
4-Nitrophenol	ND	ug/L	52.6	1	08/20/12 10:54	08/20/12 15:38	100-02-7	
N-Nitroso-di-n-propylamine	ND	ug/L	10.5	1	08/20/12 10:54	08/20/12 15:38	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	10.5	1	08/20/12 10:54	08/20/12 15:38	86-30-6	
Pentachlorophenol	ND	ug/L	52.6	1	08/20/12 10:54	08/20/12 15:38	87-86-5	
Phenanthrene	ND	ug/L	10.5	1	08/20/12 10:54	08/20/12 15:38	85-01-8	
Phenol	ND	ug/L	10.5	1	08/20/12 10:54	08/20/12 15:38	108-95-2	
Pyrene	ND	ug/L	10.5	1	08/20/12 10:54	08/20/12 15:38	129-00-0	
2,4,5-Trichlorophenol	ND	ug/L	10.5	1	08/20/12 10:54	08/20/12 15:38	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.5	1	08/20/12 10:54	08/20/12 15:38	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	90	%.	33-108	1	08/20/12 10:54	08/20/12 15:38	4165-60-0	
2-Fluorobiphenyl (S)	88	%.	34-106	1	08/20/12 10:54	08/20/12 15:38	321-60-8	
p-Terphenyl-d14 (S)	79	%.	31-122	1	08/20/12 10:54	08/20/12 15:38	1718-51-0	
Phenol-d5 (S)	27	%.	10-56	1	08/20/12 10:54	08/20/12 15:38	4165-62-2	
2-Fluorophenol (S)	45	%.	10-74	1	08/20/12 10:54	08/20/12 15:38	367-12-4	
2,4,6-Tribromophenol (S)	100	%.	32-124	1	08/20/12 10:54	08/20/12 15:38	118-79-6	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		08/17/12 21:16	67-64-1	
Acrolein	ND	ug/L	50.0	1		08/17/12 21:16	107-02-8	
Acrylonitrile	ND	ug/L	100	1		08/17/12 21:16	107-13-1	
Benzene	ND	ug/L	5.0	1		08/17/12 21:16	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		08/17/12 21:16	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		08/17/12 21:16	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		08/17/12 21:16	75-27-4	
Bromoform	ND	ug/L	5.0	1		08/17/12 21:16	75-25-2	
Bromomethane	ND	ug/L	5.0	1		08/17/12 21:16	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		08/17/12 21:16	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		08/17/12 21:16	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		08/17/12 21:16	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		08/17/12 21:16	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		08/17/12 21:16	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		08/17/12 21:16	56-23-5	

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ANALYTICAL RESULTS

Project: Carpenter Manufacturing
Pace Project No.: 5067678

Sample: P-11 **Lab ID: 5067678014** Collected: 08/16/12 12:15 Received: 08/16/12 15:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Chlorobenzene	ND	ug/L	5.0	1		08/17/12 21:16	108-90-7	
Chloroethane	ND	ug/L	5.0	1		08/17/12 21:16	75-00-3	
Chloroform	ND	ug/L	5.0	1		08/17/12 21:16	67-66-3	
Chloromethane	ND	ug/L	5.0	1		08/17/12 21:16	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		08/17/12 21:16	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		08/17/12 21:16	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		08/17/12 21:16	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		08/17/12 21:16	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		08/17/12 21:16	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		08/17/12 21:16	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		08/17/12 21:16	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		08/17/12 21:16	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		08/17/12 21:16	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		08/17/12 21:16	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		08/17/12 21:16	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		08/17/12 21:16	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		08/17/12 21:16	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		08/17/12 21:16	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		08/17/12 21:16	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		08/17/12 21:16	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		08/17/12 21:16	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		08/17/12 21:16	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		08/17/12 21:16	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		08/17/12 21:16	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		08/17/12 21:16	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		08/17/12 21:16	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		08/17/12 21:16	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		08/17/12 21:16	87-68-3	
n-Hexane	ND	ug/L	5.0	1		08/17/12 21:16	110-54-3	N2
2-Hexanone	ND	ug/L	25.0	1		08/17/12 21:16	591-78-6	
Iodomethane	ND	ug/L	10.0	1		08/17/12 21:16	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		08/17/12 21:16	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		08/17/12 21:16	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		08/17/12 21:16	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		08/17/12 21:16	108-10-1	
Methyl-tert-butyl ether	**7.0**	ug/L	4.0	1		08/17/12 21:16	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		08/17/12 21:16	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		08/17/12 21:16	103-65-1	
Styrene	ND	ug/L	5.0	1		08/17/12 21:16	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		08/17/12 21:16	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		08/17/12 21:16	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		08/17/12 21:16	127-18-4	
Toluene	ND	ug/L	5.0	1		08/17/12 21:16	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		08/17/12 21:16	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		08/17/12 21:16	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		08/17/12 21:16	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		08/17/12 21:16	79-00-5	

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ANALYTICAL RESULTS

Project: Carpenter Manufacturing
Pace Project No.: 5067678

Sample: P-11 **Lab ID: 5067678014** Collected: 08/16/12 12:15 Received: 08/16/12 15:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Trichloroethene	ND	ug/L	5.0	1		08/17/12 21:16	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		08/17/12 21:16	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		08/17/12 21:16	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		08/17/12 21:16	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		08/17/12 21:16	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		08/17/12 21:16	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		08/17/12 21:16	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		08/17/12 21:16	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	97	%.	83-123	1		08/17/12 21:16	1868-53-7	
4-Bromofluorobenzene (S)	98	%.	72-125	1		08/17/12 21:16	460-00-4	
Toluene-d8 (S)	99	%.	81-114	1		08/17/12 21:16	2037-26-5	

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ANALYTICAL RESULTS

Project: Carpenter Manufacturing
Pace Project No.: 5067678

Sample: P-10 **Lab ID: 5067678015** Collected: 08/16/12 13:10 Received: 08/16/12 15:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel	Analytical Method: EPA 8015B Modified Preparation Method: EPA 3510							
Diesel Range Organics (C8-C28)	**0.17**	mg/L	0.10	1	08/17/12 14:23	08/17/12 17:39		
Surrogates								
n-Pentacosane (S)	37	%.	20-108	1	08/17/12 14:23	08/17/12 17:39	629-99-2	
Gasoline Range Organics	Analytical Method: EPA 5030/8015 Mod.							
Gasoline Range Organics	ND	mg/L	0.20	1		08/20/12 23:36		
Surrogates								
4-Bromofluorobenzene (S)	89	%.	45-130	1		08/20/12 23:36	460-00-4	
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	10.5	1	08/20/12 10:54	08/20/12 15:59	83-32-9	
Acenaphthylene	ND	ug/L	10.5	1	08/20/12 10:54	08/20/12 15:59	208-96-8	
Anthracene	ND	ug/L	10.5	1	08/20/12 10:54	08/20/12 15:59	120-12-7	
Benzo(a)anthracene	ND	ug/L	10.5	1	08/20/12 10:54	08/20/12 15:59	56-55-3	
Benzo(a)pyrene	ND	ug/L	10.5	1	08/20/12 10:54	08/20/12 15:59	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	10.5	1	08/20/12 10:54	08/20/12 15:59	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	10.5	1	08/20/12 10:54	08/20/12 15:59	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	10.5	1	08/20/12 10:54	08/20/12 15:59	207-08-9	
Benzyl alcohol	ND	ug/L	21.1	1	08/20/12 10:54	08/20/12 15:59	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	10.5	1	08/20/12 10:54	08/20/12 15:59	101-55-3	
Butylbenzylphthalate	ND	ug/L	10.5	1	08/20/12 10:54	08/20/12 15:59	85-68-7	
4-Chloro-3-methylphenol	ND	ug/L	21.1	1	08/20/12 10:54	08/20/12 15:59	59-50-7	
4-Chloroaniline	ND	ug/L	21.1	1	08/20/12 10:54	08/20/12 15:59	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	10.5	1	08/20/12 10:54	08/20/12 15:59	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.5	1	08/20/12 10:54	08/20/12 15:59	111-44-4	
bis(2chloro1methylethyl) ether	ND	ug/L	5.3	1	08/20/12 10:54	08/20/12 15:59	108-60-1	
2-Chloronaphthalene	ND	ug/L	10.5	1	08/20/12 10:54	08/20/12 15:59	91-58-7	
2-Chlorophenol	ND	ug/L	10.5	1	08/20/12 10:54	08/20/12 15:59	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	10.5	1	08/20/12 10:54	08/20/12 15:59	7005-72-3	
Chrysene	ND	ug/L	10.5	1	08/20/12 10:54	08/20/12 15:59	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	10.5	1	08/20/12 10:54	08/20/12 15:59	53-70-3	
Dibenzofuran	ND	ug/L	10.5	1	08/20/12 10:54	08/20/12 15:59	132-64-9	
3,3'-Dichlorobenzidine	ND	ug/L	21.1	1	08/20/12 10:54	08/20/12 15:59	91-94-1	
2,4-Dichlorophenol	ND	ug/L	10.5	1	08/20/12 10:54	08/20/12 15:59	120-83-2	
Diethylphthalate	ND	ug/L	10.5	1	08/20/12 10:54	08/20/12 15:59	84-66-2	
2,4-Dimethylphenol	ND	ug/L	10.5	1	08/20/12 10:54	08/20/12 15:59	105-67-9	
Dimethylphthalate	ND	ug/L	10.5	1	08/20/12 10:54	08/20/12 15:59	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.5	1	08/20/12 10:54	08/20/12 15:59	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	52.6	1	08/20/12 10:54	08/20/12 15:59	534-52-1	
2,4-Dinitrophenol	ND	ug/L	52.6	1	08/20/12 10:54	08/20/12 15:59	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	10.5	1	08/20/12 10:54	08/20/12 15:59	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.5	1	08/20/12 10:54	08/20/12 15:59	606-20-2	
Di-n-octylphthalate	ND	ug/L	10.5	1	08/20/12 10:54	08/20/12 15:59	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	5.3	1	08/20/12 10:54	08/20/12 15:59	117-81-7	
Fluoranthene	ND	ug/L	10.5	1	08/20/12 10:54	08/20/12 15:59	206-44-0	
Fluorene	ND	ug/L	10.5	1	08/20/12 10:54	08/20/12 15:59	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	5.3	1	08/20/12 10:54	08/20/12 15:59	87-68-3	

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ANALYTICAL RESULTS

Project: Carpenter Manufacturing
Pace Project No.: 5067678

Sample: P-10 **Lab ID: 5067678015** Collected: 08/16/12 13:10 Received: 08/16/12 15:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Hexachlorobenzene	ND	ug/L	10.5	1	08/20/12 10:54	08/20/12 15:59	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	21.1	1	08/20/12 10:54	08/20/12 15:59	77-47-4	
Hexachloroethane	ND	ug/L	10.5	1	08/20/12 10:54	08/20/12 15:59	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	10.5	1	08/20/12 10:54	08/20/12 15:59	193-39-5	
Isophorone	ND	ug/L	10.5	1	08/20/12 10:54	08/20/12 15:59	78-59-1	
2-Methylnaphthalene	ND	ug/L	10.5	1	08/20/12 10:54	08/20/12 15:59	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	10.5	1	08/20/12 10:54	08/20/12 15:59	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	21.1	1	08/20/12 10:54	08/20/12 15:59		
Naphthalene	ND	ug/L	5.3	1	08/20/12 10:54	08/20/12 15:59	91-20-3	
2-Nitroaniline	ND	ug/L	52.6	1	08/20/12 10:54	08/20/12 15:59	88-74-4	
3-Nitroaniline	ND	ug/L	52.6	1	08/20/12 10:54	08/20/12 15:59	99-09-2	
4-Nitroaniline	ND	ug/L	52.6	1	08/20/12 10:54	08/20/12 15:59	100-01-6	
Nitrobenzene	ND	ug/L	10.5	1	08/20/12 10:54	08/20/12 15:59	98-95-3	
2-Nitrophenol	ND	ug/L	10.5	1	08/20/12 10:54	08/20/12 15:59	88-75-5	
4-Nitrophenol	ND	ug/L	52.6	1	08/20/12 10:54	08/20/12 15:59	100-02-7	
N-Nitroso-di-n-propylamine	ND	ug/L	10.5	1	08/20/12 10:54	08/20/12 15:59	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	10.5	1	08/20/12 10:54	08/20/12 15:59	86-30-6	
Pentachlorophenol	ND	ug/L	52.6	1	08/20/12 10:54	08/20/12 15:59	87-86-5	
Phenanthrene	ND	ug/L	10.5	1	08/20/12 10:54	08/20/12 15:59	85-01-8	
Phenol	ND	ug/L	10.5	1	08/20/12 10:54	08/20/12 15:59	108-95-2	
Pyrene	ND	ug/L	10.5	1	08/20/12 10:54	08/20/12 15:59	129-00-0	
2,4,5-Trichlorophenol	ND	ug/L	10.5	1	08/20/12 10:54	08/20/12 15:59	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.5	1	08/20/12 10:54	08/20/12 15:59	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	84	%.	33-108	1	08/20/12 10:54	08/20/12 15:59	4165-60-0	
2-Fluorobiphenyl (S)	91	%.	34-106	1	08/20/12 10:54	08/20/12 15:59	321-60-8	
p-Terphenyl-d14 (S)	82	%.	31-122	1	08/20/12 10:54	08/20/12 15:59	1718-51-0	
Phenol-d5 (S)	24	%.	10-56	1	08/20/12 10:54	08/20/12 15:59	4165-62-2	
2-Fluorophenol (S)	42	%.	10-74	1	08/20/12 10:54	08/20/12 15:59	367-12-4	
2,4,6-Tribromophenol (S)	94	%.	32-124	1	08/20/12 10:54	08/20/12 15:59	118-79-6	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		08/17/12 21:49	67-64-1	
Acrolein	ND	ug/L	50.0	1		08/17/12 21:49	107-02-8	
Acrylonitrile	ND	ug/L	100	1		08/17/12 21:49	107-13-1	
Benzene	ND	ug/L	5.0	1		08/17/12 21:49	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		08/17/12 21:49	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		08/17/12 21:49	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		08/17/12 21:49	75-27-4	
Bromoform	ND	ug/L	5.0	1		08/17/12 21:49	75-25-2	
Bromomethane	ND	ug/L	5.0	1		08/17/12 21:49	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		08/17/12 21:49	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		08/17/12 21:49	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		08/17/12 21:49	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		08/17/12 21:49	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		08/17/12 21:49	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		08/17/12 21:49	56-23-5	

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ANALYTICAL RESULTS

Project: Carpenter Manufacturing
Pace Project No.: 5067678

Sample: P-10 **Lab ID: 5067678015** Collected: 08/16/12 13:10 Received: 08/16/12 15:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Chlorobenzene	ND	ug/L	5.0	1		08/17/12 21:49	108-90-7	
Chloroethane	ND	ug/L	5.0	1		08/17/12 21:49	75-00-3	
Chloroform	ND	ug/L	5.0	1		08/17/12 21:49	67-66-3	
Chloromethane	ND	ug/L	5.0	1		08/17/12 21:49	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		08/17/12 21:49	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		08/17/12 21:49	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		08/17/12 21:49	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		08/17/12 21:49	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		08/17/12 21:49	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		08/17/12 21:49	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		08/17/12 21:49	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		08/17/12 21:49	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		08/17/12 21:49	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		08/17/12 21:49	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		08/17/12 21:49	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		08/17/12 21:49	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		08/17/12 21:49	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		08/17/12 21:49	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		08/17/12 21:49	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		08/17/12 21:49	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		08/17/12 21:49	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		08/17/12 21:49	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		08/17/12 21:49	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		08/17/12 21:49	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		08/17/12 21:49	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		08/17/12 21:49	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		08/17/12 21:49	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		08/17/12 21:49	87-68-3	
n-Hexane	ND	ug/L	5.0	1		08/17/12 21:49	110-54-3	N2
2-Hexanone	ND	ug/L	25.0	1		08/17/12 21:49	591-78-6	
Iodomethane	ND	ug/L	10.0	1		08/17/12 21:49	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		08/17/12 21:49	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		08/17/12 21:49	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		08/17/12 21:49	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		08/17/12 21:49	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		08/17/12 21:49	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		08/17/12 21:49	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		08/17/12 21:49	103-65-1	
Styrene	ND	ug/L	5.0	1		08/17/12 21:49	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		08/17/12 21:49	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		08/17/12 21:49	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		08/17/12 21:49	127-18-4	
Toluene	ND	ug/L	5.0	1		08/17/12 21:49	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		08/17/12 21:49	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		08/17/12 21:49	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		08/17/12 21:49	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		08/17/12 21:49	79-00-5	

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ANALYTICAL RESULTS

Project: Carpenter Manufacturing
Pace Project No.: 5067678

Sample: P-10 **Lab ID: 5067678015** Collected: 08/16/12 13:10 Received: 08/16/12 15:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Trichloroethene	ND	ug/L	5.0	1		08/17/12 21:49	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		08/17/12 21:49	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		08/17/12 21:49	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		08/17/12 21:49	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		08/17/12 21:49	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		08/17/12 21:49	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		08/17/12 21:49	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		08/17/12 21:49	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	97	%.	83-123	1		08/17/12 21:49	1868-53-7	
4-Bromofluorobenzene (S)	98	%.	72-125	1		08/17/12 21:49	460-00-4	
Toluene-d8 (S)	97	%.	81-114	1		08/17/12 21:49	2037-26-5	

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ANALYTICAL RESULTS

Project: Carpenter Manufacturing
Pace Project No.: 5067678

Sample: P-9 **Lab ID: 5067678016** Collected: 08/16/12 14:15 Received: 08/16/12 15:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel	Analytical Method: EPA 8015B Modified Preparation Method: EPA 3510							
Diesel Range Organics (C8-C28)	ND	mg/L	0.10	1	08/17/12 14:23	08/17/12 18:00		
Surrogates								
n-Pentacosane (S)	49	%.	20-108	1	08/17/12 14:23	08/17/12 18:00	629-99-2	
Gasoline Range Organics	Analytical Method: EPA 5030/8015 Mod.							
Gasoline Range Organics	ND	mg/L	0.20	1		08/21/12 00:45		
Surrogates								
4-Bromofluorobenzene (S)	89	%.	45-130	1		08/21/12 00:45	460-00-4	
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	10.3	1	08/20/12 10:54	08/20/12 16:39	83-32-9	
Acenaphthylene	ND	ug/L	10.3	1	08/20/12 10:54	08/20/12 16:39	208-96-8	
Anthracene	ND	ug/L	10.3	1	08/20/12 10:54	08/20/12 16:39	120-12-7	
Benzo(a)anthracene	ND	ug/L	10.3	1	08/20/12 10:54	08/20/12 16:39	56-55-3	
Benzo(a)pyrene	ND	ug/L	10.3	1	08/20/12 10:54	08/20/12 16:39	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	10.3	1	08/20/12 10:54	08/20/12 16:39	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	10.3	1	08/20/12 10:54	08/20/12 16:39	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	10.3	1	08/20/12 10:54	08/20/12 16:39	207-08-9	
Benzyl alcohol	ND	ug/L	20.6	1	08/20/12 10:54	08/20/12 16:39	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	10.3	1	08/20/12 10:54	08/20/12 16:39	101-55-3	
Butylbenzylphthalate	ND	ug/L	10.3	1	08/20/12 10:54	08/20/12 16:39	85-68-7	
4-Chloro-3-methylphenol	ND	ug/L	20.6	1	08/20/12 10:54	08/20/12 16:39	59-50-7	
4-Chloroaniline	ND	ug/L	20.6	1	08/20/12 10:54	08/20/12 16:39	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	10.3	1	08/20/12 10:54	08/20/12 16:39	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.3	1	08/20/12 10:54	08/20/12 16:39	111-44-4	
bis(2chloro1methylethyl) ether	ND	ug/L	5.2	1	08/20/12 10:54	08/20/12 16:39	108-60-1	
2-Chloronaphthalene	ND	ug/L	10.3	1	08/20/12 10:54	08/20/12 16:39	91-58-7	
2-Chlorophenol	ND	ug/L	10.3	1	08/20/12 10:54	08/20/12 16:39	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	10.3	1	08/20/12 10:54	08/20/12 16:39	7005-72-3	
Chrysene	ND	ug/L	10.3	1	08/20/12 10:54	08/20/12 16:39	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	10.3	1	08/20/12 10:54	08/20/12 16:39	53-70-3	
Dibenzofuran	ND	ug/L	10.3	1	08/20/12 10:54	08/20/12 16:39	132-64-9	
3,3'-Dichlorobenzidine	ND	ug/L	20.6	1	08/20/12 10:54	08/20/12 16:39	91-94-1	
2,4-Dichlorophenol	ND	ug/L	10.3	1	08/20/12 10:54	08/20/12 16:39	120-83-2	
Diethylphthalate	ND	ug/L	10.3	1	08/20/12 10:54	08/20/12 16:39	84-66-2	
2,4-Dimethylphenol	ND	ug/L	10.3	1	08/20/12 10:54	08/20/12 16:39	105-67-9	
Dimethylphthalate	ND	ug/L	10.3	1	08/20/12 10:54	08/20/12 16:39	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.3	1	08/20/12 10:54	08/20/12 16:39	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	51.5	1	08/20/12 10:54	08/20/12 16:39	534-52-1	
2,4-Dinitrophenol	ND	ug/L	51.5	1	08/20/12 10:54	08/20/12 16:39	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	10.3	1	08/20/12 10:54	08/20/12 16:39	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.3	1	08/20/12 10:54	08/20/12 16:39	606-20-2	
Di-n-octylphthalate	ND	ug/L	10.3	1	08/20/12 10:54	08/20/12 16:39	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	5.2	1	08/20/12 10:54	08/20/12 16:39	117-81-7	
Fluoranthene	ND	ug/L	10.3	1	08/20/12 10:54	08/20/12 16:39	206-44-0	
Fluorene	ND	ug/L	10.3	1	08/20/12 10:54	08/20/12 16:39	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	5.2	1	08/20/12 10:54	08/20/12 16:39	87-68-3	

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ANALYTICAL RESULTS

Project: Carpenter Manufacturing
Pace Project No.: 5067678

Sample: P-9 **Lab ID: 5067678016** Collected: 08/16/12 14:15 Received: 08/16/12 15:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Hexachlorobenzene	ND	ug/L	10.3	1	08/20/12 10:54	08/20/12 16:39	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	20.6	1	08/20/12 10:54	08/20/12 16:39	77-47-4	
Hexachloroethane	ND	ug/L	10.3	1	08/20/12 10:54	08/20/12 16:39	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	10.3	1	08/20/12 10:54	08/20/12 16:39	193-39-5	
Isophorone	ND	ug/L	10.3	1	08/20/12 10:54	08/20/12 16:39	78-59-1	
2-Methylnaphthalene	ND	ug/L	10.3	1	08/20/12 10:54	08/20/12 16:39	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	10.3	1	08/20/12 10:54	08/20/12 16:39	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	20.6	1	08/20/12 10:54	08/20/12 16:39		
Naphthalene	ND	ug/L	5.2	1	08/20/12 10:54	08/20/12 16:39	91-20-3	
2-Nitroaniline	ND	ug/L	51.5	1	08/20/12 10:54	08/20/12 16:39	88-74-4	
3-Nitroaniline	ND	ug/L	51.5	1	08/20/12 10:54	08/20/12 16:39	99-09-2	
4-Nitroaniline	ND	ug/L	51.5	1	08/20/12 10:54	08/20/12 16:39	100-01-6	
Nitrobenzene	ND	ug/L	10.3	1	08/20/12 10:54	08/20/12 16:39	98-95-3	
2-Nitrophenol	ND	ug/L	10.3	1	08/20/12 10:54	08/20/12 16:39	88-75-5	
4-Nitrophenol	ND	ug/L	51.5	1	08/20/12 10:54	08/20/12 16:39	100-02-7	
N-Nitroso-di-n-propylamine	ND	ug/L	10.3	1	08/20/12 10:54	08/20/12 16:39	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	10.3	1	08/20/12 10:54	08/20/12 16:39	86-30-6	
Pentachlorophenol	ND	ug/L	51.5	1	08/20/12 10:54	08/20/12 16:39	87-86-5	
Phenanthrene	ND	ug/L	10.3	1	08/20/12 10:54	08/20/12 16:39	85-01-8	
Phenol	ND	ug/L	10.3	1	08/20/12 10:54	08/20/12 16:39	108-95-2	
Pyrene	ND	ug/L	10.3	1	08/20/12 10:54	08/20/12 16:39	129-00-0	
2,4,5-Trichlorophenol	ND	ug/L	10.3	1	08/20/12 10:54	08/20/12 16:39	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.3	1	08/20/12 10:54	08/20/12 16:39	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	79	%.	33-108	1	08/20/12 10:54	08/20/12 16:39	4165-60-0	
2-Fluorobiphenyl (S)	80	%.	34-106	1	08/20/12 10:54	08/20/12 16:39	321-60-8	
p-Terphenyl-d14 (S)	79	%.	31-122	1	08/20/12 10:54	08/20/12 16:39	1718-51-0	
Phenol-d5 (S)	20	%.	10-56	1	08/20/12 10:54	08/20/12 16:39	4165-62-2	
2-Fluorophenol (S)	36	%.	10-74	1	08/20/12 10:54	08/20/12 16:39	367-12-4	
2,4,6-Tribromophenol (S)	93	%.	32-124	1	08/20/12 10:54	08/20/12 16:39	118-79-6	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		08/17/12 23:26	67-64-1	
Acrolein	ND	ug/L	50.0	1		08/17/12 23:26	107-02-8	
Acrylonitrile	ND	ug/L	100	1		08/17/12 23:26	107-13-1	
Benzene	ND	ug/L	5.0	1		08/17/12 23:26	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		08/17/12 23:26	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		08/17/12 23:26	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		08/17/12 23:26	75-27-4	
Bromoform	ND	ug/L	5.0	1		08/17/12 23:26	75-25-2	
Bromomethane	ND	ug/L	5.0	1		08/17/12 23:26	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		08/17/12 23:26	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		08/17/12 23:26	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		08/17/12 23:26	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		08/17/12 23:26	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		08/17/12 23:26	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		08/17/12 23:26	56-23-5	

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ANALYTICAL RESULTS

Project: Carpenter Manufacturing
Pace Project No.: 5067678

Sample: P-9 **Lab ID: 5067678016** Collected: 08/16/12 14:15 Received: 08/16/12 15:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Chlorobenzene	ND	ug/L	5.0	1		08/17/12 23:26	108-90-7	
Chloroethane	ND	ug/L	5.0	1		08/17/12 23:26	75-00-3	
Chloroform	ND	ug/L	5.0	1		08/17/12 23:26	67-66-3	
Chloromethane	ND	ug/L	5.0	1		08/17/12 23:26	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		08/17/12 23:26	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		08/17/12 23:26	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		08/17/12 23:26	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		08/17/12 23:26	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		08/17/12 23:26	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		08/17/12 23:26	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		08/17/12 23:26	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		08/17/12 23:26	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		08/17/12 23:26	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		08/17/12 23:26	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		08/17/12 23:26	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		08/17/12 23:26	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		08/17/12 23:26	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		08/17/12 23:26	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		08/17/12 23:26	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		08/17/12 23:26	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		08/17/12 23:26	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		08/17/12 23:26	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		08/17/12 23:26	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		08/17/12 23:26	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		08/17/12 23:26	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		08/17/12 23:26	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		08/17/12 23:26	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		08/17/12 23:26	87-68-3	
n-Hexane	ND	ug/L	5.0	1		08/17/12 23:26	110-54-3	N2
2-Hexanone	ND	ug/L	25.0	1		08/17/12 23:26	591-78-6	
Iodomethane	ND	ug/L	10.0	1		08/17/12 23:26	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		08/17/12 23:26	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		08/17/12 23:26	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		08/17/12 23:26	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		08/17/12 23:26	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		08/17/12 23:26	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		08/17/12 23:26	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		08/17/12 23:26	103-65-1	
Styrene	ND	ug/L	5.0	1		08/17/12 23:26	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		08/17/12 23:26	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		08/17/12 23:26	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		08/17/12 23:26	127-18-4	
Toluene	ND	ug/L	5.0	1		08/17/12 23:26	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		08/17/12 23:26	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		08/17/12 23:26	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		08/17/12 23:26	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		08/17/12 23:26	79-00-5	

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ANALYTICAL RESULTS

Project: Carpenter Manufacturing
Pace Project No.: 5067678

Sample: P-9 **Lab ID: 5067678016** Collected: 08/16/12 14:15 Received: 08/16/12 15:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Trichloroethene	ND	ug/L	5.0	1		08/17/12 23:26	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		08/17/12 23:26	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		08/17/12 23:26	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		08/17/12 23:26	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		08/17/12 23:26	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		08/17/12 23:26	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		08/17/12 23:26	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		08/17/12 23:26	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	97	%.	83-123	1		08/17/12 23:26	1868-53-7	
4-Bromofluorobenzene (S)	97	%.	72-125	1		08/17/12 23:26	460-00-4	
Toluene-d8 (S)	98	%.	81-114	1		08/17/12 23:26	2037-26-5	

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ANALYTICAL RESULTS

Project: Carpenter Manufacturing
Pace Project No.: 5067678

Sample: Dup-2 **Lab ID: 5067678017** Collected: 08/16/12 08:00 Received: 08/16/12 15:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel	Analytical Method: EPA 8015B Modified Preparation Method: EPA 3510							
Diesel Range Organics (C8-C28)	ND	mg/L	0.11	1	08/17/12 14:23	08/17/12 18:06		
Surrogates								
n-Pentacosane (S)	43	%.	20-108	1	08/17/12 14:23	08/17/12 18:06	629-99-2	
Gasoline Range Organics	Analytical Method: EPA 5030/8015 Mod.							
Gasoline Range Organics	ND	mg/L	0.20	1		08/21/12 01:08		
Surrogates								
4-Bromofluorobenzene (S)	88	%.	45-130	1		08/21/12 01:08	460-00-4	
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	10.2	1	08/20/12 10:54	08/20/12 17:00	83-32-9	
Acenaphthylene	ND	ug/L	10.2	1	08/20/12 10:54	08/20/12 17:00	208-96-8	
Anthracene	ND	ug/L	10.2	1	08/20/12 10:54	08/20/12 17:00	120-12-7	
Benzo(a)anthracene	ND	ug/L	10.2	1	08/20/12 10:54	08/20/12 17:00	56-55-3	
Benzo(a)pyrene	ND	ug/L	10.2	1	08/20/12 10:54	08/20/12 17:00	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	10.2	1	08/20/12 10:54	08/20/12 17:00	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	10.2	1	08/20/12 10:54	08/20/12 17:00	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	10.2	1	08/20/12 10:54	08/20/12 17:00	207-08-9	
Benzyl alcohol	ND	ug/L	20.4	1	08/20/12 10:54	08/20/12 17:00	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	10.2	1	08/20/12 10:54	08/20/12 17:00	101-55-3	
Butylbenzylphthalate	ND	ug/L	10.2	1	08/20/12 10:54	08/20/12 17:00	85-68-7	
4-Chloro-3-methylphenol	ND	ug/L	20.4	1	08/20/12 10:54	08/20/12 17:00	59-50-7	
4-Chloroaniline	ND	ug/L	20.4	1	08/20/12 10:54	08/20/12 17:00	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	10.2	1	08/20/12 10:54	08/20/12 17:00	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.2	1	08/20/12 10:54	08/20/12 17:00	111-44-4	
bis(2chloro1methylethyl) ether	ND	ug/L	5.1	1	08/20/12 10:54	08/20/12 17:00	108-60-1	
2-Chloronaphthalene	ND	ug/L	10.2	1	08/20/12 10:54	08/20/12 17:00	91-58-7	
2-Chlorophenol	ND	ug/L	10.2	1	08/20/12 10:54	08/20/12 17:00	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	10.2	1	08/20/12 10:54	08/20/12 17:00	7005-72-3	
Chrysene	ND	ug/L	10.2	1	08/20/12 10:54	08/20/12 17:00	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	10.2	1	08/20/12 10:54	08/20/12 17:00	53-70-3	
Dibenzofuran	ND	ug/L	10.2	1	08/20/12 10:54	08/20/12 17:00	132-64-9	
3,3'-Dichlorobenzidine	ND	ug/L	20.4	1	08/20/12 10:54	08/20/12 17:00	91-94-1	
2,4-Dichlorophenol	ND	ug/L	10.2	1	08/20/12 10:54	08/20/12 17:00	120-83-2	
Diethylphthalate	ND	ug/L	10.2	1	08/20/12 10:54	08/20/12 17:00	84-66-2	
2,4-Dimethylphenol	ND	ug/L	10.2	1	08/20/12 10:54	08/20/12 17:00	105-67-9	
Dimethylphthalate	ND	ug/L	10.2	1	08/20/12 10:54	08/20/12 17:00	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.2	1	08/20/12 10:54	08/20/12 17:00	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	51.0	1	08/20/12 10:54	08/20/12 17:00	534-52-1	
2,4-Dinitrophenol	ND	ug/L	51.0	1	08/20/12 10:54	08/20/12 17:00	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	10.2	1	08/20/12 10:54	08/20/12 17:00	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.2	1	08/20/12 10:54	08/20/12 17:00	606-20-2	
Di-n-octylphthalate	ND	ug/L	10.2	1	08/20/12 10:54	08/20/12 17:00	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	5.1	1	08/20/12 10:54	08/20/12 17:00	117-81-7	
Fluoranthene	ND	ug/L	10.2	1	08/20/12 10:54	08/20/12 17:00	206-44-0	
Fluorene	ND	ug/L	10.2	1	08/20/12 10:54	08/20/12 17:00	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	5.1	1	08/20/12 10:54	08/20/12 17:00	87-68-3	

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ANALYTICAL RESULTS

Project: Carpenter Manufacturing
Pace Project No.: 5067678

Sample: Dup-2 **Lab ID: 5067678017** Collected: 08/16/12 08:00 Received: 08/16/12 15:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Hexachlorobenzene	ND	ug/L	10.2	1	08/20/12 10:54	08/20/12 17:00	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	20.4	1	08/20/12 10:54	08/20/12 17:00	77-47-4	
Hexachloroethane	ND	ug/L	10.2	1	08/20/12 10:54	08/20/12 17:00	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	10.2	1	08/20/12 10:54	08/20/12 17:00	193-39-5	
Isophorone	ND	ug/L	10.2	1	08/20/12 10:54	08/20/12 17:00	78-59-1	
2-Methylnaphthalene	ND	ug/L	10.2	1	08/20/12 10:54	08/20/12 17:00	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	10.2	1	08/20/12 10:54	08/20/12 17:00	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	20.4	1	08/20/12 10:54	08/20/12 17:00		
Naphthalene	ND	ug/L	5.1	1	08/20/12 10:54	08/20/12 17:00	91-20-3	
2-Nitroaniline	ND	ug/L	51.0	1	08/20/12 10:54	08/20/12 17:00	88-74-4	
3-Nitroaniline	ND	ug/L	51.0	1	08/20/12 10:54	08/20/12 17:00	99-09-2	
4-Nitroaniline	ND	ug/L	51.0	1	08/20/12 10:54	08/20/12 17:00	100-01-6	
Nitrobenzene	ND	ug/L	10.2	1	08/20/12 10:54	08/20/12 17:00	98-95-3	
2-Nitrophenol	ND	ug/L	10.2	1	08/20/12 10:54	08/20/12 17:00	88-75-5	
4-Nitrophenol	ND	ug/L	51.0	1	08/20/12 10:54	08/20/12 17:00	100-02-7	
N-Nitroso-di-n-propylamine	ND	ug/L	10.2	1	08/20/12 10:54	08/20/12 17:00	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	10.2	1	08/20/12 10:54	08/20/12 17:00	86-30-6	
Pentachlorophenol	ND	ug/L	51.0	1	08/20/12 10:54	08/20/12 17:00	87-86-5	
Phenanthrene	ND	ug/L	10.2	1	08/20/12 10:54	08/20/12 17:00	85-01-8	
Phenol	ND	ug/L	10.2	1	08/20/12 10:54	08/20/12 17:00	108-95-2	
Pyrene	ND	ug/L	10.2	1	08/20/12 10:54	08/20/12 17:00	129-00-0	
2,4,5-Trichlorophenol	ND	ug/L	10.2	1	08/20/12 10:54	08/20/12 17:00	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.2	1	08/20/12 10:54	08/20/12 17:00	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	69	%.	33-108	1	08/20/12 10:54	08/20/12 17:00	4165-60-0	
2-Fluorobiphenyl (S)	67	%.	34-106	1	08/20/12 10:54	08/20/12 17:00	321-60-8	
p-Terphenyl-d14 (S)	73	%.	31-122	1	08/20/12 10:54	08/20/12 17:00	1718-51-0	
Phenol-d5 (S)	19	%.	10-56	1	08/20/12 10:54	08/20/12 17:00	4165-62-2	
2-Fluorophenol (S)	34	%.	10-74	1	08/20/12 10:54	08/20/12 17:00	367-12-4	
2,4,6-Tribromophenol (S)	80	%.	32-124	1	08/20/12 10:54	08/20/12 17:00	118-79-6	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		08/18/12 02:07	67-64-1	
Acrolein	ND	ug/L	50.0	1		08/18/12 02:07	107-02-8	
Acrylonitrile	ND	ug/L	100	1		08/18/12 02:07	107-13-1	
Benzene	ND	ug/L	5.0	1		08/18/12 02:07	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		08/18/12 02:07	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		08/18/12 02:07	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		08/18/12 02:07	75-27-4	
Bromoform	ND	ug/L	5.0	1		08/18/12 02:07	75-25-2	
Bromomethane	ND	ug/L	5.0	1		08/18/12 02:07	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		08/18/12 02:07	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		08/18/12 02:07	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		08/18/12 02:07	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		08/18/12 02:07	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		08/18/12 02:07	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		08/18/12 02:07	56-23-5	

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ANALYTICAL RESULTS

Project: Carpenter Manufacturing
Pace Project No.: 5067678

Sample: Dup-2 **Lab ID: 5067678017** Collected: 08/16/12 08:00 Received: 08/16/12 15:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Chlorobenzene	ND	ug/L	5.0	1		08/18/12 02:07	108-90-7	
Chloroethane	ND	ug/L	5.0	1		08/18/12 02:07	75-00-3	
Chloroform	ND	ug/L	5.0	1		08/18/12 02:07	67-66-3	
Chloromethane	ND	ug/L	5.0	1		08/18/12 02:07	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		08/18/12 02:07	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		08/18/12 02:07	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		08/18/12 02:07	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		08/18/12 02:07	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		08/18/12 02:07	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		08/18/12 02:07	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		08/18/12 02:07	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		08/18/12 02:07	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		08/18/12 02:07	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		08/18/12 02:07	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		08/18/12 02:07	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		08/18/12 02:07	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		08/18/12 02:07	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		08/18/12 02:07	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		08/18/12 02:07	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		08/18/12 02:07	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		08/18/12 02:07	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		08/18/12 02:07	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		08/18/12 02:07	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		08/18/12 02:07	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		08/18/12 02:07	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		08/18/12 02:07	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		08/18/12 02:07	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		08/18/12 02:07	87-68-3	
n-Hexane	ND	ug/L	5.0	1		08/18/12 02:07	110-54-3	N2
2-Hexanone	ND	ug/L	25.0	1		08/18/12 02:07	591-78-6	
Iodomethane	ND	ug/L	10.0	1		08/18/12 02:07	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		08/18/12 02:07	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		08/18/12 02:07	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		08/18/12 02:07	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		08/18/12 02:07	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		08/18/12 02:07	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		08/18/12 02:07	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		08/18/12 02:07	103-65-1	
Styrene	ND	ug/L	5.0	1		08/18/12 02:07	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		08/18/12 02:07	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		08/18/12 02:07	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		08/18/12 02:07	127-18-4	
Toluene	ND	ug/L	5.0	1		08/18/12 02:07	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		08/18/12 02:07	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		08/18/12 02:07	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		08/18/12 02:07	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		08/18/12 02:07	79-00-5	

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7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: Carpenter Manufacturing
Pace Project No.: 5067678

Sample: Dup-2 **Lab ID: 5067678017** Collected: 08/16/12 08:00 Received: 08/16/12 15:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Trichloroethene	ND	ug/L	5.0	1		08/18/12 02:07	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		08/18/12 02:07	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		08/18/12 02:07	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		08/18/12 02:07	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		08/18/12 02:07	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		08/18/12 02:07	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		08/18/12 02:07	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		08/18/12 02:07	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	95	%.	83-123	1		08/18/12 02:07	1868-53-7	
4-Bromofluorobenzene (S)	100	%.	72-125	1		08/18/12 02:07	460-00-4	
Toluene-d8 (S)	98	%.	81-114	1		08/18/12 02:07	2037-26-5	

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ANALYTICAL RESULTS

Project: Carpenter Manufacturing
Pace Project No.: 5067678

Sample: EB-2 **Lab ID: 5067678018** Collected: 08/16/12 14:45 Received: 08/16/12 15:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel	Analytical Method: EPA 8015B Modified Preparation Method: EPA 3510							
Diesel Range Organics (C8-C28)	ND	mg/L	0.11	1	08/17/12 14:23	08/17/12 18:13		
Surrogates								
n-Pentacosane (S)	59	%.	20-108	1	08/17/12 14:23	08/17/12 18:13	629-99-2	
Gasoline Range Organics	Analytical Method: EPA 5030/8015 Mod.							
Gasoline Range Organics	ND	mg/L	0.20	1		08/21/12 01:31		
Surrogates								
4-Bromofluorobenzene (S)	86	%.	45-130	1		08/21/12 01:31	460-00-4	
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	10.8	1	08/20/12 10:54	08/20/12 17:20	83-32-9	
Acenaphthylene	ND	ug/L	10.8	1	08/20/12 10:54	08/20/12 17:20	208-96-8	
Anthracene	ND	ug/L	10.8	1	08/20/12 10:54	08/20/12 17:20	120-12-7	
Benzo(a)anthracene	ND	ug/L	10.8	1	08/20/12 10:54	08/20/12 17:20	56-55-3	
Benzo(a)pyrene	ND	ug/L	10.8	1	08/20/12 10:54	08/20/12 17:20	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	10.8	1	08/20/12 10:54	08/20/12 17:20	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	10.8	1	08/20/12 10:54	08/20/12 17:20	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	10.8	1	08/20/12 10:54	08/20/12 17:20	207-08-9	
Benzyl alcohol	ND	ug/L	21.5	1	08/20/12 10:54	08/20/12 17:20	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	10.8	1	08/20/12 10:54	08/20/12 17:20	101-55-3	
Butylbenzylphthalate	ND	ug/L	10.8	1	08/20/12 10:54	08/20/12 17:20	85-68-7	
4-Chloro-3-methylphenol	ND	ug/L	21.5	1	08/20/12 10:54	08/20/12 17:20	59-50-7	
4-Chloroaniline	ND	ug/L	21.5	1	08/20/12 10:54	08/20/12 17:20	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	10.8	1	08/20/12 10:54	08/20/12 17:20	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.8	1	08/20/12 10:54	08/20/12 17:20	111-44-4	
bis(2chloro1methylethyl) ether	ND	ug/L	5.4	1	08/20/12 10:54	08/20/12 17:20	108-60-1	
2-Chloronaphthalene	ND	ug/L	10.8	1	08/20/12 10:54	08/20/12 17:20	91-58-7	
2-Chlorophenol	ND	ug/L	10.8	1	08/20/12 10:54	08/20/12 17:20	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	10.8	1	08/20/12 10:54	08/20/12 17:20	7005-72-3	
Chrysene	ND	ug/L	10.8	1	08/20/12 10:54	08/20/12 17:20	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	10.8	1	08/20/12 10:54	08/20/12 17:20	53-70-3	
Dibenzofuran	ND	ug/L	10.8	1	08/20/12 10:54	08/20/12 17:20	132-64-9	
3,3'-Dichlorobenzidine	ND	ug/L	21.5	1	08/20/12 10:54	08/20/12 17:20	91-94-1	
2,4-Dichlorophenol	ND	ug/L	10.8	1	08/20/12 10:54	08/20/12 17:20	120-83-2	
Diethylphthalate	ND	ug/L	10.8	1	08/20/12 10:54	08/20/12 17:20	84-66-2	
2,4-Dimethylphenol	ND	ug/L	10.8	1	08/20/12 10:54	08/20/12 17:20	105-67-9	
Dimethylphthalate	ND	ug/L	10.8	1	08/20/12 10:54	08/20/12 17:20	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.8	1	08/20/12 10:54	08/20/12 17:20	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	53.8	1	08/20/12 10:54	08/20/12 17:20	534-52-1	
2,4-Dinitrophenol	ND	ug/L	53.8	1	08/20/12 10:54	08/20/12 17:20	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	10.8	1	08/20/12 10:54	08/20/12 17:20	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.8	1	08/20/12 10:54	08/20/12 17:20	606-20-2	
Di-n-octylphthalate	ND	ug/L	10.8	1	08/20/12 10:54	08/20/12 17:20	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	5.4	1	08/20/12 10:54	08/20/12 17:20	117-81-7	
Fluoranthene	ND	ug/L	10.8	1	08/20/12 10:54	08/20/12 17:20	206-44-0	
Fluorene	ND	ug/L	10.8	1	08/20/12 10:54	08/20/12 17:20	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	5.4	1	08/20/12 10:54	08/20/12 17:20	87-68-3	

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ANALYTICAL RESULTS

Project: Carpenter Manufacturing
Pace Project No.: 5067678

Sample: EB-2 **Lab ID: 5067678018** Collected: 08/16/12 14:45 Received: 08/16/12 15:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Hexachlorobenzene	ND	ug/L	10.8	1	08/20/12 10:54	08/20/12 17:20	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	21.5	1	08/20/12 10:54	08/20/12 17:20	77-47-4	
Hexachloroethane	ND	ug/L	10.8	1	08/20/12 10:54	08/20/12 17:20	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	10.8	1	08/20/12 10:54	08/20/12 17:20	193-39-5	
Isophorone	ND	ug/L	10.8	1	08/20/12 10:54	08/20/12 17:20	78-59-1	
2-Methylnaphthalene	ND	ug/L	10.8	1	08/20/12 10:54	08/20/12 17:20	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	10.8	1	08/20/12 10:54	08/20/12 17:20	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	21.5	1	08/20/12 10:54	08/20/12 17:20		
Naphthalene	ND	ug/L	5.4	1	08/20/12 10:54	08/20/12 17:20	91-20-3	
2-Nitroaniline	ND	ug/L	53.8	1	08/20/12 10:54	08/20/12 17:20	88-74-4	
3-Nitroaniline	ND	ug/L	53.8	1	08/20/12 10:54	08/20/12 17:20	99-09-2	
4-Nitroaniline	ND	ug/L	53.8	1	08/20/12 10:54	08/20/12 17:20	100-01-6	
Nitrobenzene	ND	ug/L	10.8	1	08/20/12 10:54	08/20/12 17:20	98-95-3	
2-Nitrophenol	ND	ug/L	10.8	1	08/20/12 10:54	08/20/12 17:20	88-75-5	
4-Nitrophenol	ND	ug/L	53.8	1	08/20/12 10:54	08/20/12 17:20	100-02-7	
N-Nitroso-di-n-propylamine	ND	ug/L	10.8	1	08/20/12 10:54	08/20/12 17:20	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	10.8	1	08/20/12 10:54	08/20/12 17:20	86-30-6	
Pentachlorophenol	ND	ug/L	53.8	1	08/20/12 10:54	08/20/12 17:20	87-86-5	
Phenanthrene	ND	ug/L	10.8	1	08/20/12 10:54	08/20/12 17:20	85-01-8	
Phenol	ND	ug/L	10.8	1	08/20/12 10:54	08/20/12 17:20	108-95-2	
Pyrene	ND	ug/L	10.8	1	08/20/12 10:54	08/20/12 17:20	129-00-0	
2,4,5-Trichlorophenol	ND	ug/L	10.8	1	08/20/12 10:54	08/20/12 17:20	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.8	1	08/20/12 10:54	08/20/12 17:20	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	85	%.	33-108	1	08/20/12 10:54	08/20/12 17:20	4165-60-0	
2-Fluorobiphenyl (S)	86	%.	34-106	1	08/20/12 10:54	08/20/12 17:20	321-60-8	
p-Terphenyl-d14 (S)	95	%.	31-122	1	08/20/12 10:54	08/20/12 17:20	1718-51-0	
Phenol-d5 (S)	24	%.	10-56	1	08/20/12 10:54	08/20/12 17:20	4165-62-2	
2-Fluorophenol (S)	41	%.	10-74	1	08/20/12 10:54	08/20/12 17:20	367-12-4	
2,4,6-Tribromophenol (S)	92	%.	32-124	1	08/20/12 10:54	08/20/12 17:20	118-79-6	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		08/18/12 02:39	67-64-1	
Acrolein	ND	ug/L	50.0	1		08/18/12 02:39	107-02-8	
Acrylonitrile	ND	ug/L	100	1		08/18/12 02:39	107-13-1	
Benzene	ND	ug/L	5.0	1		08/18/12 02:39	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		08/18/12 02:39	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		08/18/12 02:39	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		08/18/12 02:39	75-27-4	
Bromoform	ND	ug/L	5.0	1		08/18/12 02:39	75-25-2	
Bromomethane	ND	ug/L	5.0	1		08/18/12 02:39	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		08/18/12 02:39	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		08/18/12 02:39	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		08/18/12 02:39	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		08/18/12 02:39	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		08/18/12 02:39	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		08/18/12 02:39	56-23-5	

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ANALYTICAL RESULTS

Project: Carpenter Manufacturing
Pace Project No.: 5067678

Sample: EB-2 **Lab ID: 5067678018** Collected: 08/16/12 14:45 Received: 08/16/12 15:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Chlorobenzene	ND	ug/L	5.0	1		08/18/12 02:39	108-90-7	
Chloroethane	ND	ug/L	5.0	1		08/18/12 02:39	75-00-3	
Chloroform	ND	ug/L	5.0	1		08/18/12 02:39	67-66-3	
Chloromethane	ND	ug/L	5.0	1		08/18/12 02:39	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		08/18/12 02:39	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		08/18/12 02:39	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		08/18/12 02:39	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		08/18/12 02:39	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		08/18/12 02:39	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		08/18/12 02:39	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		08/18/12 02:39	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		08/18/12 02:39	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		08/18/12 02:39	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		08/18/12 02:39	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		08/18/12 02:39	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		08/18/12 02:39	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		08/18/12 02:39	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		08/18/12 02:39	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		08/18/12 02:39	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		08/18/12 02:39	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		08/18/12 02:39	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		08/18/12 02:39	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		08/18/12 02:39	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		08/18/12 02:39	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		08/18/12 02:39	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		08/18/12 02:39	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		08/18/12 02:39	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		08/18/12 02:39	87-68-3	
n-Hexane	ND	ug/L	5.0	1		08/18/12 02:39	110-54-3	N2
2-Hexanone	ND	ug/L	25.0	1		08/18/12 02:39	591-78-6	
Iodomethane	ND	ug/L	10.0	1		08/18/12 02:39	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		08/18/12 02:39	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		08/18/12 02:39	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		08/18/12 02:39	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		08/18/12 02:39	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		08/18/12 02:39	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		08/18/12 02:39	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		08/18/12 02:39	103-65-1	
Styrene	ND	ug/L	5.0	1		08/18/12 02:39	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		08/18/12 02:39	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		08/18/12 02:39	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		08/18/12 02:39	127-18-4	
Toluene	ND	ug/L	5.0	1		08/18/12 02:39	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		08/18/12 02:39	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		08/18/12 02:39	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		08/18/12 02:39	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		08/18/12 02:39	79-00-5	

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ANALYTICAL RESULTS

Project: Carpenter Manufacturing
Pace Project No.: 5067678

Sample: EB-2 **Lab ID: 5067678018** Collected: 08/16/12 14:45 Received: 08/16/12 15:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Trichloroethene	ND	ug/L	5.0	1		08/18/12 02:39	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		08/18/12 02:39	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		08/18/12 02:39	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		08/18/12 02:39	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		08/18/12 02:39	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		08/18/12 02:39	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		08/18/12 02:39	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		08/18/12 02:39	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	96	%.	83-123	1		08/18/12 02:39	1868-53-7	
4-Bromofluorobenzene (S)	97	%.	72-125	1		08/18/12 02:39	460-00-4	
Toluene-d8 (S)	99	%.	81-114	1		08/18/12 02:39	2037-26-5	

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ANALYTICAL RESULTS

Project: Carpenter Manufacturing
Pace Project No.: 5067678

Sample: Trip Blank **Lab ID: 5067678019** Collected: 08/16/12 08:00 Received: 08/16/12 15:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		08/18/12 03:11	67-64-1	
Acrolein	ND	ug/L	50.0	1		08/18/12 03:11	107-02-8	
Acrylonitrile	ND	ug/L	100	1		08/18/12 03:11	107-13-1	
Benzene	ND	ug/L	5.0	1		08/18/12 03:11	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		08/18/12 03:11	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		08/18/12 03:11	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		08/18/12 03:11	75-27-4	
Bromoform	ND	ug/L	5.0	1		08/18/12 03:11	75-25-2	
Bromomethane	ND	ug/L	5.0	1		08/18/12 03:11	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		08/18/12 03:11	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		08/18/12 03:11	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		08/18/12 03:11	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		08/18/12 03:11	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		08/18/12 03:11	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		08/18/12 03:11	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		08/18/12 03:11	108-90-7	
Chloroethane	ND	ug/L	5.0	1		08/18/12 03:11	75-00-3	
Chloroform	ND	ug/L	5.0	1		08/18/12 03:11	67-66-3	
Chloromethane	ND	ug/L	5.0	1		08/18/12 03:11	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		08/18/12 03:11	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		08/18/12 03:11	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		08/18/12 03:11	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		08/18/12 03:11	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		08/18/12 03:11	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		08/18/12 03:11	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		08/18/12 03:11	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		08/18/12 03:11	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		08/18/12 03:11	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		08/18/12 03:11	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		08/18/12 03:11	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		08/18/12 03:11	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		08/18/12 03:11	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		08/18/12 03:11	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		08/18/12 03:11	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		08/18/12 03:11	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		08/18/12 03:11	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		08/18/12 03:11	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		08/18/12 03:11	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		08/18/12 03:11	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		08/18/12 03:11	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		08/18/12 03:11	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		08/18/12 03:11	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		08/18/12 03:11	87-68-3	
n-Hexane	ND	ug/L	5.0	1		08/18/12 03:11	110-54-3	N2
2-Hexanone	ND	ug/L	25.0	1		08/18/12 03:11	591-78-6	
Iodomethane	ND	ug/L	10.0	1		08/18/12 03:11	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		08/18/12 03:11	98-82-8	

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ANALYTICAL RESULTS

Project: Carpenter Manufacturing
Pace Project No.: 5067678

Sample: Trip Blank **Lab ID: 5067678019** Collected: 08/16/12 08:00 Received: 08/16/12 15:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
p-Isopropyltoluene	ND	ug/L	5.0	1		08/18/12 03:11	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		08/18/12 03:11	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		08/18/12 03:11	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		08/18/12 03:11	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		08/18/12 03:11	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		08/18/12 03:11	103-65-1	
Styrene	ND	ug/L	5.0	1		08/18/12 03:11	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		08/18/12 03:11	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		08/18/12 03:11	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		08/18/12 03:11	127-18-4	
Toluene	ND	ug/L	5.0	1		08/18/12 03:11	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		08/18/12 03:11	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		08/18/12 03:11	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		08/18/12 03:11	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		08/18/12 03:11	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		08/18/12 03:11	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		08/18/12 03:11	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		08/18/12 03:11	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		08/18/12 03:11	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		08/18/12 03:11	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		08/18/12 03:11	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		08/18/12 03:11	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		08/18/12 03:11	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	98	%.	83-123	1		08/18/12 03:11	1868-53-7	
4-Bromofluorobenzene (S)	98	%.	72-125	1		08/18/12 03:11	460-00-4	
Toluene-d8 (S)	97	%.	81-114	1		08/18/12 03:11	2037-26-5	

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QUALITY CONTROL DATA

Project: Carpenter Manufacturing
Pace Project No.: 5067678

QC Batch: GCV/15628 Analysis Method: EPA 8015 Mod Pur
QC Batch Method: EPA 8015 Mod Pur Analysis Description: 8015 GRO 5035
Associated Lab Samples: 5067678001, 5067678002, 5067678003, 5067678004, 5067678006, 5067678007, 5067678008, 5067678010, 5067678011, 5067678012

METHOD BLANK: 784603 Matrix: Solid
Associated Lab Samples: 5067678001, 5067678002, 5067678003, 5067678004, 5067678006, 5067678007, 5067678008, 5067678010, 5067678011, 5067678012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	mg/kg	ND	1.0	08/21/12 05:44	
4-Bromofluorobenzene (S)	%.	83	30-163	08/21/12 05:44	

LABORATORY CONTROL SAMPLE: 784604

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	mg/kg	10	10.8	108	84-132	
4-Bromofluorobenzene (S)	%.			94	30-163	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 784605 784606

Parameter	Units	5067678002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Gasoline Range Organics	mg/kg	ND	13	7.6	11.0	4.9	84	65	10-133	76	20	R1
4-Bromofluorobenzene (S)	%.						88	73	30-163		20	

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QUALITY CONTROL DATA

Project: Carpenter Manufacturing
Pace Project No.: 5067678

QC Batch: GCV/15636
QC Batch Method: EPA 8015 Mod Pur
Analysis Method: EPA 8015 Mod Pur
Analysis Description: 8015 GRO 5035
Associated Lab Samples: 5067678009

METHOD BLANK: 785182
Matrix: Solid
Associated Lab Samples: 5067678009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	mg/kg	ND	1.0	08/21/12 20:46	
4-Bromofluorobenzene (S)	%.	93	30-163	08/21/12 20:46	

LABORATORY CONTROL SAMPLE: 785183

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	mg/kg	10	10.6	106	84-132	
4-Bromofluorobenzene (S)	%.			96	30-163	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 785184 785185

Parameter	Units	5067771001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Gasoline Range Organics	mg/kg	2.6	10	10	13.0	15.1	105	125	10-133	15	20	
4-Bromofluorobenzene (S)	%.						96	101	30-163		20	

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QUALITY CONTROL DATA

Project: Carpenter Manufacturing
Pace Project No.: 5067678

QC Batch: GCV/15627 Analysis Method: EPA 5030/8015 Mod.
QC Batch Method: EPA 5030/8015 Mod. Analysis Description: Gasoline Range Organics
Associated Lab Samples: 5067678005, 5067678014, 5067678015, 5067678016, 5067678017, 5067678018

METHOD BLANK: 784599 Matrix: Water
Associated Lab Samples: 5067678005, 5067678014, 5067678015, 5067678016, 5067678017, 5067678018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	mg/L	ND	0.20	08/20/12 22:27	
4-Bromofluorobenzene (S)	%.	92	45-130	08/20/12 22:27	

LABORATORY CONTROL SAMPLE: 784600

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	mg/L	10	10.4	104	82-116	
4-Bromofluorobenzene (S)	%.			98	45-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 784601 784602

Parameter	Units	5067678015 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Gasoline Range Organics	mg/L	ND	10	10	10.1	10.1	101	101	31-122	.3	20	
4-Bromofluorobenzene (S)	%.						93	89	45-130		20	

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QUALITY CONTROL DATA

Project: Carpenter Manufacturing
Pace Project No.: 5067678

QC Batch: MSV/44998 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 5067678005, 5067678014, 5067678015, 5067678016

METHOD BLANK: 783896 Matrix: Water
Associated Lab Samples: 5067678005, 5067678014, 5067678015, 5067678016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	08/17/12 13:45	
1,1,1-Trichloroethane	ug/L	ND	5.0	08/17/12 13:45	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	08/17/12 13:45	
1,1,2-Trichloroethane	ug/L	ND	5.0	08/17/12 13:45	
1,1-Dichloroethane	ug/L	ND	5.0	08/17/12 13:45	
1,1-Dichloroethene	ug/L	ND	5.0	08/17/12 13:45	
1,1-Dichloropropene	ug/L	ND	5.0	08/17/12 13:45	
1,2,3-Trichlorobenzene	ug/L	ND	5.0	08/17/12 13:45	
1,2,3-Trichloropropane	ug/L	ND	5.0	08/17/12 13:45	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	08/17/12 13:45	
1,2,4-Trimethylbenzene	ug/L	ND	5.0	08/17/12 13:45	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	08/17/12 13:45	
1,2-Dichlorobenzene	ug/L	ND	5.0	08/17/12 13:45	
1,2-Dichloroethane	ug/L	ND	5.0	08/17/12 13:45	
1,2-Dichloropropane	ug/L	ND	5.0	08/17/12 13:45	
1,3,5-Trimethylbenzene	ug/L	ND	5.0	08/17/12 13:45	
1,3-Dichlorobenzene	ug/L	ND	5.0	08/17/12 13:45	
1,3-Dichloropropane	ug/L	ND	5.0	08/17/12 13:45	
1,4-Dichlorobenzene	ug/L	ND	5.0	08/17/12 13:45	
2,2-Dichloropropane	ug/L	ND	5.0	08/17/12 13:45	
2-Butanone (MEK)	ug/L	ND	25.0	08/17/12 13:45	
2-Chlorotoluene	ug/L	ND	5.0	08/17/12 13:45	
2-Hexanone	ug/L	ND	25.0	08/17/12 13:45	
4-Chlorotoluene	ug/L	ND	5.0	08/17/12 13:45	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25.0	08/17/12 13:45	
Acetone	ug/L	ND	100	08/17/12 13:45	
Acrolein	ug/L	ND	50.0	08/17/12 13:45	
Acrylonitrile	ug/L	ND	100	08/17/12 13:45	
Benzene	ug/L	ND	5.0	08/17/12 13:45	
Bromobenzene	ug/L	ND	5.0	08/17/12 13:45	
Bromochloromethane	ug/L	ND	5.0	08/17/12 13:45	
Bromodichloromethane	ug/L	ND	5.0	08/17/12 13:45	
Bromoform	ug/L	ND	5.0	08/17/12 13:45	
Bromomethane	ug/L	ND	5.0	08/17/12 13:45	
Carbon disulfide	ug/L	ND	10.0	08/17/12 13:45	
Carbon tetrachloride	ug/L	ND	5.0	08/17/12 13:45	
Chlorobenzene	ug/L	ND	5.0	08/17/12 13:45	
Chloroethane	ug/L	ND	5.0	08/17/12 13:45	
Chloroform	ug/L	ND	5.0	08/17/12 13:45	
Chloromethane	ug/L	ND	5.0	08/17/12 13:45	
cis-1,2-Dichloroethene	ug/L	ND	5.0	08/17/12 13:45	
cis-1,3-Dichloropropene	ug/L	ND	5.0	08/17/12 13:45	
Dibromochloromethane	ug/L	ND	5.0	08/17/12 13:45	

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QUALITY CONTROL DATA

Project: Carpenter Manufacturing
Pace Project No.: 5067678

METHOD BLANK: 783896 Matrix: Water

Associated Lab Samples: 5067678005, 5067678014, 5067678015, 5067678016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/L	ND	5.0	08/17/12 13:45	
Dichlorodifluoromethane	ug/L	ND	5.0	08/17/12 13:45	
Ethyl methacrylate	ug/L	ND	100	08/17/12 13:45	
Ethylbenzene	ug/L	ND	5.0	08/17/12 13:45	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	08/17/12 13:45	
Iodomethane	ug/L	ND	10.0	08/17/12 13:45	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	08/17/12 13:45	
Methyl-tert-butyl ether	ug/L	ND	4.0	08/17/12 13:45	
Methylene Chloride	ug/L	ND	5.0	08/17/12 13:45	
n-Butylbenzene	ug/L	ND	5.0	08/17/12 13:45	
n-Hexane	ug/L	ND	5.0	08/17/12 13:45	N2
n-Propylbenzene	ug/L	ND	5.0	08/17/12 13:45	
Naphthalene	ug/L	ND	5.0	08/17/12 13:45	
p-Isopropyltoluene	ug/L	ND	5.0	08/17/12 13:45	
sec-Butylbenzene	ug/L	ND	5.0	08/17/12 13:45	
Styrene	ug/L	ND	5.0	08/17/12 13:45	
tert-Butylbenzene	ug/L	ND	5.0	08/17/12 13:45	
Tetrachloroethene	ug/L	ND	5.0	08/17/12 13:45	
Toluene	ug/L	ND	5.0	08/17/12 13:45	
trans-1,2-Dichloroethene	ug/L	ND	5.0	08/17/12 13:45	
trans-1,3-Dichloropropene	ug/L	ND	5.0	08/17/12 13:45	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	08/17/12 13:45	
Trichloroethene	ug/L	ND	5.0	08/17/12 13:45	
Trichlorofluoromethane	ug/L	ND	5.0	08/17/12 13:45	
Vinyl acetate	ug/L	ND	50.0	08/17/12 13:45	
Vinyl chloride	ug/L	ND	2.0	08/17/12 13:45	
Xylene (Total)	ug/L	ND	10.0	08/17/12 13:45	
4-Bromofluorobenzene (S)	%.	97	72-125	08/17/12 13:45	
Dibromofluoromethane (S)	%.	96	83-123	08/17/12 13:45	
Toluene-d8 (S)	%.	99	81-114	08/17/12 13:45	

LABORATORY CONTROL SAMPLE: 783897

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	49.6	99	69-122	
1,1,1-Trichloroethane	ug/L	50	51.8	104	69-126	
1,1,2,2-Tetrachloroethane	ug/L	50	54.3	109	68-134	
1,1,2-Trichloroethane	ug/L	50	55.8	112	77-129	
1,1-Dichloroethane	ug/L	50	57.1	114	70-127	
1,1-Dichloroethene	ug/L	50	55.9	112	75-145	
1,1-Dichloropropene	ug/L	50	59.0	118	75-126	
1,2,3-Trichlorobenzene	ug/L	50	56.3	113	63-130	
1,2,3-Trichloropropane	ug/L	50	92.0	184	45-121	L3
1,2,4-Trichlorobenzene	ug/L	50	55.8	112	64-122	
1,2,4-Trimethylbenzene	ug/L	50	54.7	109	68-129	

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QUALITY CONTROL DATA

Project: Carpenter Manufacturing
Pace Project No.: 5067678

LABORATORY CONTROL SAMPLE: 783897

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	50	52.8	106	77-123	
1,2-Dichlorobenzene	ug/L	50	54.1	108	74-123	
1,2-Dichloroethane	ug/L	50	53.1	106	71-127	
1,2-Dichloropropane	ug/L	50	57.8	116	75-126	
1,3,5-Trimethylbenzene	ug/L	50	55.6	111	69-129	
1,3-Dichlorobenzene	ug/L	50	54.1	108	76-123	
1,3-Dichloropropane	ug/L	50	55.4	111	77-126	
1,4-Dichlorobenzene	ug/L	50	52.6	105	77-121	
2,2-Dichloropropane	ug/L	50	51.1	102	45-138	
2-Butanone (MEK)	ug/L	250	309	124	42-177	
2-Chlorotoluene	ug/L	50	54.2	108	74-129	
2-Hexanone	ug/L	250	306	122	57-162	
4-Chlorotoluene	ug/L	50	54.9	110	70-125	
4-Methyl-2-pentanone (MIBK)	ug/L	250	290	116	64-135	
Acetone	ug/L	250	376	151	10-200	
Acrolein	ug/L	1000	1260	126	10-200	
Acrylonitrile	ug/L	1000	1130	113	59-144	
Benzene	ug/L	50	54.0	108	76-123	
Bromobenzene	ug/L	50	53.6	107	67-130	
Bromochloromethane	ug/L	50	54.6	109	58-153	
Bromodichloromethane	ug/L	50	49.2	98	71-124	
Bromoform	ug/L	50	48.4	97	64-116	
Bromomethane	ug/L	50	30.9	62	23-197	
Carbon disulfide	ug/L	100	120	120	55-146	
Carbon tetrachloride	ug/L	50	49.2	98	65-125	
Chlorobenzene	ug/L	50	53.9	108	78-120	
Chloroethane	ug/L	50	51.7	103	56-163	
Chloroform	ug/L	50	57.3	115	73-122	
Chloromethane	ug/L	50	23.5	47	46-146	
cis-1,2-Dichloroethene	ug/L	50	56.6	113	79-129	
cis-1,3-Dichloropropene	ug/L	50	52.2	104	66-123	
Dibromochloromethane	ug/L	50	48.5	97	70-123	
Dibromomethane	ug/L	50	55.6	111	73-123	
Dichlorodifluoromethane	ug/L	50	51.9	104	19-200	
Ethyl methacrylate	ug/L	200	208	104	70-127	
Ethylbenzene	ug/L	50	55.0	110	75-120	
Hexachloro-1,3-butadiene	ug/L	50	57.2	114	64-131	
Iodomethane	ug/L	100	72.9	73	16-181	
Isopropylbenzene (Cumene)	ug/L	50	53.1	106	73-123	
Methyl-tert-butyl ether	ug/L	100	101	101	66-128	
Methylene Chloride	ug/L	50	48.6	97	61-138	
n-Butylbenzene	ug/L	50	57.8	116	69-130	
n-Hexane	ug/L	50	51.8	104	67-142	N2
n-Propylbenzene	ug/L	50	54.5	109	71-132	
Naphthalene	ug/L	50	56.9	114	62-130	
p-Isopropyltoluene	ug/L	50	57.1	114	71-126	
sec-Butylbenzene	ug/L	50	55.3	111	69-130	
Styrene	ug/L	50	56.9	114	75-125	

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QUALITY CONTROL DATA

Project: Carpenter Manufacturing
Pace Project No.: 5067678

LABORATORY CONTROL SAMPLE: 783897

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butylbenzene	ug/L	50	53.5	107	49-114	
Tetrachloroethene	ug/L	50	56.4	113	57-125	
Toluene	ug/L	50	52.2	104	72-124	
trans-1,2-Dichloroethene	ug/L	50	55.4	111	71-145	
trans-1,3-Dichloropropene	ug/L	50	52.9	106	58-118	
trans-1,4-Dichloro-2-butene	ug/L	200	205	103	50-121	
Trichloroethene	ug/L	50	57.0	114	77-122	
Trichlorofluoromethane	ug/L	50	52.4	105	56-159	
Vinyl acetate	ug/L	200	97.5	49	27-119	
Vinyl chloride	ug/L	50	48.1	96	61-146	
Xylene (Total)	ug/L	150	164	109	72-126	
4-Bromofluorobenzene (S)	%.			102	72-125	
Dibromofluoromethane (S)	%.			100	83-123	
Toluene-d8 (S)	%.			99	81-114	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 783898 783899

Parameter	Units	5067678015 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	50	50	43.9	46.1	88	92	30-122	5	20	
1,1,1-Trichloroethane	ug/L	ND	50	50	47.3	49.0	95	98	37-136	4	20	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	50	49.9	52.8	100	106	47-132	6	20	
1,1,2-Trichloroethane	ug/L	ND	50	50	51.7	52.5	103	105	53-131	2	20	
1,1-Dichloroethane	ug/L	ND	50	50	53.8	55.5	108	111	47-138	3	20	
1,1-Dichloroethene	ug/L	ND	50	50	52.5	53.6	105	107	54-152	2	20	
1,1-Dichloropropene	ug/L	ND	50	50	55.0	55.7	110	111	47-136	1	20	
1,2,3-Trichlorobenzene	ug/L	ND	50	50	50.7	51.2	101	102	15-132	1	20	
1,2,3-Trichloropropane	ug/L	ND	50	50	79.6	85.1	159	170	24-108	7	20	M0
1,2,4-Trichlorobenzene	ug/L	ND	50	50	48.3	48.7	97	97	10-130	.9	20	
1,2,4-Trimethylbenzene	ug/L	ND	50	50	49.2	50.5	98	101	10-141	3	20	
1,2-Dibromoethane (EDB)	ug/L	ND	50	50	48.7	49.3	97	99	49-130	1	20	
1,2-Dichlorobenzene	ug/L	ND	50	50	49.4	51.1	99	102	20-137	4	20	
1,2-Dichloroethane	ug/L	ND	50	50	50.9	51.7	102	103	42-139	1	20	
1,2-Dichloropropane	ug/L	ND	50	50	53.8	55.6	108	111	50-131	3	20	
1,3,5-Trimethylbenzene	ug/L	ND	50	50	49.8	51.6	100	103	10-145	3	20	
1,3-Dichlorobenzene	ug/L	ND	50	50	48.7	49.9	97	100	13-143	2	20	
1,3-Dichloropropane	ug/L	ND	50	50	50.7	52.1	101	104	53-130	3	20	
1,4-Dichlorobenzene	ug/L	ND	50	50	47.4	48.0	95	96	13-140	1	20	
2,2-Dichloropropane	ug/L	ND	50	50	44.8	47.3	90	95	13-142	5	20	
2-Butanone (MEK)	ug/L	ND	250	250	248	250	99	100	43-142	1	20	
2-Chlorotoluene	ug/L	ND	50	50	48.7	50.6	97	101	15-145	4	20	
2-Hexanone	ug/L	ND	250	250	255	264	102	106	46-139	4	20	
4-Chlorotoluene	ug/L	ND	50	50	48.7	50.5	97	101	12-143	4	20	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	250	250	262	273	105	109	43-140	4	20	
Acetone	ug/L	ND	250	250	234	241	94	96	38-155	3	20	
Acrolein	ug/L	ND	1000	1000	1090	1130	109	113	11-200	4	20	
Acrylonitrile	ug/L	ND	1000	1000	1060	1080	106	108	42-150	2	20	

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QUALITY CONTROL DATA

Project: Carpenter Manufacturing
Pace Project No.: 5067678

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 783898 783899

Parameter	Units	5067678015 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	ND	50	50	50.3	51.6	101	103	52-134	3	20	
Bromobenzene	ug/L	ND	50	50	50.9	49.5	102	99	25-140	3	20	
Bromochloromethane	ug/L	ND	50	50	50.3	53.4	101	107	54-144	6	20	
Bromodichloromethane	ug/L	ND	50	50	45.3	46.7	91	93	42-128	3	20	
Bromoform	ug/L	ND	50	50	41.0	43.8	82	88	34-116	7	20	
Bromomethane	ug/L	ND	50	50	24.5	30.8	49	62	10-200	23	20	R1
Carbon disulfide	ug/L	ND	100	100	110	114	110	114	43-144	4	20	
Carbon tetrachloride	ug/L	ND	50	50	43.0	45.2	86	90	26-136	5	20	
Chlorobenzene	ug/L	ND	50	50	49.5	50.1	99	100	33-136	1	20	
Chloroethane	ug/L	ND	50	50	47.3	49.8	95	100	21-200	5	20	
Chloroform	ug/L	ND	50	50	55.0	55.5	110	111	50-134	.9	20	
Chloromethane	ug/L	ND	50	50	25.7	28.2	51	56	32-160	9	20	
cis-1,2-Dichloroethene	ug/L	ND	50	50	52.9	54.3	106	109	48-145	3	20	
cis-1,3-Dichloropropene	ug/L	ND	50	50	45.3	47.7	91	95	35-116	5	20	
Dibromochloromethane	ug/L	ND	50	50	42.6	44.8	85	90	39-122	5	20	
Dibromomethane	ug/L	ND	50	50	52.7	53.6	105	107	49-134	2	20	
Dichlorodifluoromethane	ug/L	ND	50	50	49.8	50.8	100	102	35-200	2	20	
Ethyl methacrylate	ug/L	ND	200	200	185	193	92	96	54-123	4	20	
Ethylbenzene	ug/L	ND	50	50	49.9	50.8	100	102	29-132	2	20	
Hexachloro-1,3-butadiene	ug/L	ND	50	50	50.0	51.4	100	103	10-146	3	20	
Iodomethane	ug/L	ND	100	100	47.7	69.0	48	69	10-171	37	20	R1
Isopropylbenzene (Cumene)	ug/L	ND	50	50	48.3	48.8	97	98	11-146	1	20	
Methyl-tert-butyl ether	ug/L	ND	100	100	95.9	98.6	96	99	39-137	3	20	
Methylene Chloride	ug/L	ND	50	50	43.0	44.3	86	89	47-141	3	20	
n-Butylbenzene	ug/L	ND	50	50	50.2	51.0	100	102	10-156	2	20	
n-Hexane	ug/L	ND	50	50	47.9	49.6	96	99	51-137	4	20	N2
n-Propylbenzene	ug/L	ND	50	50	48.7	50.1	97	100	10-148	3	20	
Naphthalene	ug/L	ND	50	50	51.4	53.7	103	107	40-124	4	20	
p-Isopropyltoluene	ug/L	ND	50	50	51.0	52.3	102	105	10-150	3	20	
sec-Butylbenzene	ug/L	ND	50	50	49.7	51.1	99	102	10-150	3	20	
Styrene	ug/L	ND	50	50	51.8	52.2	104	104	20-143	.9	20	
tert-Butylbenzene	ug/L	ND	50	50	48.3	50.0	97	100	10-123	3	20	
Tetrachloroethene	ug/L	ND	50	50	50.1	50.9	100	102	30-124	2	20	
Toluene	ug/L	ND	50	50	48.2	48.8	96	97	42-130	1	20	
trans-1,2-Dichloroethene	ug/L	ND	50	50	51.5	52.2	103	104	48-144	1	20	
trans-1,3-Dichloropropene	ug/L	ND	50	50	45.6	47.7	91	95	24-114	4	20	
trans-1,4-Dichloro-2-butene	ug/L	ND	200	200	183	187	92	94	22-120	2	20	
Trichloroethene	ug/L	ND	50	50	53.1	54.9	106	110	44-130	3	20	
Trichlorofluoromethane	ug/L	ND	50	50	50.8	52.2	102	104	17-200	3	20	
Vinyl acetate	ug/L	ND	200	200	78.2	83.2	39	42	10-115	6	20	
Vinyl chloride	ug/L	ND	50	50	44.8	46.8	90	94	45-159	4	20	
Xylene (Total)	ug/L	ND	150	150	149	152	100	101	29-131	2	20	
4-Bromofluorobenzene (S)	%.						102	100	72-125		20	
Dibromofluoromethane (S)	%.						101	100	83-123		20	
Toluene-d8 (S)	%.						98	98	81-114		20	

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QUALITY CONTROL DATA

Project: Carpenter Manufacturing
Pace Project No.: 5067678

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 783900 783901

Parameter	Units	5067465003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	50	50	45.4	47.9	91	96	30-122	5	20	
1,1,1-Trichloroethane	ug/L	ND	50	50	49.0	50.8	98	102	37-136	4	20	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	50	51.8	55.2	104	110	47-132	6	20	
1,1,2-Trichloroethane	ug/L	ND	50	50	53.7	56.7	107	113	53-131	5	20	
1,1-Dichloroethane	ug/L	ND	50	50	56.5	58.1	113	116	47-138	3	20	
1,1-Dichloroethene	ug/L	ND	50	50	55.3	57.1	111	114	54-152	3	20	
1,1-Dichloropropene	ug/L	ND	50	50	58.2	59.0	116	118	47-136	1	20	
1,2,3-Trichlorobenzene	ug/L	ND	50	50	54.0	57.1	108	114	15-132	6	20	
1,2,3-Trichloropropane	ug/L	ND	50	50	82.0	88.7	164	177	24-108	8	20	M0
1,2,4-Trichlorobenzene	ug/L	ND	50	50	54.0	56.2	108	112	10-130	4	20	
1,2,4-Trimethylbenzene	ug/L	ND	50	50	52.5	55.4	105	111	10-141	5	20	
1,2-Dibromoethane (EDB)	ug/L	ND	50	50	51.2	51.7	102	103	49-130	1	20	
1,2-Dichlorobenzene	ug/L	ND	50	50	51.8	54.6	104	109	20-137	5	20	
1,2-Dichloroethane	ug/L	ND	50	50	53.5	53.6	107	107	42-139	.3	20	
1,2-Dichloropropane	ug/L	ND	50	50	57.1	57.5	114	115	50-131	.7	20	
1,3,5-Trimethylbenzene	ug/L	ND	50	50	53.1	55.8	106	112	10-145	5	20	
1,3-Dichlorobenzene	ug/L	ND	50	50	52.2	55.0	104	110	13-143	5	20	
1,3-Dichloropropane	ug/L	ND	50	50	53.5	55.4	107	111	53-130	4	20	
1,4-Dichlorobenzene	ug/L	ND	50	50	51.2	53.4	102	107	13-140	4	20	
2,2-Dichloropropane	ug/L	ND	50	50	47.3	50.4	95	101	13-142	6	20	
2-Butanone (MEK)	ug/L	ND	250	250	256	260	102	104	43-142	2	20	
2-Chlorotoluene	ug/L	ND	50	50	52.4	55.1	105	110	15-145	5	20	
2-Hexanone	ug/L	ND	250	250	264	268	105	107	46-139	2	20	
4-Chlorotoluene	ug/L	ND	50	50	52.4	55.9	105	112	12-143	6	20	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	250	250	272	278	109	111	43-140	2	20	
Acetone	ug/L	ND	250	250	239	247	95	99	38-155	4	20	
Acrolein	ug/L	ND	1000	1000	1170	1190	117	119	11-200	2	20	
Acrylonitrile	ug/L	ND	1000	1000	1090	1130	109	113	42-150	3	20	
Benzene	ug/L	ND	50	50	53.3	54.4	107	109	52-134	2	20	
Bromobenzene	ug/L	ND	50	50	53.9	53.3	108	107	25-140	1	20	
Bromochloromethane	ug/L	ND	50	50	55.4	60.1	111	120	54-144	8	20	
Bromodichloromethane	ug/L	ND	50	50	46.3	47.5	93	95	42-128	3	20	
Bromoform	ug/L	ND	50	50	41.3	44.4	83	89	34-116	7	20	
Bromomethane	ug/L	ND	50	50	29.5	32.2	59	64	10-200	9	20	
Carbon disulfide	ug/L	ND	100	100	118	120	118	120	43-144	1	20	
Carbon tetrachloride	ug/L	ND	50	50	43.7	46.1	87	92	26-136	5	20	
Chlorobenzene	ug/L	ND	50	50	52.6	53.2	105	106	33-136	1	20	
Chloroethane	ug/L	ND	50	50	51.6	51.6	103	103	21-200	.04	20	
Chloroform	ug/L	ND	50	50	57.2	58.1	114	116	50-134	2	20	
Chloromethane	ug/L	ND	50	50	23.9	28.8	48	58	32-160	19	20	
cis-1,2-Dichloroethene	ug/L	ND	50	50	56.6	57.5	113	115	48-145	2	20	
cis-1,3-Dichloropropene	ug/L	ND	50	50	48.4	50.7	97	101	35-116	5	20	
Dibromochloromethane	ug/L	ND	50	50	43.5	45.7	87	91	39-122	5	20	
Dibromomethane	ug/L	ND	50	50	54.9	56.3	110	113	49-134	3	20	
Dichlorodifluoromethane	ug/L	ND	50	50	52.1	52.3	104	105	35-200	.5	20	
Ethyl methacrylate	ug/L	ND	200	200	194	202	97	101	54-123	4	20	
Ethylbenzene	ug/L	ND	50	50	53.7	54.5	107	109	29-132	2	20	

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QUALITY CONTROL DATA

Project: Carpenter Manufacturing
Pace Project No.: 5067678

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 783900 783901

Parameter	Units	5067465003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Hexachloro-1,3-butadiene	ug/L	ND	50	50	54.9	56.5	110	113	10-146	3	20	
Iodomethane	ug/L	ND	100	100	63.1	67.7	63	68	10-171	7	20	
Isopropylbenzene (Cumene)	ug/L	ND	50	50	51.8	52.7	104	105	11-146	2	20	
Methyl-tert-butyl ether	ug/L	ND	100	100	99.9	103	100	103	39-137	3	20	
Methylene Chloride	ug/L	ND	50	50	45.8	53.4	91	106	47-141	15	20	
n-Butylbenzene	ug/L	ND	50	50	55.1	57.9	110	116	10-156	5	20	
n-Hexane	ug/L	ND	50	50	50.7	52.0	101	104	51-137	2	20	N2
n-Propylbenzene	ug/L	ND	50	50	52.0	55.0	104	110	10-148	6	20	
Naphthalene	ug/L	ND	50	50	54.9	56.8	110	114	40-124	3	20	
p-Isopropyltoluene	ug/L	ND	50	50	54.5	57.8	109	116	10-150	6	20	
sec-Butylbenzene	ug/L	ND	50	50	52.6	55.6	105	111	10-150	5	20	
Styrene	ug/L	ND	50	50	55.3	56.2	111	112	20-143	2	20	
tert-Butylbenzene	ug/L	ND	50	50	51.1	53.8	102	108	10-123	5	20	
Tetrachloroethene	ug/L	ND	50	50	54.7	55.2	109	110	30-124	1	20	
Toluene	ug/L	ND	50	50	50.8	52.1	102	104	42-130	2	20	
trans-1,2-Dichloroethene	ug/L	ND	50	50	54.7	55.0	109	110	48-144	.6	20	
trans-1,3-Dichloropropene	ug/L	ND	50	50	48.3	50.8	97	102	24-114	5	20	
trans-1,4-Dichloro-2-butene	ug/L	ND	200	200	191	199	96	100	22-120	4	20	
Trichloroethene	ug/L	ND	50	50	55.8	56.9	112	114	44-130	2	20	
Trichlorofluoromethane	ug/L	ND	50	50	52.1	53.1	104	106	17-200	2	20	
Vinyl acetate	ug/L	ND	200	200	86.0	91.7	43	46	10-115	6	20	
Vinyl chloride	ug/L	ND	50	50	47.7	48.6	95	97	45-159	2	20	
Xylene (Total)	ug/L	ND	150	150	160	162	107	108	29-131	1	20	
4-Bromofluorobenzene (S)	%.						100	99	72-125		20	
Dibromofluoromethane (S)	%.						99	100	83-123		20	
Toluene-d8 (S)	%.						99	99	81-114		20	

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QUALITY CONTROL DATA

Project: Carpenter Manufacturing
Pace Project No.: 5067678

QC Batch: MSV/44999 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 5067678017, 5067678018, 5067678019

METHOD BLANK: 783905 Matrix: Water
Associated Lab Samples: 5067678017, 5067678018, 5067678019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	08/18/12 01:35	
1,1,1-Trichloroethane	ug/L	ND	5.0	08/18/12 01:35	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	08/18/12 01:35	
1,1,2-Trichloroethane	ug/L	ND	5.0	08/18/12 01:35	
1,1-Dichloroethane	ug/L	ND	5.0	08/18/12 01:35	
1,1-Dichloroethene	ug/L	ND	5.0	08/18/12 01:35	
1,1-Dichloropropene	ug/L	ND	5.0	08/18/12 01:35	
1,2,3-Trichlorobenzene	ug/L	ND	5.0	08/18/12 01:35	
1,2,3-Trichloropropane	ug/L	ND	5.0	08/18/12 01:35	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	08/18/12 01:35	
1,2,4-Trimethylbenzene	ug/L	ND	5.0	08/18/12 01:35	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	08/18/12 01:35	
1,2-Dichlorobenzene	ug/L	ND	5.0	08/18/12 01:35	
1,2-Dichloroethane	ug/L	ND	5.0	08/18/12 01:35	
1,2-Dichloropropane	ug/L	ND	5.0	08/18/12 01:35	
1,3,5-Trimethylbenzene	ug/L	ND	5.0	08/18/12 01:35	
1,3-Dichlorobenzene	ug/L	ND	5.0	08/18/12 01:35	
1,3-Dichloropropane	ug/L	ND	5.0	08/18/12 01:35	
1,4-Dichlorobenzene	ug/L	ND	5.0	08/18/12 01:35	
2,2-Dichloropropane	ug/L	ND	5.0	08/18/12 01:35	
2-Butanone (MEK)	ug/L	ND	25.0	08/18/12 01:35	
2-Chlorotoluene	ug/L	ND	5.0	08/18/12 01:35	
2-Hexanone	ug/L	ND	25.0	08/18/12 01:35	
4-Chlorotoluene	ug/L	ND	5.0	08/18/12 01:35	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25.0	08/18/12 01:35	
Acetone	ug/L	ND	100	08/18/12 01:35	
Acrolein	ug/L	ND	50.0	08/18/12 01:35	
Acrylonitrile	ug/L	ND	100	08/18/12 01:35	
Benzene	ug/L	ND	5.0	08/18/12 01:35	
Bromobenzene	ug/L	ND	5.0	08/18/12 01:35	
Bromochloromethane	ug/L	ND	5.0	08/18/12 01:35	
Bromodichloromethane	ug/L	ND	5.0	08/18/12 01:35	
Bromoform	ug/L	ND	5.0	08/18/12 01:35	
Bromomethane	ug/L	ND	5.0	08/18/12 01:35	
Carbon disulfide	ug/L	ND	10.0	08/18/12 01:35	
Carbon tetrachloride	ug/L	ND	5.0	08/18/12 01:35	
Chlorobenzene	ug/L	ND	5.0	08/18/12 01:35	
Chloroethane	ug/L	ND	5.0	08/18/12 01:35	
Chloroform	ug/L	ND	5.0	08/18/12 01:35	
Chloromethane	ug/L	ND	5.0	08/18/12 01:35	
cis-1,2-Dichloroethene	ug/L	ND	5.0	08/18/12 01:35	
cis-1,3-Dichloropropene	ug/L	ND	5.0	08/18/12 01:35	
Dibromochloromethane	ug/L	ND	5.0	08/18/12 01:35	

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QUALITY CONTROL DATA

Project: Carpenter Manufacturing
Pace Project No.: 5067678

METHOD BLANK: 783905 Matrix: Water

Associated Lab Samples: 5067678017, 5067678018, 5067678019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/L	ND	5.0	08/18/12 01:35	
Dichlorodifluoromethane	ug/L	ND	5.0	08/18/12 01:35	
Ethyl methacrylate	ug/L	ND	100	08/18/12 01:35	
Ethylbenzene	ug/L	ND	5.0	08/18/12 01:35	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	08/18/12 01:35	
Iodomethane	ug/L	ND	10.0	08/18/12 01:35	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	08/18/12 01:35	
Methyl-tert-butyl ether	ug/L	ND	4.0	08/18/12 01:35	
Methylene Chloride	ug/L	ND	5.0	08/18/12 01:35	
n-Butylbenzene	ug/L	ND	5.0	08/18/12 01:35	
n-Hexane	ug/L	ND	5.0	08/18/12 01:35	N2
n-Propylbenzene	ug/L	ND	5.0	08/18/12 01:35	
Naphthalene	ug/L	ND	5.0	08/18/12 01:35	
p-Isopropyltoluene	ug/L	ND	5.0	08/18/12 01:35	
sec-Butylbenzene	ug/L	ND	5.0	08/18/12 01:35	
Styrene	ug/L	ND	5.0	08/18/12 01:35	
tert-Butylbenzene	ug/L	ND	5.0	08/18/12 01:35	
Tetrachloroethene	ug/L	ND	5.0	08/18/12 01:35	
Toluene	ug/L	ND	5.0	08/18/12 01:35	
trans-1,2-Dichloroethene	ug/L	ND	5.0	08/18/12 01:35	
trans-1,3-Dichloropropene	ug/L	ND	5.0	08/18/12 01:35	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	08/18/12 01:35	
Trichloroethene	ug/L	ND	5.0	08/18/12 01:35	
Trichlorofluoromethane	ug/L	ND	5.0	08/18/12 01:35	
Vinyl acetate	ug/L	ND	50.0	08/18/12 01:35	
Vinyl chloride	ug/L	ND	2.0	08/18/12 01:35	
Xylene (Total)	ug/L	ND	10.0	08/18/12 01:35	
4-Bromofluorobenzene (S)	%.	98	72-125	08/18/12 01:35	
Dibromofluoromethane (S)	%.	98	83-123	08/18/12 01:35	
Toluene-d8 (S)	%.	98	81-114	08/18/12 01:35	

LABORATORY CONTROL SAMPLE: 783906

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	52.7	105	69-122	
1,1,1-Trichloroethane	ug/L	50	55.0	110	69-126	
1,1,2,2-Tetrachloroethane	ug/L	50	56.2	112	68-134	
1,1,2-Trichloroethane	ug/L	50	57.1	114	77-129	
1,1-Dichloroethane	ug/L	50	59.6	119	70-127	
1,1-Dichloroethene	ug/L	50	59.4	119	75-145	
1,1-Dichloropropene	ug/L	50	61.1	122	75-126	
1,2,3-Trichlorobenzene	ug/L	50	56.3	113	63-130	
1,2,3-Trichloropropane	ug/L	50	92.4	185	45-121	L3
1,2,4-Trichlorobenzene	ug/L	50	54.2	108	64-122	
1,2,4-Trimethylbenzene	ug/L	50	55.1	110	68-129	

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QUALITY CONTROL DATA

Project: Carpenter Manufacturing
Pace Project No.: 5067678

LABORATORY CONTROL SAMPLE: 783906

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	50	54.2	108	77-123	
1,2-Dichlorobenzene	ug/L	50	55.0	110	74-123	
1,2-Dichloroethane	ug/L	50	56.5	113	71-127	
1,2-Dichloropropane	ug/L	50	59.7	119	75-126	
1,3,5-Trimethylbenzene	ug/L	50	56.0	112	69-129	
1,3-Dichlorobenzene	ug/L	50	54.6	109	76-123	
1,3-Dichloropropane	ug/L	50	56.0	112	77-126	
1,4-Dichlorobenzene	ug/L	50	53.4	107	77-121	
2,2-Dichloropropane	ug/L	50	52.5	105	45-138	
2-Butanone (MEK)	ug/L	250	270	108	42-177	
2-Chlorotoluene	ug/L	50	55.0	110	74-129	
2-Hexanone	ug/L	250	286	114	57-162	
4-Chlorotoluene	ug/L	50	55.0	110	70-125	
4-Methyl-2-pentanone (MIBK)	ug/L	250	295	118	64-135	
Acetone	ug/L	250	267	107	10-200	
Acrolein	ug/L	1000	1340	134	10-200	
Acrylonitrile	ug/L	1000	1170	117	59-144	
Benzene	ug/L	50	56.0	112	76-123	
Bromobenzene	ug/L	50	55.2	110	67-130	
Bromochloromethane	ug/L	50	63.8	128	58-153	
Bromodichloromethane	ug/L	50	51.9	104	71-124	
Bromoform	ug/L	50	49.2	98	64-116	
Bromomethane	ug/L	50	38.0	76	23-197	
Carbon disulfide	ug/L	100	126	126	55-146	
Carbon tetrachloride	ug/L	50	52.0	104	65-125	
Chlorobenzene	ug/L	50	54.7	109	78-120	
Chloroethane	ug/L	50	54.5	109	56-163	
Chloroform	ug/L	50	60.9	122	73-122	
Chloromethane	ug/L	50	31.5	63	46-146	
cis-1,2-Dichloroethene	ug/L	50	59.5	119	79-129	
cis-1,3-Dichloropropene	ug/L	50	52.4	105	66-123	
Dibromochloromethane	ug/L	50	49.3	99	70-123	
Dibromomethane	ug/L	50	58.2	116	73-123	
Dichlorodifluoromethane	ug/L	50	55.8	112	19-200	
Ethyl methacrylate	ug/L	200	210	105	70-127	
Ethylbenzene	ug/L	50	56.3	113	75-120	
Hexachloro-1,3-butadiene	ug/L	50	56.7	113	64-131	
Iodomethane	ug/L	100	98.9	99	16-181	
Isopropylbenzene (Cumene)	ug/L	50	54.7	109	73-123	
Methyl-tert-butyl ether	ug/L	100	107	107	66-128	
Methylene Chloride	ug/L	50	47.0	94	61-138	
n-Butylbenzene	ug/L	50	56.7	113	69-130	
n-Hexane	ug/L	50	53.3	107	67-142	N2
n-Propylbenzene	ug/L	50	54.6	109	71-132	
Naphthalene	ug/L	50	57.6	115	62-130	
p-Isopropyltoluene	ug/L	50	57.7	115	71-126	
sec-Butylbenzene	ug/L	50	55.6	111	69-130	
Styrene	ug/L	50	57.9	116	75-125	

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QUALITY CONTROL DATA

Project: Carpenter Manufacturing
Pace Project No.: 5067678

LABORATORY CONTROL SAMPLE: 783906

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butylbenzene	ug/L	50	54.2	108	49-114	
Tetrachloroethene	ug/L	50	56.8	114	57-125	
Toluene	ug/L	50	53.3	107	72-124	
trans-1,2-Dichloroethene	ug/L	50	57.3	115	71-145	
trans-1,3-Dichloropropene	ug/L	50	52.2	104	58-118	
trans-1,4-Dichloro-2-butene	ug/L	200	203	102	50-121	
Trichloroethene	ug/L	50	59.4	119	77-122	
Trichlorofluoromethane	ug/L	50	57.0	114	56-159	
Vinyl acetate	ug/L	200	101	50	27-119	
Vinyl chloride	ug/L	50	50.9	102	61-146	
Xylene (Total)	ug/L	150	167	111	72-126	
4-Bromofluorobenzene (S)	%.			102	72-125	
Dibromofluoromethane (S)	%.			100	83-123	
Toluene-d8 (S)	%.			99	81-114	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 783907 783908

Parameter	Units	5067504005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	500	500	431	418	86	84	30-122	3	20	
1,1,1-Trichloroethane	ug/L	ND	500	500	474	490	95	98	37-136	3	20	
1,1,2,2-Tetrachloroethane	ug/L	ND	500	500	534	532	107	106	47-132	.3	20	
1,1,2-Trichloroethane	ug/L	ND	500	500	564	566	113	113	53-131	.4	20	
1,1-Dichloroethane	ug/L	ND	500	500	558	571	112	114	47-138	2	20	
1,1-Dichloroethene	ug/L	ND	500	500	543	552	109	110	54-152	2	20	
1,1-Dichloropropene	ug/L	ND	500	500	571	553	114	111	47-136	3	20	
1,2,3-Trichlorobenzene	ug/L	ND	500	500	500	399	100	80	15-132	22	20	
1,2,3-Trichloropropane	ug/L	ND	500	500	735	734	147	147	24-108	.1	20	M0
1,2,4-Trichlorobenzene	ug/L	ND	500	500	482	362	96	72	10-130	28	20	
1,2,4-Trimethylbenzene	ug/L	4290	500	500	4020	3340	-54	-189	10-141	18	20	M0
1,2-Dibromoethane (EDB)	ug/L	ND	500	500	498	486	100	97	49-130	2	20	
1,2-Dichlorobenzene	ug/L	ND	500	500	504	410	101	82	20-137	21	20	
1,2-Dichloroethane	ug/L	ND	500	500	513	520	103	104	42-139	1	20	
1,2-Dichloropropane	ug/L	ND	500	500	565	564	113	113	50-131	.2	20	
1,3,5-Trimethylbenzene	ug/L	964	500	500	1500	1220	108	50	10-145	21	20	
1,3-Dichlorobenzene	ug/L	ND	500	500	501	382	100	76	13-143	27	20	
1,3-Dichloropropane	ug/L	ND	500	500	526	512	105	102	53-130	3	20	
1,4-Dichlorobenzene	ug/L	ND	500	500	484	365	97	73	13-140	28	20	
2,2-Dichloropropane	ug/L	ND	500	500	437	456	87	91	13-142	4	20	
2-Butanone (MEK)	ug/L	ND	2500	2500	2930	2960	117	118	43-142	1	20	
2-Chlorotoluene	ug/L	ND	500	500	954	764	191	153	15-145	22	20	M0
2-Hexanone	ug/L	ND	2500	2500	3040	3180	122	127	46-139	4	20	
4-Chlorotoluene	ug/L	ND	500	500	522	394	104	79	12-143	28	20	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	2500	2500	2830	2800	113	112	43-140	1	20	
Acetone	ug/L	ND	2500	2500	4220	4390	169	176	38-155	4	20	M0
Acrolein	ug/L	ND	10000	10000	10700	11000	107	110	11-200	3	20	
Acrylonitrile	ug/L	ND	10000	10000	11000	11100	110	111	42-150	1	20	

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QUALITY CONTROL DATA

Project: Carpenter Manufacturing
Pace Project No.: 5067678

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 783907 783908

Parameter	Units	5067504005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	533	500	500	984	976	90	89	52-134	.8	20	
Bromobenzene	ug/L	ND	500	500	503	433	101	87	25-140	15	20	
Bromochloromethane	ug/L	ND	500	500	561	520	112	104	54-144	8	20	
Bromodichloromethane	ug/L	ND	500	500	465	483	93	97	42-128	4	20	
Bromoform	ug/L	ND	500	500	383	402	77	80	34-116	5	20	
Bromomethane	ug/L	ND	500	500	274	315	55	63	10-200	14	20	
Carbon disulfide	ug/L	ND	1000	1000	1150	1150	115	115	43-144	.3	20	
Carbon tetrachloride	ug/L	ND	500	500	405	430	81	86	26-136	6	20	
Chlorobenzene	ug/L	ND	500	500	506	446	101	89	33-136	13	20	
Chloroethane	ug/L	ND	500	500	502	497	100	99	21-200	1	20	
Chloroform	ug/L	ND	500	500	597	611	119	122	50-134	2	20	
Chloromethane	ug/L	ND	500	500	275	294	55	59	32-160	7	20	
cis-1,2-Dichloroethene	ug/L	ND	500	500	549	548	110	110	48-145	.2	20	
cis-1,3-Dichloropropene	ug/L	ND	500	500	456	449	91	90	35-116	2	20	
Dibromochloromethane	ug/L	ND	500	500	401	413	80	83	39-122	3	20	
Dibromomethane	ug/L	ND	500	500	533	536	107	107	49-134	.5	20	
Dichlorodifluoromethane	ug/L	ND	500	500	513	515	103	103	35-200	.5	20	
Ethyl methacrylate	ug/L	ND	2000	2000	1960	1950	98	98	54-123	.2	20	
Ethylbenzene	ug/L	3960	500	500	3790	3270	-33	-139	29-132	15	20	M0
Hexachloro-1,3-butadiene	ug/L	ND	500	500	481	240	96	48	10-146	67	20	
Iodomethane	ug/L	ND	1000	1000	548	657	55	66	10-171	18	20	
Isopropylbenzene (Cumene)	ug/L	205	500	500	704	559	100	71	11-146	23	20	
Methyl-tert-butyl ether	ug/L	ND	1000	1000	978	990	98	99	39-137	1	20	
Methylene Chloride	ug/L	ND	500	500	511	500	102	100	47-141	2	20	
n-Butylbenzene	ug/L	101	500	500	636	400	107	60	10-156	46	20	
n-Hexane	ug/L	584	500	500	1230	1460	129	176	51-137	17	20	N2
n-Propylbenzene	ug/L	535	500	500	1050	807	103	54	10-148	26	20	
Naphthalene	ug/L	672	500	500	1160	1100	97	86	40-124	5	20	
p-Isopropyltoluene	ug/L	ND	500	500	546	356	106	67	10-150	42	20	
sec-Butylbenzene	ug/L	ND	500	500	556	383	106	71	10-150	37	20	
Styrene	ug/L	ND	500	500	613	519	123	104	20-143	17	20	
tert-Butylbenzene	ug/L	ND	500	500	519	387	104	77	10-123	29	20	
Tetrachloroethene	ug/L	ND	500	500	528	453	106	91	30-124	15	20	
Toluene	ug/L	1090	500	500	1440	1340	71	50	42-130	8	20	
trans-1,2-Dichloroethene	ug/L	ND	500	500	526	526	105	105	48-144	.2	20	
trans-1,3-Dichloropropene	ug/L	ND	500	500	444	441	89	88	24-114	.9	20	
trans-1,4-Dichloro-2-butene	ug/L	ND	2000	2000	1660	1600	83	80	22-120	4	20	
Trichloroethene	ug/L	ND	500	500	577	544	115	109	44-130	6	20	
Trichlorofluoromethane	ug/L	ND	500	500	508	525	102	105	17-200	3	20	
Vinyl acetate	ug/L	ND	2000	2000	786	838	39	42	10-115	6	20	
Vinyl chloride	ug/L	ND	500	500	469	479	94	96	45-159	2	20	
Xylene (Total)	ug/L	17000	1500	1500	14300	12500	-176	-303	29-131	14	20	ES
4-Bromofluorobenzene (S)	%.						103	102	72-125		20	
Dibromofluoromethane (S)	%.						98	98	83-123		20	2d
Toluene-d8 (S)	%.						100	100	81-114		20	

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QUALITY CONTROL DATA

Project: Carpenter Manufacturing
Pace Project No.: 5067678

QC Batch: MSV/44995 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 5067678001, 5067678002, 5067678003, 5067678004, 5067678006, 5067678007, 5067678008

METHOD BLANK: 783876 Matrix: Solid
Associated Lab Samples: 5067678001, 5067678002, 5067678003, 5067678004, 5067678006, 5067678007, 5067678008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.0	08/17/12 14:01	
1,1,1-Trichloroethane	ug/kg	ND	5.0	08/17/12 14:01	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	08/17/12 14:01	
1,1,2-Trichloroethane	ug/kg	ND	5.0	08/17/12 14:01	
1,1-Dichloroethane	ug/kg	ND	5.0	08/17/12 14:01	
1,1-Dichloroethene	ug/kg	ND	5.0	08/17/12 14:01	
1,1-Dichloropropene	ug/kg	ND	5.0	08/17/12 14:01	
1,2,3-Trichlorobenzene	ug/kg	ND	5.0	08/17/12 14:01	
1,2,3-Trichloropropane	ug/kg	ND	5.0	08/17/12 14:01	
1,2,4-Trichlorobenzene	ug/kg	ND	5.0	08/17/12 14:01	
1,2,4-Trimethylbenzene	ug/kg	ND	5.0	08/17/12 14:01	
1,2-Dibromoethane (EDB)	ug/kg	ND	5.0	08/17/12 14:01	
1,2-Dichlorobenzene	ug/kg	ND	5.0	08/17/12 14:01	
1,2-Dichloroethane	ug/kg	ND	5.0	08/17/12 14:01	
1,2-Dichloropropane	ug/kg	ND	5.0	08/17/12 14:01	
1,3,5-Trimethylbenzene	ug/kg	ND	5.0	08/17/12 14:01	
1,3-Dichlorobenzene	ug/kg	ND	5.0	08/17/12 14:01	
1,3-Dichloropropane	ug/kg	ND	5.0	08/17/12 14:01	
1,4-Dichlorobenzene	ug/kg	ND	5.0	08/17/12 14:01	
2,2-Dichloropropane	ug/kg	ND	5.0	08/17/12 14:01	
2-Butanone (MEK)	ug/kg	ND	25.0	08/17/12 14:01	
2-Chlorotoluene	ug/kg	ND	5.0	08/17/12 14:01	
2-Hexanone	ug/kg	ND	100	08/17/12 14:01	
4-Chlorotoluene	ug/kg	ND	5.0	08/17/12 14:01	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	25.0	08/17/12 14:01	
Acetone	ug/kg	ND	100	08/17/12 14:01	
Acrolein	ug/kg	ND	100	08/17/12 14:01	
Acrylonitrile	ug/kg	ND	100	08/17/12 14:01	
Benzene	ug/kg	ND	5.0	08/17/12 14:01	
Bromobenzene	ug/kg	ND	5.0	08/17/12 14:01	
Bromochloromethane	ug/kg	ND	5.0	08/17/12 14:01	
Bromodichloromethane	ug/kg	ND	5.0	08/17/12 14:01	
Bromoform	ug/kg	ND	5.0	08/17/12 14:01	
Bromomethane	ug/kg	ND	5.0	08/17/12 14:01	
Carbon disulfide	ug/kg	ND	10.0	08/17/12 14:01	
Carbon tetrachloride	ug/kg	ND	5.0	08/17/12 14:01	
Chlorobenzene	ug/kg	ND	5.0	08/17/12 14:01	
Chloroethane	ug/kg	ND	5.0	08/17/12 14:01	
Chloroform	ug/kg	ND	5.0	08/17/12 14:01	
Chloromethane	ug/kg	ND	5.0	08/17/12 14:01	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	08/17/12 14:01	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	08/17/12 14:01	
Dibromochloromethane	ug/kg	ND	5.0	08/17/12 14:01	

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QUALITY CONTROL DATA

Project: Carpenter Manufacturing
Pace Project No.: 5067678

METHOD BLANK: 783876 Matrix: Solid

Associated Lab Samples: 5067678001, 5067678002, 5067678003, 5067678004, 5067678006, 5067678007, 5067678008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/kg	ND	5.0	08/17/12 14:01	
Dichlorodifluoromethane	ug/kg	ND	5.0	08/17/12 14:01	
Ethyl methacrylate	ug/kg	ND	100	08/17/12 14:01	
Ethylbenzene	ug/kg	ND	5.0	08/17/12 14:01	
Hexachloro-1,3-butadiene	ug/kg	ND	5.0	08/17/12 14:01	
Iodomethane	ug/kg	ND	100	08/17/12 14:01	
Isopropylbenzene (Cumene)	ug/kg	ND	5.0	08/17/12 14:01	
Methyl-tert-butyl ether	ug/kg	ND	5.0	08/17/12 14:01	
Methylene Chloride	ug/kg	ND	20.0	08/17/12 14:01	
n-Butylbenzene	ug/kg	ND	5.0	08/17/12 14:01	
n-Hexane	ug/kg	ND	5.0	08/17/12 14:01	N2
n-Propylbenzene	ug/kg	ND	5.0	08/17/12 14:01	
Naphthalene	ug/kg	ND	5.0	08/17/12 14:01	
p-Isopropyltoluene	ug/kg	ND	5.0	08/17/12 14:01	
sec-Butylbenzene	ug/kg	ND	5.0	08/17/12 14:01	
Styrene	ug/kg	ND	5.0	08/17/12 14:01	
tert-Butylbenzene	ug/kg	ND	5.0	08/17/12 14:01	
Tetrachloroethene	ug/kg	ND	5.0	08/17/12 14:01	
Toluene	ug/kg	ND	5.0	08/17/12 14:01	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	08/17/12 14:01	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	08/17/12 14:01	
trans-1,4-Dichloro-2-butene	ug/kg	ND	100	08/17/12 14:01	
Trichloroethene	ug/kg	ND	5.0	08/17/12 14:01	
Trichlorofluoromethane	ug/kg	ND	5.0	08/17/12 14:01	
Vinyl acetate	ug/kg	ND	100	08/17/12 14:01	
Vinyl chloride	ug/kg	ND	5.0	08/17/12 14:01	
Xylene (Total)	ug/kg	ND	10.0	08/17/12 14:01	
4-Bromofluorobenzene (S)	%.	98	67-134	08/17/12 14:01	
Dibromofluoromethane (S)	%.	95	71-125	08/17/12 14:01	
Toluene-d8 (S)	%.	99	76-124	08/17/12 14:01	

LABORATORY CONTROL SAMPLE: 783877

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	50	46.8	94	68-125	
1,1,1-Trichloroethane	ug/kg	50	48.4	97	63-124	
1,1,2,2-Tetrachloroethane	ug/kg	50	49.8	100	73-123	
1,1,2-Trichloroethane	ug/kg	50	51.7	103	70-124	
1,1-Dichloroethane	ug/kg	50	52.5	105	63-122	
1,1-Dichloroethene	ug/kg	50	56.4	113	71-129	
1,1-Dichloropropene	ug/kg	50	49.1	98	71-122	
1,2,3-Trichlorobenzene	ug/kg	50	55.0	110	68-123	
1,2,3-Trichloropropane	ug/kg	50	83.5	167	47-117	L3
1,2,4-Trichlorobenzene	ug/kg	50	54.5	109	68-125	
1,2,4-Trimethylbenzene	ug/kg	50	51.6	103	69-120	

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QUALITY CONTROL DATA

Project: Carpenter Manufacturing
Pace Project No.: 5067678

LABORATORY CONTROL SAMPLE: 783877

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromoethane (EDB)	ug/kg	50	48.5	97	67-121	
1,2-Dichlorobenzene	ug/kg	50	50.5	101	71-121	
1,2-Dichloroethane	ug/kg	50	49.1	98	74-120	
1,2-Dichloropropane	ug/kg	50	48.9	98	71-117	
1,3,5-Trimethylbenzene	ug/kg	50	52.4	105	64-119	
1,3-Dichlorobenzene	ug/kg	50	50.4	101	70-122	
1,3-Dichloropropane	ug/kg	50	52.3	105	68-118	
1,4-Dichlorobenzene	ug/kg	50	50.9	102	71-118	
2,2-Dichloropropane	ug/kg	50	47.5	95	62-119	
2-Butanone (MEK)	ug/kg	250	256	102	38-154	
2-Chlorotoluene	ug/kg	50	50.8	102	71-120	
2-Hexanone	ug/kg	250	279	112	50-134	
4-Chlorotoluene	ug/kg	50	51.7	103	72-123	
4-Methyl-2-pentanone (MIBK)	ug/kg	250	273	109	66-122	
Acetone	ug/kg	250	281	112	10-200	
Acrolein	ug/kg	1000	1400	140	11-200	
Acrylonitrile	ug/kg	1000	1070	107	66-120	
Benzene	ug/kg	50	50.4	101	73-115	
Bromobenzene	ug/kg	50	51.9	104	64-130	
Bromochloromethane	ug/kg	50	53.4	107	71-127	
Bromodichloromethane	ug/kg	50	45.9	92	60-121	
Bromoform	ug/kg	50	49.8	100	44-130	
Bromomethane	ug/kg	50	50.4	101	48-175	
Carbon disulfide	ug/kg	100	111	111	71-126	
Carbon tetrachloride	ug/kg	50	46.0	92	57-127	
Chlorobenzene	ug/kg	50	49.9	100	72-121	
Chloroethane	ug/kg	50	53.1	106	72-141	
Chloroform	ug/kg	50	53.0	106	74-114	
Chloromethane	ug/kg	50	53.5	107	51-126	
cis-1,2-Dichloroethene	ug/kg	50	49.6	99	72-115	
cis-1,3-Dichloropropene	ug/kg	50	48.3	97	64-115	
Dibromochloromethane	ug/kg	50	46.5	93	58-114	
Dibromomethane	ug/kg	50	54.5	109	73-120	
Dichlorodifluoromethane	ug/kg	50	74.0	148	32-167	
Ethyl methacrylate	ug/kg	200	186	93	65-117	
Ethylbenzene	ug/kg	50	51.3	103	73-120	
Hexachloro-1,3-butadiene	ug/kg	50	53.8	108	65-121	
Iodomethane	ug/kg	100	104	104	45-156	
Isopropylbenzene (Cumene)	ug/kg	50	49.0	98	74-123	
Methyl-tert-butyl ether	ug/kg	100	96.9	97	69-123	
Methylene Chloride	ug/kg	50	50.3	101	58-124	
n-Butylbenzene	ug/kg	50	54.0	108	71-118	
n-Hexane	ug/kg	50	47.7	95	50-106	N2
n-Propylbenzene	ug/kg	50	50.2	100	70-120	
Naphthalene	ug/kg	50	49.0	98	67-124	
p-Isopropyltoluene	ug/kg	50	53.5	107	71-123	
sec-Butylbenzene	ug/kg	50	51.4	103	66-122	
Styrene	ug/kg	50	52.6	105	75-118	

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QUALITY CONTROL DATA

Project: Carpenter Manufacturing
Pace Project No.: 5067678

LABORATORY CONTROL SAMPLE: 783877

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butylbenzene	ug/kg	50	47.5	95	54-124	
Tetrachloroethene	ug/kg	50	51.6	103	66-126	
Toluene	ug/kg	50	48.8	98	69-115	
trans-1,2-Dichloroethene	ug/kg	50	51.0	102	69-120	
trans-1,3-Dichloropropene	ug/kg	50	48.9	98	61-116	
trans-1,4-Dichloro-2-butene	ug/kg	200	176	88	59-130	
Trichloroethene	ug/kg	50	52.0	104	71-117	
Trichlorofluoromethane	ug/kg	50	54.2	108	67-138	
Vinyl acetate	ug/kg	200	105	53	35-134	
Vinyl chloride	ug/kg	50	54.2	108	64-127	
Xylene (Total)	ug/kg	150	153	102	69-117	
4-Bromofluorobenzene (S)	%.			100	67-134	
Dibromofluoromethane (S)	%.			100	71-125	
Toluene-d8 (S)	%.			101	76-124	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 783885 783886

Parameter	Units	5067678002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/kg	ND	40.3	44.5	14.6	19.7	36	44	10-111	30	20	
1,1,1-Trichloroethane	ug/kg	ND	40.3	44.5	16.9	21.6	42	49	36-128	24	20	
1,1,2,2-Tetrachloroethane	ug/kg	ND	40.3	44.5	15.2	22.7	38	51	10-130	39	20	
1,1,2-Trichloroethane	ug/kg	ND	40.3	44.5	18.7	27.2	46	61	10-126	37	20	
1,1-Dichloroethane	ug/kg	ND	40.3	44.5	20.0	26.7	50	60	39-126	29	20	
1,1-Dichloroethene	ug/kg	ND	40.3	44.5	17.5	25.3	43	57	42-147	36	20	
1,1-Dichloropropene	ug/kg	ND	40.3	44.5	12.7	18.6	31	42	29-129	38	20	
1,2,3-Trichlorobenzene	ug/kg	ND	40.3	44.5	3J	4.5	7	10	10-91		20	M0
1,2,3-Trichloropropane	ug/kg	ND	40.3	44.5	20.3	32.3	50	73	10-99	46	20	
1,2,4-Trichlorobenzene	ug/kg	ND	40.3	44.5	3J	4.1J	7	9	10-88		20	M0
1,2,4-Trimethylbenzene	ug/kg	ND	40.3	44.5	8.1	10.4	18	22	10-109	24	20	
1,2-Dibromoethane (EDB)	ug/kg	ND	40.3	44.5	15.0	24.5	37	55	10-119	48	20	
1,2-Dichlorobenzene	ug/kg	ND	40.3	44.5	5.5	8.8	14	20	10-104	47	20	
1,2-Dichloroethane	ug/kg	ND	40.3	44.5	20.3	28.2	50	63	19-126	33	20	
1,2-Dichloropropane	ug/kg	ND	40.3	44.5	17.7	24.8	44	56	24-123	33	20	
1,3,5-Trimethylbenzene	ug/kg	ND	40.3	44.5	8.4	9.9	20	22	10-118	16	20	
1,3-Dichlorobenzene	ug/kg	ND	40.3	44.5	5.1	8.0	13	18	10-108	43	20	
1,3-Dichloropropane	ug/kg	ND	40.3	44.5	16.6	25.2	41	57	12-121	41	20	
1,4-Dichlorobenzene	ug/kg	ND	40.3	44.5	5.2	8.4	13	19	10-104	46	20	
2,2-Dichloropropane	ug/kg	ND	40.3	44.5	18.5	22.4	46	50	32-124	19	20	
2-Butanone (MEK)	ug/kg	ND	202	222	155	196	77	88	10-183	23	20	
2-Chlorotoluene	ug/kg	ND	40.3	44.5	7.6	10.7	19	24	10-128	34	20	
2-Hexanone	ug/kg	ND	202	222	136	182	67	82	10-158	29	20	
4-Chlorotoluene	ug/kg	ND	40.3	44.5	6.5	10.1	16	23	10-119	43	20	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	202	222	127	162	63	73	12-130	24	20	
Acetone	ug/kg	ND	202	222	214	349	106	157	10-200	48	20	
Acrolein	ug/kg	ND	807	888	726	872	90	98	10-200	18	20	
Acrylonitrile	ug/kg	ND	807	888	549	673	68	76	19-130	20	20	

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QUALITY CONTROL DATA

Project: Carpenter Manufacturing
Pace Project No.: 5067678

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 783885 783886

Parameter	Units	5067678002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/kg	ND	40.3	44.5	16.1	23.6	40	53	23-138	38	20	
Bromobenzene	ug/kg	ND	40.3	44.5	7.1	13.6	17	31	10-111	64	20	
Bromochloromethane	ug/kg	ND	40.3	44.5	20.4	29.4	51	66	26-126	36	20	
Bromodichloromethane	ug/kg	ND	40.3	44.5	15.7	22.1	39	50	10-120	33	20	
Bromoform	ug/kg	ND	40.3	44.5	11.9	17.9	30	40	10-106	40	20	
Bromomethane	ug/kg	ND	40.3	44.5	24.3	30.9	60	69	10-190	24	20	
Carbon disulfide	ug/kg	ND	80.7	88.8	28.5	46.4	35	52	31-128	48	20	
Carbon tetrachloride	ug/kg	ND	40.3	44.5	14.3	18.2	36	41	26-126	24	20	
Chlorobenzene	ug/kg	ND	40.3	44.5	9.2	16.1	23	36	10-120	55	20	
Chloroethane	ug/kg	ND	40.3	44.5	22.0	27.5	55	62	18-186	22	20	
Chloroform	ug/kg	ND	40.3	44.5	18.5	26.1	46	59	29-126	34	20	
Chloromethane	ug/kg	ND	40.3	44.5	23.7	28.1	59	63	34-131	17	20	
cis-1,2-Dichloroethene	ug/kg	ND	40.3	44.5	16.8	24.2	42	54	28-132	36	20	
cis-1,3-Dichloropropene	ug/kg	ND	40.3	44.5	14.7	22.1	36	50	10-108	40	20	
Dibromochloromethane	ug/kg	ND	40.3	44.5	14.4	20.6	36	46	10-108	35	20	
Dibromomethane	ug/kg	ND	40.3	44.5	18.3	27.6	45	62	13-122	40	20	
Dichlorodifluoromethane	ug/kg	ND	40.3	44.5	26.8	34.4	67	78	10-197	25	20	
Ethyl methacrylate	ug/kg	ND	162	177	67.2J	93.2	42	52	10-130		20	
Ethylbenzene	ug/kg	ND	40.3	44.5	9.8	14.8	24	33	10-135	40	20	
Hexachloro-1,3-butadiene	ug/kg	ND	40.3	44.5	5.2	3.7J	13	8	10-105		20	
Iodomethane	ug/kg	ND	80.7	88.8	ND	49.4J	35	56	10-163		20	
Isopropylbenzene (Cumene)	ug/kg	ND	40.3	44.5	8.4	10.7	21	24	10-121	24	20	
Methyl-tert-butyl ether	ug/kg	ND	80.7	88.8	49.2	58.3	61	66	20-140	17	20	
Methylene Chloride	ug/kg	ND	40.3	44.5	22.2	28.4	48	58	28-131	25	20	
n-Butylbenzene	ug/kg	ND	40.3	44.5	5.3	4.9	13	11	10-110	9	20	
n-Hexane	ug/kg	ND	40.3	44.5	8.1	8.1	20	18	21-150	.3	20	M0,N2
n-Propylbenzene	ug/kg	ND	40.3	44.5	7.4	8.8	18	20	10-123	17	20	
Naphthalene	ug/kg	ND	40.3	44.5	7.2	10.3	18	23	10-106	36	20	
p-Isopropyltoluene	ug/kg	ND	40.3	44.5	6.9	7.1	17	16	10-117	3	20	
sec-Butylbenzene	ug/kg	ND	40.3	44.5	7.1	6.8	18	15	10-123	4	20	
Styrene	ug/kg	ND	40.3	44.5	8.3	14.9	21	34	10-119	57	20	
tert-Butylbenzene	ug/kg	ND	40.3	44.5	8.1	8.6	20	19	10-105	7	20	
Tetrachloroethene	ug/kg	ND	40.3	44.5	9.7	13.3	24	30	10-122	31	20	
Toluene	ug/kg	ND	40.3	44.5	11.9	18.6	30	42	10-131	44	20	
trans-1,2-Dichloroethene	ug/kg	ND	40.3	44.5	15.7	23.0	39	52	32-136	38	20	
trans-1,3-Dichloropropene	ug/kg	ND	40.3	44.5	13.7	21.7	34	49	10-101	45	20	
trans-1,4-Dichloro-2-butene	ug/kg	ND	162	177	ND	68.3J	23	38	10-104		20	
Trichloroethene	ug/kg	ND	40.3	44.5	12.5	19.8	31	45	15-133	45	20	
Trichlorofluoromethane	ug/kg	ND	40.3	44.5	18.6	24.4	46	55	37-152	27	20	
Vinyl acetate	ug/kg	ND	162	177	41.6J	48.3J	26	27	10-103		20	
Vinyl chloride	ug/kg	ND	40.3	44.5	21.4	27.5	53	62	41-147	25	20	
Xylene (Total)	ug/kg	ND	121	134	29.2	44.6	24	33	10-131	42	20	
4-Bromofluorobenzene (S)	%.						99	100	67-134		20	
Dibromofluoromethane (S)	%.						99	98	71-125		20	2d
Toluene-d8 (S)	%.						102	100	76-124		20	

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QUALITY CONTROL DATA

Project: Carpenter Manufacturing
Pace Project No.: 5067678

QC Batch: MSV/44996 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 5067678010, 5067678011, 5067678012, 5067678013

METHOD BLANK: 783878 Matrix: Solid
Associated Lab Samples: 5067678010, 5067678011, 5067678012, 5067678013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.0	08/18/12 01:19	
1,1,1-Trichloroethane	ug/kg	ND	5.0	08/18/12 01:19	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	08/18/12 01:19	
1,1,2-Trichloroethane	ug/kg	ND	5.0	08/18/12 01:19	
1,1-Dichloroethane	ug/kg	ND	5.0	08/18/12 01:19	
1,1-Dichloroethene	ug/kg	ND	5.0	08/18/12 01:19	
1,1-Dichloropropene	ug/kg	ND	5.0	08/18/12 01:19	
1,2,3-Trichlorobenzene	ug/kg	ND	5.0	08/18/12 01:19	
1,2,3-Trichloropropane	ug/kg	ND	5.0	08/18/12 01:19	
1,2,4-Trichlorobenzene	ug/kg	ND	5.0	08/18/12 01:19	
1,2,4-Trimethylbenzene	ug/kg	ND	5.0	08/18/12 01:19	
1,2-Dibromoethane (EDB)	ug/kg	ND	5.0	08/18/12 01:19	
1,2-Dichlorobenzene	ug/kg	ND	5.0	08/18/12 01:19	
1,2-Dichloroethane	ug/kg	ND	5.0	08/18/12 01:19	
1,2-Dichloropropane	ug/kg	ND	5.0	08/18/12 01:19	
1,3,5-Trimethylbenzene	ug/kg	ND	5.0	08/18/12 01:19	
1,3-Dichlorobenzene	ug/kg	ND	5.0	08/18/12 01:19	
1,3-Dichloropropane	ug/kg	ND	5.0	08/18/12 01:19	
1,4-Dichlorobenzene	ug/kg	ND	5.0	08/18/12 01:19	
2,2-Dichloropropane	ug/kg	ND	5.0	08/18/12 01:19	
2-Butanone (MEK)	ug/kg	ND	25.0	08/18/12 01:19	
2-Chlorotoluene	ug/kg	ND	5.0	08/18/12 01:19	
2-Hexanone	ug/kg	ND	100	08/18/12 01:19	
4-Chlorotoluene	ug/kg	ND	5.0	08/18/12 01:19	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	25.0	08/18/12 01:19	
Acetone	ug/kg	ND	100	08/18/12 01:19	
Acrolein	ug/kg	ND	100	08/18/12 01:19	
Acrylonitrile	ug/kg	ND	100	08/18/12 01:19	
Benzene	ug/kg	ND	5.0	08/18/12 01:19	
Bromobenzene	ug/kg	ND	5.0	08/18/12 01:19	
Bromochloromethane	ug/kg	ND	5.0	08/18/12 01:19	
Bromodichloromethane	ug/kg	ND	5.0	08/18/12 01:19	
Bromoform	ug/kg	ND	5.0	08/18/12 01:19	
Bromomethane	ug/kg	ND	5.0	08/18/12 01:19	
Carbon disulfide	ug/kg	ND	10.0	08/18/12 01:19	
Carbon tetrachloride	ug/kg	ND	5.0	08/18/12 01:19	
Chlorobenzene	ug/kg	ND	5.0	08/18/12 01:19	
Chloroethane	ug/kg	ND	5.0	08/18/12 01:19	
Chloroform	ug/kg	ND	5.0	08/18/12 01:19	
Chloromethane	ug/kg	ND	5.0	08/18/12 01:19	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	08/18/12 01:19	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	08/18/12 01:19	
Dibromochloromethane	ug/kg	ND	5.0	08/18/12 01:19	

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QUALITY CONTROL DATA

Project: Carpenter Manufacturing
Pace Project No.: 5067678

METHOD BLANK: 783878 Matrix: Solid

Associated Lab Samples: 5067678010, 5067678011, 5067678012, 5067678013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/kg	ND	5.0	08/18/12 01:19	
Dichlorodifluoromethane	ug/kg	ND	5.0	08/18/12 01:19	
Ethyl methacrylate	ug/kg	ND	100	08/18/12 01:19	
Ethylbenzene	ug/kg	ND	5.0	08/18/12 01:19	
Hexachloro-1,3-butadiene	ug/kg	ND	5.0	08/18/12 01:19	
Iodomethane	ug/kg	ND	100	08/18/12 01:19	
Isopropylbenzene (Cumene)	ug/kg	ND	5.0	08/18/12 01:19	
Methyl-tert-butyl ether	ug/kg	ND	5.0	08/18/12 01:19	
Methylene Chloride	ug/kg	ND	20.0	08/18/12 01:19	
n-Butylbenzene	ug/kg	ND	5.0	08/18/12 01:19	
n-Hexane	ug/kg	ND	5.0	08/18/12 01:19	N2
n-Propylbenzene	ug/kg	ND	5.0	08/18/12 01:19	
Naphthalene	ug/kg	ND	5.0	08/18/12 01:19	
p-Isopropyltoluene	ug/kg	ND	5.0	08/18/12 01:19	
sec-Butylbenzene	ug/kg	ND	5.0	08/18/12 01:19	
Styrene	ug/kg	ND	5.0	08/18/12 01:19	
tert-Butylbenzene	ug/kg	ND	5.0	08/18/12 01:19	
Tetrachloroethene	ug/kg	ND	5.0	08/18/12 01:19	
Toluene	ug/kg	ND	5.0	08/18/12 01:19	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	08/18/12 01:19	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	08/18/12 01:19	
trans-1,4-Dichloro-2-butene	ug/kg	ND	100	08/18/12 01:19	
Trichloroethene	ug/kg	ND	5.0	08/18/12 01:19	
Trichlorofluoromethane	ug/kg	ND	5.0	08/18/12 01:19	
Vinyl acetate	ug/kg	ND	100	08/18/12 01:19	
Vinyl chloride	ug/kg	ND	5.0	08/18/12 01:19	
Xylene (Total)	ug/kg	ND	10.0	08/18/12 01:19	
4-Bromofluorobenzene (S)	%.	98	67-134	08/18/12 01:19	
Dibromofluoromethane (S)	%.	95	71-125	08/18/12 01:19	
Toluene-d8 (S)	%.	99	76-124	08/18/12 01:19	

LABORATORY CONTROL SAMPLE: 783879

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	50	50.9	102	68-125	
1,1,1-Trichloroethane	ug/kg	50	54.6	109	63-124	
1,1,2,2-Tetrachloroethane	ug/kg	50	53.1	106	73-123	
1,1,2-Trichloroethane	ug/kg	50	56.4	113	70-124	
1,1-Dichloroethane	ug/kg	50	59.5	119	63-122	
1,1-Dichloroethene	ug/kg	50	64.3	129	71-129	
1,1-Dichloropropene	ug/kg	50	55.0	110	71-122	
1,2,3-Trichlorobenzene	ug/kg	50	57.5	115	68-123	
1,2,3-Trichloropropane	ug/kg	50	85.5	171	47-117	L3
1,2,4-Trichlorobenzene	ug/kg	50	55.7	111	68-125	
1,2,4-Trimethylbenzene	ug/kg	50	55.7	111	69-120	

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QUALITY CONTROL DATA

Project: Carpenter Manufacturing
Pace Project No.: 5067678

LABORATORY CONTROL SAMPLE: 783879

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromoethane (EDB)	ug/kg	50	53.5	107	67-121	
1,2-Dichlorobenzene	ug/kg	50	54.6	109	71-121	
1,2-Dichloroethane	ug/kg	50	56.1	112	74-120	
1,2-Dichloropropane	ug/kg	50	54.0	108	71-117	
1,3,5-Trimethylbenzene	ug/kg	50	56.8	114	64-119	
1,3-Dichlorobenzene	ug/kg	50	53.8	108	70-122	
1,3-Dichloropropane	ug/kg	50	56.1	112	68-118	
1,4-Dichlorobenzene	ug/kg	50	53.7	107	71-118	
2,2-Dichloropropane	ug/kg	50	52.6	105	62-119	
2-Butanone (MEK)	ug/kg	250	267	107	38-154	
2-Chlorotoluene	ug/kg	50	54.6	109	71-120	
2-Hexanone	ug/kg	250	295	118	50-134	
4-Chlorotoluene	ug/kg	50	55.5	111	72-123	
4-Methyl-2-pentanone (MIBK)	ug/kg	250	295	118	66-122	
Acetone	ug/kg	250	283	113	10-200	
Acrolein	ug/kg	1000	1520	152	11-200	
Acrylonitrile	ug/kg	1000	1170	117	66-120	
Benzene	ug/kg	50	56.0	112	73-115	
Bromobenzene	ug/kg	50	55.2	110	64-130	
Bromochloromethane	ug/kg	50	60.8	122	71-127	
Bromodichloromethane	ug/kg	50	51.5	103	60-121	
Bromoform	ug/kg	50	54.3	109	44-130	
Bromomethane	ug/kg	50	59.1	118	48-175	
Carbon disulfide	ug/kg	100	125	125	71-126	
Carbon tetrachloride	ug/kg	50	51.3	103	57-127	
Chlorobenzene	ug/kg	50	55.5	111	72-121	
Chloroethane	ug/kg	50	60.5	121	72-141	
Chloroform	ug/kg	50	60.1	120	74-114	L3
Chloromethane	ug/kg	50	60.5	121	51-126	
cis-1,2-Dichloroethene	ug/kg	50	54.1	108	72-115	
cis-1,3-Dichloropropene	ug/kg	50	51.2	102	64-115	
Dibromochloromethane	ug/kg	50	49.6	99	58-114	
Dibromomethane	ug/kg	50	59.4	119	73-120	
Dichlorodifluoromethane	ug/kg	50	84.7	169	32-167	L3
Ethyl methacrylate	ug/kg	200	198	99	65-117	
Ethylbenzene	ug/kg	50	56.3	113	73-120	
Hexachloro-1,3-butadiene	ug/kg	50	56.8	114	65-121	
Iodomethane	ug/kg	100	118	118	45-156	
Isopropylbenzene (Cumene)	ug/kg	50	54.5	109	74-123	
Methyl-tert-butyl ether	ug/kg	100	106	106	69-123	
Methylene Chloride	ug/kg	50	59.4	119	58-124	
n-Butylbenzene	ug/kg	50	56.6	113	71-118	
n-Hexane	ug/kg	50	53.5	107	50-106	L3,N2
n-Propylbenzene	ug/kg	50	54.8	110	70-120	
Naphthalene	ug/kg	50	50.7	101	67-124	
p-Isopropyltoluene	ug/kg	50	58.0	116	71-123	
sec-Butylbenzene	ug/kg	50	56.0	112	66-122	
Styrene	ug/kg	50	57.8	116	75-118	

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QUALITY CONTROL DATA

Project: Carpenter Manufacturing
Pace Project No.: 5067678

LABORATORY CONTROL SAMPLE: 783879

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butylbenzene	ug/kg	50	52.4	105	54-124	
Tetrachloroethene	ug/kg	50	56.9	114	66-126	
Toluene	ug/kg	50	53.4	107	69-115	
trans-1,2-Dichloroethene	ug/kg	50	57.1	114	69-120	
trans-1,3-Dichloropropene	ug/kg	50	52.0	104	61-116	
trans-1,4-Dichloro-2-butene	ug/kg	200	184	92	59-130	
Trichloroethene	ug/kg	50	59.4	119	71-117	L3
Trichlorofluoromethane	ug/kg	50	64.7	129	67-138	
Vinyl acetate	ug/kg	200	113	56	35-134	
Vinyl chloride	ug/kg	50	62.2	124	64-127	
Xylene (Total)	ug/kg	150	168	112	69-117	
4-Bromofluorobenzene (S)	%.			100	67-134	
Dibromofluoromethane (S)	%.			101	71-125	
Toluene-d8 (S)	%.			98	76-124	

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QUALITY CONTROL DATA

Project: Carpenter Manufacturing
Pace Project No.: 5067678

QC Batch: MSV/45066
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 5067678009

METHOD BLANK: 785166
Matrix: Solid
Associated Lab Samples: 5067678009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.0	08/21/12 14:46	
1,1,1-Trichloroethane	ug/kg	ND	5.0	08/21/12 14:46	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	08/21/12 14:46	
1,1,2-Trichloroethane	ug/kg	ND	5.0	08/21/12 14:46	
1,1-Dichloroethane	ug/kg	ND	5.0	08/21/12 14:46	
1,1-Dichloroethene	ug/kg	ND	5.0	08/21/12 14:46	
1,1-Dichloropropene	ug/kg	ND	5.0	08/21/12 14:46	
1,2,3-Trichlorobenzene	ug/kg	ND	5.0	08/21/12 14:46	
1,2,3-Trichloropropane	ug/kg	ND	5.0	08/21/12 14:46	
1,2,4-Trichlorobenzene	ug/kg	ND	5.0	08/21/12 14:46	
1,2,4-Trimethylbenzene	ug/kg	ND	5.0	08/21/12 14:46	
1,2-Dibromoethane (EDB)	ug/kg	ND	5.0	08/21/12 14:46	
1,2-Dichlorobenzene	ug/kg	ND	5.0	08/21/12 14:46	
1,2-Dichloroethane	ug/kg	ND	5.0	08/21/12 14:46	
1,2-Dichloropropane	ug/kg	ND	5.0	08/21/12 14:46	
1,3,5-Trimethylbenzene	ug/kg	ND	5.0	08/21/12 14:46	
1,3-Dichlorobenzene	ug/kg	ND	5.0	08/21/12 14:46	
1,3-Dichloropropane	ug/kg	ND	5.0	08/21/12 14:46	
1,4-Dichlorobenzene	ug/kg	ND	5.0	08/21/12 14:46	
2,2-Dichloropropane	ug/kg	ND	5.0	08/21/12 14:46	
2-Butanone (MEK)	ug/kg	ND	25.0	08/21/12 14:46	
2-Chlorotoluene	ug/kg	ND	5.0	08/21/12 14:46	
2-Hexanone	ug/kg	ND	100	08/21/12 14:46	
4-Chlorotoluene	ug/kg	ND	5.0	08/21/12 14:46	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	25.0	08/21/12 14:46	
Acetone	ug/kg	ND	100	08/21/12 14:46	
Acrolein	ug/kg	ND	100	08/21/12 14:46	
Acrylonitrile	ug/kg	ND	100	08/21/12 14:46	
Benzene	ug/kg	ND	5.0	08/21/12 14:46	
Bromobenzene	ug/kg	ND	5.0	08/21/12 14:46	
Bromochloromethane	ug/kg	ND	5.0	08/21/12 14:46	
Bromodichloromethane	ug/kg	ND	5.0	08/21/12 14:46	
Bromoform	ug/kg	ND	5.0	08/21/12 14:46	
Bromomethane	ug/kg	ND	5.0	08/21/12 14:46	
Carbon disulfide	ug/kg	ND	10.0	08/21/12 14:46	
Carbon tetrachloride	ug/kg	ND	5.0	08/21/12 14:46	
Chlorobenzene	ug/kg	ND	5.0	08/21/12 14:46	
Chloroethane	ug/kg	ND	5.0	08/21/12 14:46	
Chloroform	ug/kg	ND	5.0	08/21/12 14:46	
Chloromethane	ug/kg	ND	5.0	08/21/12 14:46	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	08/21/12 14:46	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	08/21/12 14:46	
Dibromochloromethane	ug/kg	ND	5.0	08/21/12 14:46	

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QUALITY CONTROL DATA

Project: Carpenter Manufacturing
Pace Project No.: 5067678

METHOD BLANK: 785166 Matrix: Solid

Associated Lab Samples: 5067678009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/kg	ND	5.0	08/21/12 14:46	
Dichlorodifluoromethane	ug/kg	ND	5.0	08/21/12 14:46	
Ethyl methacrylate	ug/kg	ND	100	08/21/12 14:46	
Ethylbenzene	ug/kg	ND	5.0	08/21/12 14:46	
Hexachloro-1,3-butadiene	ug/kg	ND	5.0	08/21/12 14:46	
Iodomethane	ug/kg	ND	100	08/21/12 14:46	
Isopropylbenzene (Cumene)	ug/kg	ND	5.0	08/21/12 14:46	
Methyl-tert-butyl ether	ug/kg	ND	5.0	08/21/12 14:46	
Methylene Chloride	ug/kg	ND	20.0	08/21/12 14:46	
n-Butylbenzene	ug/kg	ND	5.0	08/21/12 14:46	
n-Hexane	ug/kg	ND	5.0	08/21/12 14:46	N2
n-Propylbenzene	ug/kg	ND	5.0	08/21/12 14:46	
Naphthalene	ug/kg	ND	5.0	08/21/12 14:46	
p-Isopropyltoluene	ug/kg	ND	5.0	08/21/12 14:46	
sec-Butylbenzene	ug/kg	ND	5.0	08/21/12 14:46	
Styrene	ug/kg	ND	5.0	08/21/12 14:46	
tert-Butylbenzene	ug/kg	ND	5.0	08/21/12 14:46	
Tetrachloroethene	ug/kg	ND	5.0	08/21/12 14:46	
Toluene	ug/kg	ND	5.0	08/21/12 14:46	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	08/21/12 14:46	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	08/21/12 14:46	
trans-1,4-Dichloro-2-butene	ug/kg	ND	100	08/21/12 14:46	
Trichloroethene	ug/kg	ND	5.0	08/21/12 14:46	
Trichlorofluoromethane	ug/kg	ND	5.0	08/21/12 14:46	
Vinyl acetate	ug/kg	ND	100	08/21/12 14:46	
Vinyl chloride	ug/kg	ND	5.0	08/21/12 14:46	
Xylene (Total)	ug/kg	ND	10.0	08/21/12 14:46	
4-Bromofluorobenzene (S)	%.	98	67-134	08/21/12 14:46	
Dibromofluoromethane (S)	%.	94	71-125	08/21/12 14:46	
Toluene-d8 (S)	%.	100	76-124	08/21/12 14:46	

LABORATORY CONTROL SAMPLE: 785167

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	50	49.4	99	68-125	
1,1,1-Trichloroethane	ug/kg	50	52.1	104	63-124	
1,1,2,2-Tetrachloroethane	ug/kg	50	51.1	102	73-123	
1,1,2-Trichloroethane	ug/kg	50	56.0	112	70-124	
1,1-Dichloroethane	ug/kg	50	55.1	110	63-122	
1,1-Dichloroethene	ug/kg	50	52.8	106	71-129	
1,1-Dichloropropene	ug/kg	50	53.4	107	71-122	
1,2,3-Trichlorobenzene	ug/kg	50	52.6	105	68-123	
1,2,3-Trichloropropane	ug/kg	50	87.1	174	47-117	L3
1,2,4-Trichlorobenzene	ug/kg	50	55.7	111	68-125	
1,2,4-Trimethylbenzene	ug/kg	50	53.7	107	69-120	

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QUALITY CONTROL DATA

Project: Carpenter Manufacturing
Pace Project No.: 5067678

LABORATORY CONTROL SAMPLE: 785167

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromoethane (EDB)	ug/kg	50	51.5	103	67-121	
1,2-Dichlorobenzene	ug/kg	50	52.2	104	71-121	
1,2-Dichloroethane	ug/kg	50	53.5	107	74-120	
1,2-Dichloropropane	ug/kg	50	53.3	107	71-117	
1,3,5-Trimethylbenzene	ug/kg	50	54.4	109	64-119	
1,3-Dichlorobenzene	ug/kg	50	52.6	105	70-122	
1,3-Dichloropropane	ug/kg	50	53.9	108	68-118	
1,4-Dichlorobenzene	ug/kg	50	52.2	104	71-118	
2,2-Dichloropropane	ug/kg	50	53.9	108	62-119	
2-Butanone (MEK)	ug/kg	250	287	115	38-154	
2-Chlorotoluene	ug/kg	50	52.9	106	71-120	
2-Hexanone	ug/kg	250	272	109	50-134	
4-Chlorotoluene	ug/kg	50	55.2	110	72-123	
4-Methyl-2-pentanone (MIBK)	ug/kg	250	263	105	66-122	
Acetone	ug/kg	250	335	134	10-200	
Acrolein	ug/kg	1000	1750	175	11-200	
Acrylonitrile	ug/kg	1000	1100	110	66-120	
Benzene	ug/kg	50	53.5	107	73-115	
Bromobenzene	ug/kg	50	52.0	104	64-130	
Bromochloromethane	ug/kg	50	60.0	120	71-127	
Bromodichloromethane	ug/kg	50	49.9	100	60-121	
Bromoform	ug/kg	50	46.0	92	44-130	
Bromomethane	ug/kg	50	50.3	101	48-175	
Carbon disulfide	ug/kg	100	111	111	71-126	
Carbon tetrachloride	ug/kg	50	49.3	99	57-127	
Chlorobenzene	ug/kg	50	52.9	106	72-121	
Chloroethane	ug/kg	50	59.5	119	72-141	
Chloroform	ug/kg	50	53.6	107	74-114	
Chloromethane	ug/kg	50	55.1	110	51-126	
cis-1,2-Dichloroethene	ug/kg	50	51.9	104	72-115	
cis-1,3-Dichloropropene	ug/kg	50	51.9	104	64-115	
Dibromochloromethane	ug/kg	50	47.3	95	58-114	
Dibromomethane	ug/kg	50	52.2	104	73-120	
Dichlorodifluoromethane	ug/kg	50	69.2	138	32-167	
Ethyl methacrylate	ug/kg	200	205	103	65-117	
Ethylbenzene	ug/kg	50	51.6	103	73-120	
Hexachloro-1,3-butadiene	ug/kg	50	52.0	104	65-121	
Iodomethane	ug/kg	100	112	112	45-156	
Isopropylbenzene (Cumene)	ug/kg	50	51.2	102	74-123	
Methyl-tert-butyl ether	ug/kg	100	102	102	69-123	
Methylene Chloride	ug/kg	50	57.6	115	58-124	
n-Butylbenzene	ug/kg	50	52.2	104	71-118	
n-Hexane	ug/kg	50	47.8	96	50-106	N2
n-Propylbenzene	ug/kg	50	53.3	107	70-120	
Naphthalene	ug/kg	50	48.0	96	67-124	
p-Isopropyltoluene	ug/kg	50	53.2	106	71-123	
sec-Butylbenzene	ug/kg	50	54.0	108	66-122	
Styrene	ug/kg	50	51.6	103	75-118	

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QUALITY CONTROL DATA

Project: Carpenter Manufacturing
Pace Project No.: 5067678

LABORATORY CONTROL SAMPLE: 785167

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butylbenzene	ug/kg	50	50.5	101	54-124	
Tetrachloroethene	ug/kg	50	51.6	103	66-126	
Toluene	ug/kg	50	50.8	102	69-115	
trans-1,2-Dichloroethene	ug/kg	50	52.0	104	69-120	
trans-1,3-Dichloropropene	ug/kg	50	53.6	107	61-116	
trans-1,4-Dichloro-2-butene	ug/kg	200	194	97	59-130	
Trichloroethene	ug/kg	50	52.4	105	71-117	
Trichlorofluoromethane	ug/kg	50	57.5	115	67-138	
Vinyl acetate	ug/kg	200	107	53	35-134	
Vinyl chloride	ug/kg	50	58.4	117	64-127	
Xylene (Total)	ug/kg	150	158	105	69-117	
4-Bromofluorobenzene (S)	%.			99	67-134	
Dibromofluoromethane (S)	%.			100	71-125	
Toluene-d8 (S)	%.			100	76-124	

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QUALITY CONTROL DATA

Project: Carpenter Manufacturing
Pace Project No.: 5067678

QC Batch: OEXT/30473 Analysis Method: EPA 8015B Modified
QC Batch Method: EPA 3546 Analysis Description: 8015 Solid GCSV
Associated Lab Samples: 5067678001, 5067678002, 5067678003, 5067678004, 5067678006, 5067678007, 5067678008, 5067678010, 5067678011, 5067678012

METHOD BLANK: 783716 Matrix: Solid
Associated Lab Samples: 5067678001, 5067678002, 5067678003, 5067678004, 5067678006, 5067678007, 5067678008, 5067678010, 5067678011, 5067678012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diesel Range Organics (C8-C28)	mg/kg	ND	10.0	08/20/12 12:57	
n-Pentacosane (S)	%.	74	30-126	08/20/12 12:57	

LABORATORY CONTROL SAMPLE: 783717

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Diesel Range Organics (C8-C28)	mg/kg	83.3	45.4	54	47-107	
n-Pentacosane (S)	%.			67	30-126	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 783718 783719

Parameter	Units	5067678002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Diesel Range Organics (C8-C28)	mg/kg	ND	92.8	92.8	48.9	52.9	48	52	23-115	8	20	
n-Pentacosane (S)	%.						75	77	30-126		20	

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QUALITY CONTROL DATA

Project: Carpenter Manufacturing
Pace Project No.: 5067678

QC Batch: OEXT/30472 Analysis Method: EPA 8015B Modified
QC Batch Method: EPA 3510 Analysis Description: 8015 GCS
Associated Lab Samples: 5067678005, 5067678014, 5067678015, 5067678016, 5067678017, 5067678018

METHOD BLANK: 783458 Matrix: Water
Associated Lab Samples: 5067678005, 5067678014, 5067678015, 5067678016, 5067678017, 5067678018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diesel Range Organics (C8-C28)	mg/L	ND	0.10	08/17/12 17:13	
n-Pentacosane (S)	%.	56	20-108	08/17/12 17:13	

LABORATORY CONTROL SAMPLE: 783459

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Diesel Range Organics (C8-C28)	mg/L	2.5	1.8	73	56-104	
n-Pentacosane (S)	%.			58	20-108	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 783460 783461

Parameter	Units	5067678015 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Diesel Range Organics (C8-C28)	mg/L	0.17	5.2	5.2	4.0	4.0	73	73	41-117	.7	20	
n-Pentacosane (S)	%.						56	61	20-108		20	

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QUALITY CONTROL DATA

Project: Carpenter Manufacturing
Pace Project No.: 5067678

QC Batch: OEXT/30493 Analysis Method: EPA 8270
QC Batch Method: EPA 3546 Analysis Description: 8270 Solid MSSV Microwave Short Spike
Associated Lab Samples: 5067678001, 5067678002, 5067678003, 5067678004, 5067678006, 5067678007, 5067678008, 5067678010, 5067678011, 5067678012

METHOD BLANK: 784673 Matrix: Solid
Associated Lab Samples: 5067678001, 5067678002, 5067678003, 5067678004, 5067678006, 5067678007, 5067678008, 5067678010, 5067678011, 5067678012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
2,4,5-Trichlorophenol	ug/kg	ND	330	08/21/12 15:40	
2,4,6-Trichlorophenol	ug/kg	ND	330	08/21/12 15:40	
2,4-Dichlorophenol	ug/kg	ND	330	08/21/12 15:40	
2,4-Dimethylphenol	ug/kg	ND	330	08/21/12 15:40	
2,4-Dinitrophenol	ug/kg	ND	1600	08/21/12 15:40	
2,4-Dinitrotoluene	ug/kg	ND	330	08/21/12 15:40	
2,6-Dinitrotoluene	ug/kg	ND	330	08/21/12 15:40	
2-Chloronaphthalene	ug/kg	ND	330	08/21/12 15:40	
2-Chlorophenol	ug/kg	ND	330	08/21/12 15:40	
2-Methylnaphthalene	ug/kg	ND	330	08/21/12 15:40	
2-Methylphenol(o-Cresol)	ug/kg	ND	330	08/21/12 15:40	
2-Nitroaniline	ug/kg	ND	1600	08/21/12 15:40	
2-Nitrophenol	ug/kg	ND	330	08/21/12 15:40	
3&4-Methylphenol(m&p Cresol)	ug/kg	ND	660	08/21/12 15:40	
3,3'-Dichlorobenzidine	ug/kg	ND	660	08/21/12 15:40	
3-Nitroaniline	ug/kg	ND	1600	08/21/12 15:40	
4,6-Dinitro-2-methylphenol	ug/kg	ND	1600	08/21/12 15:40	
4-Bromophenylphenyl ether	ug/kg	ND	330	08/21/12 15:40	
4-Chloro-3-methylphenol	ug/kg	ND	660	08/21/12 15:40	
4-Chloroaniline	ug/kg	ND	660	08/21/12 15:40	
4-Chlorophenylphenyl ether	ug/kg	ND	330	08/21/12 15:40	
4-Nitroaniline	ug/kg	ND	1600	08/21/12 15:40	
4-Nitrophenol	ug/kg	ND	1600	08/21/12 15:40	
Acenaphthene	ug/kg	ND	330	08/21/12 15:40	
Acenaphthylene	ug/kg	ND	330	08/21/12 15:40	
Anthracene	ug/kg	ND	330	08/21/12 15:40	
Benzo(a)anthracene	ug/kg	ND	330	08/21/12 15:40	
Benzo(a)pyrene	ug/kg	ND	330	08/21/12 15:40	
Benzo(b)fluoranthene	ug/kg	ND	330	08/21/12 15:40	
Benzo(g,h,i)perylene	ug/kg	ND	330	08/21/12 15:40	
Benzo(k)fluoranthene	ug/kg	ND	330	08/21/12 15:40	
Benzyl alcohol	ug/kg	ND	660	08/21/12 15:40	
bis(2-Chloroethoxy)methane	ug/kg	ND	330	08/21/12 15:40	
bis(2-Chloroethyl) ether	ug/kg	ND	330	08/21/12 15:40	
bis(2-Ethylhexyl)phthalate	ug/kg	ND	330	08/21/12 15:40	
bis(2chloro1methylethyl) ether	ug/kg	ND	330	08/21/12 15:40	
Butylbenzylphthalate	ug/kg	ND	330	08/21/12 15:40	
Chrysene	ug/kg	ND	330	08/21/12 15:40	
Di-n-butylphthalate	ug/kg	ND	330	08/21/12 15:40	
Di-n-octylphthalate	ug/kg	ND	330	08/21/12 15:40	
Dibenz(a,h)anthracene	ug/kg	ND	330	08/21/12 15:40	

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QUALITY CONTROL DATA

Project: Carpenter Manufacturing
Pace Project No.: 5067678

METHOD BLANK: 784673 Matrix: Solid

Associated Lab Samples: 5067678001, 5067678002, 5067678003, 5067678004, 5067678006, 5067678007, 5067678008, 5067678010, 5067678011, 5067678012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibenzofuran	ug/kg	ND	330	08/21/12 15:40	
Diethylphthalate	ug/kg	ND	330	08/21/12 15:40	
Dimethylphthalate	ug/kg	ND	330	08/21/12 15:40	
Fluoranthene	ug/kg	ND	330	08/21/12 15:40	
Fluorene	ug/kg	ND	330	08/21/12 15:40	
Hexachloro-1,3-butadiene	ug/kg	ND	330	08/21/12 15:40	
Hexachlorobenzene	ug/kg	ND	330	08/21/12 15:40	
Hexachlorocyclopentadiene	ug/kg	ND	330	08/21/12 15:40	
Hexachloroethane	ug/kg	ND	330	08/21/12 15:40	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	330	08/21/12 15:40	
Isophorone	ug/kg	ND	330	08/21/12 15:40	
N-Nitroso-di-n-propylamine	ug/kg	ND	330	08/21/12 15:40	
N-Nitrosodiphenylamine	ug/kg	ND	330	08/21/12 15:40	
Naphthalene	ug/kg	ND	330	08/21/12 15:40	
Nitrobenzene	ug/kg	ND	330	08/21/12 15:40	
Pentachlorophenol	ug/kg	ND	1600	08/21/12 15:40	
Phenanthrene	ug/kg	ND	330	08/21/12 15:40	
Phenol	ug/kg	ND	330	08/21/12 15:40	
Pyrene	ug/kg	ND	330	08/21/12 15:40	
2,4,6-Tribromophenol (S)	%.	78	24-114	08/21/12 15:40	
2-Fluorobiphenyl (S)	%.	65	36-94	08/21/12 15:40	
2-Fluorophenol (S)	%.	68	29-97	08/21/12 15:40	
Nitrobenzene-d5 (S)	%.	64	26-98	08/21/12 15:40	
p-Terphenyl-d14 (S)	%.	76	32-112	08/21/12 15:40	
Phenol-d5 (S)	%.	69	33-98	08/21/12 15:40	

LABORATORY CONTROL SAMPLE: 784674

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,4-Dinitrotoluene	ug/kg	3330	2200	66	49-102	
2-Chlorophenol	ug/kg	3330	2050	61	44-98	
2-Methylnaphthalene	ug/kg	3330	1900	57	49-94	
4-Chloro-3-methylphenol	ug/kg	3330	2290	69	53-103	
4-Nitrophenol	ug/kg	3330	2410	72	25-110	
Acenaphthene	ug/kg	3330	2360	71	55-103	
Acenaphthylene	ug/kg	3330	2280	69	58-107	
Anthracene	ug/kg	3330	2520	76	57-113	
Benzo(a)anthracene	ug/kg	3330	2490	75	56-110	
Benzo(a)pyrene	ug/kg	3330	2520	75	59-110	
Benzo(b)fluoranthene	ug/kg	3330	2450	73	53-109	
Benzo(g,h,i)perylene	ug/kg	3330	2370	71	55-109	
Benzo(k)fluoranthene	ug/kg	3330	2430	73	55-108	
Chrysene	ug/kg	3330	2300	69	57-108	
Dibenz(a,h)anthracene	ug/kg	3330	2350	70	53-111	

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QUALITY CONTROL DATA

Project: Carpenter Manufacturing
Pace Project No.: 5067678

LABORATORY CONTROL SAMPLE: 784674

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Fluoranthene	ug/kg	3330	2510	75	59-108	
Fluorene	ug/kg	3330	2320	70	57-107	
Indeno(1,2,3-cd)pyrene	ug/kg	3330	2330	70	54-110	
N-Nitroso-di-n-propylamine	ug/kg	3330	2080	63	46-96	
Naphthalene	ug/kg	3330	1920	58	44-100	
Pentachlorophenol	ug/kg	3330	2130	64	10-106	
Phenanthrene	ug/kg	3330	2500	75	53-106	
Phenol	ug/kg	3330	2060	62	47-100	
Pyrene	ug/kg	3330	2410	72	60-112	
2,4,6-Tribromophenol (S)	%.			78	24-114	
2-Fluorobiphenyl (S)	%.			67	36-94	
2-Fluorophenol (S)	%.			66	29-97	
Nitrobenzene-d5 (S)	%.			64	26-98	
p-Terphenyl-d14 (S)	%.			78	32-112	
Phenol-d5 (S)	%.			67	33-98	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 784675 784676

Parameter	Units	5067678002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
2,4-Dinitrotoluene	ug/kg	ND	3710	3710	2710	2390	73	64	15-108	13	20	
2-Chlorophenol	ug/kg	ND	3710	3710	2540	2320	68	63	31-94	9	20	
2-Methylnaphthalene	ug/kg	ND	3710	3710	2350	2290	63	62	33-93	2	20	
4-Chloro-3-methylphenol	ug/kg	ND	3710	3710	2650	2600	71	70	35-102	2	20	
4-Nitrophenol	ug/kg	ND	3710	3710	2980	2590	80	70	10-125	14	20	
Acenaphthene	ug/kg	ND	3710	3710	2820	2480	76	67	36-98	13	20	
Acenaphthylene	ug/kg	ND	3710	3710	2810	2490	76	67	37-106	12	20	
Anthracene	ug/kg	ND	3710	3710	2700	2520	73	68	30-107	7	20	
Benzo(a)anthracene	ug/kg	ND	3710	3710	2640	2440	71	66	30-100	8	20	
Benzo(a)pyrene	ug/kg	ND	3710	3710	2600	2370	70	64	24-103	9	20	
Benzo(b)fluoranthene	ug/kg	ND	3710	3710	2600	2420	70	65	26-100	7	20	
Benzo(g,h,i)perylene	ug/kg	ND	3710	3710	2280	2140	61	58	24-100	6	20	
Benzo(k)fluoranthene	ug/kg	ND	3710	3710	2470	2270	66	61	29-100	8	20	
Chrysene	ug/kg	ND	3710	3710	2600	2350	70	63	30-99	10	20	
Dibenz(a,h)anthracene	ug/kg	ND	3710	3710	2410	2250	65	61	26-100	6	20	
Fluoranthene	ug/kg	ND	3710	3710	2560	2400	69	65	35-101	7	20	
Fluorene	ug/kg	ND	3710	3710	2940	2480	79	67	38-98	17	20	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	3710	3710	2310	2210	62	59	23-99	5	20	
N-Nitroso-di-n-propylamine	ug/kg	ND	3710	3710	2410	2210	65	60	33-96	8	20	
Naphthalene	ug/kg	ND	3710	3710	2370	2220	64	60	33-92	7	20	
Pentachlorophenol	ug/kg	ND	3710	3710	2210	1980	60	53	10-107	11	20	
Phenanthrene	ug/kg	ND	3710	3710	2660	2460	72	66	35-101	8	20	
Phenol	ug/kg	ND	3710	3710	2530	2360	68	64	32-99	7	20	
Pyrene	ug/kg	ND	3710	3710	2530	2430	68	65	37-103	4	20	
2,4,6-Tribromophenol (S)	%.						81	75	24-114		20	
2-Fluorobiphenyl (S)	%.						75	63	36-94		20	
2-Fluorophenol (S)	%.						75	69	29-97		20	

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QUALITY CONTROL DATA

Project: Carpenter Manufacturing
Pace Project No.: 5067678

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 784675 784676

Parameter	Units	5067678002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrobenzene-d5 (S)	%.						71	69	26-98		20	
p-Terphenyl-d14 (S)	%.						70	67	32-112		20	
Phenol-d5 (S)	%.						75	70	33-98		20	

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QUALITY CONTROL DATA

Project: Carpenter Manufacturing
Pace Project No.: 5067678

QC Batch: OEXT/30484 Analysis Method: EPA 8270
QC Batch Method: EPA 3510 Analysis Description: 8270 Water MSSV
Associated Lab Samples: 5067678005, 5067678014, 5067678015, 5067678016, 5067678017, 5067678018

METHOD BLANK: 784262 Matrix: Water
Associated Lab Samples: 5067678005, 5067678014, 5067678015, 5067678016, 5067678017, 5067678018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
2,4,5-Trichlorophenol	ug/L	ND	10.0	08/20/12 14:37	
2,4,6-Trichlorophenol	ug/L	ND	10.0	08/20/12 14:37	
2,4-Dichlorophenol	ug/L	ND	10.0	08/20/12 14:37	
2,4-Dimethylphenol	ug/L	ND	10.0	08/20/12 14:37	
2,4-Dinitrophenol	ug/L	ND	50.0	08/20/12 14:37	
2,4-Dinitrotoluene	ug/L	ND	10.0	08/20/12 14:37	
2,6-Dinitrotoluene	ug/L	ND	10.0	08/20/12 14:37	
2-Chloronaphthalene	ug/L	ND	10.0	08/20/12 14:37	
2-Chlorophenol	ug/L	ND	10.0	08/20/12 14:37	
2-Methylnaphthalene	ug/L	ND	10.0	08/20/12 14:37	
2-Methylphenol(o-Cresol)	ug/L	ND	10.0	08/20/12 14:37	
2-Nitroaniline	ug/L	ND	50.0	08/20/12 14:37	
2-Nitrophenol	ug/L	ND	10.0	08/20/12 14:37	
3&4-Methylphenol(m&p Cresol)	ug/L	ND	20.0	08/20/12 14:37	
3,3'-Dichlorobenzidine	ug/L	ND	20.0	08/20/12 14:37	
3-Nitroaniline	ug/L	ND	50.0	08/20/12 14:37	
4,6-Dinitro-2-methylphenol	ug/L	ND	50.0	08/20/12 14:37	
4-Bromophenylphenyl ether	ug/L	ND	10.0	08/20/12 14:37	
4-Chloro-3-methylphenol	ug/L	ND	20.0	08/20/12 14:37	
4-Chloroaniline	ug/L	ND	20.0	08/20/12 14:37	
4-Chlorophenylphenyl ether	ug/L	ND	10.0	08/20/12 14:37	
4-Nitroaniline	ug/L	ND	50.0	08/20/12 14:37	
4-Nitrophenol	ug/L	ND	50.0	08/20/12 14:37	
Acenaphthene	ug/L	ND	10.0	08/20/12 14:37	
Acenaphthylene	ug/L	ND	10.0	08/20/12 14:37	
Anthracene	ug/L	ND	10.0	08/20/12 14:37	
Benzo(a)anthracene	ug/L	ND	10.0	08/20/12 14:37	
Benzo(a)pyrene	ug/L	ND	10.0	08/20/12 14:37	
Benzo(b)fluoranthene	ug/L	ND	10.0	08/20/12 14:37	
Benzo(g,h,i)perylene	ug/L	ND	10.0	08/20/12 14:37	
Benzo(k)fluoranthene	ug/L	ND	10.0	08/20/12 14:37	
Benzyl alcohol	ug/L	ND	20.0	08/20/12 14:37	
bis(2-Chloroethoxy)methane	ug/L	ND	10.0	08/20/12 14:37	
bis(2-Chloroethyl) ether	ug/L	ND	10.0	08/20/12 14:37	
bis(2-Ethylhexyl)phthalate	ug/L	ND	5.0	08/20/12 14:37	
bis(2chloro1methylethyl) ether	ug/L	ND	5.0	08/20/12 14:37	
Butylbenzylphthalate	ug/L	ND	10.0	08/20/12 14:37	
Chrysene	ug/L	ND	10.0	08/20/12 14:37	
Di-n-butylphthalate	ug/L	ND	10.0	08/20/12 14:37	
Di-n-octylphthalate	ug/L	ND	10.0	08/20/12 14:37	
Dibenz(a,h)anthracene	ug/L	ND	10.0	08/20/12 14:37	
Dibenzofuran	ug/L	ND	10.0	08/20/12 14:37	
Diethylphthalate	ug/L	ND	10.0	08/20/12 14:37	

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QUALITY CONTROL DATA

Project: Carpenter Manufacturing
Pace Project No.: 5067678

METHOD BLANK: 784262 Matrix: Water

Associated Lab Samples: 5067678005, 5067678014, 5067678015, 5067678016, 5067678017, 5067678018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dimethylphthalate	ug/L	ND	10.0	08/20/12 14:37	
Fluoranthene	ug/L	ND	10.0	08/20/12 14:37	
Fluorene	ug/L	ND	10.0	08/20/12 14:37	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	08/20/12 14:37	
Hexachlorobenzene	ug/L	ND	10.0	08/20/12 14:37	
Hexachlorocyclopentadiene	ug/L	ND	20.0	08/20/12 14:37	
Hexachloroethane	ug/L	ND	10.0	08/20/12 14:37	
Indeno(1,2,3-cd)pyrene	ug/L	ND	10.0	08/20/12 14:37	
Isophorone	ug/L	ND	10.0	08/20/12 14:37	
N-Nitroso-di-n-propylamine	ug/L	ND	10.0	08/20/12 14:37	
N-Nitrosodiphenylamine	ug/L	ND	10.0	08/20/12 14:37	
Naphthalene	ug/L	ND	5.0	08/20/12 14:37	
Nitrobenzene	ug/L	ND	10.0	08/20/12 14:37	
Pentachlorophenol	ug/L	ND	50.0	08/20/12 14:37	
Phenanthrene	ug/L	ND	10.0	08/20/12 14:37	
Phenol	ug/L	ND	10.0	08/20/12 14:37	
Pyrene	ug/L	ND	10.0	08/20/12 14:37	
2,4,6-Tribromophenol (S)	%.	97	32-124	08/20/12 14:37	
2-Fluorobiphenyl (S)	%.	83	34-106	08/20/12 14:37	
2-Fluorophenol (S)	%.	41	10-74	08/20/12 14:37	
Nitrobenzene-d5 (S)	%.	88	33-108	08/20/12 14:37	
p-Terphenyl-d14 (S)	%.	100	31-122	08/20/12 14:37	
Phenol-d5 (S)	%.	23	10-56	08/20/12 14:37	

LABORATORY CONTROL SAMPLE: 784263

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,4-Dinitrotoluene	ug/L	100	96.3	96	38-119	
2-Chlorophenol	ug/L	100	77.6	78	37-106	
2-Methylnaphthalene	ug/L	100	78.4	78	40-106	
4-Chloro-3-methylphenol	ug/L	100	86.0	86	43-115	
4-Nitrophenol	ug/L	100	34.6J	35	10-57	
Acenaphthene	ug/L	100	99.6	100	48-114	
Acenaphthylene	ug/L	100	96.5	96	47-124	
Anthracene	ug/L	100	98.8	99	52-122	
Benzo(a)anthracene	ug/L	100	97.0	97	51-122	
Benzo(a)pyrene	ug/L	100	103	103	52-122	
Benzo(b)fluoranthene	ug/L	100	99.1	99	48-120	
Benzo(g,h,i)perylene	ug/L	100	95.6	96	49-119	
Benzo(k)fluoranthene	ug/L	100	102	102	49-120	
Chrysene	ug/L	100	92.8	93	51-121	
Dibenz(a,h)anthracene	ug/L	100	100	100	50-118	
Fluoranthene	ug/L	100	95.8	96	50-122	
Fluorene	ug/L	100	102	102	49-118	
Indeno(1,2,3-cd)pyrene	ug/L	100	99.6	100	50-119	

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(317)875-5894

QUALITY CONTROL DATA

Project: Carpenter Manufacturing
Pace Project No.: 5067678

LABORATORY CONTROL SAMPLE: 784263

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
N-Nitroso-di-n-propylamine	ug/L	100	88.1	88	43-112	
Naphthalene	ug/L	100	79.6	80	41-107	
Pentachlorophenol	ug/L	100	88.8	89	14-131	
Phenanthrene	ug/L	100	93.1	93	51-116	
Phenol	ug/L	100	26.9	27	14-50	
Pyrene	ug/L	100	94.4	94	52-126	
2,4,6-Tribromophenol (S)	%.			103	32-124	
2-Fluorobiphenyl (S)	%.			92	34-106	
2-Fluorophenol (S)	%.			47	10-74	
Nitrobenzene-d5 (S)	%.			89	33-108	
p-Terphenyl-d14 (S)	%.			99	31-122	
Phenol-d5 (S)	%.			27	10-56	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 784264 784265

Parameter	Units	5067678015 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
2,4-Dinitrotoluene	ug/L	ND	215	215	91.7	191	43	89	37-114	70	20	R1
2-Chlorophenol	ug/L	ND	215	215	98.2	171	46	79	43-102	54	20	R1
2-Methylnaphthalene	ug/L	ND	215	215	78.3	169	36	78	41-104	73	20	M0,R1
4-Chloro-3-methylphenol	ug/L	ND	215	215	104	195	48	91	49-108	61	20	M0,R1
4-Nitrophenol	ug/L	ND	215	215	95J	135	44	63	10-99		20	
Acenaphthene	ug/L	ND	215	215	94.6	190	44	88	52-105	67	20	M0,R1
Acenaphthylene	ug/L	ND	215	215	90.6	189	42	88	50-117	70	20	M0,R1
Anthracene	ug/L	ND	215	215	115	202	53	94	58-109	55	20	M0,R1
Benzo(a)anthracene	ug/L	ND	215	215	121	177	56	82	55-109	37	20	R1
Benzo(a)pyrene	ug/L	ND	215	215	116	171	54	80	54-111	39	20	R1
Benzo(b)fluoranthene	ug/L	ND	215	215	112	156	52	73	50-107	33	20	R1
Benzo(g,h,i)perylene	ug/L	ND	215	215	104	153	49	71	50-107	38	20	M0,R1
Benzo(k)fluoranthene	ug/L	ND	215	215	115	183	53	85	55-106	46	20	M0,R1
Chrysene	ug/L	ND	215	215	112	165	52	77	55-107	38	20	M0,R1
Dibenz(a,h)anthracene	ug/L	ND	215	215	100	151	47	70	51-107	41	20	M0,R1
Fluoranthene	ug/L	ND	215	215	113	193	52	90	57-110	53	20	M0,R1
Fluorene	ug/L	ND	215	215	101	195	47	91	57-106	63	20	M0,R1
Indeno(1,2,3-cd)pyrene	ug/L	ND	215	215	103	154	48	72	50-107	40	20	M0,R1
N-Nitroso-di-n-propylamine	ug/L	ND	215	215	84.9	172	39	80	43-107	68	20	M0,R1
Naphthalene	ug/L	ND	215	215	77.1	166	36	77	43-104	73	20	M0,R1
Pentachlorophenol	ug/L	ND	215	215	74.3J	179	35	83	25-117		20	
Phenanthrene	ug/L	ND	215	215	105	198	49	92	60-106	61	20	M0,R1
Phenol	ug/L	ND	215	215	73.1	96.0	34	45	28-74	27	20	R1
Pyrene	ug/L	ND	215	215	112	197	52	92	64-111	56	20	M0,R1
2,4,6-Tribromophenol (S)	%.						48	99	32-124		20	R1
2-Fluorobiphenyl (S)	%.						43	88	34-106		20	R1
2-Fluorophenol (S)	%.						46	68	10-74		20	R1
Nitrobenzene-d5 (S)	%.						41	92	33-108		20	R1
p-Terphenyl-d14 (S)	%.						53	73	31-122		20	R1
Phenol-d5 (S)	%.						37	47	10-56		20	R1

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QUALITY CONTROL DATA

Project: Carpenter Manufacturing
Pace Project No.: 5067678

QC Batch: PMST/7377
Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 5067678001, 5067678002, 5067678003, 5067678004

SAMPLE DUPLICATE: 784362

Parameter	Units	5067776001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	4.4	4.4	.03	5	

SAMPLE DUPLICATE: 784363

Parameter	Units	5067678002 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	10.3	10.4	1	5	

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QUALITY CONTROL DATA

Project: Carpenter Manufacturing
Pace Project No.: 5067678

QC Batch: PMST/7378 | Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 | Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 5067678006, 5067678007, 5067678008, 5067678009, 5067678010, 5067678011, 5067678012

SAMPLE DUPLICATE: 784364

Parameter	Units	5067678006 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	8.3	8.4	1	5	

SAMPLE DUPLICATE: 784365

Parameter	Units	5067744004 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	14.0	16.2	14	5	R1

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QUALIFIERS

Project: Carpenter Manufacturing
Pace Project No.: 5067678

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

1d	Benzene ND at an estimated RL of 34 ug/kg based on the MDL. grm 8-22-12
2d	Several compounds are outside of acceptance limits for RPD value. Refer to the LCS for system control. grm 8-20-12
3d	VC ND at an estimated RL of 24.5 ug/kg based on the MDL. grm 8-22-12
D4	Sample was diluted due to the presence of high levels of target analytes.
ES	The reported result is estimated because one or more of the constituent results are qualified as such.
L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
N2	The lab does not hold TNI accreditation for this parameter.
R1	RPD value was outside control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Carpenter Manufacturing
Pace Project No.: 5067678

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
5067678001	**P-10 (0-4)**	EPA 3546	OEXT/30473	EPA 8015B Modified	GCSV/9794
5067678002	**P-10 (4-8)**	EPA 3546	OEXT/30473	EPA 8015B Modified	GCSV/9794
5067678003	**P-11 (12-14)**	EPA 3546	OEXT/30473	EPA 8015B Modified	GCSV/9794
5067678004	**Dup-1**	EPA 3546	OEXT/30473	EPA 8015B Modified	GCSV/9794
5067678006	**P-9 (0-4)**	EPA 3546	OEXT/30473	EPA 8015B Modified	GCSV/9794
5067678007	**P-13 (0-4)**	EPA 3546	OEXT/30473	EPA 8015B Modified	GCSV/9794
5067678008	**P-13 (4-8)**	EPA 3546	OEXT/30473	EPA 8015B Modified	GCSV/9794
5067678010	**P-14 (4-8)**	EPA 3546	OEXT/30473	EPA 8015B Modified	GCSV/9794
5067678011	**P-17 (0-4)**	EPA 3546	OEXT/30473	EPA 8015B Modified	GCSV/9794
5067678012	**P-16 (0-4)**	EPA 3546	OEXT/30473	EPA 8015B Modified	GCSV/9794
5067678005	**EB-1**	EPA 3510	OEXT/30472	EPA 8015B Modified	GCSV/9790
5067678014	**P-11**	EPA 3510	OEXT/30472	EPA 8015B Modified	GCSV/9790
5067678015	**P-10**	EPA 3510	OEXT/30472	EPA 8015B Modified	GCSV/9790
5067678016	**P-9**	EPA 3510	OEXT/30472	EPA 8015B Modified	GCSV/9790
5067678017	**Dup-2**	EPA 3510	OEXT/30472	EPA 8015B Modified	GCSV/9790
5067678018	**EB-2**	EPA 3510	OEXT/30472	EPA 8015B Modified	GCSV/9790
5067678001	**P-10 (0-4)**	EPA 8015 Mod Pur	GCV/15628		
5067678002	**P-10 (4-8)**	EPA 8015 Mod Pur	GCV/15628		
5067678003	**P-11 (12-14)**	EPA 8015 Mod Pur	GCV/15628		
5067678004	**Dup-1**	EPA 8015 Mod Pur	GCV/15628		
5067678006	**P-9 (0-4)**	EPA 8015 Mod Pur	GCV/15628		
5067678007	**P-13 (0-4)**	EPA 8015 Mod Pur	GCV/15628		
5067678008	**P-13 (4-8)**	EPA 8015 Mod Pur	GCV/15628		
5067678009	**P-14 (0-4)**	EPA 8015 Mod Pur	GCV/15636		
5067678010	**P-14 (4-8)**	EPA 8015 Mod Pur	GCV/15628		
5067678011	**P-17 (0-4)**	EPA 8015 Mod Pur	GCV/15628		
5067678012	**P-16 (0-4)**	EPA 8015 Mod Pur	GCV/15628		
5067678005	**EB-1**	EPA 5030/8015 Mod.	GCV/15627		
5067678014	**P-11**	EPA 5030/8015 Mod.	GCV/15627		
5067678015	**P-10**	EPA 5030/8015 Mod.	GCV/15627		
5067678016	**P-9**	EPA 5030/8015 Mod.	GCV/15627		
5067678017	**Dup-2**	EPA 5030/8015 Mod.	GCV/15627		
5067678018	**EB-2**	EPA 5030/8015 Mod.	GCV/15627		
5067678001	**P-10 (0-4)**	EPA 3546	OEXT/30493	EPA 8270	MSSV/10770
5067678002	**P-10 (4-8)**	EPA 3546	OEXT/30493	EPA 8270	MSSV/10770
5067678003	**P-11 (12-14)**	EPA 3546	OEXT/30493	EPA 8270	MSSV/10770
5067678004	**Dup-1**	EPA 3546	OEXT/30493	EPA 8270	MSSV/10770
5067678006	**P-9 (0-4)**	EPA 3546	OEXT/30493	EPA 8270	MSSV/10770
5067678007	**P-13 (0-4)**	EPA 3546	OEXT/30493	EPA 8270	MSSV/10770
5067678008	**P-13 (4-8)**	EPA 3546	OEXT/30493	EPA 8270	MSSV/10770
5067678010	**P-14 (4-8)**	EPA 3546	OEXT/30493	EPA 8270	MSSV/10770
5067678011	**P-17 (0-4)**	EPA 3546	OEXT/30493	EPA 8270	MSSV/10770
5067678012	**P-16 (0-4)**	EPA 3546	OEXT/30493	EPA 8270	MSSV/10770
5067678005	**EB-1**	EPA 3510	OEXT/30484	EPA 8270	MSSV/10758
5067678014	**P-11**	EPA 3510	OEXT/30484	EPA 8270	MSSV/10758

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Carpenter Manufacturing
Pace Project No.: 5067678

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
5067678015	**P-10**	EPA 3510	OEXT/30484	EPA 8270	MSSV/10758
5067678016	**P-9**	EPA 3510	OEXT/30484	EPA 8270	MSSV/10758
5067678017	**Dup-2**	EPA 3510	OEXT/30484	EPA 8270	MSSV/10758
5067678018	**EB-2**	EPA 3510	OEXT/30484	EPA 8270	MSSV/10758
5067678005	**EB-1**	EPA 8260	MSV/44998		
5067678014	**P-11**	EPA 8260	MSV/44998		
5067678015	**P-10**	EPA 8260	MSV/44998		
5067678016	**P-9**	EPA 8260	MSV/44998		
5067678017	**Dup-2**	EPA 8260	MSV/44999		
5067678018	**EB-2**	EPA 8260	MSV/44999		
5067678019	**Trip Blank**	EPA 8260	MSV/44999		
5067678001	**P-10 (0-4)**	EPA 8260	MSV/44995		
5067678002	**P-10 (4-8)**	EPA 8260	MSV/44995		
5067678003	**P-11 (12-14)**	EPA 8260	MSV/44995		
5067678004	**Dup-1**	EPA 8260	MSV/44995		
5067678006	**P-9 (0-4)**	EPA 8260	MSV/44995		
5067678007	**P-13 (0-4)**	EPA 8260	MSV/44995		
5067678008	**P-13 (4-8)**	EPA 8260	MSV/44995		
5067678009	**P-14 (0-4)**	EPA 8260	MSV/45066		
5067678010	**P-14 (4-8)**	EPA 8260	MSV/44996		
5067678011	**P-17 (0-4)**	EPA 8260	MSV/44996		
5067678012	**P-16 (0-4)**	EPA 8260	MSV/44996		
5067678013	**Trip Blank**	EPA 8260	MSV/44996		
5067678001	**P-10 (0-4)**	ASTM D2974-87	PMST/7377		
5067678002	**P-10 (4-8)**	ASTM D2974-87	PMST/7377		
5067678003	**P-11 (12-14)**	ASTM D2974-87	PMST/7377		
5067678004	**Dup-1**	ASTM D2974-87	PMST/7377		
5067678006	**P-9 (0-4)**	ASTM D2974-87	PMST/7378		
5067678007	**P-13 (0-4)**	ASTM D2974-87	PMST/7378		
5067678008	**P-13 (4-8)**	ASTM D2974-87	PMST/7378		
5067678009	**P-14 (0-4)**	ASTM D2974-87	PMST/7378		
5067678010	**P-14 (4-8)**	ASTM D2974-87	PMST/7378		
5067678011	**P-17 (0-4)**	ASTM D2974-87	PMST/7378		
5067678012	**P-16 (0-4)**	ASTM D2974-87	PMST/7378		

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CHAIN-OF-CUSTODY / Analytical Request Document

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Page: 1 of 2

1594570

Section A Required Client Information:

Company: Weaver Boos Consultants
Address: 4085 Meghan Beeler Ct
South Bend, IN 46628
Email To: cflaherty@weaverboos.com
Phone: 614-389-4132 Fax:
Requested Due Date/TAT: standard

Section B Required Project Information:

Report To: Colin Flaherty
Copy To:
Purchase Order No.:
Project Name: Carpenter Manufacturing
Project Number:

Section C Invoice Information:

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

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

Site Location STATE: IN

Section D Required Client Information

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

ITEM #	SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start DATE	Composite Start TIME	Composite End/Grab DATE	Composite End/Grab TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N): VOCs	SVOCs	TPH GRO-DRO	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 50676678
1	P-10 (0-4)	SL	G			8/15	1010		7	2						1	4	X	X	X		-001
2	P-10 (4-8)	SL	G			8/15	1015		7	2						1	4	X	X	X		
3	P-10 (4-8) (MS)	SL	G			8/15	1015		7	2						1	4	X	X	X		(-002)
4	P-10 (4-8) (MSD)	SL	G			8/15	1015		7	2						1	4	X	X	X		
5	P-11 (12-14)	SL	G			8/15	1140		7	2						1	4	X	X	X		-003
6	Dup-1	SL	G			8/15	—		7	2						1	4	X	X	X		-004
7	EB-1	WT	G			8/15	1200		8	2			6					X	X	X		-005
8	P-9 (0-4)	SL	G			8/15	1240		7	2						1	4	X	X	X		-006
9	P-13 (0-4)	SL	G			8/15	1330		7	2						1	4	X	X	X		-007
10	P-13 (4-8)	SL	G			8/15	1335		7	2						1	4	X	X	X		-008
11	P-14 (0-4)	SL	G			8/15	1400		7	2						1	4	X	X	X		-009
12	P-14 (4-8)	SL	G			8/15	1405		7	2						1	4	X	X	X		-010

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Weaver Boos	8/16	1500	James Jones	8/16/12	1500	1.4	0.1		
							0.9	1.9		
							5.5	9.2		
							12.9			

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER:
SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY):

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

ORIGINAL

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

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

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CHAIN-OF-CUSTODY / Analytical Request Document

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

1594571

Section A Required Client Information:

Company: Weaver Boos Consultants
Address:
Email To: cflaherty@weaverboos.com
Phone: 504-389-4133 Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To: Colin Flaherty
Copy To:
Purchase Order No.:
Project Name: Carpenter
Project Number:

Section C Invoice Information:

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

REGULATORY AGENCY

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

Site Location STATE:

Section D Required Client Information

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

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

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start DATE	Composite Start TIME	Composite End/Grab DATE	Composite End/Grab TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N): VOCs	SVOCs	TPH GRO - DRO	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. (5067678)
1	P-17 (0-4)	SL	G			8/15	1500		7	2						1	4	X	X	X		-011
2	P-16 (0-4)	SL	G			8/15	1545		7	2						1	4	X	X	X		-012
3	Trip Blank	–	–			—	—		3							1	2	X				-013
4	P-11	WT	G			8/16	1215		10	4			6					X	X	X		-014
5	P-10	WT	G			8/16	1310		10	4			6					X	X	X		
6	P-10 (MS)	WT	G			8/16	1310		10	4			6					X	X	X		(-015)
7	P-10 (MSD)	WT	G			8/16	1310		10	4			6					X	X	X		
8	P-9	WT	G			8/16	1415		10	4			6					X	X	X		-016
9	Dup-2	WT	G			8/16	—		10	4			6					X	X	X		-017
10	EB-2	WT	G			8/16	1445		10	4			6					X	X	X		-018
11	Trip Blank	WT	–			—	—		3				3					X				-019
12																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
	[signature] / Weaver Boos	8/16	1500	James Jones	8/16/12	1500

SAMPLE CONDITIONS

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
1.4	0.1		
0.9	1.9		
5.5	9.2		
12.9			

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER:
SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY):

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

Sample Condition Upon Receipt

Pace Analytical

Client Name: Weaver Bros Project # 5067678

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

Tracking #:

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

Date/Time 5035A kits placed in freezer 1747

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

Thermometer Used 1 2 3 4 5 A B C D E Type of Ice: ☑ Wet Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature (Corrected, if applicable) 1.4, 0.9, 5.5, 1.2, Ice Visible in Sample Containers: ☐ yes ☑ no

Temp should be above freezing to 6°C 12.9, 0.1, 1.9

Date and Initials of person examining contents: 8-16-12 JJ

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	5.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	6.
Containers Intact:	☐Yes ☑No ☐N/A	7. P-14 (0-4) broken
Sample Labels match COC: -Includes date/time/ID/Analysis	☑Yes ☐No ☐N/A	8.
All containers needing acid/base pres. have been checked? exceptions: VOA, coliform, TOC, O&G	☐Yes ☐No ☑N/A	9. (Circle) HNO3 H2SO4 NaOH HCl
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☑N/A	
Headspace in VOA Vials (>6mm):	☐Yes ☑No ☐N/A	10.
Trip Blank Present:	☑Yes ☐No ☐N/A	11.
Trip Blank Custody Seals Present	☑Yes ☐No ☐N/A	
Project Manager Review		
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	12.
Sufficient Volume:	☐Yes ☑No ☐N/A	13. P-14 (0-4) ARRIVED BROKEN. NO SVOC
Correct Containers Used:	☑Yes ☐No ☐N/A	14.

Client Notification/ Resolution:

Person Contacted: Carl Flanders Date/Time: 8-17-12 10:00 AM. Field Data Required? Y / N

Comments/ Resolution:

4 oz of temp on P-11 (12-14), on P-9 (0-4), on P10 (4-8), both EB-1 Ambers out of temp 12.9. Dup-2 only had five VOA's filled, extra cores where not all labeled. out of temp samples are marked with red X

7-24 Per Carl, proceed with any of these samples.

Project Manager Review: [signature] Date: 8-17-12

Form F-IN-Q290-rev.04, 28Apr2011

Sample Container Count

CLIENT: Weavers Boos

COC PAGE 1 of 2

COC ID#

Project # 80676678

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Sample Line

Item	DG9H	AG1U	WGFU	AG0U	R 4/6	BP2N	BP2U	BP2S	BP3N	BP3U	BP3S	AG3S	AG1H			Comments
1			1		6											
2			1		6											
3			1		6											
4			1		6											
5			1		6											
6			1		6											
7	6	2														
8			1		6											
9			1		6											
10			1		6											
11					6											
12			1		6											

Container Codes

DG9H	40mL HCL amber voa vial	AG0U	100mL unpreserved amber glass	BP1N	1 liter HNO3 plastic	DG9P	40mL TSP amber vial
AG1U	1liter unpreserved amber glass	AG1H	1 liter HCL amber glass	BP1S	1 liter H2SO4 plastic	DG9S	40mL H2SO4 amber vial
WGFU	4oz clear soil jar	AG1S	1 liter H2SO4 amber glass	BP1U	1 liter unpreserved plastic	DG9T	40mL Na Thio amber vial
R	terra core kit	AG1T	1 liter Na Thiosulfate amber gl	BP1Z	1 liter NaOH, Zn, Ac	DG9U	40mL unpreserved amber vial
BP2N	500mL HNO3 plastic	AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plastic	I	Wipe/Swab
BP2U	500mL unpreserved plastic	AG2S	500mL H2SO4 amber glass	BP2O	500mL NaOH plastic	JGFU	4oz unpreserved amber wide
BP2S	500mL H2SO4 plastic	AG2U	500mL unpreserved amber gla	BP2Z	500mL NaOH, Zn Ac	U	Summa Can
BP3N	250mL HNO3 plastic	AG3U	250mL unpreserved amber gla	AF	Air Filter	VG9H	40mL HCL clear vial
BP3U	250mL unpreserved plastic	BG1H	1 liter HCL clear glass	BP3C	250mL NaOH plastic	VG9T	40mL Na Thio. clear vial
BP3S	250mL H2SO4 plastic	BG1S	1 liter H2SO4 clear glass	BP3Z	250mL NaOH, Zn Ac plastic	VG9U	40mL unpreserved clear vial
AG3S	250mL H2SO4 glass amber	BG1T	1 liter Na Thiosulfate clear gla	C	Air Cassettes	VSG	Headspace septa vial & HCL
AG1S	1 liter H2SO4 amber glass	BG1U	1 liter unpreserved glass	DG9B	40mL Na Bisulfate amber vial	WGFX	4oz wide jar w/hexane wipe
BP1U	1 liter unpreserved plastic	BP1A	1 liter NaOH, Asc Acid plastic	DG9M	40mL MeOH clear vial	ZPLC	Ziploc Bag

Sample Container Count

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CLIENT: Weaver Bros

COC PAGE 2 of 2

COC ID#

Project # 50676786

Sample Line Item	DG9H	AG1U	WGFU	AG0U	R 4/6	BP2N	BP2U	BP2S	BP3N	BP3U	BP3S	AG3S	AG1H			Comments
1			1		6											
2			1		6											
3					3											
4	6	4														
5	6	4														
6	6	4														
7	6	4														
8	6	4														
9	5	4														
10	6	4														
11	3															
12																

Container Codes

DG9H	40mL HCL amber voa vial	AG0U	100mL unpreserved amber glass	BP1N	1 liter HNO3 plastic	DG9P	40mL TSP amber vial
AG1U	1liter unpreserved amber glass	AG1H	1 liter HCL amber glass	BP1S	1 liter H2SO4 plastic	DG9S	40mL H2SO4 amber vial
WGFU	4oz clear soil jar	AG1S	1 liter H2SO4 amber glass	BP1U	1 liter unpreserved plastic	DG9T	40mL Na Thio amber vial
R	terra core kit	AG1T	1 liter Na Thiosulfate amber gl	BP1Z	1 liter NaOH, Zn, Ac	DG9U	40mL unpreserved **amber** vial
BP2N	500mL HNO3 plastic	AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plastic	I	Wipe/Swab
BP2U	500mL unpreserved plastic	AG2S	500mL H2SO4 amber glass	BP2O	500mL NaOH plastic	JGFU	4oz unpreserved amber wide
BP2S	500mL H2SO4 plastic	AG2U	500mL unpreserved amber gla	BP2Z	500mL NaOH, Zn Ac	U	Summa Can
BP3N	250mL HNO3 plastic	AG3U	250mL unpreserved amber gla	AF	Air Filter	VG9H	40mL HCL clear vial
BP3U	250mL unpreserved plastic	BG1H	1 liter HCL clear glass	BP3C	250mL NaOH plastic	VG9T	40mL Na Thio. clear vial
BP3S	250mL H2SO4 plastic	BG1S	1 liter H2SO4 clear glass	BP3Z	250mL NaOH, Zn Ac plastic	VG9U	40mL unpreserved **clear** vial
AG3S	250mL H2SO4 glass amber	BG1T	1 liter Na Thiosulfate clear gla	C	Air Cassettes	VSG	Headspace septa vial & HCL
AG1S	1 liter H2SO4 amber glass	BG1U	1 liter unpreserved glass	DG9B	40mL Na Bisulfate amber vial	WGFX	4oz wide jar w/hexane wipe
BP1U	1 liter unpreserved plastic	BP1A	1 liter NaOH, Asc Acid plastic	DG9M	40mL MeOH clear vial	ZPLC	Ziploc Bag

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(317)875-5894

April 10, 2013

Mr. Steve Stanford
Weaver Boos & Gordon
4085 Meghan Beeler Court
South Bend, IN 46628

RE: Project: Former Carpenter Mfg.
Pace Project No.: 5078079

Dear Mr. Stanford:
Enclosed are the analytical results for sample(s) received by the laboratory on March 27, 2013. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Lyle Cable

lyle.cable@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: Former Carpenter Mfg.
Pace Project No.: 5078079

Indiana Certification IDs
7726 Moller Road, Indianapolis, IN 46268
Illinois Certification #: 200074
Indiana Certification #: C-49-06
Kansas Certification #: E-10247
Kentucky Certification #: 0042
Louisiana/NELAC Certification #: 04076
Ohio VAP Certification #: 101170-0
Pennsylvania Certification #: 68-04991
West Virginia Certification #: 330

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SAMPLE SUMMARY

Project: Former Carpenter Mfg.
Pace Project No.: 5078079

Lab ID	Sample ID	Matrix	Date Collected	Date Received
5078079001	**P-27 10-12'**	Solid	03/27/13 09:30	03/27/13 16:16
5078079002	**P-28 7-9'**	Solid	03/27/13 09:55	03/27/13 16:16
5078079003	**P-26 12-16'**	Solid	03/27/13 10:20	03/27/13 16:16
5078079004	**P-24 4-8'**	Solid	03/27/13 10:55	03/27/13 16:16
5078079005	**P-29 10-14'**	Solid	03/27/13 11:20	03/27/13 16:16
5078079006	**P-25 13-15'**	Solid	03/27/13 11:40	03/27/13 16:16
5078079007	**P-23 15-17'**	Solid	03/27/13 12:50	03/27/13 16:16
5078079008	**P-22 15-17'**	Solid	03/27/13 13:50	03/27/13 16:16
5078079009	**Field Dup 10-12'**	Solid	03/27/13 09:35	03/27/13 16:16
5078079010	**Trip Blank**	Solid	03/27/13 08:00	03/27/13 16:16

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SAMPLE ANALYTE COUNT

Project: Former Carpenter Mfg.
Pace Project No.: 5078079

Lab ID	Sample ID	Method	Analysts	Analytes Reported
5078079001	**P-27 10-12'**	EPA 8260	GRM	73
		ASTM D2974-87	MLS	1
5078079002	**P-28 7-9'**	EPA 8260	GRM	73
		ASTM D2974-87	MLS	1
5078079003	**P-26 12-16'**	EPA 8260	GRM	73
		ASTM D2974-87	MLS	1
5078079004	**P-24 4-8'**	EPA 8260	GRM	73
		ASTM D2974-87	MLS	1
5078079005	**P-29 10-14'**	EPA 8260	GRM	73
		ASTM D2974-87	MLS	1
5078079006	**P-25 13-15'**	EPA 8260	GRM	73
		ASTM D2974-87	MLS	1
5078079007	**P-23 15-17'**	EPA 8260	GRM	73
		ASTM D2974-87	MLS	1
5078079008	**P-22 15-17'**	EPA 8260	GRM	73
		ASTM D2974-87	MLS	1
5078079009	**Field Dup 10-12'**	EPA 8260	GRM	73
		ASTM D2974-87	MLS	1
5078079010	**Trip Blank**	EPA 8260	GRM	73

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ANALYTICAL RESULTS

Project: Former Carpenter Mfg.
Pace Project No.: 5078079

Sample: P-27 10-12' **Lab ID: 5078079001** Collected: 03/27/13 09:30 Received: 03/27/13 16:16 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	72.8	1		04/05/13 17:06	67-64-1	
Acrolein	ND	ug/kg	72.8	1		04/05/13 17:06	107-02-8	
Acrylonitrile	ND	ug/kg	72.8	1		04/05/13 17:06	107-13-1	
Benzene	ND	ug/kg	3.6	1		04/05/13 17:06	71-43-2	
Bromobenzene	ND	ug/kg	3.6	1		04/05/13 17:06	108-86-1	
Bromochloromethane	ND	ug/kg	3.6	1		04/05/13 17:06	74-97-5	
Bromodichloromethane	ND	ug/kg	3.6	1		04/05/13 17:06	75-27-4	
Bromoform	ND	ug/kg	3.6	1		04/05/13 17:06	75-25-2	
Bromomethane	ND	ug/kg	3.6	1		04/05/13 17:06	74-83-9	
2-Butanone (MEK)	ND	ug/kg	18.2	1		04/05/13 17:06	78-93-3	
n-Butylbenzene	ND	ug/kg	3.6	1		04/05/13 17:06	104-51-8	
sec-Butylbenzene	ND	ug/kg	3.6	1		04/05/13 17:06	135-98-8	
tert-Butylbenzene	ND	ug/kg	3.6	1		04/05/13 17:06	98-06-6	
Carbon disulfide	ND	ug/kg	7.3	1		04/05/13 17:06	75-15-0	
Carbon tetrachloride	ND	ug/kg	3.6	1		04/05/13 17:06	56-23-5	
Chlorobenzene	ND	ug/kg	3.6	1		04/05/13 17:06	108-90-7	
Chloroethane	ND	ug/kg	3.6	1		04/05/13 17:06	75-00-3	
Chloroform	ND	ug/kg	3.6	1		04/05/13 17:06	67-66-3	
Chloromethane	ND	ug/kg	3.6	1		04/05/13 17:06	74-87-3	
2-Chlorotoluene	ND	ug/kg	3.6	1		04/05/13 17:06	95-49-8	
4-Chlorotoluene	ND	ug/kg	3.6	1		04/05/13 17:06	106-43-4	
Dibromochloromethane	ND	ug/kg	3.6	1		04/05/13 17:06	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	3.6	1		04/05/13 17:06	106-93-4	
Dibromomethane	ND	ug/kg	3.6	1		04/05/13 17:06	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	3.6	1		04/05/13 17:06	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	3.6	1		04/05/13 17:06	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	3.6	1		04/05/13 17:06	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	72.8	1		04/05/13 17:06	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	3.6	1		04/05/13 17:06	75-71-8	
1,1-Dichloroethane	ND	ug/kg	3.6	1		04/05/13 17:06	75-34-3	
1,2-Dichloroethane	ND	ug/kg	3.6	1		04/05/13 17:06	107-06-2	
1,1-Dichloroethene	ND	ug/kg	3.6	1		04/05/13 17:06	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	3.6	1		04/05/13 17:06	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	3.6	1		04/05/13 17:06	156-60-5	
1,2-Dichloropropane	ND	ug/kg	3.6	1		04/05/13 17:06	78-87-5	
1,3-Dichloropropane	ND	ug/kg	3.6	1		04/05/13 17:06	142-28-9	
2,2-Dichloropropane	ND	ug/kg	3.6	1		04/05/13 17:06	594-20-7	
1,1-Dichloropropene	ND	ug/kg	3.6	1		04/05/13 17:06	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	3.6	1		04/05/13 17:06	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	3.6	1		04/05/13 17:06	10061-02-6	
Ethylbenzene	ND	ug/kg	3.6	1		04/05/13 17:06	100-41-4	
Ethyl methacrylate	ND	ug/kg	72.8	1		04/05/13 17:06	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	3.6	1		04/05/13 17:06	87-68-3	
n-Hexane	ND	ug/kg	3.6	1		04/05/13 17:06	110-54-3	N2
2-Hexanone	ND	ug/kg	72.8	1		04/05/13 17:06	591-78-6	
Iodomethane	ND	ug/kg	72.8	1		04/05/13 17:06	74-88-4	

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ANALYTICAL RESULTS

Project: Former Carpenter Mfg.
Pace Project No.: 5078079

Sample: P-27 10-12' **Lab ID: 5078079001** Collected: 03/27/13 09:30 Received: 03/27/13 16:16 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Isopropylbenzene (Cumene)	ND	ug/kg	3.6	1		04/05/13 17:06	98-82-8	
p-Isopropyltoluene	ND	ug/kg	3.6	1		04/05/13 17:06	99-87-6	
Methylene Chloride	ND	ug/kg	14.6	1		04/05/13 17:06	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	18.2	1		04/05/13 17:06	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	3.6	1		04/05/13 17:06	1634-04-4	
Naphthalene	ND	ug/kg	3.6	1		04/05/13 17:06	91-20-3	
n-Propylbenzene	ND	ug/kg	3.6	1		04/05/13 17:06	103-65-1	
Styrene	ND	ug/kg	3.6	1		04/05/13 17:06	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	3.6	1		04/05/13 17:06	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	3.6	1		04/05/13 17:06	79-34-5	
Tetrachloroethene	ND	ug/kg	3.6	1		04/05/13 17:06	127-18-4	
Toluene	ND	ug/kg	3.6	1		04/05/13 17:06	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	3.6	1		04/05/13 17:06	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	3.6	1		04/05/13 17:06	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	3.6	1		04/05/13 17:06	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	3.6	1		04/05/13 17:06	79-00-5	
Trichloroethene	ND	ug/kg	3.6	1		04/05/13 17:06	79-01-6	
Trichlorofluoromethane	ND	ug/kg	3.6	1		04/05/13 17:06	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	3.6	1		04/05/13 17:06	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	3.6	1		04/05/13 17:06	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	3.6	1		04/05/13 17:06	108-67-8	
Vinyl acetate	ND	ug/kg	72.8	1		04/05/13 17:06	108-05-4	
Vinyl chloride	ND	ug/kg	3.6	1		04/05/13 17:06	75-01-4	
Xylene (Total)	ND	ug/kg	7.3	1		04/05/13 17:06	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	111	%.	85-118	1		04/05/13 17:06	1868-53-7	
Toluene-d8 (S)	103	%.	71-128	1		04/05/13 17:06	2037-26-5	
4-Bromofluorobenzene (S)	101	%.	56-144	1		04/05/13 17:06	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**11.4**	%	0.10	1		04/03/13 08:06		

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ANALYTICAL RESULTS

Project: Former Carpenter Mfg.
Pace Project No.: 5078079

Sample: P-28 7-9' **Lab ID: 5078079002** Collected: 03/27/13 09:55 Received: 03/27/13 16:16 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	74.2	1		04/05/13 17:39	67-64-1	
Acrolein	ND	ug/kg	74.2	1		04/05/13 17:39	107-02-8	
Acrylonitrile	ND	ug/kg	74.2	1		04/05/13 17:39	107-13-1	
Benzene	ND	ug/kg	3.7	1		04/05/13 17:39	71-43-2	
Bromobenzene	ND	ug/kg	3.7	1		04/05/13 17:39	108-86-1	
Bromochloromethane	ND	ug/kg	3.7	1		04/05/13 17:39	74-97-5	
Bromodichloromethane	ND	ug/kg	3.7	1		04/05/13 17:39	75-27-4	
Bromoform	ND	ug/kg	3.7	1		04/05/13 17:39	75-25-2	
Bromomethane	ND	ug/kg	3.7	1		04/05/13 17:39	74-83-9	
2-Butanone (MEK)	ND	ug/kg	18.6	1		04/05/13 17:39	78-93-3	
n-Butylbenzene	ND	ug/kg	3.7	1		04/05/13 17:39	104-51-8	
sec-Butylbenzene	ND	ug/kg	3.7	1		04/05/13 17:39	135-98-8	
tert-Butylbenzene	ND	ug/kg	3.7	1		04/05/13 17:39	98-06-6	
Carbon disulfide	ND	ug/kg	7.4	1		04/05/13 17:39	75-15-0	
Carbon tetrachloride	ND	ug/kg	3.7	1		04/05/13 17:39	56-23-5	
Chlorobenzene	ND	ug/kg	3.7	1		04/05/13 17:39	108-90-7	
Chloroethane	ND	ug/kg	3.7	1		04/05/13 17:39	75-00-3	
Chloroform	ND	ug/kg	3.7	1		04/05/13 17:39	67-66-3	
Chloromethane	ND	ug/kg	3.7	1		04/05/13 17:39	74-87-3	
2-Chlorotoluene	ND	ug/kg	3.7	1		04/05/13 17:39	95-49-8	
4-Chlorotoluene	ND	ug/kg	3.7	1		04/05/13 17:39	106-43-4	
Dibromochloromethane	ND	ug/kg	3.7	1		04/05/13 17:39	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	3.7	1		04/05/13 17:39	106-93-4	
Dibromomethane	ND	ug/kg	3.7	1		04/05/13 17:39	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	3.7	1		04/05/13 17:39	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	3.7	1		04/05/13 17:39	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	3.7	1		04/05/13 17:39	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	74.2	1		04/05/13 17:39	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	3.7	1		04/05/13 17:39	75-71-8	
1,1-Dichloroethane	ND	ug/kg	3.7	1		04/05/13 17:39	75-34-3	
1,2-Dichloroethane	ND	ug/kg	3.7	1		04/05/13 17:39	107-06-2	
1,1-Dichloroethene	ND	ug/kg	3.7	1		04/05/13 17:39	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	3.7	1		04/05/13 17:39	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	3.7	1		04/05/13 17:39	156-60-5	
1,2-Dichloropropane	ND	ug/kg	3.7	1		04/05/13 17:39	78-87-5	
1,3-Dichloropropane	ND	ug/kg	3.7	1		04/05/13 17:39	142-28-9	
2,2-Dichloropropane	ND	ug/kg	3.7	1		04/05/13 17:39	594-20-7	
1,1-Dichloropropene	ND	ug/kg	3.7	1		04/05/13 17:39	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	3.7	1		04/05/13 17:39	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	3.7	1		04/05/13 17:39	10061-02-6	
Ethylbenzene	ND	ug/kg	3.7	1		04/05/13 17:39	100-41-4	
Ethyl methacrylate	ND	ug/kg	74.2	1		04/05/13 17:39	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	3.7	1		04/05/13 17:39	87-68-3	
n-Hexane	ND	ug/kg	3.7	1		04/05/13 17:39	110-54-3	N2
2-Hexanone	ND	ug/kg	74.2	1		04/05/13 17:39	591-78-6	
Iodomethane	ND	ug/kg	74.2	1		04/05/13 17:39	74-88-4	

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ANALYTICAL RESULTS

Project: Former Carpenter Mfg.
Pace Project No.: 5078079

Sample: P-28 7-9' **Lab ID: 5078079002** Collected: 03/27/13 09:55 Received: 03/27/13 16:16 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Isopropylbenzene (Cumene)	ND	ug/kg	3.7	1		04/05/13 17:39	98-82-8	
p-Isopropyltoluene	ND	ug/kg	3.7	1		04/05/13 17:39	99-87-6	
Methylene Chloride	ND	ug/kg	14.8	1		04/05/13 17:39	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	18.6	1		04/05/13 17:39	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	3.7	1		04/05/13 17:39	1634-04-4	
Naphthalene	ND	ug/kg	3.7	1		04/05/13 17:39	91-20-3	
n-Propylbenzene	ND	ug/kg	3.7	1		04/05/13 17:39	103-65-1	
Styrene	ND	ug/kg	3.7	1		04/05/13 17:39	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	3.7	1		04/05/13 17:39	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	3.7	1		04/05/13 17:39	79-34-5	
Tetrachloroethene	ND	ug/kg	3.7	1		04/05/13 17:39	127-18-4	
Toluene	ND	ug/kg	3.7	1		04/05/13 17:39	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	3.7	1		04/05/13 17:39	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	3.7	1		04/05/13 17:39	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	3.7	1		04/05/13 17:39	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	3.7	1		04/05/13 17:39	79-00-5	
Trichloroethene	ND	ug/kg	3.7	1		04/05/13 17:39	79-01-6	
Trichlorofluoromethane	ND	ug/kg	3.7	1		04/05/13 17:39	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	3.7	1		04/05/13 17:39	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	3.7	1		04/05/13 17:39	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	3.7	1		04/05/13 17:39	108-67-8	
Vinyl acetate	ND	ug/kg	74.2	1		04/05/13 17:39	108-05-4	
Vinyl chloride	ND	ug/kg	3.7	1		04/05/13 17:39	75-01-4	
Xylene (Total)	ND	ug/kg	7.4	1		04/05/13 17:39	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	114	%.	85-118	1		04/05/13 17:39	1868-53-7	
Toluene-d8 (S)	102	%.	71-128	1		04/05/13 17:39	2037-26-5	
4-Bromofluorobenzene (S)	102	%.	56-144	1		04/05/13 17:39	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**11.7**	%	0.10	1		04/03/13 08:06		

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ANALYTICAL RESULTS

Project: Former Carpenter Mfg.
Pace Project No.: 5078079

Sample: P-26 12-16' **Lab ID: 5078079003** Collected: 03/27/13 10:20 Received: 03/27/13 16:16 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	68.2	1		04/09/13 15:31	67-64-1	
Acrolein	ND	ug/kg	68.2	1		04/09/13 15:31	107-02-8	
Acrylonitrile	ND	ug/kg	68.2	1		04/09/13 15:31	107-13-1	
Benzene	**57.6**	ug/kg	3.4	1		04/09/13 15:31	71-43-2	
Bromobenzene	ND	ug/kg	3.4	1		04/09/13 15:31	108-86-1	
Bromochloromethane	ND	ug/kg	3.4	1		04/09/13 15:31	74-97-5	
Bromodichloromethane	ND	ug/kg	3.4	1		04/09/13 15:31	75-27-4	
Bromoform	ND	ug/kg	3.4	1		04/09/13 15:31	75-25-2	
Bromomethane	ND	ug/kg	3.4	1		04/09/13 15:31	74-83-9	
2-Butanone (MEK)	ND	ug/kg	17.0	1		04/09/13 15:31	78-93-3	
n-Butylbenzene	ND	ug/kg	3.4	1		04/09/13 15:31	104-51-8	
sec-Butylbenzene	ND	ug/kg	3.4	1		04/09/13 15:31	135-98-8	
tert-Butylbenzene	ND	ug/kg	3.4	1		04/09/13 15:31	98-06-6	
Carbon disulfide	ND	ug/kg	6.8	1		04/09/13 15:31	75-15-0	
Carbon tetrachloride	ND	ug/kg	3.4	1		04/09/13 15:31	56-23-5	
Chlorobenzene	ND	ug/kg	3.4	1		04/09/13 15:31	108-90-7	
Chloroethane	ND	ug/kg	3.4	1		04/09/13 15:31	75-00-3	
Chloroform	ND	ug/kg	3.4	1		04/09/13 15:31	67-66-3	
Chloromethane	ND	ug/kg	3.4	1		04/09/13 15:31	74-87-3	
2-Chlorotoluene	ND	ug/kg	3.4	1		04/09/13 15:31	95-49-8	
4-Chlorotoluene	ND	ug/kg	3.4	1		04/09/13 15:31	106-43-4	
Dibromochloromethane	ND	ug/kg	3.4	1		04/09/13 15:31	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	3.4	1		04/09/13 15:31	106-93-4	
Dibromomethane	ND	ug/kg	3.4	1		04/09/13 15:31	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	3.4	1		04/09/13 15:31	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	3.4	1		04/09/13 15:31	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	3.4	1		04/09/13 15:31	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	68.2	1		04/09/13 15:31	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	3.4	1		04/09/13 15:31	75-71-8	
1,1-Dichloroethane	ND	ug/kg	3.4	1		04/09/13 15:31	75-34-3	
1,2-Dichloroethane	ND	ug/kg	3.4	1		04/09/13 15:31	107-06-2	
1,1-Dichloroethene	ND	ug/kg	3.4	1		04/09/13 15:31	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	3.4	1		04/09/13 15:31	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	3.4	1		04/09/13 15:31	156-60-5	
1,2-Dichloropropane	ND	ug/kg	3.4	1		04/09/13 15:31	78-87-5	
1,3-Dichloropropane	ND	ug/kg	3.4	1		04/09/13 15:31	142-28-9	
2,2-Dichloropropane	ND	ug/kg	3.4	1		04/09/13 15:31	594-20-7	
1,1-Dichloropropene	ND	ug/kg	3.4	1		04/09/13 15:31	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	3.4	1		04/09/13 15:31	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	3.4	1		04/09/13 15:31	10061-02-6	
Ethylbenzene	**10.4**	ug/kg	3.4	1		04/09/13 15:31	100-41-4	
Ethyl methacrylate	ND	ug/kg	68.2	1		04/09/13 15:31	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	3.4	1		04/09/13 15:31	87-68-3	
n-Hexane	ND	ug/kg	3.4	1		04/09/13 15:31	110-54-3	N2
2-Hexanone	ND	ug/kg	68.2	1		04/09/13 15:31	591-78-6	
Iodomethane	ND	ug/kg	68.2	1		04/09/13 15:31	74-88-4	

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ANALYTICAL RESULTS

Project: Former Carpenter Mfg.
Pace Project No.: 5078079

Sample: P-26 12-16' **Lab ID: 5078079003** Collected: 03/27/13 10:20 Received: 03/27/13 16:16 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Isopropylbenzene (Cumene)	ND	ug/kg	3.4	1		04/09/13 15:31	98-82-8	
p-Isopropyltoluene	ND	ug/kg	3.4	1		04/09/13 15:31	99-87-6	
Methylene Chloride	ND	ug/kg	13.6	1		04/09/13 15:31	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	17.0	1		04/09/13 15:31	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	3.4	1		04/09/13 15:31	1634-04-4	
Naphthalene	ND	ug/kg	3.4	1		04/09/13 15:31	91-20-3	
n-Propylbenzene	ND	ug/kg	3.4	1		04/09/13 15:31	103-65-1	
Styrene	ND	ug/kg	3.4	1		04/09/13 15:31	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	3.4	1		04/09/13 15:31	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	3.4	1		04/09/13 15:31	79-34-5	
Tetrachloroethene	ND	ug/kg	3.4	1		04/09/13 15:31	127-18-4	
Toluene	**8.4**	ug/kg	3.4	1		04/09/13 15:31	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	3.4	1		04/09/13 15:31	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	3.4	1		04/09/13 15:31	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	3.4	1		04/09/13 15:31	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	3.4	1		04/09/13 15:31	79-00-5	
Trichloroethene	ND	ug/kg	3.4	1		04/09/13 15:31	79-01-6	
Trichlorofluoromethane	ND	ug/kg	3.4	1		04/09/13 15:31	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	3.4	1		04/09/13 15:31	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	3.4	1		04/09/13 15:31	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	3.4	1		04/09/13 15:31	108-67-8	
Vinyl acetate	ND	ug/kg	68.2	1		04/09/13 15:31	108-05-4	
Vinyl chloride	ND	ug/kg	3.4	1		04/09/13 15:31	75-01-4	
Xylene (Total)	**7.3**	ug/kg	6.8	1		04/09/13 15:31	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	107	%.	85-118	1		04/09/13 15:31	1868-53-7	
Toluene-d8 (S)	98	%.	71-128	1		04/09/13 15:31	2037-26-5	
4-Bromofluorobenzene (S)	100	%.	56-144	1		04/09/13 15:31	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**9.9**	%	0.10	1		04/03/13 08:06		

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ANALYTICAL RESULTS

Project: Former Carpenter Mfg.
Pace Project No.: 5078079

Sample: P-24 4-8' **Lab ID: 5078079004** Collected: 03/27/13 10:55 Received: 03/27/13 16:16 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	95.4	1		04/05/13 19:55	67-64-1	
Acrolein	ND	ug/kg	95.4	1		04/05/13 19:55	107-02-8	
Acrylonitrile	ND	ug/kg	95.4	1		04/05/13 19:55	107-13-1	
Benzene	ND	ug/kg	4.8	1		04/05/13 19:55	71-43-2	
Bromobenzene	ND	ug/kg	4.8	1		04/05/13 19:55	108-86-1	
Bromochloromethane	ND	ug/kg	4.8	1		04/05/13 19:55	74-97-5	
Bromodichloromethane	ND	ug/kg	4.8	1		04/05/13 19:55	75-27-4	
Bromoform	ND	ug/kg	4.8	1		04/05/13 19:55	75-25-2	
Bromomethane	ND	ug/kg	4.8	1		04/05/13 19:55	74-83-9	
2-Butanone (MEK)	ND	ug/kg	23.8	1		04/05/13 19:55	78-93-3	
n-Butylbenzene	ND	ug/kg	4.8	1		04/05/13 19:55	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.8	1		04/05/13 19:55	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.8	1		04/05/13 19:55	98-06-6	
Carbon disulfide	ND	ug/kg	9.5	1		04/05/13 19:55	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.8	1		04/05/13 19:55	56-23-5	
Chlorobenzene	ND	ug/kg	4.8	1		04/05/13 19:55	108-90-7	
Chloroethane	ND	ug/kg	4.8	1		04/05/13 19:55	75-00-3	
Chloroform	ND	ug/kg	4.8	1		04/05/13 19:55	67-66-3	
Chloromethane	ND	ug/kg	4.8	1		04/05/13 19:55	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.8	1		04/05/13 19:55	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.8	1		04/05/13 19:55	106-43-4	
Dibromochloromethane	ND	ug/kg	4.8	1		04/05/13 19:55	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.8	1		04/05/13 19:55	106-93-4	
Dibromomethane	ND	ug/kg	4.8	1		04/05/13 19:55	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.8	1		04/05/13 19:55	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.8	1		04/05/13 19:55	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.8	1		04/05/13 19:55	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	95.4	1		04/05/13 19:55	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	4.8	1		04/05/13 19:55	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.8	1		04/05/13 19:55	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.8	1		04/05/13 19:55	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.8	1		04/05/13 19:55	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.8	1		04/05/13 19:55	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.8	1		04/05/13 19:55	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.8	1		04/05/13 19:55	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.8	1		04/05/13 19:55	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.8	1		04/05/13 19:55	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.8	1		04/05/13 19:55	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.8	1		04/05/13 19:55	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.8	1		04/05/13 19:55	10061-02-6	
Ethylbenzene	ND	ug/kg	4.8	1		04/05/13 19:55	100-41-4	
Ethyl methacrylate	ND	ug/kg	95.4	1		04/05/13 19:55	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	4.8	1		04/05/13 19:55	87-68-3	
n-Hexane	ND	ug/kg	4.8	1		04/05/13 19:55	110-54-3	N2
2-Hexanone	ND	ug/kg	95.4	1		04/05/13 19:55	591-78-6	
Iodomethane	ND	ug/kg	95.4	1		04/05/13 19:55	74-88-4	

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ANALYTICAL RESULTS

Project: Former Carpenter Mfg.
Pace Project No.: 5078079

Sample: P-24 4-8' **Lab ID: 5078079004** Collected: 03/27/13 10:55 Received: 03/27/13 16:16 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Isopropylbenzene (Cumene)	ND	ug/kg	4.8	1		04/05/13 19:55	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.8	1		04/05/13 19:55	99-87-6	
Methylene Chloride	ND	ug/kg	19.1	1		04/05/13 19:55	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	23.8	1		04/05/13 19:55	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.8	1		04/05/13 19:55	1634-04-4	
Naphthalene	ND	ug/kg	4.8	1		04/05/13 19:55	91-20-3	
n-Propylbenzene	ND	ug/kg	4.8	1		04/05/13 19:55	103-65-1	
Styrene	ND	ug/kg	4.8	1		04/05/13 19:55	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.8	1		04/05/13 19:55	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.8	1		04/05/13 19:55	79-34-5	
Tetrachloroethene	ND	ug/kg	4.8	1		04/05/13 19:55	127-18-4	
Toluene	ND	ug/kg	4.8	1		04/05/13 19:55	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.8	1		04/05/13 19:55	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.8	1		04/05/13 19:55	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.8	1		04/05/13 19:55	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.8	1		04/05/13 19:55	79-00-5	
Trichloroethene	ND	ug/kg	4.8	1		04/05/13 19:55	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.8	1		04/05/13 19:55	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.8	1		04/05/13 19:55	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.8	1		04/05/13 19:55	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.8	1		04/05/13 19:55	108-67-8	
Vinyl acetate	ND	ug/kg	95.4	1		04/05/13 19:55	108-05-4	
Vinyl chloride	ND	ug/kg	4.8	1		04/05/13 19:55	75-01-4	
Xylene (Total)	ND	ug/kg	9.5	1		04/05/13 19:55	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	110	%.	85-118	1		04/05/13 19:55	1868-53-7	
Toluene-d8 (S)	102	%.	71-128	1		04/05/13 19:55	2037-26-5	
4-Bromofluorobenzene (S)	102	%.	56-144	1		04/05/13 19:55	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**19.0**	%	0.10	1		04/03/13 08:06		

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ANALYTICAL RESULTS

Project: Former Carpenter Mfg.
Pace Project No.: 5078079

Sample: P-29 10-14' **Lab ID: 5078079005** Collected: 03/27/13 11:20 Received: 03/27/13 16:16 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	67.7	1		04/05/13 20:28	67-64-1	
Acrolein	ND	ug/kg	67.7	1		04/05/13 20:28	107-02-8	
Acrylonitrile	ND	ug/kg	67.7	1		04/05/13 20:28	107-13-1	
Benzene	ND	ug/kg	3.4	1		04/05/13 20:28	71-43-2	
Bromobenzene	ND	ug/kg	3.4	1		04/05/13 20:28	108-86-1	
Bromochloromethane	ND	ug/kg	3.4	1		04/05/13 20:28	74-97-5	
Bromodichloromethane	ND	ug/kg	3.4	1		04/05/13 20:28	75-27-4	
Bromoform	ND	ug/kg	3.4	1		04/05/13 20:28	75-25-2	
Bromomethane	ND	ug/kg	3.4	1		04/05/13 20:28	74-83-9	
2-Butanone (MEK)	ND	ug/kg	16.9	1		04/05/13 20:28	78-93-3	
n-Butylbenzene	ND	ug/kg	3.4	1		04/05/13 20:28	104-51-8	
sec-Butylbenzene	ND	ug/kg	3.4	1		04/05/13 20:28	135-98-8	
tert-Butylbenzene	ND	ug/kg	3.4	1		04/05/13 20:28	98-06-6	
Carbon disulfide	ND	ug/kg	6.8	1		04/05/13 20:28	75-15-0	
Carbon tetrachloride	ND	ug/kg	3.4	1		04/05/13 20:28	56-23-5	
Chlorobenzene	ND	ug/kg	3.4	1		04/05/13 20:28	108-90-7	
Chloroethane	ND	ug/kg	3.4	1		04/05/13 20:28	75-00-3	
Chloroform	ND	ug/kg	3.4	1		04/05/13 20:28	67-66-3	
Chloromethane	ND	ug/kg	3.4	1		04/05/13 20:28	74-87-3	
2-Chlorotoluene	ND	ug/kg	3.4	1		04/05/13 20:28	95-49-8	
4-Chlorotoluene	ND	ug/kg	3.4	1		04/05/13 20:28	106-43-4	
Dibromochloromethane	ND	ug/kg	3.4	1		04/05/13 20:28	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	3.4	1		04/05/13 20:28	106-93-4	
Dibromomethane	ND	ug/kg	3.4	1		04/05/13 20:28	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	3.4	1		04/05/13 20:28	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	3.4	1		04/05/13 20:28	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	3.4	1		04/05/13 20:28	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	67.7	1		04/05/13 20:28	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	3.4	1		04/05/13 20:28	75-71-8	
1,1-Dichloroethane	ND	ug/kg	3.4	1		04/05/13 20:28	75-34-3	
1,2-Dichloroethane	ND	ug/kg	3.4	1		04/05/13 20:28	107-06-2	
1,1-Dichloroethene	ND	ug/kg	3.4	1		04/05/13 20:28	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	3.4	1		04/05/13 20:28	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	3.4	1		04/05/13 20:28	156-60-5	
1,2-Dichloropropane	ND	ug/kg	3.4	1		04/05/13 20:28	78-87-5	
1,3-Dichloropropane	ND	ug/kg	3.4	1		04/05/13 20:28	142-28-9	
2,2-Dichloropropane	ND	ug/kg	3.4	1		04/05/13 20:28	594-20-7	
1,1-Dichloropropene	ND	ug/kg	3.4	1		04/05/13 20:28	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	3.4	1		04/05/13 20:28	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	3.4	1		04/05/13 20:28	10061-02-6	
Ethylbenzene	ND	ug/kg	3.4	1		04/05/13 20:28	100-41-4	
Ethyl methacrylate	ND	ug/kg	67.7	1		04/05/13 20:28	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	3.4	1		04/05/13 20:28	87-68-3	
n-Hexane	ND	ug/kg	3.4	1		04/05/13 20:28	110-54-3	N2
2-Hexanone	ND	ug/kg	67.7	1		04/05/13 20:28	591-78-6	
Iodomethane	ND	ug/kg	67.7	1		04/05/13 20:28	74-88-4	

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ANALYTICAL RESULTS

Project: Former Carpenter Mfg.
Pace Project No.: 5078079

Sample: P-29 10-14' **Lab ID: 5078079005** Collected: 03/27/13 11:20 Received: 03/27/13 16:16 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Isopropylbenzene (Cumene)	ND	ug/kg	3.4	1		04/05/13 20:28	98-82-8	
p-Isopropyltoluene	ND	ug/kg	3.4	1		04/05/13 20:28	99-87-6	
Methylene Chloride	ND	ug/kg	13.5	1		04/05/13 20:28	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	16.9	1		04/05/13 20:28	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	3.4	1		04/05/13 20:28	1634-04-4	
Naphthalene	ND	ug/kg	3.4	1		04/05/13 20:28	91-20-3	
n-Propylbenzene	ND	ug/kg	3.4	1		04/05/13 20:28	103-65-1	
Styrene	ND	ug/kg	3.4	1		04/05/13 20:28	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	3.4	1		04/05/13 20:28	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	3.4	1		04/05/13 20:28	79-34-5	
Tetrachloroethene	ND	ug/kg	3.4	1		04/05/13 20:28	127-18-4	
Toluene	ND	ug/kg	3.4	1		04/05/13 20:28	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	3.4	1		04/05/13 20:28	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	3.4	1		04/05/13 20:28	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	3.4	1		04/05/13 20:28	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	3.4	1		04/05/13 20:28	79-00-5	
Trichloroethene	ND	ug/kg	3.4	1		04/05/13 20:28	79-01-6	
Trichlorofluoromethane	ND	ug/kg	3.4	1		04/05/13 20:28	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	3.4	1		04/05/13 20:28	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	3.4	1		04/05/13 20:28	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	3.4	1		04/05/13 20:28	108-67-8	
Vinyl acetate	ND	ug/kg	67.7	1		04/05/13 20:28	108-05-4	
Vinyl chloride	ND	ug/kg	3.4	1		04/05/13 20:28	75-01-4	
Xylene (Total)	ND	ug/kg	6.8	1		04/05/13 20:28	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	105	%.	85-118	1		04/05/13 20:28	1868-53-7	
Toluene-d8 (S)	102	%.	71-128	1		04/05/13 20:28	2037-26-5	
4-Bromofluorobenzene (S)	100	%.	56-144	1		04/05/13 20:28	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**9.3**	%	0.10	1		04/03/13 08:06		

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ANALYTICAL RESULTS

Project: Former Carpenter Mfg.
Pace Project No.: 5078079

Sample: P-25 13-15' **Lab ID: 5078079006** Collected: 03/27/13 11:40 Received: 03/27/13 16:16 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	65.8	1		04/09/13 16:05	67-64-1	
Acrolein	ND	ug/kg	65.8	1		04/09/13 16:05	107-02-8	
Acrylonitrile	ND	ug/kg	65.8	1		04/09/13 16:05	107-13-1	
Benzene	**40.5**	ug/kg	3.3	1		04/09/13 16:05	71-43-2	
Bromobenzene	ND	ug/kg	3.3	1		04/09/13 16:05	108-86-1	
Bromochloromethane	ND	ug/kg	3.3	1		04/09/13 16:05	74-97-5	
Bromodichloromethane	ND	ug/kg	3.3	1		04/09/13 16:05	75-27-4	
Bromoform	ND	ug/kg	3.3	1		04/09/13 16:05	75-25-2	
Bromomethane	ND	ug/kg	3.3	1		04/09/13 16:05	74-83-9	
2-Butanone (MEK)	ND	ug/kg	16.4	1		04/09/13 16:05	78-93-3	
n-Butylbenzene	ND	ug/kg	3.3	1		04/09/13 16:05	104-51-8	
sec-Butylbenzene	ND	ug/kg	3.3	1		04/09/13 16:05	135-98-8	
tert-Butylbenzene	ND	ug/kg	3.3	1		04/09/13 16:05	98-06-6	
Carbon disulfide	ND	ug/kg	6.6	1		04/09/13 16:05	75-15-0	
Carbon tetrachloride	ND	ug/kg	3.3	1		04/09/13 16:05	56-23-5	
Chlorobenzene	ND	ug/kg	3.3	1		04/09/13 16:05	108-90-7	
Chloroethane	ND	ug/kg	3.3	1		04/09/13 16:05	75-00-3	
Chloroform	ND	ug/kg	3.3	1		04/09/13 16:05	67-66-3	
Chloromethane	ND	ug/kg	3.3	1		04/09/13 16:05	74-87-3	
2-Chlorotoluene	ND	ug/kg	3.3	1		04/09/13 16:05	95-49-8	
4-Chlorotoluene	ND	ug/kg	3.3	1		04/09/13 16:05	106-43-4	
Dibromochloromethane	ND	ug/kg	3.3	1		04/09/13 16:05	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	3.3	1		04/09/13 16:05	106-93-4	
Dibromomethane	ND	ug/kg	3.3	1		04/09/13 16:05	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	3.3	1		04/09/13 16:05	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	3.3	1		04/09/13 16:05	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	3.3	1		04/09/13 16:05	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	65.8	1		04/09/13 16:05	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	3.3	1		04/09/13 16:05	75-71-8	
1,1-Dichloroethane	ND	ug/kg	3.3	1		04/09/13 16:05	75-34-3	
1,2-Dichloroethane	ND	ug/kg	3.3	1		04/09/13 16:05	107-06-2	
1,1-Dichloroethene	ND	ug/kg	3.3	1		04/09/13 16:05	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	3.3	1		04/09/13 16:05	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	3.3	1		04/09/13 16:05	156-60-5	
1,2-Dichloropropane	ND	ug/kg	3.3	1		04/09/13 16:05	78-87-5	
1,3-Dichloropropane	ND	ug/kg	3.3	1		04/09/13 16:05	142-28-9	
2,2-Dichloropropane	ND	ug/kg	3.3	1		04/09/13 16:05	594-20-7	
1,1-Dichloropropene	ND	ug/kg	3.3	1		04/09/13 16:05	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	3.3	1		04/09/13 16:05	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	3.3	1		04/09/13 16:05	10061-02-6	
Ethylbenzene	**416**	ug/kg	102	25		04/05/13 21:02	100-41-4	
Ethyl methacrylate	ND	ug/kg	65.8	1		04/09/13 16:05	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	3.3	1		04/09/13 16:05	87-68-3	
n-Hexane	**106**	ug/kg	3.3	1		04/09/13 16:05	110-54-3	N2
2-Hexanone	ND	ug/kg	65.8	1		04/09/13 16:05	591-78-6	
Iodomethane	ND	ug/kg	65.8	1		04/09/13 16:05	74-88-4	

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ANALYTICAL RESULTS

Project: Former Carpenter Mfg.
Pace Project No.: 5078079

Sample: P-25 13-15' **Lab ID: 5078079006** Collected: 03/27/13 11:40 Received: 03/27/13 16:16 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Isopropylbenzene (Cumene)	**28.6**	ug/kg	3.3	1		04/09/13 16:05	98-82-8	
p-Isopropyltoluene	ND	ug/kg	3.3	1		04/09/13 16:05	99-87-6	
Methylene Chloride	ND	ug/kg	13.2	1		04/09/13 16:05	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	16.4	1		04/09/13 16:05	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	3.3	1		04/09/13 16:05	1634-04-4	
Naphthalene	**56.4**	ug/kg	3.3	1		04/09/13 16:05	91-20-3	
n-Propylbenzene	**38.0**	ug/kg	3.3	1		04/09/13 16:05	103-65-1	
Styrene	ND	ug/kg	3.3	1		04/09/13 16:05	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	3.3	1		04/09/13 16:05	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	3.3	1		04/09/13 16:05	79-34-5	
Tetrachloroethene	ND	ug/kg	3.3	1		04/09/13 16:05	127-18-4	
Toluene	**18.9**	ug/kg	3.3	1		04/09/13 16:05	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	3.3	1		04/09/13 16:05	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	3.3	1		04/09/13 16:05	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	3.3	1		04/09/13 16:05	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	3.3	1		04/09/13 16:05	79-00-5	
Trichloroethene	ND	ug/kg	3.3	1		04/09/13 16:05	79-01-6	
Trichlorofluoromethane	ND	ug/kg	3.3	1		04/09/13 16:05	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	3.3	1		04/09/13 16:05	96-18-4	
1,2,4-Trimethylbenzene	**183**	ug/kg	3.3	1		04/09/13 16:05	95-63-6	
1,3,5-Trimethylbenzene	**60.0**	ug/kg	3.3	1		04/09/13 16:05	108-67-8	
Vinyl acetate	ND	ug/kg	65.8	1		04/09/13 16:05	108-05-4	
Vinyl chloride	ND	ug/kg	3.3	1		04/09/13 16:05	75-01-4	
Xylene (Total)	**180**	ug/kg	6.6	1		04/09/13 16:05	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	103	%.	85-118	1		04/09/13 16:05	1868-53-7	
Toluene-d8 (S)	99	%.	71-128	1		04/09/13 16:05	2037-26-5	
4-Bromofluorobenzene (S)	96	%.	56-144	1		04/09/13 16:05	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**10.3**	%	0.10	1		04/03/13 08:06		

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ANALYTICAL RESULTS

Project: Former Carpenter Mfg.
Pace Project No.: 5078079

Sample: P-23 15-17' **Lab ID: 5078079007** Collected: 03/27/13 12:50 Received: 03/27/13 16:16 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	77.2	1		04/05/13 22:09	67-64-1	
Acrolein	ND	ug/kg	77.2	1		04/05/13 22:09	107-02-8	
Acrylonitrile	ND	ug/kg	77.2	1		04/05/13 22:09	107-13-1	
Benzene	ND	ug/kg	3.9	1		04/05/13 22:09	71-43-2	
Bromobenzene	ND	ug/kg	3.9	1		04/05/13 22:09	108-86-1	
Bromochloromethane	ND	ug/kg	3.9	1		04/05/13 22:09	74-97-5	
Bromodichloromethane	ND	ug/kg	3.9	1		04/05/13 22:09	75-27-4	
Bromoform	ND	ug/kg	3.9	1		04/05/13 22:09	75-25-2	
Bromomethane	ND	ug/kg	3.9	1		04/05/13 22:09	74-83-9	
2-Butanone (MEK)	ND	ug/kg	19.3	1		04/05/13 22:09	78-93-3	
n-Butylbenzene	ND	ug/kg	3.9	1		04/05/13 22:09	104-51-8	
sec-Butylbenzene	ND	ug/kg	3.9	1		04/05/13 22:09	135-98-8	
tert-Butylbenzene	ND	ug/kg	3.9	1		04/05/13 22:09	98-06-6	
Carbon disulfide	ND	ug/kg	7.7	1		04/05/13 22:09	75-15-0	
Carbon tetrachloride	ND	ug/kg	3.9	1		04/05/13 22:09	56-23-5	
Chlorobenzene	ND	ug/kg	3.9	1		04/05/13 22:09	108-90-7	
Chloroethane	ND	ug/kg	3.9	1		04/05/13 22:09	75-00-3	
Chloroform	ND	ug/kg	3.9	1		04/05/13 22:09	67-66-3	
Chloromethane	ND	ug/kg	3.9	1		04/05/13 22:09	74-87-3	
2-Chlorotoluene	ND	ug/kg	3.9	1		04/05/13 22:09	95-49-8	
4-Chlorotoluene	ND	ug/kg	3.9	1		04/05/13 22:09	106-43-4	
Dibromochloromethane	ND	ug/kg	3.9	1		04/05/13 22:09	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	3.9	1		04/05/13 22:09	106-93-4	
Dibromomethane	ND	ug/kg	3.9	1		04/05/13 22:09	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	3.9	1		04/05/13 22:09	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	3.9	1		04/05/13 22:09	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	3.9	1		04/05/13 22:09	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	77.2	1		04/05/13 22:09	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	3.9	1		04/05/13 22:09	75-71-8	
1,1-Dichloroethane	ND	ug/kg	3.9	1		04/05/13 22:09	75-34-3	
1,2-Dichloroethane	ND	ug/kg	3.9	1		04/05/13 22:09	107-06-2	
1,1-Dichloroethene	ND	ug/kg	3.9	1		04/05/13 22:09	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	3.9	1		04/05/13 22:09	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	3.9	1		04/05/13 22:09	156-60-5	
1,2-Dichloropropane	ND	ug/kg	3.9	1		04/05/13 22:09	78-87-5	
1,3-Dichloropropane	ND	ug/kg	3.9	1		04/05/13 22:09	142-28-9	
2,2-Dichloropropane	ND	ug/kg	3.9	1		04/05/13 22:09	594-20-7	
1,1-Dichloropropene	ND	ug/kg	3.9	1		04/05/13 22:09	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	3.9	1		04/05/13 22:09	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	3.9	1		04/05/13 22:09	10061-02-6	
Ethylbenzene	ND	ug/kg	3.9	1		04/05/13 22:09	100-41-4	
Ethyl methacrylate	ND	ug/kg	77.2	1		04/05/13 22:09	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	3.9	1		04/05/13 22:09	87-68-3	
n-Hexane	ND	ug/kg	3.9	1		04/05/13 22:09	110-54-3	N2
2-Hexanone	ND	ug/kg	77.2	1		04/05/13 22:09	591-78-6	
Iodomethane	ND	ug/kg	77.2	1		04/05/13 22:09	74-88-4	

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ANALYTICAL RESULTS

Project: Former Carpenter Mfg.
Pace Project No.: 5078079

Sample: P-23 15-17' **Lab ID: 5078079007** Collected: 03/27/13 12:50 Received: 03/27/13 16:16 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Isopropylbenzene (Cumene)	ND	ug/kg	3.9	1		04/05/13 22:09	98-82-8	
p-Isopropyltoluene	ND	ug/kg	3.9	1		04/05/13 22:09	99-87-6	
Methylene Chloride	ND	ug/kg	15.4	1		04/05/13 22:09	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	19.3	1		04/05/13 22:09	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	3.9	1		04/05/13 22:09	1634-04-4	
Naphthalene	ND	ug/kg	3.9	1		04/05/13 22:09	91-20-3	
n-Propylbenzene	ND	ug/kg	3.9	1		04/05/13 22:09	103-65-1	
Styrene	ND	ug/kg	3.9	1		04/05/13 22:09	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	3.9	1		04/05/13 22:09	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	3.9	1		04/05/13 22:09	79-34-5	
Tetrachloroethene	ND	ug/kg	3.9	1		04/05/13 22:09	127-18-4	
Toluene	ND	ug/kg	3.9	1		04/05/13 22:09	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	3.9	1		04/05/13 22:09	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	3.9	1		04/05/13 22:09	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	3.9	1		04/05/13 22:09	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	3.9	1		04/05/13 22:09	79-00-5	
Trichloroethene	ND	ug/kg	3.9	1		04/05/13 22:09	79-01-6	
Trichlorofluoromethane	ND	ug/kg	3.9	1		04/05/13 22:09	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	3.9	1		04/05/13 22:09	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	3.9	1		04/05/13 22:09	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	3.9	1		04/05/13 22:09	108-67-8	
Vinyl acetate	ND	ug/kg	77.2	1		04/05/13 22:09	108-05-4	
Vinyl chloride	ND	ug/kg	3.9	1		04/05/13 22:09	75-01-4	
Xylene (Total)	ND	ug/kg	7.7	1		04/05/13 22:09	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	99	%.	85-118	1		04/05/13 22:09	1868-53-7	
Toluene-d8 (S)	105	%.	71-128	1		04/05/13 22:09	2037-26-5	
4-Bromofluorobenzene (S)	96	%.	56-144	1		04/05/13 22:09	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**10.6**	%	0.10	1		04/03/13 08:06		

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ANALYTICAL RESULTS

Project: Former Carpenter Mfg.
Pace Project No.: 5078079

Sample: P-22 15-17' **Lab ID: 5078079008** Collected: 03/27/13 13:50 Received: 03/27/13 16:16 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	4500	50		04/05/13 22:42	67-64-1	
Acrolein	ND	ug/kg	4500	50		04/05/13 22:42	107-02-8	
Acrylonitrile	ND	ug/kg	4500	50		04/05/13 22:42	107-13-1	
Benzene	**4020**	ug/kg	225	50		04/05/13 22:42	71-43-2	
Bromobenzene	ND	ug/kg	225	50		04/05/13 22:42	108-86-1	
Bromochloromethane	ND	ug/kg	225	50		04/05/13 22:42	74-97-5	
Bromodichloromethane	ND	ug/kg	225	50		04/05/13 22:42	75-27-4	
Bromoform	ND	ug/kg	225	50		04/05/13 22:42	75-25-2	
Bromomethane	ND	ug/kg	225	50		04/05/13 22:42	74-83-9	
2-Butanone (MEK)	ND	ug/kg	1130	50		04/05/13 22:42	78-93-3	
n-Butylbenzene	**6820**	ug/kg	225	50		04/05/13 22:42	104-51-8	
sec-Butylbenzene	**2530**	ug/kg	225	50		04/05/13 22:42	135-98-8	
tert-Butylbenzene	ND	ug/kg	225	50		04/05/13 22:42	98-06-6	
Carbon disulfide	ND	ug/kg	450	50		04/05/13 22:42	75-15-0	
Carbon tetrachloride	ND	ug/kg	225	50		04/05/13 22:42	56-23-5	
Chlorobenzene	ND	ug/kg	225	50		04/05/13 22:42	108-90-7	
Chloroethane	ND	ug/kg	225	50		04/05/13 22:42	75-00-3	
Chloroform	ND	ug/kg	225	50		04/05/13 22:42	67-66-3	
Chloromethane	ND	ug/kg	225	50		04/05/13 22:42	74-87-3	
2-Chlorotoluene	ND	ug/kg	225	50		04/05/13 22:42	95-49-8	
4-Chlorotoluene	ND	ug/kg	225	50		04/05/13 22:42	106-43-4	
Dibromochloromethane	ND	ug/kg	225	50		04/05/13 22:42	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	225	50		04/05/13 22:42	106-93-4	
Dibromomethane	ND	ug/kg	225	50		04/05/13 22:42	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	225	50		04/05/13 22:42	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	225	50		04/05/13 22:42	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	225	50		04/05/13 22:42	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	4500	50		04/05/13 22:42	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	225	50		04/05/13 22:42	75-71-8	
1,1-Dichloroethane	ND	ug/kg	225	50		04/05/13 22:42	75-34-3	
1,2-Dichloroethane	ND	ug/kg	225	50		04/05/13 22:42	107-06-2	
1,1-Dichloroethene	ND	ug/kg	225	50		04/05/13 22:42	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	225	50		04/05/13 22:42	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	225	50		04/05/13 22:42	156-60-5	
1,2-Dichloropropane	ND	ug/kg	225	50		04/05/13 22:42	78-87-5	
1,3-Dichloropropane	ND	ug/kg	225	50		04/05/13 22:42	142-28-9	
2,2-Dichloropropane	ND	ug/kg	225	50		04/05/13 22:42	594-20-7	
1,1-Dichloropropene	ND	ug/kg	225	50		04/05/13 22:42	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	225	50		04/05/13 22:42	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	225	50		04/05/13 22:42	10061-02-6	
Ethylbenzene	**65800**	ug/kg	4500	1000		04/05/13 23:16	100-41-4	
Ethyl methacrylate	ND	ug/kg	4500	50		04/05/13 22:42	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	225	50		04/05/13 22:42	87-68-3	
n-Hexane	**99000**	ug/kg	4500	1000		04/05/13 23:16	110-54-3	N2
2-Hexanone	ND	ug/kg	4500	50		04/05/13 22:42	591-78-6	
Iodomethane	ND	ug/kg	4500	50		04/05/13 22:42	74-88-4	

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ANALYTICAL RESULTS

Project: Former Carpenter Mfg.
Pace Project No.: 5078079

Sample: P-22 15-17' **Lab ID: 5078079008** Collected: 03/27/13 13:50 Received: 03/27/13 16:16 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Isopropylbenzene (Cumene)	**12600**	ug/kg	225	50		04/05/13 22:42	98-82-8	
p-Isopropyltoluene	**2030**	ug/kg	225	50		04/05/13 22:42	99-87-6	
Methylene Chloride	ND	ug/kg	900	50		04/05/13 22:42	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	1130	50		04/05/13 22:42	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	225	50		04/05/13 22:42	1634-04-4	1d
Naphthalene	**26400**	ug/kg	4500	1000		04/05/13 23:16	91-20-3	
n-Propylbenzene	**26600**	ug/kg	4500	1000		04/05/13 23:16	103-65-1	
Styrene	ND	ug/kg	225	50		04/05/13 22:42	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	225	50		04/05/13 22:42	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	225	50		04/05/13 22:42	79-34-5	
Tetrachloroethene	ND	ug/kg	225	50		04/05/13 22:42	127-18-4	
Toluene	**10400**	ug/kg	225	50		04/05/13 22:42	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	225	50		04/05/13 22:42	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	225	50		04/05/13 22:42	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	225	50		04/05/13 22:42	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	225	50		04/05/13 22:42	79-00-5	
Trichloroethene	ND	ug/kg	225	50		04/05/13 22:42	79-01-6	
Trichlorofluoromethane	ND	ug/kg	225	50		04/05/13 22:42	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	225	50		04/05/13 22:42	96-18-4	
1,2,4-Trimethylbenzene	**140000**	ug/kg	4500	1000		04/05/13 23:16	95-63-6	
1,3,5-Trimethylbenzene	**46000**	ug/kg	4500	1000		04/05/13 23:16	108-67-8	
Vinyl acetate	ND	ug/kg	4500	50		04/05/13 22:42	108-05-4	
Vinyl chloride	ND	ug/kg	225	50		04/05/13 22:42	75-01-4	3d,D4
Xylene (Total)	**284000**	ug/kg	9000	1000		04/05/13 23:16	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	98	%.	85-118	50		04/05/13 22:42	1868-53-7	
Toluene-d8 (S)	143	%.	71-128	50		04/05/13 22:42	2037-26-5	S5
4-Bromofluorobenzene (S)	126	%.	56-144	50		04/05/13 22:42	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**17.5**	%	0.10	1		04/03/13 08:06		

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ANALYTICAL RESULTS

Project: Former Carpenter Mfg.
Pace Project No.: 5078079

Sample: Field Dup 10-12' **Lab ID: 5078079009** Collected: 03/27/13 09:35 Received: 03/27/13 16:16 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	69.9	1		04/06/13 02:37	67-64-1	
Acrolein	ND	ug/kg	69.9	1		04/06/13 02:37	107-02-8	
Acrylonitrile	ND	ug/kg	69.9	1		04/06/13 02:37	107-13-1	
Benzene	ND	ug/kg	3.5	1		04/06/13 02:37	71-43-2	
Bromobenzene	ND	ug/kg	3.5	1		04/06/13 02:37	108-86-1	
Bromochloromethane	ND	ug/kg	3.5	1		04/06/13 02:37	74-97-5	
Bromodichloromethane	ND	ug/kg	3.5	1		04/06/13 02:37	75-27-4	
Bromoform	ND	ug/kg	3.5	1		04/06/13 02:37	75-25-2	
Bromomethane	ND	ug/kg	3.5	1		04/06/13 02:37	74-83-9	
2-Butanone (MEK)	ND	ug/kg	17.5	1		04/06/13 02:37	78-93-3	
n-Butylbenzene	ND	ug/kg	3.5	1		04/06/13 02:37	104-51-8	
sec-Butylbenzene	ND	ug/kg	3.5	1		04/06/13 02:37	135-98-8	
tert-Butylbenzene	ND	ug/kg	3.5	1		04/06/13 02:37	98-06-6	
Carbon disulfide	ND	ug/kg	7.0	1		04/06/13 02:37	75-15-0	
Carbon tetrachloride	ND	ug/kg	3.5	1		04/06/13 02:37	56-23-5	
Chlorobenzene	ND	ug/kg	3.5	1		04/06/13 02:37	108-90-7	
Chloroethane	ND	ug/kg	3.5	1		04/06/13 02:37	75-00-3	
Chloroform	ND	ug/kg	3.5	1		04/06/13 02:37	67-66-3	
Chloromethane	ND	ug/kg	3.5	1		04/06/13 02:37	74-87-3	
2-Chlorotoluene	ND	ug/kg	3.5	1		04/06/13 02:37	95-49-8	
4-Chlorotoluene	ND	ug/kg	3.5	1		04/06/13 02:37	106-43-4	
Dibromochloromethane	ND	ug/kg	3.5	1		04/06/13 02:37	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	3.5	1		04/06/13 02:37	106-93-4	
Dibromomethane	ND	ug/kg	3.5	1		04/06/13 02:37	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	3.5	1		04/06/13 02:37	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	3.5	1		04/06/13 02:37	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	3.5	1		04/06/13 02:37	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	69.9	1		04/06/13 02:37	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	3.5	1		04/06/13 02:37	75-71-8	
1,1-Dichloroethane	ND	ug/kg	3.5	1		04/06/13 02:37	75-34-3	
1,2-Dichloroethane	ND	ug/kg	3.5	1		04/06/13 02:37	107-06-2	
1,1-Dichloroethene	ND	ug/kg	3.5	1		04/06/13 02:37	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	3.5	1		04/06/13 02:37	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	3.5	1		04/06/13 02:37	156-60-5	
1,2-Dichloropropane	ND	ug/kg	3.5	1		04/06/13 02:37	78-87-5	
1,3-Dichloropropane	ND	ug/kg	3.5	1		04/06/13 02:37	142-28-9	
2,2-Dichloropropane	ND	ug/kg	3.5	1		04/06/13 02:37	594-20-7	
1,1-Dichloropropene	ND	ug/kg	3.5	1		04/06/13 02:37	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	3.5	1		04/06/13 02:37	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	3.5	1		04/06/13 02:37	10061-02-6	
Ethylbenzene	ND	ug/kg	3.5	1		04/06/13 02:37	100-41-4	
Ethyl methacrylate	ND	ug/kg	69.9	1		04/06/13 02:37	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	3.5	1		04/06/13 02:37	87-68-3	
n-Hexane	ND	ug/kg	3.5	1		04/06/13 02:37	110-54-3	N2
2-Hexanone	ND	ug/kg	69.9	1		04/06/13 02:37	591-78-6	
Iodomethane	ND	ug/kg	69.9	1		04/06/13 02:37	74-88-4	

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ANALYTICAL RESULTS

Project: Former Carpenter Mfg.
Pace Project No.: 5078079

Sample: Field Dup 10-12' **Lab ID: 5078079009** Collected: 03/27/13 09:35 Received: 03/27/13 16:16 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Isopropylbenzene (Cumene)	ND	ug/kg	3.5	1		04/06/13 02:37	98-82-8	
p-Isopropyltoluene	ND	ug/kg	3.5	1		04/06/13 02:37	99-87-6	
Methylene Chloride	ND	ug/kg	14.0	1		04/06/13 02:37	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	17.5	1		04/06/13 02:37	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	3.5	1		04/06/13 02:37	1634-04-4	
Naphthalene	ND	ug/kg	3.5	1		04/06/13 02:37	91-20-3	
n-Propylbenzene	ND	ug/kg	3.5	1		04/06/13 02:37	103-65-1	
Styrene	ND	ug/kg	3.5	1		04/06/13 02:37	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	3.5	1		04/06/13 02:37	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	3.5	1		04/06/13 02:37	79-34-5	
Tetrachloroethene	ND	ug/kg	3.5	1		04/06/13 02:37	127-18-4	
Toluene	ND	ug/kg	3.5	1		04/06/13 02:37	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	3.5	1		04/06/13 02:37	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	3.5	1		04/06/13 02:37	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	3.5	1		04/06/13 02:37	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	3.5	1		04/06/13 02:37	79-00-5	
Trichloroethene	ND	ug/kg	3.5	1		04/06/13 02:37	79-01-6	
Trichlorofluoromethane	ND	ug/kg	3.5	1		04/06/13 02:37	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	3.5	1		04/06/13 02:37	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	3.5	1		04/06/13 02:37	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	3.5	1		04/06/13 02:37	108-67-8	
Vinyl acetate	ND	ug/kg	69.9	1		04/06/13 02:37	108-05-4	
Vinyl chloride	ND	ug/kg	3.5	1		04/06/13 02:37	75-01-4	
Xylene (Total)	ND	ug/kg	7.0	1		04/06/13 02:37	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	100	%.	85-118	1		04/06/13 02:37	1868-53-7	
Toluene-d8 (S)	106	%.	71-128	1		04/06/13 02:37	2037-26-5	
4-Bromofluorobenzene (S)	100	%.	56-144	1		04/06/13 02:37	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**11.3**	%	0.10	1		04/03/13 08:06		

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ANALYTICAL RESULTS

Project: Former Carpenter Mfg.
Pace Project No.: 5078079

Sample: Trip Blank **Lab ID: 5078079010** Collected: 03/27/13 08:00 Received: 03/27/13 16:16 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	100	1		04/06/13 02:03	67-64-1	
Acrolein	ND	ug/kg	100	1		04/06/13 02:03	107-02-8	
Acrylonitrile	ND	ug/kg	100	1		04/06/13 02:03	107-13-1	
Benzene	ND	ug/kg	5.0	1		04/06/13 02:03	71-43-2	
Bromobenzene	ND	ug/kg	5.0	1		04/06/13 02:03	108-86-1	
Bromochloromethane	ND	ug/kg	5.0	1		04/06/13 02:03	74-97-5	
Bromodichloromethane	ND	ug/kg	5.0	1		04/06/13 02:03	75-27-4	
Bromoform	ND	ug/kg	5.0	1		04/06/13 02:03	75-25-2	
Bromomethane	ND	ug/kg	5.0	1		04/06/13 02:03	74-83-9	
2-Butanone (MEK)	ND	ug/kg	25.0	1		04/06/13 02:03	78-93-3	
n-Butylbenzene	ND	ug/kg	5.0	1		04/06/13 02:03	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.0	1		04/06/13 02:03	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.0	1		04/06/13 02:03	98-06-6	
Carbon disulfide	ND	ug/kg	10.0	1		04/06/13 02:03	75-15-0	
Carbon tetrachloride	ND	ug/kg	5.0	1		04/06/13 02:03	56-23-5	
Chlorobenzene	ND	ug/kg	5.0	1		04/06/13 02:03	108-90-7	
Chloroethane	ND	ug/kg	5.0	1		04/06/13 02:03	75-00-3	
Chloroform	ND	ug/kg	5.0	1		04/06/13 02:03	67-66-3	
Chloromethane	ND	ug/kg	5.0	1		04/06/13 02:03	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.0	1		04/06/13 02:03	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.0	1		04/06/13 02:03	106-43-4	
Dibromochloromethane	ND	ug/kg	5.0	1		04/06/13 02:03	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.0	1		04/06/13 02:03	106-93-4	
Dibromomethane	ND	ug/kg	5.0	1		04/06/13 02:03	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.0	1		04/06/13 02:03	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.0	1		04/06/13 02:03	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.0	1		04/06/13 02:03	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	100	1		04/06/13 02:03	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	5.0	1		04/06/13 02:03	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.0	1		04/06/13 02:03	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.0	1		04/06/13 02:03	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.0	1		04/06/13 02:03	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.0	1		04/06/13 02:03	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.0	1		04/06/13 02:03	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.0	1		04/06/13 02:03	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.0	1		04/06/13 02:03	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.0	1		04/06/13 02:03	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.0	1		04/06/13 02:03	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.0	1		04/06/13 02:03	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.0	1		04/06/13 02:03	10061-02-6	
Ethylbenzene	ND	ug/kg	5.0	1		04/06/13 02:03	100-41-4	
Ethyl methacrylate	ND	ug/kg	100	1		04/06/13 02:03	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	5.0	1		04/06/13 02:03	87-68-3	
n-Hexane	ND	ug/kg	5.0	1		04/06/13 02:03	110-54-3	N2
2-Hexanone	ND	ug/kg	100	1		04/06/13 02:03	591-78-6	
Iodomethane	ND	ug/kg	100	1		04/06/13 02:03	74-88-4	

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ANALYTICAL RESULTS

Project: Former Carpenter Mfg.
Pace Project No.: 5078079

Sample: Trip Blank **Lab ID: 5078079010** Collected: 03/27/13 08:00 Received: 03/27/13 16:16 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Isopropylbenzene (Cumene)	ND	ug/kg	5.0	1		04/06/13 02:03	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.0	1		04/06/13 02:03	99-87-6	
Methylene Chloride	ND	ug/kg	20.0	1		04/06/13 02:03	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	25.0	1		04/06/13 02:03	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.0	1		04/06/13 02:03	1634-04-4	
Naphthalene	ND	ug/kg	5.0	1		04/06/13 02:03	91-20-3	
n-Propylbenzene	ND	ug/kg	5.0	1		04/06/13 02:03	103-65-1	
Styrene	ND	ug/kg	5.0	1		04/06/13 02:03	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.0	1		04/06/13 02:03	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.0	1		04/06/13 02:03	79-34-5	
Tetrachloroethene	ND	ug/kg	5.0	1		04/06/13 02:03	127-18-4	
Toluene	ND	ug/kg	5.0	1		04/06/13 02:03	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.0	1		04/06/13 02:03	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.0	1		04/06/13 02:03	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.0	1		04/06/13 02:03	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.0	1		04/06/13 02:03	79-00-5	
Trichloroethene	ND	ug/kg	5.0	1		04/06/13 02:03	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.0	1		04/06/13 02:03	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.0	1		04/06/13 02:03	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.0	1		04/06/13 02:03	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.0	1		04/06/13 02:03	108-67-8	
Vinyl acetate	ND	ug/kg	100	1		04/06/13 02:03	108-05-4	
Vinyl chloride	ND	ug/kg	5.0	1		04/06/13 02:03	75-01-4	
Xylene (Total)	ND	ug/kg	10.0	1		04/06/13 02:03	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	94	%.	85-118	1		04/06/13 02:03	1868-53-7	
Toluene-d8 (S)	109	%.	71-128	1		04/06/13 02:03	2037-26-5	
4-Bromofluorobenzene (S)	98	%.	56-144	1		04/06/13 02:03	460-00-4	

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QUALITY CONTROL DATA

Project: Former Carpenter Mfg.
Pace Project No.: 5078079

QC Batch: MSV/51895 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 5078079001, 5078079002, 5078079004, 5078079005, 5078079007, 5078079008

METHOD BLANK: 896352 Matrix: Solid
Associated Lab Samples: 5078079001, 5078079002, 5078079004, 5078079005, 5078079007, 5078079008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.0	04/05/13 15:02	
1,1,1-Trichloroethane	ug/kg	ND	5.0	04/05/13 15:02	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	04/05/13 15:02	
1,1,2-Trichloroethane	ug/kg	ND	5.0	04/05/13 15:02	
1,1-Dichloroethane	ug/kg	ND	5.0	04/05/13 15:02	
1,1-Dichloroethene	ug/kg	ND	5.0	04/05/13 15:02	
1,1-Dichloropropene	ug/kg	ND	5.0	04/05/13 15:02	
1,2,3-Trichlorobenzene	ug/kg	ND	5.0	04/05/13 15:02	
1,2,3-Trichloropropane	ug/kg	ND	5.0	04/05/13 15:02	
1,2,4-Trichlorobenzene	ug/kg	ND	5.0	04/05/13 15:02	
1,2,4-Trimethylbenzene	ug/kg	ND	5.0	04/05/13 15:02	
1,2-Dibromoethane (EDB)	ug/kg	ND	5.0	04/05/13 15:02	
1,2-Dichlorobenzene	ug/kg	ND	5.0	04/05/13 15:02	
1,2-Dichloroethane	ug/kg	ND	5.0	04/05/13 15:02	
1,2-Dichloropropane	ug/kg	ND	5.0	04/05/13 15:02	
1,3,5-Trimethylbenzene	ug/kg	ND	5.0	04/05/13 15:02	
1,3-Dichlorobenzene	ug/kg	ND	5.0	04/05/13 15:02	
1,3-Dichloropropane	ug/kg	ND	5.0	04/05/13 15:02	
1,4-Dichlorobenzene	ug/kg	ND	5.0	04/05/13 15:02	
2,2-Dichloropropane	ug/kg	ND	5.0	04/05/13 15:02	
2-Butanone (MEK)	ug/kg	ND	25.0	04/05/13 15:02	
2-Chlorotoluene	ug/kg	ND	5.0	04/05/13 15:02	
2-Hexanone	ug/kg	ND	100	04/05/13 15:02	
4-Chlorotoluene	ug/kg	ND	5.0	04/05/13 15:02	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	25.0	04/05/13 15:02	
Acetone	ug/kg	ND	100	04/05/13 15:02	
Acrolein	ug/kg	ND	100	04/05/13 15:02	
Acrylonitrile	ug/kg	ND	100	04/05/13 15:02	
Benzene	ug/kg	ND	5.0	04/05/13 15:02	
Bromobenzene	ug/kg	ND	5.0	04/05/13 15:02	
Bromochloromethane	ug/kg	ND	5.0	04/05/13 15:02	
Bromodichloromethane	ug/kg	ND	5.0	04/05/13 15:02	
Bromoform	ug/kg	ND	5.0	04/05/13 15:02	
Bromomethane	ug/kg	ND	5.0	04/05/13 15:02	
Carbon disulfide	ug/kg	ND	10.0	04/05/13 15:02	
Carbon tetrachloride	ug/kg	ND	5.0	04/05/13 15:02	
Chlorobenzene	ug/kg	ND	5.0	04/05/13 15:02	
Chloroethane	ug/kg	ND	5.0	04/05/13 15:02	
Chloroform	ug/kg	ND	5.0	04/05/13 15:02	
Chloromethane	ug/kg	ND	5.0	04/05/13 15:02	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	04/05/13 15:02	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	04/05/13 15:02	
Dibromochloromethane	ug/kg	ND	5.0	04/05/13 15:02	

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QUALITY CONTROL DATA

Project: Former Carpenter Mfg.
Pace Project No.: 5078079

METHOD BLANK: 896352 Matrix: Solid

Associated Lab Samples: 5078079001, 5078079002, 5078079004, 5078079005, 5078079007, 5078079008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/kg	ND	5.0	04/05/13 15:02	
Dichlorodifluoromethane	ug/kg	ND	5.0	04/05/13 15:02	
Ethyl methacrylate	ug/kg	ND	100	04/05/13 15:02	
Ethylbenzene	ug/kg	ND	5.0	04/05/13 15:02	
Hexachloro-1,3-butadiene	ug/kg	ND	5.0	04/05/13 15:02	
Iodomethane	ug/kg	ND	100	04/05/13 15:02	
Isopropylbenzene (Cumene)	ug/kg	ND	5.0	04/05/13 15:02	
Methyl-tert-butyl ether	ug/kg	ND	5.0	04/05/13 15:02	
Methylene Chloride	ug/kg	ND	20.0	04/05/13 15:02	
n-Butylbenzene	ug/kg	ND	5.0	04/05/13 15:02	
n-Hexane	ug/kg	ND	5.0	04/05/13 15:02	N2
n-Propylbenzene	ug/kg	ND	5.0	04/05/13 15:02	
Naphthalene	ug/kg	ND	5.0	04/05/13 15:02	
p-Isopropyltoluene	ug/kg	ND	5.0	04/05/13 15:02	
sec-Butylbenzene	ug/kg	ND	5.0	04/05/13 15:02	
Styrene	ug/kg	ND	5.0	04/05/13 15:02	
tert-Butylbenzene	ug/kg	ND	5.0	04/05/13 15:02	
Tetrachloroethene	ug/kg	ND	5.0	04/05/13 15:02	
Toluene	ug/kg	ND	5.0	04/05/13 15:02	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	04/05/13 15:02	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	04/05/13 15:02	
trans-1,4-Dichloro-2-butene	ug/kg	ND	100	04/05/13 15:02	
Trichloroethene	ug/kg	ND	5.0	04/05/13 15:02	
Trichlorofluoromethane	ug/kg	ND	5.0	04/05/13 15:02	
Vinyl acetate	ug/kg	ND	100	04/05/13 15:02	
Vinyl chloride	ug/kg	ND	5.0	04/05/13 15:02	
Xylene (Total)	ug/kg	ND	10.0	04/05/13 15:02	
4-Bromofluorobenzene (S)	%.	103	56-144	04/05/13 15:02	
Dibromofluoromethane (S)	%.	109	85-118	04/05/13 15:02	
Toluene-d8 (S)	%.	101	71-128	04/05/13 15:02	

LABORATORY CONTROL SAMPLE: 896353

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	50	50.3	101	62-123	
1,1,1-Trichloroethane	ug/kg	50	49.8	100	70-123	
1,1,2,2-Tetrachloroethane	ug/kg	50	44.8	90	65-124	
1,1,2-Trichloroethane	ug/kg	50	47.6	95	74-129	
1,1-Dichloroethane	ug/kg	50	48.4	97	73-130	
1,1-Dichloroethene	ug/kg	50	48.4	97	66-126	
1,1-Dichloropropene	ug/kg	50	49.9	100	78-125	
1,2,3-Trichlorobenzene	ug/kg	50	53.3	107	66-131	
1,2,3-Trichloropropane	ug/kg	50	51.0	102	44-157	
1,2,4-Trichlorobenzene	ug/kg	50	51.4	103	68-129	
1,2,4-Trimethylbenzene	ug/kg	50	50.3	101	67-126	

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QUALITY CONTROL DATA

Project: Former Carpenter Mfg.
Pace Project No.: 5078079

LABORATORY CONTROL SAMPLE: 896353

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromoethane (EDB)	ug/kg	50	49.8	100	74-120	
1,2-Dichlorobenzene	ug/kg	50	48.0	96	73-122	
1,2-Dichloroethane	ug/kg	50	56.7	113	73-127	
1,2-Dichloropropane	ug/kg	50	48.2	96	75-118	
1,3,5-Trimethylbenzene	ug/kg	50	49.8	100	65-127	
1,3-Dichlorobenzene	ug/kg	50	47.3	95	73-121	
1,3-Dichloropropane	ug/kg	50	48.5	97	72-121	
1,4-Dichlorobenzene	ug/kg	50	46.4	93	75-119	
2,2-Dichloropropane	ug/kg	50	52.5	105	63-122	
2-Butanone (MEK)	ug/kg	250	267	107	59-139	
2-Chlorotoluene	ug/kg	50	49.1	98	72-121	
2-Hexanone	ug/kg	250	239	96	56-139	
4-Chlorotoluene	ug/kg	50	46.9	94	75-123	
4-Methyl-2-pentanone (MIBK)	ug/kg	250	246	98	63-136	
Acetone	ug/kg	250	320	128	46-156	
Acrolein	ug/kg	1000	1350	135	47-200	
Acrylonitrile	ug/kg	1000	1070	107	67-130	
Benzene	ug/kg	50	48.0	96	74-119	
Bromobenzene	ug/kg	50	50.5	101	69-129	
Bromochloromethane	ug/kg	50	53.9	108	67-129	
Bromodichloromethane	ug/kg	50	46.6	93	68-121	
Bromoform	ug/kg	50	37.6	75	49-124	
Bromomethane	ug/kg	50	39.4	79	44-142	
Carbon disulfide	ug/kg	100	98.4	98	61-129	
Carbon tetrachloride	ug/kg	50	46.4	93	58-127	
Chlorobenzene	ug/kg	50	46.6	93	77-122	
Chloroethane	ug/kg	50	56.7	113	59-141	
Chloroform	ug/kg	50	51.5	103	75-124	
Chloromethane	ug/kg	50	50.6	101	46-133	
cis-1,2-Dichloroethene	ug/kg	50	47.4	95	72-122	
cis-1,3-Dichloropropene	ug/kg	50	46.0	92	68-115	
Dibromochloromethane	ug/kg	50	43.6	87	60-121	
Dibromomethane	ug/kg	50	49.7	99	72-124	
Dichlorodifluoromethane	ug/kg	50	55.1	110	26-186	
Ethyl methacrylate	ug/kg	200	183	92	63-130	
Ethylbenzene	ug/kg	50	49.6	99	72-123	
Hexachloro-1,3-butadiene	ug/kg	50	50.2	100	55-139	
Iodomethane	ug/kg	100	66.6J	67	38-149	
Isopropylbenzene (Cumene)	ug/kg	50	49.4	99	65-123	
Methyl-tert-butyl ether	ug/kg	100	113	113	68-120	
Methylene Chloride	ug/kg	50	54.6	109	57-142	
n-Butylbenzene	ug/kg	50	49.9	100	68-125	
n-Hexane	ug/kg	50	46.8	94	57-117	N2
n-Propylbenzene	ug/kg	50	49.5	99	68-122	
Naphthalene	ug/kg	50	44.3	89	67-131	
p-Isopropyltoluene	ug/kg	50	50.0	100	66-133	
sec-Butylbenzene	ug/kg	50	51.3	103	64-131	
Styrene	ug/kg	50	50.8	102	70-126	

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QUALITY CONTROL DATA

Project: Former Carpenter Mfg.
Pace Project No.: 5078079

LABORATORY CONTROL SAMPLE: 896353

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butylbenzene	ug/kg	50	49.6	99	46-124	
Tetrachloroethene	ug/kg	50	45.0	90	72-126	
Toluene	ug/kg	50	45.4	91	71-121	
trans-1,2-Dichloroethene	ug/kg	50	51.8	104	69-123	
trans-1,3-Dichloropropene	ug/kg	50	46.1	92	66-114	
trans-1,4-Dichloro-2-butene	ug/kg	200	221	110	61-124	
Trichloroethene	ug/kg	50	51.2	102	74-123	
Trichlorofluoromethane	ug/kg	50	54.6	109	72-146	
Vinyl acetate	ug/kg	200	244	122	70-130	
Vinyl chloride	ug/kg	50	50.6	101	55-128	
Xylene (Total)	ug/kg	150	145	97	66-124	
4-Bromofluorobenzene (S)	%.			101	56-144	
Dibromofluoromethane (S)	%.			107	85-118	
Toluene-d8 (S)	%.			101	71-128	

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QUALITY CONTROL DATA

Project: Former Carpenter Mfg.
Pace Project No.: 5078079

QC Batch: MSV/51896
Analysis Method: EPA 8260
QC Batch Method: EPA 8260
Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 5078079009, 5078079010

METHOD BLANK: 896356
Matrix: Solid
Associated Lab Samples: 5078079009, 5078079010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.0	04/06/13 01:30	
1,1,1-Trichloroethane	ug/kg	ND	5.0	04/06/13 01:30	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	04/06/13 01:30	
1,1,2-Trichloroethane	ug/kg	ND	5.0	04/06/13 01:30	
1,1-Dichloroethane	ug/kg	ND	5.0	04/06/13 01:30	
1,1-Dichloroethene	ug/kg	ND	5.0	04/06/13 01:30	
1,1-Dichloropropene	ug/kg	ND	5.0	04/06/13 01:30	
1,2,3-Trichlorobenzene	ug/kg	ND	5.0	04/06/13 01:30	
1,2,3-Trichloropropane	ug/kg	ND	5.0	04/06/13 01:30	
1,2,4-Trichlorobenzene	ug/kg	ND	5.0	04/06/13 01:30	
1,2,4-Trimethylbenzene	ug/kg	ND	5.0	04/06/13 01:30	
1,2-Dibromoethane (EDB)	ug/kg	ND	5.0	04/06/13 01:30	
1,2-Dichlorobenzene	ug/kg	ND	5.0	04/06/13 01:30	
1,2-Dichloroethane	ug/kg	ND	5.0	04/06/13 01:30	
1,2-Dichloropropane	ug/kg	ND	5.0	04/06/13 01:30	
1,3,5-Trimethylbenzene	ug/kg	ND	5.0	04/06/13 01:30	
1,3-Dichlorobenzene	ug/kg	ND	5.0	04/06/13 01:30	
1,3-Dichloropropane	ug/kg	ND	5.0	04/06/13 01:30	
1,4-Dichlorobenzene	ug/kg	ND	5.0	04/06/13 01:30	
2,2-Dichloropropane	ug/kg	ND	5.0	04/06/13 01:30	
2-Butanone (MEK)	ug/kg	ND	25.0	04/06/13 01:30	
2-Chlorotoluene	ug/kg	ND	5.0	04/06/13 01:30	
2-Hexanone	ug/kg	ND	100	04/06/13 01:30	
4-Chlorotoluene	ug/kg	ND	5.0	04/06/13 01:30	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	25.0	04/06/13 01:30	
Acetone	ug/kg	ND	100	04/06/13 01:30	
Acrolein	ug/kg	ND	100	04/06/13 01:30	
Acrylonitrile	ug/kg	ND	100	04/06/13 01:30	
Benzene	ug/kg	ND	5.0	04/06/13 01:30	
Bromobenzene	ug/kg	ND	5.0	04/06/13 01:30	
Bromochloromethane	ug/kg	ND	5.0	04/06/13 01:30	
Bromodichloromethane	ug/kg	ND	5.0	04/06/13 01:30	
Bromoform	ug/kg	ND	5.0	04/06/13 01:30	
Bromomethane	ug/kg	ND	5.0	04/06/13 01:30	
Carbon disulfide	ug/kg	ND	10.0	04/06/13 01:30	
Carbon tetrachloride	ug/kg	ND	5.0	04/06/13 01:30	
Chlorobenzene	ug/kg	ND	5.0	04/06/13 01:30	
Chloroethane	ug/kg	ND	5.0	04/06/13 01:30	
Chloroform	ug/kg	ND	5.0	04/06/13 01:30	
Chloromethane	ug/kg	ND	5.0	04/06/13 01:30	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	04/06/13 01:30	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	04/06/13 01:30	
Dibromochloromethane	ug/kg	ND	5.0	04/06/13 01:30	

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QUALITY CONTROL DATA

Project: Former Carpenter Mfg.
Pace Project No.: 5078079

METHOD BLANK: 896356 Matrix: Solid

Associated Lab Samples: 5078079009, 5078079010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/kg	ND	5.0	04/06/13 01:30	
Dichlorodifluoromethane	ug/kg	ND	5.0	04/06/13 01:30	
Ethyl methacrylate	ug/kg	ND	100	04/06/13 01:30	
Ethylbenzene	ug/kg	ND	5.0	04/06/13 01:30	
Hexachloro-1,3-butadiene	ug/kg	ND	5.0	04/06/13 01:30	
Iodomethane	ug/kg	ND	100	04/06/13 01:30	
Isopropylbenzene (Cumene)	ug/kg	ND	5.0	04/06/13 01:30	
Methyl-tert-butyl ether	ug/kg	ND	5.0	04/06/13 01:30	
Methylene Chloride	ug/kg	ND	20.0	04/06/13 01:30	
n-Butylbenzene	ug/kg	ND	5.0	04/06/13 01:30	
n-Hexane	ug/kg	ND	5.0	04/06/13 01:30	N2
n-Propylbenzene	ug/kg	ND	5.0	04/06/13 01:30	
Naphthalene	ug/kg	ND	5.0	04/06/13 01:30	
p-Isopropyltoluene	ug/kg	ND	5.0	04/06/13 01:30	
sec-Butylbenzene	ug/kg	ND	5.0	04/06/13 01:30	
Styrene	ug/kg	ND	5.0	04/06/13 01:30	
tert-Butylbenzene	ug/kg	ND	5.0	04/06/13 01:30	
Tetrachloroethene	ug/kg	ND	5.0	04/06/13 01:30	
Toluene	ug/kg	ND	5.0	04/06/13 01:30	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	04/06/13 01:30	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	04/06/13 01:30	
trans-1,4-Dichloro-2-butene	ug/kg	ND	100	04/06/13 01:30	
Trichloroethene	ug/kg	ND	5.0	04/06/13 01:30	
Trichlorofluoromethane	ug/kg	ND	5.0	04/06/13 01:30	
Vinyl acetate	ug/kg	ND	100	04/06/13 01:30	
Vinyl chloride	ug/kg	ND	5.0	04/06/13 01:30	
Xylene (Total)	ug/kg	ND	10.0	04/06/13 01:30	
4-Bromofluorobenzene (S)	%.	99	56-144	04/06/13 01:30	
Dibromofluoromethane (S)	%.	93	85-118	04/06/13 01:30	
Toluene-d8 (S)	%.	110	71-128	04/06/13 01:30	

LABORATORY CONTROL SAMPLE: 896357

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	50	41.6	83	62-123	
1,1,1-Trichloroethane	ug/kg	50	37.5	75	70-123	
1,1,2,2-Tetrachloroethane	ug/kg	50	49.8	100	65-124	
1,1,2-Trichloroethane	ug/kg	50	51.4	103	74-129	
1,1-Dichloroethane	ug/kg	50	45.9	92	73-130	
1,1-Dichloroethene	ug/kg	50	34.0	68	66-126	
1,1-Dichloropropene	ug/kg	50	43.5	87	78-125	
1,2,3-Trichlorobenzene	ug/kg	50	40.8	82	66-131	
1,2,3-Trichloropropane	ug/kg	50	52.1	104	44-157	
1,2,4-Trichlorobenzene	ug/kg	50	37.5	75	68-129	
1,2,4-Trimethylbenzene	ug/kg	50	41.2	82	67-126	

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QUALITY CONTROL DATA

Project: Former Carpenter Mfg.
Pace Project No.: 5078079

LABORATORY CONTROL SAMPLE: 896357

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromoethane (EDB)	ug/kg	50	50.7	101	74-120	
1,2-Dichlorobenzene	ug/kg	50	40.9	82	73-122	
1,2-Dichloroethane	ug/kg	50	42.0	84	73-127	
1,2-Dichloropropane	ug/kg	50	48.0	96	75-118	
1,3,5-Trimethylbenzene	ug/kg	50	40.8	82	65-127	
1,3-Dichlorobenzene	ug/kg	50	38.6	77	73-121	
1,3-Dichloropropane	ug/kg	50	49.8	100	72-121	
1,4-Dichlorobenzene	ug/kg	50	37.9	76	75-119	
2,2-Dichloropropane	ug/kg	50	43.3	87	63-122	
2-Butanone (MEK)	ug/kg	250	287	115	59-139	
2-Chlorotoluene	ug/kg	50	41.9	84	72-121	
2-Hexanone	ug/kg	250	280	112	56-139	
4-Chlorotoluene	ug/kg	50	38.9	78	75-123	
4-Methyl-2-pentanone (MIBK)	ug/kg	250	297	119	63-136	
Acetone	ug/kg	250	194	78	46-156	
Acrolein	ug/kg	1000	1100	110	47-200	
Acrylonitrile	ug/kg	1000	830	83	67-130	
Benzene	ug/kg	50	46.1	92	74-119	
Bromobenzene	ug/kg	50	40.8	82	69-129	
Bromochloromethane	ug/kg	50	54.2	108	67-129	
Bromodichloromethane	ug/kg	50	36.9	74	68-121	
Bromoform	ug/kg	50	34.0	68	49-124	
Bromomethane	ug/kg	50	29.5	59	44-142	
Carbon disulfide	ug/kg	100	67.7	68	61-129	
Carbon tetrachloride	ug/kg	50	31.3	63	58-127	
Chlorobenzene	ug/kg	50	40.2	80	77-122	
Chloroethane	ug/kg	50	40.2	80	59-141	
Chloroform	ug/kg	50	42.4	85	75-124	
Chloromethane	ug/kg	50	39.2	78	46-133	
cis-1,2-Dichloroethene	ug/kg	50	45.4	91	72-122	
cis-1,3-Dichloropropene	ug/kg	50	45.1	90	68-115	
Dibromochloromethane	ug/kg	50	37.9	76	60-121	
Dibromomethane	ug/kg	50	44.4	89	72-124	
Dichlorodifluoromethane	ug/kg	50	41.3	83	26-186	
Ethyl methacrylate	ug/kg	200	199	100	63-130	
Ethylbenzene	ug/kg	50	41.5	83	72-123	
Hexachloro-1,3-butadiene	ug/kg	50	28.5	57	55-139	
Iodomethane	ug/kg	100	53.2J	53	38-149	
Isopropylbenzene (Cumene)	ug/kg	50	38.6	77	65-123	
Methyl-tert-butyl ether	ug/kg	100	80.0	80	68-120	
Methylene Chloride	ug/kg	50	39.1	78	57-142	
n-Butylbenzene	ug/kg	50	35.8	72	68-125	
n-Hexane	ug/kg	50	37.8	76	57-117	N2
n-Propylbenzene	ug/kg	50	41.0	82	68-122	
Naphthalene	ug/kg	50	41.1	82	67-131	
p-Isopropyltoluene	ug/kg	50	38.9	78	66-133	
sec-Butylbenzene	ug/kg	50	41.6	83	64-131	
Styrene	ug/kg	50	43.3	87	70-126	

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QUALITY CONTROL DATA

Project: Former Carpenter Mfg.
Pace Project No.: 5078079

LABORATORY CONTROL SAMPLE: 896357

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butylbenzene	ug/kg	50	40.6	81	46-124	
Tetrachloroethene	ug/kg	50	37.2	74	72-126	
Toluene	ug/kg	50	43.9	88	71-121	
trans-1,2-Dichloroethene	ug/kg	50	34.9	70	69-123	
trans-1,3-Dichloropropene	ug/kg	50	43.7	87	66-114	
trans-1,4-Dichloro-2-butene	ug/kg	200	192	96	61-124	
Trichloroethene	ug/kg	50	42.8	86	74-123	
Trichlorofluoromethane	ug/kg	50	35.6	71	72-146	L0
Vinyl acetate	ug/kg	200	258	129	70-130	
Vinyl chloride	ug/kg	50	39.2	78	55-128	
Xylene (Total)	ug/kg	150	121	81	66-124	
4-Bromofluorobenzene (S)	%.			96	56-144	
Dibromofluoromethane (S)	%.			93	85-118	
Toluene-d8 (S)	%.			109	71-128	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 896358 896359

Parameter	Units	5078165002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/kg	ND	56.8	66	52.0	60.5	92	92	10-129	15	20	
1,1,1-Trichloroethane	ug/kg	ND	56.8	66	54.2	61.9	96	94	26-143	13	20	
1,1,2,2-Tetrachloroethane	ug/kg	ND	56.8	66	45.2	51.8	80	78	10-156	14	20	
1,1,2-Trichloroethane	ug/kg	ND	56.8	66	50.9	56.8	90	86	13-156	11	20	
1,1-Dichloroethane	ug/kg	ND	56.8	66	52.4	57.7	92	87	36-150	10	20	
1,1-Dichloroethene	ug/kg	ND	56.8	66	48.3	56.5	85	86	31-146	16	20	
1,1-Dichloropropene	ug/kg	ND	56.8	66	52.4	59.4	92	90	26-145	13	20	
1,2,3-Trichlorobenzene	ug/kg	ND	56.8	66	40.7	49.5	72	75	10-119	20	20	
1,2,3-Trichloropropane	ug/kg	ND	56.8	66	51.9	56.3	91	85	10-168	8	20	
1,2,4-Trichlorobenzene	ug/kg	ND	56.8	66	35.3	44.3	62	67	10-122	22	20	R1
1,2,4-Trimethylbenzene	ug/kg	ND	56.8	66	43.0	51.0	76	77	10-139	17	20	
1,2-Dibromoethane (EDB)	ug/kg	ND	56.8	66	53.8	59.4	95	90	15-136	10	20	
1,2-Dichlorobenzene	ug/kg	ND	56.8	66	42.5	50.5	75	77	10-132	17	20	
1,2-Dichloroethane	ug/kg	ND	56.8	66	66.3	72.6	117	110	30-140	9	20	
1,2-Dichloropropane	ug/kg	ND	56.8	66	52.3	57.6	92	87	29-135	10	20	
1,3,5-Trimethylbenzene	ug/kg	ND	56.8	66	41.7	50.7	74	77	10-143	19	20	
1,3-Dichlorobenzene	ug/kg	ND	56.8	66	39.6	46.8	70	71	10-130	17	20	
1,3-Dichloropropane	ug/kg	ND	56.8	66	53.5	59.2	94	90	17-139	10	20	
1,4-Dichlorobenzene	ug/kg	ND	56.8	66	38.1	45.5	67	69	10-128	18	20	
2,2-Dichloropropane	ug/kg	ND	56.8	66	55.6	65.3	98	99	29-136	16	20	
2-Butanone (MEK)	ug/kg	ND	284	330	273	294	96	89	22-176	7	20	
2-Chlorotoluene	ug/kg	ND	56.8	66	42.3	50.1	75	76	10-146	17	20	
2-Hexanone	ug/kg	ND	284	330	273	300	96	91	12-165	10	20	
4-Chlorotoluene	ug/kg	ND	56.8	66	39.1	47.4	69	72	10-138	19	20	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	284	330	280	316	99	96	22-155	12	20	
Acetone	ug/kg	ND	284	330	306	339	108	103	11-200	10	20	
Acrolein	ug/kg	ND	1140	1320	143	153	13	12	10-200	7	20	
Acrylonitrile	ug/kg	ND	1140	1320	1030	1100	91	83	20-150	6	20	

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QUALITY CONTROL DATA

Project: Former Carpenter Mfg.
Pace Project No.: 5078079

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 896358 896359

Parameter	Units	5078165002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/kg	ND	56.8	66	50.4	56.6	89	86	27-140	12	20	
Bromobenzene	ug/kg	ND	56.8	66	49.9	57.5	88	87	10-133	14	20	
Bromochloromethane	ug/kg	ND	56.8	66	55.4	60.8	98	92	28-142	9	20	
Bromodichloromethane	ug/kg	ND	56.8	66	51.4	59.7	91	90	13-139	15	20	
Bromoform	ug/kg	ND	56.8	66	36.3	42.5	64	64	10-122	16	20	
Bromomethane	ug/kg	ND	56.8	66	42.4	50.7	75	77	10-154	18	20	
Carbon disulfide	ug/kg	ND	114	132	107	115	94	87	20-142	7	20	
Carbon tetrachloride	ug/kg	ND	56.8	66	45.5	55.3	80	84	19-135	19	20	
Chlorobenzene	ug/kg	ND	56.8	66	45.2	52.8	80	80	10-136	16	20	
Chloroethane	ug/kg	ND	56.8	66	57.9	62.9	102	95	24-161	8	20	
Chloroform	ug/kg	ND	56.8	66	57.9	64.7	102	98	36-138	11	20	
Chloromethane	ug/kg	ND	56.8	66	50.1	53.1	88	80	28-143	6	20	
cis-1,2-Dichloroethene	ug/kg	ND	56.8	66	49.6	54.2	87	82	29-136	9	20	
cis-1,3-Dichloropropene	ug/kg	ND	56.8	66	45.5	51.5	80	78	10-130	12	20	
Dibromochloromethane	ug/kg	ND	56.8	66	44.6	52.3	79	79	10-124	16	20	
Dibromomethane	ug/kg	ND	56.8	66	53.9	61.8	95	94	24-136	14	20	
Dichlorodifluoromethane	ug/kg	ND	56.8	66	57.4	68.1	101	103	15-187	17	20	
Ethyl methacrylate	ug/kg	ND	227	264	210	236	93	90	10-147	12	20	
Ethylbenzene	ug/kg	ND	56.8	66	47.4	55.2	83	83	10-144	15	20	
Hexachloro-1,3-butadiene	ug/kg	ND	56.8	66	33.1	40.6	58	62	10-136	20	20	
Iodomethane	ug/kg	ND	114	132	79J	90.2J	70	68	10-155		20	
Isopropylbenzene (Cumene)	ug/kg	ND	56.8	66	47.1	55.6	83	84	10-134	17	20	
Methyl-tert-butyl ether	ug/kg	ND	114	132	149	164	131	124	30-147	10	20	
Methylene Chloride	ug/kg	ND	56.8	66	58.7	61.5	103	93	23-150	5	20	
n-Butylbenzene	ug/kg	ND	56.8	66	36.0	44.8	63	68	10-141	22	20	R1
n-Hexane	ug/kg	ND	56.8	66	49.3	55.5	87	84	10-140	12	20	N2
n-Propylbenzene	ug/kg	ND	56.8	66	41.0	48.7	72	74	10-143	17	20	
Naphthalene	ug/kg	ND	56.8	66	40.0	47.7	71	72	10-130	17	20	
p-Isopropyltoluene	ug/kg	ND	56.8	66	40.3	48.6	71	74	10-146	19	20	
sec-Butylbenzene	ug/kg	ND	56.8	66	41.6	49.7	73	75	10-150	18	20	
Styrene	ug/kg	ND	56.8	66	49.4	56.7	87	86	10-138	14	20	
tert-Butylbenzene	ug/kg	ND	56.8	66	42.4	49.1	75	74	10-135	15	20	
Tetrachloroethene	ug/kg	ND	56.8	66	44.2	50.2	78	76	10-153	13	20	
Toluene	ug/kg	ND	56.8	66	45.4	51.5	80	78	10-140	13	20	
trans-1,2-Dichloroethene	ug/kg	ND	56.8	66	58.8	62.7	104	95	28-139	6	20	
trans-1,3-Dichloropropene	ug/kg	ND	56.8	66	47.7	55.2	84	84	10-126	15	20	
trans-1,4-Dichloro-2-butene	ug/kg	ND	227	264	209	239	92	91	10-132	13	20	
Trichloroethene	ug/kg	ND	56.8	66	52.8	60.3	93	91	17-148	13	20	
Trichlorofluoromethane	ug/kg	ND	56.8	66	58.4	68.6	103	104	31-177	16	20	
Vinyl acetate	ug/kg	ND	227	264	ND	ND	8	6	70-130		20	M0
Vinyl chloride	ug/kg	ND	56.8	66	51.9	55.3	91	84	30-145	6	20	
Xylene (Total)	ug/kg	ND	170	197	139	161	81	81	10-143	15	20	
4-Bromofluorobenzene (S)	%.						108	108	56-144		20	
Dibromofluoromethane (S)	%.						118	114	85-118		20	
Toluene-d8 (S)	%.						99	98	71-128		20	

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QUALITY CONTROL DATA

Project: Former Carpenter Mfg.
Pace Project No.: 5078079

QC Batch: MSV/51978
Analysis Method: EPA 8260
QC Batch Method: EPA 8260
Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 5078079003, 5078079006

METHOD BLANK: 897407
Matrix: Solid
Associated Lab Samples: 5078079003, 5078079006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.0	04/09/13 13:52	
1,1,1-Trichloroethane	ug/kg	ND	5.0	04/09/13 13:52	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	04/09/13 13:52	
1,1,2-Trichloroethane	ug/kg	ND	5.0	04/09/13 13:52	
1,1-Dichloroethane	ug/kg	ND	5.0	04/09/13 13:52	
1,1-Dichloroethene	ug/kg	ND	5.0	04/09/13 13:52	
1,1-Dichloropropene	ug/kg	ND	5.0	04/09/13 13:52	
1,2,3-Trichlorobenzene	ug/kg	ND	5.0	04/09/13 13:52	
1,2,3-Trichloropropane	ug/kg	ND	5.0	04/09/13 13:52	
1,2,4-Trichlorobenzene	ug/kg	ND	5.0	04/09/13 13:52	
1,2,4-Trimethylbenzene	ug/kg	ND	5.0	04/09/13 13:52	
1,2-Dibromoethane (EDB)	ug/kg	ND	5.0	04/09/13 13:52	
1,2-Dichlorobenzene	ug/kg	ND	5.0	04/09/13 13:52	
1,2-Dichloroethane	ug/kg	ND	5.0	04/09/13 13:52	
1,2-Dichloropropane	ug/kg	ND	5.0	04/09/13 13:52	
1,3,5-Trimethylbenzene	ug/kg	ND	5.0	04/09/13 13:52	
1,3-Dichlorobenzene	ug/kg	ND	5.0	04/09/13 13:52	
1,3-Dichloropropane	ug/kg	ND	5.0	04/09/13 13:52	
1,4-Dichlorobenzene	ug/kg	ND	5.0	04/09/13 13:52	
2,2-Dichloropropane	ug/kg	ND	5.0	04/09/13 13:52	
2-Butanone (MEK)	ug/kg	ND	25.0	04/09/13 13:52	
2-Chlorotoluene	ug/kg	ND	5.0	04/09/13 13:52	
2-Hexanone	ug/kg	ND	100	04/09/13 13:52	
4-Chlorotoluene	ug/kg	ND	5.0	04/09/13 13:52	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	25.0	04/09/13 13:52	
Acetone	ug/kg	ND	100	04/09/13 13:52	
Acrolein	ug/kg	ND	100	04/09/13 13:52	
Acrylonitrile	ug/kg	ND	100	04/09/13 13:52	
Benzene	ug/kg	ND	5.0	04/09/13 13:52	
Bromobenzene	ug/kg	ND	5.0	04/09/13 13:52	
Bromochloromethane	ug/kg	ND	5.0	04/09/13 13:52	
Bromodichloromethane	ug/kg	ND	5.0	04/09/13 13:52	
Bromoform	ug/kg	ND	5.0	04/09/13 13:52	
Bromomethane	ug/kg	ND	5.0	04/09/13 13:52	
Carbon disulfide	ug/kg	ND	10.0	04/09/13 13:52	
Carbon tetrachloride	ug/kg	ND	5.0	04/09/13 13:52	
Chlorobenzene	ug/kg	ND	5.0	04/09/13 13:52	
Chloroethane	ug/kg	ND	5.0	04/09/13 13:52	
Chloroform	ug/kg	ND	5.0	04/09/13 13:52	
Chloromethane	ug/kg	ND	5.0	04/09/13 13:52	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	04/09/13 13:52	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	04/09/13 13:52	
Dibromochloromethane	ug/kg	ND	5.0	04/09/13 13:52	

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QUALITY CONTROL DATA

Project: Former Carpenter Mfg.
Pace Project No.: 5078079

METHOD BLANK: 897407 Matrix: Solid

Associated Lab Samples: 5078079003, 5078079006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/kg	ND	5.0	04/09/13 13:52	
Dichlorodifluoromethane	ug/kg	ND	5.0	04/09/13 13:52	
Ethyl methacrylate	ug/kg	ND	100	04/09/13 13:52	
Ethylbenzene	ug/kg	ND	5.0	04/09/13 13:52	
Hexachloro-1,3-butadiene	ug/kg	ND	5.0	04/09/13 13:52	
Iodomethane	ug/kg	ND	100	04/09/13 13:52	
Isopropylbenzene (Cumene)	ug/kg	ND	5.0	04/09/13 13:52	
Methyl-tert-butyl ether	ug/kg	ND	5.0	04/09/13 13:52	
Methylene Chloride	ug/kg	ND	20.0	04/09/13 13:52	
n-Butylbenzene	ug/kg	ND	5.0	04/09/13 13:52	
n-Hexane	ug/kg	ND	5.0	04/09/13 13:52	N2
n-Propylbenzene	ug/kg	ND	5.0	04/09/13 13:52	
Naphthalene	ug/kg	ND	5.0	04/09/13 13:52	
p-Isopropyltoluene	ug/kg	ND	5.0	04/09/13 13:52	
sec-Butylbenzene	ug/kg	ND	5.0	04/09/13 13:52	
Styrene	ug/kg	ND	5.0	04/09/13 13:52	
tert-Butylbenzene	ug/kg	ND	5.0	04/09/13 13:52	
Tetrachloroethene	ug/kg	ND	5.0	04/09/13 13:52	
Toluene	ug/kg	ND	5.0	04/09/13 13:52	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	04/09/13 13:52	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	04/09/13 13:52	
trans-1,4-Dichloro-2-butene	ug/kg	ND	100	04/09/13 13:52	
Trichloroethene	ug/kg	ND	5.0	04/09/13 13:52	
Trichlorofluoromethane	ug/kg	ND	5.0	04/09/13 13:52	
Vinyl acetate	ug/kg	ND	100	04/09/13 13:52	
Vinyl chloride	ug/kg	ND	5.0	04/09/13 13:52	
Xylene (Total)	ug/kg	ND	10.0	04/09/13 13:52	
4-Bromofluorobenzene (S)	%.	103	56-144	04/09/13 13:52	
Dibromofluoromethane (S)	%.	103	85-118	04/09/13 13:52	
Toluene-d8 (S)	%.	99	71-128	04/09/13 13:52	

LABORATORY CONTROL SAMPLE: 897408

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	50	54.8	110	62-123	
1,1,1-Trichloroethane	ug/kg	50	52.0	104	70-123	
1,1,2,2-Tetrachloroethane	ug/kg	50	50.0	100	65-124	
1,1,2-Trichloroethane	ug/kg	50	54.2	108	74-129	
1,1-Dichloroethane	ug/kg	50	49.1	98	73-130	
1,1-Dichloroethene	ug/kg	50	46.3	93	66-126	
1,1-Dichloropropene	ug/kg	50	49.9	100	78-125	
1,2,3-Trichlorobenzene	ug/kg	50	56.2	112	66-131	
1,2,3-Trichloropropane	ug/kg	50	49.6	99	44-157	
1,2,4-Trichlorobenzene	ug/kg	50	58.1	116	68-129	
1,2,4-Trimethylbenzene	ug/kg	50	52.3	105	67-126	

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QUALITY CONTROL DATA

Project: Former Carpenter Mfg.
Pace Project No.: 5078079

LABORATORY CONTROL SAMPLE: 897408

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromoethane (EDB)	ug/kg	50	52.2	104	74-120	
1,2-Dichlorobenzene	ug/kg	50	49.9	100	73-122	
1,2-Dichloroethane	ug/kg	50	54.5	109	73-127	
1,2-Dichloropropane	ug/kg	50	48.8	98	75-118	
1,3,5-Trimethylbenzene	ug/kg	50	51.4	103	65-127	
1,3-Dichlorobenzene	ug/kg	50	49.5	99	73-121	
1,3-Dichloropropane	ug/kg	50	50.3	101	72-121	
1,4-Dichlorobenzene	ug/kg	50	52.0	104	75-119	
2,2-Dichloropropane	ug/kg	50	54.0	108	63-122	
2-Butanone (MEK)	ug/kg	250	253	101	59-139	
2-Chlorotoluene	ug/kg	50	50.8	102	72-121	
2-Hexanone	ug/kg	250	283	113	56-139	
4-Chlorotoluene	ug/kg	50	50.6	101	75-123	
4-Methyl-2-pentanone (MIBK)	ug/kg	250	276	110	63-136	
Acetone	ug/kg	250	295	118	46-156	
Acrolein	ug/kg	1000	1320	132	47-200	
Acrylonitrile	ug/kg	1000	943	94	67-130	
Benzene	ug/kg	50	47.6	95	74-119	
Bromobenzene	ug/kg	50	51.2	102	69-129	
Bromochloromethane	ug/kg	50	48.5	97	67-129	
Bromodichloromethane	ug/kg	50	56.4	113	68-121	
Bromoform	ug/kg	50	40.1	80	49-124	
Bromomethane	ug/kg	50	52.8	106	44-142	
Carbon disulfide	ug/kg	100	90.2	90	61-129	
Carbon tetrachloride	ug/kg	50	47.3	95	58-127	
Chlorobenzene	ug/kg	50	50.3	101	77-122	
Chloroethane	ug/kg	50	47.3	95	59-141	
Chloroform	ug/kg	50	53.0	106	75-124	
Chloromethane	ug/kg	50	48.2	96	46-133	
cis-1,2-Dichloroethene	ug/kg	50	47.6	95	72-122	
cis-1,3-Dichloropropene	ug/kg	50	49.1	98	68-115	
Dibromochloromethane	ug/kg	50	47.7	95	60-121	
Dibromomethane	ug/kg	50	51.3	103	72-124	
Dichlorodifluoromethane	ug/kg	50	46.0	92	26-186	
Ethyl methacrylate	ug/kg	200	197	98	63-130	
Ethylbenzene	ug/kg	50	52.1	104	72-123	
Hexachloro-1,3-butadiene	ug/kg	50	50.9	102	55-139	
Iodomethane	ug/kg	100	91.8J	92	38-149	
Isopropylbenzene (Cumene)	ug/kg	50	50.6	101	65-123	
Methyl-tert-butyl ether	ug/kg	100	95.7	96	68-120	
Methylene Chloride	ug/kg	50	45.5	91	57-142	
n-Butylbenzene	ug/kg	50	52.7	105	68-125	
n-Hexane	ug/kg	50	42.7	85	57-117	N2
n-Propylbenzene	ug/kg	50	51.2	102	68-122	
Naphthalene	ug/kg	50	54.1	108	67-131	
p-Isopropyltoluene	ug/kg	50	51.6	103	66-133	
sec-Butylbenzene	ug/kg	50	53.1	106	64-131	
Styrene	ug/kg	50	52.7	105	70-126	

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QUALITY CONTROL DATA

Project: Former Carpenter Mfg.
Pace Project No.: 5078079

LABORATORY CONTROL SAMPLE: 897408

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butylbenzene	ug/kg	50	50.7	101	46-124	
Tetrachloroethene	ug/kg	50	49.8	100	72-126	
Toluene	ug/kg	50	47.8	96	71-121	
trans-1,2-Dichloroethene	ug/kg	50	44.0	88	69-123	
trans-1,3-Dichloropropene	ug/kg	50	49.0	98	66-114	
trans-1,4-Dichloro-2-butene	ug/kg	200	219	109	61-124	
Trichloroethene	ug/kg	50	52.9	106	74-123	
Trichlorofluoromethane	ug/kg	50	51.5	103	72-146	
Vinyl acetate	ug/kg	200	247	124	70-130	
Vinyl chloride	ug/kg	50	47.8	96	55-128	
Xylene (Total)	ug/kg	150	152	101	66-124	
4-Bromofluorobenzene (S)	%.			99	56-144	
Dibromofluoromethane (S)	%.			102	85-118	
Toluene-d8 (S)	%.			98	71-128	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 897409 897410

Parameter	Units	5078079003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/kg	ND	33.8	40.4	33.6	38.3	99	95	10-129	13	20	
1,1,1-Trichloroethane	ug/kg	ND	33.8	40.4	33.6	41.0	99	101	26-143	20	20	
1,1,2,2-Tetrachloroethane	ug/kg	ND	33.8	40.4	29.2	35.2	86	87	10-156	19	20	
1,1,2-Trichloroethane	ug/kg	ND	33.8	40.4	33.3	38.3	99	95	13-156	14	20	
1,1-Dichloroethane	ug/kg	ND	33.8	40.4	34.7	40.6	102	100	36-150	16	20	
1,1-Dichloroethene	ug/kg	ND	33.8	40.4	31.3	37.4	93	93	31-146	18	20	
1,1-Dichloropropene	ug/kg	ND	33.8	40.4	32.0	39.8	95	98	26-145	22	20	
1,2,3-Trichlorobenzene	ug/kg	ND	33.8	40.4	25.8	31.6	76	78	10-119	20	20	
1,2,3-Trichloropropane	ug/kg	ND	33.8	40.4	34.6	39.7	102	98	10-168	14	20	
1,2,4-Trichlorobenzene	ug/kg	ND	33.8	40.4	24.8	31.1	73	77	10-122	22	20	
1,2,4-Trimethylbenzene	ug/kg	ND	33.8	40.4	32.3	104	92	255	10-139	105	20	
1,2-Dibromoethane (EDB)	ug/kg	ND	33.8	40.4	33.3	39.9	98	99	15-136	18	20	
1,2-Dichlorobenzene	ug/kg	ND	33.8	40.4	28.2	33.8	83	84	10-132	18	20	
1,2-Dichloroethane	ug/kg	ND	33.8	40.4	41.1	47.1	121	117	30-140	14	20	
1,2-Dichloropropane	ug/kg	ND	33.8	40.4	32.0	37.1	95	92	29-135	15	20	
1,3,5-Trimethylbenzene	ug/kg	ND	33.8	40.4	31.3	48.0	92	118	10-143	42	20	
1,3-Dichlorobenzene	ug/kg	ND	33.8	40.4	27.3	34.0	81	84	10-130	22	20	
1,3-Dichloropropane	ug/kg	ND	33.8	40.4	33.5	38.5	99	95	17-139	14	20	
1,4-Dichlorobenzene	ug/kg	ND	33.8	40.4	26.9	33.3	79	82	10-128	22	20	
2,2-Dichloropropane	ug/kg	ND	33.8	40.4	36.5	43.4	108	107	29-136	17	20	
2-Butanone (MEK)	ug/kg	ND	169	202	246	275	145	136	22-176	11	20	
2-Chlorotoluene	ug/kg	ND	33.8	40.4	30.0	42.2	89	104	10-146	34	20	
2-Hexanone	ug/kg	ND	169	202	201	221	119	109	12-165	10	20	
4-Chlorotoluene	ug/kg	ND	33.8	40.4	27.9	34.7	82	86	10-138	22	20	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	169	202	182	195	108	96	22-155	6	20	
Acetone	ug/kg	ND	169	202	474	815	280	403	11-200	53	20	M0
Acrolein	ug/kg	ND	677	809	973	1030	144	127	10-200	6	20	
Acrylonitrile	ug/kg	ND	677	809	768	954	114	118	20-150	22	20	

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7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

QUALITY CONTROL DATA

Project: Former Carpenter Mfg.
Pace Project No.: 5078079

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 897409 897410

Parameter	Units	5078079003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/kg	57.6	33.8	40.4	78.0	67.0	60	23	27-140	15	20	
Bromobenzene	ug/kg	ND	33.8	40.4	31.7	37.8	94	93	10-133	18	20	
Bromochloromethane	ug/kg	ND	33.8	40.4	36.8	43.1	109	107	28-142	16	20	
Bromodichloromethane	ug/kg	ND	33.8	40.4	31.4	38.0	93	94	13-139	19	20	
Bromoform	ug/kg	ND	33.8	40.4	22.1	26.6	65	66	10-122	18	20	
Bromomethane	ug/kg	ND	33.8	40.4	26.8	33.7	79	83	10-154	23	20	
Carbon disulfide	ug/kg	ND	67.7	80.9	65.3	80.2	97	99	20-142	20	20	
Carbon tetrachloride	ug/kg	ND	33.8	40.4	28.6	34.9	84	86	19-135	20	20	
Chlorobenzene	ug/kg	ND	33.8	40.4	30.1	36.7	89	91	10-136	20	20	
Chloroethane	ug/kg	ND	33.8	40.4	37.8	43.4	112	107	24-161	14	20	
Chloroform	ug/kg	ND	33.8	40.4	36.7	44.0	109	109	36-138	18	20	
Chloromethane	ug/kg	ND	33.8	40.4	34.0	39.7	100	98	28-143	16	20	
cis-1,2-Dichloroethene	ug/kg	ND	33.8	40.4	31.9	36.9	94	91	29-136	14	20	
cis-1,3-Dichloropropene	ug/kg	ND	33.8	40.4	31.3	35.3	92	87	10-130	12	20	
Dibromochloromethane	ug/kg	ND	33.8	40.4	27.8	32.3	82	80	10-124	15	20	
Dibromomethane	ug/kg	ND	33.8	40.4	34.2	39.5	101	98	24-136	15	20	
Dichlorodifluoromethane	ug/kg	ND	33.8	40.4	38.3	45.9	113	113	15-187	18	20	
Ethyl methacrylate	ug/kg	ND	135	162	125	142	92	88	10-147	13	20	
Ethylbenzene	ug/kg	10.4	33.8	40.4	37.4	75.7	80	161	10-144	68	20	
Hexachloro-1,3-butadiene	ug/kg	ND	33.8	40.4	26.8	31.1	79	77	10-136	15	20	
Iodomethane	ug/kg	ND	67.7	80.9	46.5J	56.7J	69	70	10-155		20	
Isopropylbenzene (Cumene)	ug/kg	ND	33.8	40.4	33.6	51.7	98	127	10-134	43	20	
Methyl-tert-butyl ether	ug/kg	ND	67.7	80.9	83.1	94.6	123	117	30-147	13	20	
Methylene Chloride	ug/kg	ND	33.8	40.4	38.2	47.7	113	118	23-150	22	20	
n-Butylbenzene	ug/kg	ND	33.8	40.4	27.7	34.3	82	85	10-141	21	20	
n-Hexane	ug/kg	ND	33.8	40.4	27.5	73.8	74	176	10-140	91	20	N2
n-Propylbenzene	ug/kg	ND	33.8	40.4	30.5	50.0	89	123	10-143	48	20	
Naphthalene	ug/kg	ND	33.8	40.4	22.7	41.1	67	102	10-130	58	20	
p-Isopropyltoluene	ug/kg	ND	33.8	40.4	31.2	36.8	92	91	10-146	16	20	
sec-Butylbenzene	ug/kg	ND	33.8	40.4	31.2	37.5	92	93	10-150	18	20	
Styrene	ug/kg	ND	33.8	40.4	32.6	39.1	96	97	10-138	18	20	
tert-Butylbenzene	ug/kg	ND	33.8	40.4	31.0	37.7	92	93	10-135	19	20	
Tetrachloroethene	ug/kg	ND	33.8	40.4	29.6	35.9	87	89	10-153	19	20	
Toluene	ug/kg	8.4	33.8	40.4	38.0	37.5	87	72	10-140	1	20	
trans-1,2-Dichloroethene	ug/kg	ND	33.8	40.4	35.7	43.1	106	107	28-139	19	20	
trans-1,3-Dichloropropene	ug/kg	ND	33.8	40.4	30.1	35.3	89	87	10-126	16	20	
trans-1,4-Dichloro-2-butene	ug/kg	ND	135	162	140	159	104	98	10-132	12	20	
Trichloroethene	ug/kg	ND	33.8	40.4	32.8	41.6	97	103	17-148	24	20	
Trichlorofluoromethane	ug/kg	ND	33.8	40.4	37.8	45.5	112	113	31-177	19	20	
Vinyl acetate	ug/kg	ND	135	162	163	181	120	112	70-130	11	20	
Vinyl chloride	ug/kg	ND	33.8	40.4	31.2	40.4	92	100	30-145	26	20	
Xylene (Total)	ug/kg	7.3	102	121	99.9	155	91	121	10-143	43	20	
4-Bromofluorobenzene (S)	%.						108	100	56-144		20	
Dibromofluoromethane (S)	%.						108	110	85-118		20	2d
Toluene-d8 (S)	%.						109	103	71-128		20	

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7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

QUALITY CONTROL DATA

Project: Former Carpenter Mfg.
Pace Project No.: 5078079

QC Batch: PMST/8101 | Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 | Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 5078079001, 5078079002, 5078079003, 5078079004, 5078079005, 5078079006, 5078079007, 5078079008, 5078079009

SAMPLE DUPLICATE: 894282

Parameter	Units	5078079003 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	9.9	10.0	1	5	

SAMPLE DUPLICATE: 894290

Parameter	Units	5078104004 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	5.6	7.8	33	5	R1

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QUALIFIERS

Project: Former Carpenter Mfg.
Pace Project No.: 5078079

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

1d	MtBE ND at an estimated RL of 180 ug/kg based on the MDL. grm 4-8-13
2d	Several compounds are outside of acceptance limits for percent recovery and/or RPD value. Refer to the LCS for system control. grm 4-10-13
3d	VC ND at an estimated RL of 46 ug/kg based on the MDL. grm 4-8-13
D4	Sample was diluted due to the presence of high levels of target analytes.
L0	Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
N2	The lab does not hold TNI accreditation for this parameter.
R1	RPD value was outside control limits.
S5	Surrogate recovery outside control limits due to matrix interferences (not confirmed by re-analysis).

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Former Carpenter Mfg.
Pace Project No.: 5078079

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
5078079001	**P-27 10-12'**	EPA 8260	MSV/51895		
5078079002	**P-28 7-9'**	EPA 8260	MSV/51895		
5078079003	**P-26 12-16'**	EPA 8260	MSV/51978		
5078079004	**P-24 4-8'**	EPA 8260	MSV/51895		
5078079005	**P-29 10-14'**	EPA 8260	MSV/51895		
5078079006	**P-25 13-15'**	EPA 8260	MSV/51978		
5078079007	**P-23 15-17'**	EPA 8260	MSV/51895		
5078079008	**P-22 15-17'**	EPA 8260	MSV/51895		
5078079009	**Field Dup 10-12'**	EPA 8260	MSV/51896		
5078079010	**Trip Blank**	EPA 8260	MSV/51896		
5078079001	**P-27 10-12'**	ASTM D2974-87	PMST/8101		
5078079002	**P-28 7-9'**	ASTM D2974-87	PMST/8101		
5078079003	**P-26 12-16'**	ASTM D2974-87	PMST/8101		
5078079004	**P-24 4-8'**	ASTM D2974-87	PMST/8101		
5078079005	**P-29 10-14'**	ASTM D2974-87	PMST/8101		
5078079006	**P-25 13-15'**	ASTM D2974-87	PMST/8101		
5078079007	**P-23 15-17'**	ASTM D2974-87	PMST/8101		
5078079008	**P-22 15-17'**	ASTM D2974-87	PMST/8101		
5078079009	**Field Dup 10-12'**	ASTM D2974-87	PMST/8101		

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CHAIN-OF-CUSTODY / Analytical Request Document

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

✓TMS

Page: of

1600601

Section A Required Client Information:

Company: Weaver Boos Consultants
Address: 4085 Meghan Beeler Ct
South Bend, IN 46635
Email To: SSTanford@weaverboos.com
Phone: 574-271-3447 Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To: Steven S Tanford
Copy To: Grant Baker
gbaker@weaverboos.com
Purchase Order No.:
Project Name: Former Carpenter Mfg
Project Number: 2339-353-03

Section C Invoice Information:

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

REGULATORY AGENCY

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

Site Location STATE: IN

Section D Required Client Information

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

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

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start DATE	COLLECTED Composite Start TIME	COLLECTED Composite End/Grab DATE	COLLECTED Composite End/Grab TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test: VOC's (Y/N)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. (SDG80P)
1	P-27 10-12'	SL	G			3-27-13	0930		4							1	3	X		-001
2	P-28 7-9'	SL	G			3-27-13	0955		4							1	3	X		-002
3	P-26 12-16'	SL	G			3-27-13	1020		4							1	3	X		-003
4	P-24 4-8'	SL	G			3-27-13	1055		4							1	3	X		-004
5	P-29 10-14'	SL	G			3-27-13	1120		4							1	3	X		-005
6	P-25 13-15'	SL	G			3-27-13	1140		4							1	3	X		-006
7	P-23 15-17'	SL	G			3-27-13	1250		4							1	3	X		-007
8	P-22 15-17'	SL	G			3-27-13	1350		4							1	3	X		-008
9	Field Dup 10-12'	SL	G			3-27-13	0935		4							1	3	X		-009
10	MS 12-16'	SL	G			3-27-13	1025		4							1	3	X		-010
11	MSD 12-16'	SL	G			3-27-13	1030		4							1	3	X		(-011)
12	Trip Blank	—	—			3-27-13	—		3				1				2	X		-012

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Level IV, per S. Stanford	Grant Baker	3-27-13	1435	Steven Stanford WBG	3/27/13	1435				
	Steven Stanford	3/27/13	1616	R. Cassidy	3-27-13	1616	1.2	Yes	No	Yes
							Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Grant Baker

SIGNATURE of SAMPLER: Grant Baker

DATE Signed (MM/DD/YY): 3-27-13

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

Sample Condition Upon Receipt

Pace Analytical

Client Name: Weaver Bros. Ltd. Project # 5078079

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☒ Client ☐ Commercial ☐ Pace Other _____

Tracking #: _____

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

Date/Time 5035A kits placed in freezer 3:45, 3-27-13

Packing Material: ☐ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other _____

Thermometer Used 1 2 3 4 6 A B C D (E) Type of Ice: (Wet) Blue None ☒ Samples on ice, cooling process has begun

Cooler Temperature (Corrected, if applicable) 1.2 Ice Visible in Sample Containers: ☐ yes ☒ no

Temp should be above freezing to 6°C

Date and Initials of person examining contents: 3-27-13 RCL

				Comments:
Chain of Custody Present:	☒ Yes	☐ No	☐ N/A	1.
Chain of Custody Filled Out:	☒ Yes	☐ No	☐ N/A	2.
Chain of Custody Relinquished:	☒ Yes	☐ No	☐ N/A	3.
Sampler Name & Signature on COC:	☒ Yes	☐ No	☐ N/A	4.
Short Hold Time Analysis (<72hr):	☐ Yes	☐ No	☒ N/A	5.
Rush Turn Around Time Requested:	☐ Yes	☐ No	☒ N/A	6.
Containers Intact:	☒ Yes	☐ No	☐ N/A	7.
Sample Labels match COC: -Includes date/time/ID/Analysis	☒ Yes	☐ No	☐ N/A	8.
All containers needing acid/base pres. have been checked? exceptions: VOA, coliform, TOC, O&G	☐ Yes	☐ No	☒ N/A	9. (Circle) HNO3 H2SO4 NaOH HCl
All containers needing preservation are found to be in compliance with EPA recommendation.	☐ Yes	☐ No	☒ N/A	
Headspace in VOA Vials (>6mm)	☐ Yes	☒ No	☐ N/A	10.
Trip Blank Present:	☒ Yes	☐ No	☐ N/A	11.
Trip Blank Custody Seals Present	☐ Yes	☒ No	☐ N/A	
Project Manager Review				
Samples Arrived within Hold Time:	☒ Yes	☐ No	☐ N/A	12.
Sufficient Volume:	☒ Yes	☐ No	☐ N/A	13.
Correct Containers Used:	☒ Yes	☐ No	☐ N/A	14.

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: [signature] **Date:** 3-28-13

Form F-IN-Q290-rev.04, 28Apr2011

Sample Container Count

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CLIENT: Weaver Boos & Co.

COC PAGE 1 of 1
COC ID# 1600601

Project # 5078079

Sample Line Item	DG9H	AG1U	WGFU	AG0U	R 4/6	BP2N	BP2U	BP2S	BP3N	BP3U	BP3S	AG3S	AG1H			Comments
1					4											
2																
3																
4																
5																
6																
7																
8																
9																
10																
11																
12					3											

Container Codes

DG9H	40mL HCL amber voa vial	AG0U	100mL unpreserved amber glass	BP1N	1 liter HNO3 plastic	DG9P	40mL TSP amber vial
AG1U	1liter unpreserved amber glass	AG1H	1 liter HCL amber glass	BP1S	1 liter H2SO4 plastic	DG9S	40mL H2SO4 amber vial
WGFU	4oz clear soil jar	AG1S	1 liter H2SO4 amber glass	BP1U	1 liter unpreserved plastic	DG9T	40mL Na Thio amber vial
R	terra core kit	AG1T	1 liter Na Thiosulfate amber gl	BP1Z	1 liter NaOH, Zn, Ac	DG9U	40mL unpreserved amber vial
BP2N	500mL HNO3 plastic	AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plastic	I	Wipe/Swab
BP2U	500mL unpreserved plastic	AG2S	500mL H2SO4 amber glass	BP2O	500mL NaOH plastic	JGFU	4oz unpreserved amber wide
BP2S	500mL H2SO4 plastic	AG2U	500mL unpreserved amber gla	BP2Z	500mL NaOH, Zn Ac	U	Summa Can
BP3N	250mL HNO3 plastic	AG3U	250mL unpreserved amber gla	AF	Air Filter	VG9H	40mL HCL clear vial
BP3U	250mL unpreserved plastic	BG1H	1 liter HCL clear glass	BP3C	250mL NaOH plastic	VG9T	40mL Na Thio. clear vial
BP3S	250mL H2SO4 plastic	BG1S	1 liter H2SO4 clear glass	BP3Z	250mL NaOH, Zn Ac plastic	VG9U	40mL unpreserved clear vial
AG3S	250mL H2SO4 glass amber	BG1T	1 liter Na Thiosulfate clear gla	C	Air Cassettes	VSG	Headspace septa vial & HCL
AG1S	1 liter H2SO4 amber glass	BG1U	1 liter unpreserved glass	DG9B	40mL Na Bisulfate amber vial	WGFX	4oz wide jar w/hexane wipe
BP1U	1 liter unpreserved plastic	BP1A	1 liter NaOH, Asc Acid plastic	DG9M	40mL MeOH clear vial	ZPLC	Ziploc Bag

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April 12, 2013

Mr. Steve Stanford
Weaver Boos & Gordon
4085 Meghan Beeler Court
South Bend, IN 46628

RE: Project: Former Carpenter Mfg
Pace Project No.: 5078197

Dear Mr. Stanford:
Enclosed are the analytical results for sample(s) received by the laboratory on March 29, 2013. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Lyle Cable

lyle.cable@pacelabs.com
Project Manager

Enclosures

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June 20, 2013

Mr. Steve Stanford
Weaver Boos & Gordon
4085 Meghan Beeler Court
South Bend, IN 46628

RE: Project: Former Carpenter Mfg
Pace Project No.: 5081612

Dear Mr. Stanford:
Enclosed are the analytical results for sample(s) received by the laboratory on June 06, 2013. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Lyle Cable

lyle.cable@pacelabs.com
Project Manager

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CERTIFICATIONS

Project: Former Carpenter Mfg
Pace Project No.: 5081612

Indiana Certification IDs
7726 Moller Road, Indianapolis, IN 46268
Illinois Certification #: 200074
Indiana Certification #: C-49-06
Kansas Certification #: E-10247
Kentucky Certification #: 0042
Louisiana/NELAC Certification #: 04076
Ohio VAP Certification #: 101170-0
Pennsylvania Certification #: 68-04991
West Virginia Certification #: 330

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7726 Moller Road
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(317)875-5894

SAMPLE SUMMARY

Project: Former Carpenter Mfg
Pace Project No.: 5081612

Lab ID	Sample ID	Matrix	Date Collected	Date Received
5081612001	**WB-1**	Water	06/06/13 15:00	06/06/13 18:30
5081612002	**WB-2**	Water	06/06/13 11:25	06/06/13 18:30
5081612003	**WB-3**	Water	06/06/13 08:35	06/06/13 18:30
5081612004	**WB-4**	Water	06/06/13 09:00	06/06/13 18:30
5081612005	**WB-5**	Water	06/06/13 14:30	06/06/13 18:30
5081612006	**WB-6**	Water	06/06/13 09:40	06/06/13 18:30
5081612007	**WB-7**	Water	06/06/13 10:30	06/06/13 18:30
5081612008	**WB-8**	Water	06/06/13 15:45	06/06/13 18:30
5081612009	**WB-9**	Water	06/06/13 14:00	06/06/13 18:30
5081612010	**Field Dup**	Water	06/06/13 14:30	06/06/13 18:30
5081612011	**Equip Blank**	Water	06/06/13 10:15	06/06/13 18:30
5081612013	**Trip Blank**	Water	06/06/13 08:00	06/06/13 18:30

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SAMPLE ANALYTE COUNT

Project: Former Carpenter Mfg
Pace Project No.: 5081612

Lab ID	Sample ID	Method	Analysts	Analytes Reported
5081612001	**WB-1**	EPA 8260	DAE	73
5081612002	**WB-2**	EPA 8260	DAE	73
5081612003	**WB-3**	EPA 8260	DAE	73
5081612004	**WB-4**	EPA 8260	DAE	73
5081612005	**WB-5**	EPA 8260	DAE	73
5081612006	**WB-6**	EPA 8260	DAE	73
5081612007	**WB-7**	EPA 8260	DAE	73
5081612008	**WB-8**	EPA 8260	DAE	73
5081612009	**WB-9**	EPA 8260	DAE	73
5081612010	**Field Dup**	EPA 8260	DAE	73
5081612011	**Equip Blank**	EPA 8260	DAE	73
5081612013	**Trip Blank**	EPA 8260	DAE	73

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ANALYTICAL RESULTS

Project: Former Carpenter Mfg
Pace Project No.: 5081612

Sample: WB-1 **Lab ID: 5081612001** Collected: 06/06/13 15:00 Received: 06/06/13 18:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		06/17/13 15:21	67-64-1	
Acrolein	ND	ug/L	50.0	1		06/17/13 15:21	107-02-8	
Acrylonitrile	ND	ug/L	100	1		06/17/13 15:21	107-13-1	
Benzene	**17.8**	ug/L	5.0	1		06/17/13 15:21	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		06/17/13 15:21	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		06/17/13 15:21	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		06/17/13 15:21	75-27-4	
Bromoform	ND	ug/L	5.0	1		06/17/13 15:21	75-25-2	
Bromomethane	ND	ug/L	5.0	1		06/17/13 15:21	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		06/17/13 15:21	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		06/17/13 15:21	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		06/17/13 15:21	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		06/17/13 15:21	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		06/17/13 15:21	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		06/17/13 15:21	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		06/17/13 15:21	108-90-7	
Chloroethane	ND	ug/L	5.0	1		06/17/13 15:21	75-00-3	
Chloroform	ND	ug/L	5.0	1		06/17/13 15:21	67-66-3	
Chloromethane	ND	ug/L	5.0	1		06/17/13 15:21	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		06/17/13 15:21	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		06/17/13 15:21	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		06/17/13 15:21	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		06/17/13 15:21	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		06/17/13 15:21	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		06/17/13 15:21	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		06/17/13 15:21	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		06/17/13 15:21	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		06/17/13 15:21	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		06/17/13 15:21	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		06/17/13 15:21	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		06/17/13 15:21	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		06/17/13 15:21	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		06/17/13 15:21	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		06/17/13 15:21	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		06/17/13 15:21	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		06/17/13 15:21	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		06/17/13 15:21	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		06/17/13 15:21	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		06/17/13 15:21	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		06/17/13 15:21	10061-02-6	
Ethylbenzene	**64.3**	ug/L	5.0	1		06/17/13 15:21	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		06/17/13 15:21	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		06/17/13 15:21	87-68-3	
n-Hexane	**129**	ug/L	5.0	1		06/17/13 15:21	110-54-3	N2
2-Hexanone	ND	ug/L	25.0	1		06/17/13 15:21	591-78-6	
Iodomethane	ND	ug/L	10.0	1		06/17/13 15:21	74-88-4	
Isopropylbenzene (Cumene)	**18.7**	ug/L	5.0	1		06/17/13 15:21	98-82-8	

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ANALYTICAL RESULTS

Project: Former Carpenter Mfg
Pace Project No.: 5081612

Sample: WB-1 **Lab ID: 5081612001** Collected: 06/06/13 15:00 Received: 06/06/13 18:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
p-Isopropyltoluene	ND	ug/L	5.0	1		06/17/13 15:21	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		06/17/13 15:21	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		06/17/13 15:21	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		06/17/13 15:21	1634-04-4	
Naphthalene	**19.7**	ug/L	5.0	1		06/17/13 15:21	91-20-3	
n-Propylbenzene	**26.6**	ug/L	5.0	1		06/17/13 15:21	103-65-1	
Styrene	ND	ug/L	5.0	1		06/17/13 15:21	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		06/17/13 15:21	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		06/17/13 15:21	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		06/17/13 15:21	127-18-4	
Toluene	**33.1**	ug/L	5.0	1		06/17/13 15:21	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		06/17/13 15:21	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		06/17/13 15:21	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		06/17/13 15:21	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		06/17/13 15:21	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		06/17/13 15:21	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		06/17/13 15:21	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		06/17/13 15:21	96-18-4	
1,2,4-Trimethylbenzene	**168**	ug/L	5.0	1		06/17/13 15:21	95-63-6	
1,3,5-Trimethylbenzene	**50.3**	ug/L	5.0	1		06/17/13 15:21	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		06/17/13 15:21	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		06/17/13 15:21	75-01-4	
Xylene (Total)	**327**	ug/L	10.0	1		06/17/13 15:21	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	99	%.	79-116	1		06/17/13 15:21	1868-53-7	
4-Bromofluorobenzene (S)	98	%.	80-114	1		06/17/13 15:21	460-00-4	
Toluene-d8 (S)	106	%.	81-110	1		06/17/13 15:21	2037-26-5	

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ANALYTICAL RESULTS

Project: Former Carpenter Mfg
Pace Project No.: 5081612

Sample: WB-2 **Lab ID: 5081612002** Collected: 06/06/13 11:25 Received: 06/06/13 18:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		06/17/13 16:27	67-64-1	
Acrolein	ND	ug/L	50.0	1		06/17/13 16:27	107-02-8	
Acrylonitrile	ND	ug/L	100	1		06/17/13 16:27	107-13-1	
Benzene	ND	ug/L	5.0	1		06/17/13 16:27	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		06/17/13 16:27	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		06/17/13 16:27	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		06/17/13 16:27	75-27-4	
Bromoform	ND	ug/L	5.0	1		06/17/13 16:27	75-25-2	
Bromomethane	ND	ug/L	5.0	1		06/17/13 16:27	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		06/17/13 16:27	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		06/17/13 16:27	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		06/17/13 16:27	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		06/17/13 16:27	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		06/17/13 16:27	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		06/17/13 16:27	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		06/17/13 16:27	108-90-7	
Chloroethane	ND	ug/L	5.0	1		06/17/13 16:27	75-00-3	
Chloroform	ND	ug/L	5.0	1		06/17/13 16:27	67-66-3	
Chloromethane	ND	ug/L	5.0	1		06/17/13 16:27	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		06/17/13 16:27	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		06/17/13 16:27	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		06/17/13 16:27	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		06/17/13 16:27	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		06/17/13 16:27	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		06/17/13 16:27	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		06/17/13 16:27	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		06/17/13 16:27	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		06/17/13 16:27	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		06/17/13 16:27	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		06/17/13 16:27	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		06/17/13 16:27	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		06/17/13 16:27	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		06/17/13 16:27	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		06/17/13 16:27	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		06/17/13 16:27	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		06/17/13 16:27	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		06/17/13 16:27	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		06/17/13 16:27	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		06/17/13 16:27	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		06/17/13 16:27	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		06/17/13 16:27	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		06/17/13 16:27	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		06/17/13 16:27	87-68-3	
n-Hexane	ND	ug/L	5.0	1		06/17/13 16:27	110-54-3	N2
2-Hexanone	ND	ug/L	25.0	1		06/17/13 16:27	591-78-6	
Iodomethane	ND	ug/L	10.0	1		06/17/13 16:27	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		06/17/13 16:27	98-82-8	

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ANALYTICAL RESULTS

Project: Former Carpenter Mfg
Pace Project No.: 5081612

Sample: WB-2 **Lab ID: 5081612002** Collected: 06/06/13 11:25 Received: 06/06/13 18:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
p-Isopropyltoluene	ND	ug/L	5.0	1		06/17/13 16:27	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		06/17/13 16:27	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		06/17/13 16:27	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		06/17/13 16:27	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		06/17/13 16:27	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		06/17/13 16:27	103-65-1	
Styrene	ND	ug/L	5.0	1		06/17/13 16:27	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		06/17/13 16:27	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		06/17/13 16:27	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		06/17/13 16:27	127-18-4	
Toluene	ND	ug/L	5.0	1		06/17/13 16:27	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		06/17/13 16:27	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		06/17/13 16:27	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		06/17/13 16:27	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		06/17/13 16:27	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		06/17/13 16:27	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		06/17/13 16:27	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		06/17/13 16:27	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		06/17/13 16:27	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		06/17/13 16:27	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		06/17/13 16:27	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		06/17/13 16:27	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		06/17/13 16:27	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	107	%.	79-116	1		06/17/13 16:27	1868-53-7	
4-Bromofluorobenzene (S)	98	%.	80-114	1		06/17/13 16:27	460-00-4	
Toluene-d8 (S)	100	%.	81-110	1		06/17/13 16:27	2037-26-5	

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ANALYTICAL RESULTS

Project: Former Carpenter Mfg
Pace Project No.: 5081612

Sample: WB-3 **Lab ID: 5081612003** Collected: 06/06/13 08:35 Received: 06/06/13 18:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		06/17/13 17:00	67-64-1	
Acrolein	ND	ug/L	50.0	1		06/17/13 17:00	107-02-8	
Acrylonitrile	ND	ug/L	100	1		06/17/13 17:00	107-13-1	
Benzene	ND	ug/L	5.0	1		06/17/13 17:00	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		06/17/13 17:00	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		06/17/13 17:00	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		06/17/13 17:00	75-27-4	
Bromoform	ND	ug/L	5.0	1		06/17/13 17:00	75-25-2	
Bromomethane	ND	ug/L	5.0	1		06/17/13 17:00	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		06/17/13 17:00	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		06/17/13 17:00	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		06/17/13 17:00	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		06/17/13 17:00	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		06/17/13 17:00	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		06/17/13 17:00	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		06/17/13 17:00	108-90-7	
Chloroethane	ND	ug/L	5.0	1		06/17/13 17:00	75-00-3	
Chloroform	ND	ug/L	5.0	1		06/17/13 17:00	67-66-3	
Chloromethane	ND	ug/L	5.0	1		06/17/13 17:00	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		06/17/13 17:00	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		06/17/13 17:00	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		06/17/13 17:00	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		06/17/13 17:00	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		06/17/13 17:00	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		06/17/13 17:00	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		06/17/13 17:00	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		06/17/13 17:00	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		06/17/13 17:00	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		06/17/13 17:00	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		06/17/13 17:00	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		06/17/13 17:00	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		06/17/13 17:00	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		06/17/13 17:00	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		06/17/13 17:00	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		06/17/13 17:00	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		06/17/13 17:00	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		06/17/13 17:00	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		06/17/13 17:00	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		06/17/13 17:00	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		06/17/13 17:00	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		06/17/13 17:00	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		06/17/13 17:00	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		06/17/13 17:00	87-68-3	
n-Hexane	ND	ug/L	5.0	1		06/17/13 17:00	110-54-3	N2
2-Hexanone	ND	ug/L	25.0	1		06/17/13 17:00	591-78-6	
Iodomethane	ND	ug/L	10.0	1		06/17/13 17:00	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		06/17/13 17:00	98-82-8	

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ANALYTICAL RESULTS

Project: Former Carpenter Mfg
Pace Project No.: 5081612

Sample: WB-3 **Lab ID: 5081612003** Collected: 06/06/13 08:35 Received: 06/06/13 18:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
p-Isopropyltoluene	ND	ug/L	5.0	1		06/17/13 17:00	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		06/17/13 17:00	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		06/17/13 17:00	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		06/17/13 17:00	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		06/17/13 17:00	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		06/17/13 17:00	103-65-1	
Styrene	ND	ug/L	5.0	1		06/17/13 17:00	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		06/17/13 17:00	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		06/17/13 17:00	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		06/17/13 17:00	127-18-4	
Toluene	ND	ug/L	5.0	1		06/17/13 17:00	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		06/17/13 17:00	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		06/17/13 17:00	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		06/17/13 17:00	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		06/17/13 17:00	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		06/17/13 17:00	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		06/17/13 17:00	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		06/17/13 17:00	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		06/17/13 17:00	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		06/17/13 17:00	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		06/17/13 17:00	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		06/17/13 17:00	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		06/17/13 17:00	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	108	%.	79-116	1		06/17/13 17:00	1868-53-7	
4-Bromofluorobenzene (S)	97	%.	80-114	1		06/17/13 17:00	460-00-4	
Toluene-d8 (S)	100	%.	81-110	1		06/17/13 17:00	2037-26-5	

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ANALYTICAL RESULTS

Project: Former Carpenter Mfg
Pace Project No.: 5081612

Sample: WB-4 **Lab ID: 5081612004** Collected: 06/06/13 09:00 Received: 06/06/13 18:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		06/17/13 17:33	67-64-1	
Acrolein	ND	ug/L	50.0	1		06/17/13 17:33	107-02-8	
Acrylonitrile	ND	ug/L	100	1		06/17/13 17:33	107-13-1	
Benzene	ND	ug/L	5.0	1		06/17/13 17:33	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		06/17/13 17:33	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		06/17/13 17:33	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		06/17/13 17:33	75-27-4	
Bromoform	ND	ug/L	5.0	1		06/17/13 17:33	75-25-2	
Bromomethane	ND	ug/L	5.0	1		06/17/13 17:33	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		06/17/13 17:33	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		06/17/13 17:33	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		06/17/13 17:33	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		06/17/13 17:33	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		06/17/13 17:33	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		06/17/13 17:33	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		06/17/13 17:33	108-90-7	
Chloroethane	ND	ug/L	5.0	1		06/17/13 17:33	75-00-3	
Chloroform	ND	ug/L	5.0	1		06/17/13 17:33	67-66-3	
Chloromethane	ND	ug/L	5.0	1		06/17/13 17:33	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		06/17/13 17:33	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		06/17/13 17:33	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		06/17/13 17:33	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		06/17/13 17:33	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		06/17/13 17:33	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		06/17/13 17:33	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		06/17/13 17:33	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		06/17/13 17:33	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		06/17/13 17:33	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		06/17/13 17:33	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		06/17/13 17:33	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		06/17/13 17:33	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		06/17/13 17:33	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		06/17/13 17:33	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		06/17/13 17:33	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		06/17/13 17:33	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		06/17/13 17:33	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		06/17/13 17:33	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		06/17/13 17:33	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		06/17/13 17:33	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		06/17/13 17:33	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		06/17/13 17:33	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		06/17/13 17:33	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		06/17/13 17:33	87-68-3	
n-Hexane	ND	ug/L	5.0	1		06/17/13 17:33	110-54-3	N2
2-Hexanone	ND	ug/L	25.0	1		06/17/13 17:33	591-78-6	
Iodomethane	ND	ug/L	10.0	1		06/17/13 17:33	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		06/17/13 17:33	98-82-8	

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ANALYTICAL RESULTS

Project: Former Carpenter Mfg
Pace Project No.: 5081612

Sample: WB-4 **Lab ID: 5081612004** Collected: 06/06/13 09:00 Received: 06/06/13 18:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
p-Isopropyltoluene	ND	ug/L	5.0	1		06/17/13 17:33	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		06/17/13 17:33	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		06/17/13 17:33	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		06/17/13 17:33	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		06/17/13 17:33	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		06/17/13 17:33	103-65-1	
Styrene	ND	ug/L	5.0	1		06/17/13 17:33	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		06/17/13 17:33	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		06/17/13 17:33	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		06/17/13 17:33	127-18-4	
Toluene	ND	ug/L	5.0	1		06/17/13 17:33	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		06/17/13 17:33	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		06/17/13 17:33	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		06/17/13 17:33	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		06/17/13 17:33	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		06/17/13 17:33	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		06/17/13 17:33	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		06/17/13 17:33	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		06/17/13 17:33	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		06/17/13 17:33	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		06/17/13 17:33	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		06/17/13 17:33	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		06/17/13 17:33	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	105	%.	79-116	1		06/17/13 17:33	1868-53-7	
4-Bromofluorobenzene (S)	96	%.	80-114	1		06/17/13 17:33	460-00-4	
Toluene-d8 (S)	99	%.	81-110	1		06/17/13 17:33	2037-26-5	

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ANALYTICAL RESULTS

Project: Former Carpenter Mfg
Pace Project No.: 5081612

Sample: WB-5 **Lab ID: 5081612005** Collected: 06/06/13 14:30 Received: 06/06/13 18:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		06/17/13 18:06	67-64-1	
Acrolein	ND	ug/L	50.0	1		06/17/13 18:06	107-02-8	
Acrylonitrile	ND	ug/L	100	1		06/17/13 18:06	107-13-1	
Benzene	ND	ug/L	5.0	1		06/17/13 18:06	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		06/17/13 18:06	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		06/17/13 18:06	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		06/17/13 18:06	75-27-4	
Bromoform	ND	ug/L	5.0	1		06/17/13 18:06	75-25-2	
Bromomethane	ND	ug/L	5.0	1		06/17/13 18:06	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		06/17/13 18:06	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		06/17/13 18:06	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		06/17/13 18:06	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		06/17/13 18:06	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		06/17/13 18:06	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		06/17/13 18:06	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		06/17/13 18:06	108-90-7	
Chloroethane	ND	ug/L	5.0	1		06/17/13 18:06	75-00-3	
Chloroform	ND	ug/L	5.0	1		06/17/13 18:06	67-66-3	
Chloromethane	ND	ug/L	5.0	1		06/17/13 18:06	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		06/17/13 18:06	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		06/17/13 18:06	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		06/17/13 18:06	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		06/17/13 18:06	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		06/17/13 18:06	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		06/17/13 18:06	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		06/17/13 18:06	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		06/17/13 18:06	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		06/17/13 18:06	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		06/17/13 18:06	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		06/17/13 18:06	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		06/17/13 18:06	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		06/17/13 18:06	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		06/17/13 18:06	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		06/17/13 18:06	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		06/17/13 18:06	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		06/17/13 18:06	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		06/17/13 18:06	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		06/17/13 18:06	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		06/17/13 18:06	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		06/17/13 18:06	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		06/17/13 18:06	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		06/17/13 18:06	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		06/17/13 18:06	87-68-3	
n-Hexane	ND	ug/L	5.0	1		06/17/13 18:06	110-54-3	N2
2-Hexanone	ND	ug/L	25.0	1		06/17/13 18:06	591-78-6	
Iodomethane	ND	ug/L	10.0	1		06/17/13 18:06	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		06/17/13 18:06	98-82-8	

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ANALYTICAL RESULTS

Project: Former Carpenter Mfg
Pace Project No.: 5081612

Sample: WB-5 **Lab ID: 5081612005** Collected: 06/06/13 14:30 Received: 06/06/13 18:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
p-Isopropyltoluene	ND	ug/L	5.0	1		06/17/13 18:06	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		06/17/13 18:06	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		06/17/13 18:06	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		06/17/13 18:06	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		06/17/13 18:06	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		06/17/13 18:06	103-65-1	
Styrene	ND	ug/L	5.0	1		06/17/13 18:06	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		06/17/13 18:06	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		06/17/13 18:06	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		06/17/13 18:06	127-18-4	
Toluene	ND	ug/L	5.0	1		06/17/13 18:06	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		06/17/13 18:06	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		06/17/13 18:06	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		06/17/13 18:06	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		06/17/13 18:06	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		06/17/13 18:06	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		06/17/13 18:06	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		06/17/13 18:06	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		06/17/13 18:06	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		06/17/13 18:06	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		06/17/13 18:06	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		06/17/13 18:06	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		06/17/13 18:06	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	104	%.	79-116	1		06/17/13 18:06	1868-53-7	
4-Bromofluorobenzene (S)	98	%.	80-114	1		06/17/13 18:06	460-00-4	
Toluene-d8 (S)	99	%.	81-110	1		06/17/13 18:06	2037-26-5	

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ANALYTICAL RESULTS

Project: Former Carpenter Mfg
Pace Project No.: 5081612

Sample: WB-6 **Lab ID: 5081612006** Collected: 06/06/13 09:40 Received: 06/06/13 18:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		06/17/13 18:39	67-64-1	
Acrolein	ND	ug/L	50.0	1		06/17/13 18:39	107-02-8	
Acrylonitrile	ND	ug/L	100	1		06/17/13 18:39	107-13-1	
Benzene	ND	ug/L	5.0	1		06/17/13 18:39	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		06/17/13 18:39	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		06/17/13 18:39	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		06/17/13 18:39	75-27-4	
Bromoform	ND	ug/L	5.0	1		06/17/13 18:39	75-25-2	
Bromomethane	ND	ug/L	5.0	1		06/17/13 18:39	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		06/17/13 18:39	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		06/17/13 18:39	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		06/17/13 18:39	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		06/17/13 18:39	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		06/17/13 18:39	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		06/17/13 18:39	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		06/17/13 18:39	108-90-7	
Chloroethane	ND	ug/L	5.0	1		06/17/13 18:39	75-00-3	
Chloroform	ND	ug/L	5.0	1		06/17/13 18:39	67-66-3	
Chloromethane	ND	ug/L	5.0	1		06/17/13 18:39	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		06/17/13 18:39	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		06/17/13 18:39	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		06/17/13 18:39	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		06/17/13 18:39	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		06/17/13 18:39	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		06/17/13 18:39	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		06/17/13 18:39	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		06/17/13 18:39	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		06/17/13 18:39	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		06/17/13 18:39	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		06/17/13 18:39	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		06/17/13 18:39	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		06/17/13 18:39	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		06/17/13 18:39	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		06/17/13 18:39	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		06/17/13 18:39	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		06/17/13 18:39	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		06/17/13 18:39	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		06/17/13 18:39	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		06/17/13 18:39	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		06/17/13 18:39	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		06/17/13 18:39	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		06/17/13 18:39	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		06/17/13 18:39	87-68-3	
n-Hexane	ND	ug/L	5.0	1		06/17/13 18:39	110-54-3	N2
2-Hexanone	ND	ug/L	25.0	1		06/17/13 18:39	591-78-6	
Iodomethane	ND	ug/L	10.0	1		06/17/13 18:39	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		06/17/13 18:39	98-82-8	

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ANALYTICAL RESULTS

Project: Former Carpenter Mfg
Pace Project No.: 5081612

Sample: WB-6 **Lab ID: 5081612006** Collected: 06/06/13 09:40 Received: 06/06/13 18:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
p-Isopropyltoluene	ND	ug/L	5.0	1		06/17/13 18:39	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		06/17/13 18:39	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		06/17/13 18:39	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		06/17/13 18:39	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		06/17/13 18:39	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		06/17/13 18:39	103-65-1	
Styrene	ND	ug/L	5.0	1		06/17/13 18:39	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		06/17/13 18:39	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		06/17/13 18:39	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		06/17/13 18:39	127-18-4	
Toluene	ND	ug/L	5.0	1		06/17/13 18:39	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		06/17/13 18:39	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		06/17/13 18:39	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		06/17/13 18:39	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		06/17/13 18:39	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		06/17/13 18:39	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		06/17/13 18:39	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		06/17/13 18:39	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		06/17/13 18:39	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		06/17/13 18:39	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		06/17/13 18:39	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		06/17/13 18:39	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		06/17/13 18:39	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	105	%.	79-116	1		06/17/13 18:39	1868-53-7	
4-Bromofluorobenzene (S)	98	%.	80-114	1		06/17/13 18:39	460-00-4	
Toluene-d8 (S)	99	%.	81-110	1		06/17/13 18:39	2037-26-5	

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ANALYTICAL RESULTS

Project: Former Carpenter Mfg
Pace Project No.: 5081612

Sample: WB-7 **Lab ID: 5081612007** Collected: 06/06/13 10:30 Received: 06/06/13 18:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		06/17/13 20:18	67-64-1	
Acrolein	ND	ug/L	50.0	1		06/17/13 20:18	107-02-8	
Acrylonitrile	ND	ug/L	100	1		06/17/13 20:18	107-13-1	
Benzene	ND	ug/L	5.0	1		06/17/13 20:18	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		06/17/13 20:18	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		06/17/13 20:18	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		06/17/13 20:18	75-27-4	
Bromoform	ND	ug/L	5.0	1		06/17/13 20:18	75-25-2	
Bromomethane	ND	ug/L	5.0	1		06/17/13 20:18	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		06/17/13 20:18	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		06/17/13 20:18	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		06/17/13 20:18	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		06/17/13 20:18	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		06/17/13 20:18	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		06/17/13 20:18	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		06/17/13 20:18	108-90-7	
Chloroethane	ND	ug/L	5.0	1		06/17/13 20:18	75-00-3	
Chloroform	ND	ug/L	5.0	1		06/17/13 20:18	67-66-3	
Chloromethane	ND	ug/L	5.0	1		06/17/13 20:18	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		06/17/13 20:18	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		06/17/13 20:18	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		06/17/13 20:18	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		06/17/13 20:18	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		06/17/13 20:18	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		06/17/13 20:18	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		06/17/13 20:18	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		06/17/13 20:18	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		06/17/13 20:18	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		06/17/13 20:18	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		06/17/13 20:18	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		06/17/13 20:18	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		06/17/13 20:18	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		06/17/13 20:18	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		06/17/13 20:18	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		06/17/13 20:18	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		06/17/13 20:18	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		06/17/13 20:18	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		06/17/13 20:18	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		06/17/13 20:18	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		06/17/13 20:18	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		06/17/13 20:18	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		06/17/13 20:18	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		06/17/13 20:18	87-68-3	
n-Hexane	ND	ug/L	5.0	1		06/17/13 20:18	110-54-3	N2
2-Hexanone	ND	ug/L	25.0	1		06/17/13 20:18	591-78-6	
Iodomethane	ND	ug/L	10.0	1		06/17/13 20:18	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		06/17/13 20:18	98-82-8	

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ANALYTICAL RESULTS

Project: Former Carpenter Mfg
Pace Project No.: 5081612

Sample: WB-7 **Lab ID: 5081612007** Collected: 06/06/13 10:30 Received: 06/06/13 18:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
p-Isopropyltoluene	ND	ug/L	5.0	1		06/17/13 20:18	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		06/17/13 20:18	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		06/17/13 20:18	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		06/17/13 20:18	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		06/17/13 20:18	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		06/17/13 20:18	103-65-1	
Styrene	ND	ug/L	5.0	1		06/17/13 20:18	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		06/17/13 20:18	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		06/17/13 20:18	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		06/17/13 20:18	127-18-4	
Toluene	ND	ug/L	5.0	1		06/17/13 20:18	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		06/17/13 20:18	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		06/17/13 20:18	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		06/17/13 20:18	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		06/17/13 20:18	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		06/17/13 20:18	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		06/17/13 20:18	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		06/17/13 20:18	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		06/17/13 20:18	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		06/17/13 20:18	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		06/17/13 20:18	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		06/17/13 20:18	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		06/17/13 20:18	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	102	%.	79-116	1		06/17/13 20:18	1868-53-7	
4-Bromofluorobenzene (S)	100	%.	80-114	1		06/17/13 20:18	460-00-4	
Toluene-d8 (S)	100	%.	81-110	1		06/17/13 20:18	2037-26-5	

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ANALYTICAL RESULTS

Project: Former Carpenter Mfg
Pace Project No.: 5081612

Sample: WB-8 **Lab ID: 5081612008** Collected: 06/06/13 15:45 Received: 06/06/13 18:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		06/17/13 20:51	67-64-1	
Acrolein	ND	ug/L	50.0	1		06/17/13 20:51	107-02-8	
Acrylonitrile	ND	ug/L	100	1		06/17/13 20:51	107-13-1	
Benzene	**1030**	ug/L	250	50		06/17/13 21:24	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		06/17/13 20:51	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		06/17/13 20:51	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		06/17/13 20:51	75-27-4	
Bromoform	ND	ug/L	5.0	1		06/17/13 20:51	75-25-2	
Bromomethane	ND	ug/L	5.0	1		06/17/13 20:51	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		06/17/13 20:51	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		06/17/13 20:51	104-51-8	
sec-Butylbenzene	**14.0**	ug/L	5.0	1		06/17/13 20:51	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		06/17/13 20:51	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		06/17/13 20:51	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		06/17/13 20:51	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		06/17/13 20:51	108-90-7	
Chloroethane	ND	ug/L	5.0	1		06/17/13 20:51	75-00-3	
Chloroform	ND	ug/L	5.0	1		06/17/13 20:51	67-66-3	
Chloromethane	ND	ug/L	5.0	1		06/17/13 20:51	74-87-3	
2-Chlorotoluene	**220**	ug/L	5.0	1		06/17/13 20:51	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		06/17/13 20:51	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		06/17/13 20:51	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		06/17/13 20:51	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		06/17/13 20:51	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		06/17/13 20:51	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		06/17/13 20:51	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		06/17/13 20:51	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		06/17/13 20:51	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		06/17/13 20:51	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		06/17/13 20:51	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		06/17/13 20:51	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		06/17/13 20:51	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		06/17/13 20:51	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		06/17/13 20:51	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		06/17/13 20:51	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		06/17/13 20:51	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		06/17/13 20:51	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		06/17/13 20:51	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		06/17/13 20:51	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		06/17/13 20:51	10061-02-6	
Ethylbenzene	**4040**	ug/L	250	50		06/17/13 21:24	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		06/17/13 20:51	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		06/17/13 20:51	87-68-3	
n-Hexane	**2640**	ug/L	250	50		06/17/13 21:24	110-54-3	N2
2-Hexanone	ND	ug/L	25.0	1		06/17/13 20:51	591-78-6	
Iodomethane	ND	ug/L	10.0	1		06/17/13 20:51	74-88-4	
Isopropylbenzene (Cumene)	**272**	ug/L	5.0	1		06/17/13 20:51	98-82-8	

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ANALYTICAL RESULTS

Project: Former Carpenter Mfg
Pace Project No.: 5081612

Sample: WB-8 **Lab ID: 5081612008** Collected: 06/06/13 15:45 Received: 06/06/13 18:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
p-Isopropyltoluene	**11.6**	ug/L	5.0	1		06/17/13 20:51	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		06/17/13 20:51	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		06/17/13 20:51	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		06/17/13 20:51	1634-04-4	
Naphthalene	**1500**	ug/L	250	50		06/17/13 21:24	91-20-3	
n-Propylbenzene	**1120**	ug/L	250	50		06/17/13 21:24	103-65-1	
Styrene	ND	ug/L	5.0	1		06/17/13 20:51	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		06/17/13 20:51	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		06/17/13 20:51	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		06/17/13 20:51	127-18-4	
Toluene	**6690**	ug/L	250	50		06/17/13 21:24	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		06/17/13 20:51	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		06/17/13 20:51	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		06/17/13 20:51	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		06/17/13 20:51	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		06/17/13 20:51	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		06/17/13 20:51	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		06/17/13 20:51	96-18-4	
1,2,4-Trimethylbenzene	**7970**	ug/L	250	50		06/17/13 21:24	95-63-6	
1,3,5-Trimethylbenzene	**2200**	ug/L	250	50		06/17/13 21:24	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		06/17/13 20:51	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		06/17/13 20:51	75-01-4	
Xylene (Total)	**20200**	ug/L	500	50		06/17/13 21:24	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	96	%.	79-116	1		06/17/13 20:51	1868-53-7	
4-Bromofluorobenzene (S)	101	%.	80-114	1		06/17/13 20:51	460-00-4	
Toluene-d8 (S)	108	%.	81-110	1		06/17/13 20:51	2037-26-5	

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ANALYTICAL RESULTS

Project: Former Carpenter Mfg
Pace Project No.: 5081612

Sample: WB-9 **Lab ID: 5081612009** Collected: 06/06/13 14:00 Received: 06/06/13 18:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		06/17/13 21:57	67-64-1	
Acrolein	ND	ug/L	50.0	1		06/17/13 21:57	107-02-8	
Acrylonitrile	ND	ug/L	100	1		06/17/13 21:57	107-13-1	
Benzene	ND	ug/L	5.0	1		06/17/13 21:57	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		06/17/13 21:57	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		06/17/13 21:57	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		06/17/13 21:57	75-27-4	
Bromoform	ND	ug/L	5.0	1		06/17/13 21:57	75-25-2	
Bromomethane	ND	ug/L	5.0	1		06/17/13 21:57	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		06/17/13 21:57	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		06/17/13 21:57	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		06/17/13 21:57	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		06/17/13 21:57	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		06/17/13 21:57	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		06/17/13 21:57	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		06/17/13 21:57	108-90-7	
Chloroethane	ND	ug/L	5.0	1		06/17/13 21:57	75-00-3	
Chloroform	ND	ug/L	5.0	1		06/17/13 21:57	67-66-3	
Chloromethane	ND	ug/L	5.0	1		06/17/13 21:57	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		06/17/13 21:57	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		06/17/13 21:57	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		06/17/13 21:57	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		06/17/13 21:57	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		06/17/13 21:57	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		06/17/13 21:57	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		06/17/13 21:57	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		06/17/13 21:57	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		06/17/13 21:57	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		06/17/13 21:57	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		06/17/13 21:57	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		06/17/13 21:57	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		06/17/13 21:57	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		06/17/13 21:57	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		06/17/13 21:57	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		06/17/13 21:57	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		06/17/13 21:57	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		06/17/13 21:57	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		06/17/13 21:57	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		06/17/13 21:57	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		06/17/13 21:57	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		06/17/13 21:57	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		06/17/13 21:57	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		06/17/13 21:57	87-68-3	
n-Hexane	ND	ug/L	5.0	1		06/17/13 21:57	110-54-3	N2
2-Hexanone	ND	ug/L	25.0	1		06/17/13 21:57	591-78-6	
Iodomethane	ND	ug/L	10.0	1		06/17/13 21:57	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		06/17/13 21:57	98-82-8	

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ANALYTICAL RESULTS

Project: Former Carpenter Mfg
Pace Project No.: 5081612

Sample: WB-9 **Lab ID: 5081612009** Collected: 06/06/13 14:00 Received: 06/06/13 18:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
p-Isopropyltoluene	ND	ug/L	5.0	1		06/17/13 21:57	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		06/17/13 21:57	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		06/17/13 21:57	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		06/17/13 21:57	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		06/17/13 21:57	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		06/17/13 21:57	103-65-1	
Styrene	ND	ug/L	5.0	1		06/17/13 21:57	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		06/17/13 21:57	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		06/17/13 21:57	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		06/17/13 21:57	127-18-4	
Toluene	ND	ug/L	5.0	1		06/17/13 21:57	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		06/17/13 21:57	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		06/17/13 21:57	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		06/17/13 21:57	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		06/17/13 21:57	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		06/17/13 21:57	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		06/17/13 21:57	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		06/17/13 21:57	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		06/17/13 21:57	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		06/17/13 21:57	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		06/17/13 21:57	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		06/17/13 21:57	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		06/17/13 21:57	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	101	%.	79-116	1		06/17/13 21:57	1868-53-7	
4-Bromofluorobenzene (S)	96	%.	80-114	1		06/17/13 21:57	460-00-4	
Toluene-d8 (S)	101	%.	81-110	1		06/17/13 21:57	2037-26-5	

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ANALYTICAL RESULTS

Project: Former Carpenter Mfg
Pace Project No.: 5081612

Sample: Field Dup **Lab ID: 5081612010** Collected: 06/06/13 14:30 Received: 06/06/13 18:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		06/17/13 22:30	67-64-1	
Acrolein	ND	ug/L	50.0	1		06/17/13 22:30	107-02-8	
Acrylonitrile	ND	ug/L	100	1		06/17/13 22:30	107-13-1	
Benzene	ND	ug/L	5.0	1		06/17/13 22:30	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		06/17/13 22:30	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		06/17/13 22:30	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		06/17/13 22:30	75-27-4	
Bromoform	ND	ug/L	5.0	1		06/17/13 22:30	75-25-2	
Bromomethane	ND	ug/L	5.0	1		06/17/13 22:30	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		06/17/13 22:30	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		06/17/13 22:30	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		06/17/13 22:30	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		06/17/13 22:30	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		06/17/13 22:30	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		06/17/13 22:30	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		06/17/13 22:30	108-90-7	
Chloroethane	ND	ug/L	5.0	1		06/17/13 22:30	75-00-3	
Chloroform	ND	ug/L	5.0	1		06/17/13 22:30	67-66-3	
Chloromethane	ND	ug/L	5.0	1		06/17/13 22:30	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		06/17/13 22:30	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		06/17/13 22:30	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		06/17/13 22:30	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		06/17/13 22:30	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		06/17/13 22:30	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		06/17/13 22:30	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		06/17/13 22:30	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		06/17/13 22:30	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		06/17/13 22:30	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		06/17/13 22:30	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		06/17/13 22:30	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		06/17/13 22:30	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		06/17/13 22:30	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		06/17/13 22:30	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		06/17/13 22:30	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		06/17/13 22:30	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		06/17/13 22:30	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		06/17/13 22:30	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		06/17/13 22:30	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		06/17/13 22:30	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		06/17/13 22:30	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		06/17/13 22:30	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		06/17/13 22:30	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		06/17/13 22:30	87-68-3	
n-Hexane	ND	ug/L	5.0	1		06/17/13 22:30	110-54-3	N2
2-Hexanone	ND	ug/L	25.0	1		06/17/13 22:30	591-78-6	
Iodomethane	ND	ug/L	10.0	1		06/17/13 22:30	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		06/17/13 22:30	98-82-8	

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ANALYTICAL RESULTS

Project: Former Carpenter Mfg
Pace Project No.: 5081612

Sample: Field Dup **Lab ID: 5081612010** Collected: 06/06/13 14:30 Received: 06/06/13 18:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
p-Isopropyltoluene	ND	ug/L	5.0	1		06/17/13 22:30	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		06/17/13 22:30	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		06/17/13 22:30	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		06/17/13 22:30	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		06/17/13 22:30	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		06/17/13 22:30	103-65-1	
Styrene	ND	ug/L	5.0	1		06/17/13 22:30	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		06/17/13 22:30	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		06/17/13 22:30	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		06/17/13 22:30	127-18-4	
Toluene	ND	ug/L	5.0	1		06/17/13 22:30	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		06/17/13 22:30	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		06/17/13 22:30	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		06/17/13 22:30	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		06/17/13 22:30	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		06/17/13 22:30	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		06/17/13 22:30	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		06/17/13 22:30	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		06/17/13 22:30	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		06/17/13 22:30	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		06/17/13 22:30	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		06/17/13 22:30	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		06/17/13 22:30	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	99	%.	79-116	1		06/17/13 22:30	1868-53-7	
4-Bromofluorobenzene (S)	95	%.	80-114	1		06/17/13 22:30	460-00-4	
Toluene-d8 (S)	99	%.	81-110	1		06/17/13 22:30	2037-26-5	

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7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: Former Carpenter Mfg
Pace Project No.: 5081612

Sample: Equip Blank **Lab ID: 5081612011** Collected: 06/06/13 10:15 Received: 06/06/13 18:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		06/18/13 01:47	67-64-1	
Acrolein	ND	ug/L	50.0	1		06/18/13 01:47	107-02-8	
Acrylonitrile	ND	ug/L	100	1		06/18/13 01:47	107-13-1	
Benzene	ND	ug/L	5.0	1		06/18/13 01:47	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		06/18/13 01:47	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		06/18/13 01:47	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		06/18/13 01:47	75-27-4	
Bromoform	ND	ug/L	5.0	1		06/18/13 01:47	75-25-2	
Bromomethane	ND	ug/L	5.0	1		06/18/13 01:47	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		06/18/13 01:47	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		06/18/13 01:47	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		06/18/13 01:47	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		06/18/13 01:47	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		06/18/13 01:47	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		06/18/13 01:47	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		06/18/13 01:47	108-90-7	
Chloroethane	ND	ug/L	5.0	1		06/18/13 01:47	75-00-3	
Chloroform	ND	ug/L	5.0	1		06/18/13 01:47	67-66-3	
Chloromethane	ND	ug/L	5.0	1		06/18/13 01:47	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		06/18/13 01:47	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		06/18/13 01:47	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		06/18/13 01:47	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		06/18/13 01:47	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		06/18/13 01:47	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		06/18/13 01:47	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		06/18/13 01:47	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		06/18/13 01:47	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		06/18/13 01:47	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		06/18/13 01:47	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		06/18/13 01:47	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		06/18/13 01:47	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		06/18/13 01:47	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		06/18/13 01:47	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		06/18/13 01:47	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		06/18/13 01:47	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		06/18/13 01:47	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		06/18/13 01:47	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		06/18/13 01:47	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		06/18/13 01:47	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		06/18/13 01:47	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		06/18/13 01:47	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		06/18/13 01:47	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		06/18/13 01:47	87-68-3	
n-Hexane	ND	ug/L	5.0	1		06/18/13 01:47	110-54-3	N2
2-Hexanone	ND	ug/L	25.0	1		06/18/13 01:47	591-78-6	
Iodomethane	ND	ug/L	10.0	1		06/18/13 01:47	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		06/18/13 01:47	98-82-8	

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ANALYTICAL RESULTS

Project: Former Carpenter Mfg
Pace Project No.: 5081612

Sample: Equip Blank **Lab ID: 5081612011** Collected: 06/06/13 10:15 Received: 06/06/13 18:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
p-Isopropyltoluene	ND	ug/L	5.0	1		06/18/13 01:47	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		06/18/13 01:47	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		06/18/13 01:47	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		06/18/13 01:47	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		06/18/13 01:47	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		06/18/13 01:47	103-65-1	
Styrene	ND	ug/L	5.0	1		06/18/13 01:47	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		06/18/13 01:47	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		06/18/13 01:47	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		06/18/13 01:47	127-18-4	
Toluene	ND	ug/L	5.0	1		06/18/13 01:47	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		06/18/13 01:47	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		06/18/13 01:47	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		06/18/13 01:47	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		06/18/13 01:47	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		06/18/13 01:47	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		06/18/13 01:47	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		06/18/13 01:47	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		06/18/13 01:47	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		06/18/13 01:47	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		06/18/13 01:47	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		06/18/13 01:47	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		06/18/13 01:47	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	100	%.	79-116	1		06/18/13 01:47	1868-53-7	
4-Bromofluorobenzene (S)	97	%.	80-114	1		06/18/13 01:47	460-00-4	
Toluene-d8 (S)	99	%.	81-110	1		06/18/13 01:47	2037-26-5	

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ANALYTICAL RESULTS

Project: Former Carpenter Mfg
Pace Project No.: 5081612

Sample: Trip Blank **Lab ID: 5081612013** Collected: 06/06/13 08:00 Received: 06/06/13 18:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		06/18/13 02:20	67-64-1	
Acrolein	ND	ug/L	50.0	1		06/18/13 02:20	107-02-8	
Acrylonitrile	ND	ug/L	100	1		06/18/13 02:20	107-13-1	
Benzene	ND	ug/L	5.0	1		06/18/13 02:20	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		06/18/13 02:20	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		06/18/13 02:20	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		06/18/13 02:20	75-27-4	
Bromoform	ND	ug/L	5.0	1		06/18/13 02:20	75-25-2	
Bromomethane	ND	ug/L	5.0	1		06/18/13 02:20	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		06/18/13 02:20	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		06/18/13 02:20	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		06/18/13 02:20	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		06/18/13 02:20	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		06/18/13 02:20	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		06/18/13 02:20	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		06/18/13 02:20	108-90-7	
Chloroethane	ND	ug/L	5.0	1		06/18/13 02:20	75-00-3	
Chloroform	ND	ug/L	5.0	1		06/18/13 02:20	67-66-3	
Chloromethane	ND	ug/L	5.0	1		06/18/13 02:20	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		06/18/13 02:20	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		06/18/13 02:20	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		06/18/13 02:20	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		06/18/13 02:20	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		06/18/13 02:20	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		06/18/13 02:20	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		06/18/13 02:20	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		06/18/13 02:20	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		06/18/13 02:20	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		06/18/13 02:20	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		06/18/13 02:20	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		06/18/13 02:20	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		06/18/13 02:20	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		06/18/13 02:20	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		06/18/13 02:20	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		06/18/13 02:20	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		06/18/13 02:20	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		06/18/13 02:20	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		06/18/13 02:20	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		06/18/13 02:20	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		06/18/13 02:20	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		06/18/13 02:20	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		06/18/13 02:20	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		06/18/13 02:20	87-68-3	
n-Hexane	ND	ug/L	5.0	1		06/18/13 02:20	110-54-3	N2
2-Hexanone	ND	ug/L	25.0	1		06/18/13 02:20	591-78-6	
Iodomethane	ND	ug/L	10.0	1		06/18/13 02:20	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		06/18/13 02:20	98-82-8	

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ANALYTICAL RESULTS

Project: Former Carpenter Mfg
Pace Project No.: 5081612

Sample: Trip Blank **Lab ID: 5081612013** Collected: 06/06/13 08:00 Received: 06/06/13 18:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
p-Isopropyltoluene	ND	ug/L	5.0	1		06/18/13 02:20	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		06/18/13 02:20	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		06/18/13 02:20	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		06/18/13 02:20	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		06/18/13 02:20	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		06/18/13 02:20	103-65-1	
Styrene	ND	ug/L	5.0	1		06/18/13 02:20	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		06/18/13 02:20	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		06/18/13 02:20	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		06/18/13 02:20	127-18-4	
Toluene	ND	ug/L	5.0	1		06/18/13 02:20	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		06/18/13 02:20	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		06/18/13 02:20	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		06/18/13 02:20	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		06/18/13 02:20	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		06/18/13 02:20	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		06/18/13 02:20	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		06/18/13 02:20	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		06/18/13 02:20	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		06/18/13 02:20	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		06/18/13 02:20	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		06/18/13 02:20	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		06/18/13 02:20	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	100	%.	79-116	1		06/18/13 02:20	1868-53-7	
4-Bromofluorobenzene (S)	96	%.	80-114	1		06/18/13 02:20	460-00-4	
Toluene-d8 (S)	100	%.	81-110	1		06/18/13 02:20	2037-26-5	

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QUALITY CONTROL DATA

Project: Former Carpenter Mfg
Pace Project No.: 5081612

QC Batch: MSV/54298 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 5081612001, 5081612002, 5081612003, 5081612004, 5081612005, 5081612006, 5081612007, 5081612008, 5081612009, 5081612010

METHOD BLANK: 933251 Matrix: Water
Associated Lab Samples: 5081612001, 5081612002, 5081612003, 5081612004, 5081612005, 5081612006, 5081612007, 5081612008, 5081612009, 5081612010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	06/17/13 12:37	
1,1,1-Trichloroethane	ug/L	ND	5.0	06/17/13 12:37	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	06/17/13 12:37	
1,1,2-Trichloroethane	ug/L	ND	5.0	06/17/13 12:37	
1,1-Dichloroethane	ug/L	ND	5.0	06/17/13 12:37	
1,1-Dichloroethene	ug/L	ND	5.0	06/17/13 12:37	
1,1-Dichloropropene	ug/L	ND	5.0	06/17/13 12:37	
1,2,3-Trichlorobenzene	ug/L	ND	5.0	06/17/13 12:37	
1,2,3-Trichloropropane	ug/L	ND	5.0	06/17/13 12:37	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	06/17/13 12:37	
1,2,4-Trimethylbenzene	ug/L	ND	5.0	06/17/13 12:37	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	06/17/13 12:37	
1,2-Dichlorobenzene	ug/L	ND	5.0	06/17/13 12:37	
1,2-Dichloroethane	ug/L	ND	5.0	06/17/13 12:37	
1,2-Dichloropropane	ug/L	ND	5.0	06/17/13 12:37	
1,3,5-Trimethylbenzene	ug/L	ND	5.0	06/17/13 12:37	
1,3-Dichlorobenzene	ug/L	ND	5.0	06/17/13 12:37	
1,3-Dichloropropane	ug/L	ND	5.0	06/17/13 12:37	
1,4-Dichlorobenzene	ug/L	ND	5.0	06/17/13 12:37	
2,2-Dichloropropane	ug/L	ND	5.0	06/17/13 12:37	
2-Butanone (MEK)	ug/L	ND	25.0	06/17/13 12:37	
2-Chlorotoluene	ug/L	ND	5.0	06/17/13 12:37	
2-Hexanone	ug/L	ND	25.0	06/17/13 12:37	
4-Chlorotoluene	ug/L	ND	5.0	06/17/13 12:37	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25.0	06/17/13 12:37	
Acetone	ug/L	ND	100	06/17/13 12:37	
Acrolein	ug/L	ND	50.0	06/17/13 12:37	
Acrylonitrile	ug/L	ND	100	06/17/13 12:37	
Benzene	ug/L	ND	5.0	06/17/13 12:37	
Bromobenzene	ug/L	ND	5.0	06/17/13 12:37	
Bromochloromethane	ug/L	ND	5.0	06/17/13 12:37	
Bromodichloromethane	ug/L	ND	5.0	06/17/13 12:37	
Bromoform	ug/L	ND	5.0	06/17/13 12:37	
Bromomethane	ug/L	ND	5.0	06/17/13 12:37	
Carbon disulfide	ug/L	ND	10.0	06/17/13 12:37	
Carbon tetrachloride	ug/L	ND	5.0	06/17/13 12:37	
Chlorobenzene	ug/L	ND	5.0	06/17/13 12:37	
Chloroethane	ug/L	ND	5.0	06/17/13 12:37	
Chloroform	ug/L	ND	5.0	06/17/13 12:37	
Chloromethane	ug/L	ND	5.0	06/17/13 12:37	
cis-1,2-Dichloroethene	ug/L	ND	5.0	06/17/13 12:37	

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QUALITY CONTROL DATA

Project: Former Carpenter Mfg
Pace Project No.: 5081612

METHOD BLANK: 933251 Matrix: Water

Associated Lab Samples: 5081612001, 5081612002, 5081612003, 5081612004, 5081612005, 5081612006, 5081612007, 5081612008, 5081612009, 5081612010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,3-Dichloropropene	ug/L	ND	5.0	06/17/13 12:37	
Dibromochloromethane	ug/L	ND	5.0	06/17/13 12:37	
Dibromomethane	ug/L	ND	5.0	06/17/13 12:37	
Dichlorodifluoromethane	ug/L	ND	5.0	06/17/13 12:37	
Ethyl methacrylate	ug/L	ND	100	06/17/13 12:37	
Ethylbenzene	ug/L	ND	5.0	06/17/13 12:37	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	06/17/13 12:37	
Iodomethane	ug/L	ND	10.0	06/17/13 12:37	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	06/17/13 12:37	
Methyl-tert-butyl ether	ug/L	ND	4.0	06/17/13 12:37	
Methylene Chloride	ug/L	ND	5.0	06/17/13 12:37	
n-Butylbenzene	ug/L	ND	5.0	06/17/13 12:37	
n-Hexane	ug/L	ND	5.0	06/17/13 12:37	N2
n-Propylbenzene	ug/L	ND	5.0	06/17/13 12:37	
Naphthalene	ug/L	ND	5.0	06/17/13 12:37	
p-Isopropyltoluene	ug/L	ND	5.0	06/17/13 12:37	
sec-Butylbenzene	ug/L	ND	5.0	06/17/13 12:37	
Styrene	ug/L	ND	5.0	06/17/13 12:37	
tert-Butylbenzene	ug/L	ND	5.0	06/17/13 12:37	
Tetrachloroethene	ug/L	ND	5.0	06/17/13 12:37	
Toluene	ug/L	ND	5.0	06/17/13 12:37	
trans-1,2-Dichloroethene	ug/L	ND	5.0	06/17/13 12:37	
trans-1,3-Dichloropropene	ug/L	ND	5.0	06/17/13 12:37	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	06/17/13 12:37	
Trichloroethene	ug/L	ND	5.0	06/17/13 12:37	
Trichlorofluoromethane	ug/L	ND	5.0	06/17/13 12:37	
Vinyl acetate	ug/L	ND	50.0	06/17/13 12:37	
Vinyl chloride	ug/L	ND	2.0	06/17/13 12:37	
Xylene (Total)	ug/L	ND	10.0	06/17/13 12:37	
4-Bromofluorobenzene (S)	%.	97	80-114	06/17/13 12:37	
Dibromofluoromethane (S)	%.	105	79-116	06/17/13 12:37	
Toluene-d8 (S)	%.	101	81-110	06/17/13 12:37	

LABORATORY CONTROL SAMPLE: 933252

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	51.3	103	61-135	
1,1,1-Trichloroethane	ug/L	50	49.8	100	71-129	
1,1,2,2-Tetrachloroethane	ug/L	50	49.1	98	66-126	
1,1,2-Trichloroethane	ug/L	50	53.4	107	77-130	
1,1-Dichloroethane	ug/L	50	44.9	90	75-130	
1,1-Dichloroethene	ug/L	50	42.6	85	68-127	
1,1-Dichloropropene	ug/L	50	44.7	89	78-130	
1,2,3-Trichlorobenzene	ug/L	50	45.9	92	70-130	

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QUALITY CONTROL DATA

Project: Former Carpenter Mfg
Pace Project No.: 5081612

LABORATORY CONTROL SAMPLE: 933252

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,3-Trichloropropane	ug/L	50	44.9	90	58-142	
1,2,4-Trichlorobenzene	ug/L	50	48.7	97	68-131	
1,2,4-Trimethylbenzene	ug/L	50	49.3	99	69-127	
1,2-Dibromoethane (EDB)	ug/L	50	58.4	117	76-125	
1,2-Dichlorobenzene	ug/L	50	50.6	101	75-123	
1,2-Dichloroethane	ug/L	50	45.1	90	75-128	
1,2-Dichloropropane	ug/L	50	42.9	86	74-121	
1,3,5-Trimethylbenzene	ug/L	50	49.2	98	70-126	
1,3-Dichlorobenzene	ug/L	50	49.8	100	74-122	
1,3-Dichloropropane	ug/L	50	47.5	95	74-123	
1,4-Dichlorobenzene	ug/L	50	49.9	100	76-120	
2,2-Dichloropropane	ug/L	50	55.9	112	50-137	
2-Butanone (MEK)	ug/L	250	209	83	58-139	
2-Chlorotoluene	ug/L	50	49.3	99	74-122	
2-Hexanone	ug/L	250	261	104	54-140	
4-Chlorotoluene	ug/L	50	52.1	104	77-123	
4-Methyl-2-pentanone (MIBK)	ug/L	250	253	101	58-138	
Acetone	ug/L	250	248	99	49-150	
Acrolein	ug/L	1000	411	41	41-200	
Acrylonitrile	ug/L	1000	797	80	63-137	
Benzene	ug/L	50	43.3	87	74-122	
Bromobenzene	ug/L	50	49.1	98	72-127	
Bromochloromethane	ug/L	50	41.1	82	63-132	
Bromodichloromethane	ug/L	50	45.9	92	62-136	
Bromoform	ug/L	50	49.6	99	44-134	
Bromomethane	ug/L	50	34.4	69	22-181	
Carbon disulfide	ug/L	100	91.1	91	59-132	
Carbon tetrachloride	ug/L	50	49.7	99	56-137	
Chlorobenzene	ug/L	50	50.6	101	78-123	
Chloroethane	ug/L	50	41.8	84	60-144	
Chloroform	ug/L	50	46.7	93	78-126	
Chloromethane	ug/L	50	29.5	59	42-134	
cis-1,2-Dichloroethene	ug/L	50	45.2	90	75-122	
cis-1,3-Dichloropropene	ug/L	50	47.9	96	64-126	
Dibromochloromethane	ug/L	50	52.5	105	58-128	
Dibromomethane	ug/L	50	47.3	95	73-125	
Dichlorodifluoromethane	ug/L	50	54.0	108	35-181	
Ethyl methacrylate	ug/L	200	196	98	69-133	
Ethylbenzene	ug/L	50	49.5	99	66-133	
Hexachloro-1,3-butadiene	ug/L	50	48.7	97	59-145	
Iodomethane	ug/L	100	48.6	49	21-170	
Isopropylbenzene (Cumene)	ug/L	50	54.2	108	69-124	
Methyl-tert-butyl ether	ug/L	100	92.3	92	69-122	
Methylene Chloride	ug/L	50	44.0	88	68-132	
n-Butylbenzene	ug/L	50	49.3	99	70-126	
n-Hexane	ug/L	50	42.8	86	51-125	N2
n-Propylbenzene	ug/L	50	48.7	97	71-122	
Naphthalene	ug/L	50	42.1	84	68-127	

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QUALITY CONTROL DATA

Project: Former Carpenter Mfg
Pace Project No.: 5081612

LABORATORY CONTROL SAMPLE: 933252

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
p-Isopropyltoluene	ug/L	50	51.3	103	72-132	
sec-Butylbenzene	ug/L	50	51.5	103	70-128	
Styrene	ug/L	50	51.9	104	74-126	
tert-Butylbenzene	ug/L	50	45.7	91	51-118	
Tetrachloroethene	ug/L	50	50.5	101	69-130	
Toluene	ug/L	50	51.1	102	72-122	
trans-1,2-Dichloroethene	ug/L	50	45.9	92	72-124	
trans-1,3-Dichloropropene	ug/L	50	47.9	96	64-121	
trans-1,4-Dichloro-2-butene	ug/L	200	254	127	56-133	
Trichloroethene	ug/L	50	46.9	94	76-126	
Trichlorofluoromethane	ug/L	50	43.3	87	76-149	
Vinyl acetate	ug/L	200	165	82	70-130	
Vinyl chloride	ug/L	50	32.8	66	59-126	
Xylene (Total)	ug/L	150	155	103	70-124	
4-Bromofluorobenzene (S)	%.			103	80-114	
Dibromofluoromethane (S)	%.			96	79-116	
Toluene-d8 (S)	%.			105	81-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 933253 933254

Parameter	Units	5081612006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	50	50	50.7	49.4	101	99	50-132	3	20	
1,1,1-Trichloroethane	ug/L	ND	50	50	52.8	52.2	106	104	60-138	1	20	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	50	47.8	48.5	96	97	55-128	1	20	
1,1,2-Trichloroethane	ug/L	ND	50	50	53.1	52.7	106	105	61-139	1	20	
1,1-Dichloroethane	ug/L	ND	50	50	49.7	49.6	99	99	57-147	0	20	
1,1-Dichloroethene	ug/L	ND	50	50	50.6	48.9	101	98	55-145	4	20	
1,1-Dichloropropene	ug/L	ND	50	50	50.7	48.8	101	98	55-147	4	20	
1,2,3-Trichlorobenzene	ug/L	ND	50	50	43.7	43.4	87	87	31-141	1	20	
1,2,3-Trichloropropane	ug/L	ND	50	50	45.3	45.4	91	91	58-133	0	20	
1,2,4-Trichlorobenzene	ug/L	ND	50	50	46.6	46.0	93	92	25-143	1	20	
1,2,4-Trimethylbenzene	ug/L	ND	50	50	48.8	47.5	98	95	18-149	3	20	
1,2-Dibromoethane (EDB)	ug/L	ND	50	50	57.9	56.7	116	113	63-129	2	20	
1,2-Dichlorobenzene	ug/L	ND	50	50	49.8	48.5	100	97	38-136	2	20	
1,2-Dichloroethane	ug/L	ND	50	50	48.2	47.8	96	96	62-138	1	20	
1,2-Dichloropropane	ug/L	ND	50	50	45.1	44.0	90	88	59-130	3	20	
1,3,5-Trimethylbenzene	ug/L	ND	50	50	48.6	47.7	97	95	20-147	2	20	
1,3-Dichlorobenzene	ug/L	ND	50	50	48.4	47.4	97	95	28-141	2	20	
1,3-Dichloropropane	ug/L	ND	50	50	46.8	46.7	94	93	62-127	0	20	
1,4-Dichlorobenzene	ug/L	ND	50	50	47.8	48.0	96	96	30-139	0	20	
2,2-Dichloropropane	ug/L	ND	50	50	52.3	52.4	105	105	37-139	0	20	
2-Butanone (MEK)	ug/L	ND	250	250	214	211	85	84	37-156	1	20	
2-Chlorotoluene	ug/L	ND	50	50	49.2	48.3	98	97	27-142	2	20	
2-Hexanone	ug/L	ND	250	250	245	245	98	98	44-143	0	20	
4-Chlorotoluene	ug/L	ND	50	50	51.1	49.6	102	99	27-144	3	20	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	250	250	243	245	97	98	46-144	1	20	

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QUALITY CONTROL DATA

Project: Former Carpenter Mfg
Pace Project No.: 5081612

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 933253 933254

Parameter	Units	5081612006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Acetone	ug/L	ND	250	250	221	223	88	89	39-156	1	20	
Acrolein	ug/L	ND	1000	1000	1020	1010	102	101	33-200	1	20	
Acrylonitrile	ug/L	ND	1000	1000	859	849	86	85	48-149	1	20	
Benzene	ug/L	ND	50	50	47.7	46.6	95	93	62-129	2	20	
Bromobenzene	ug/L	ND	50	50	47.9	46.7	96	93	39-140	3	20	
Bromochloromethane	ug/L	ND	50	50	44.9	41.6	90	83	49-142	8	20	
Bromodichloromethane	ug/L	ND	50	50	47.4	46.5	95	93	50-142	2	20	
Bromoform	ug/L	ND	50	50	48.4	49.9	97	100	36-125	3	20	
Bromomethane	ug/L	ND	50	50	32.0	35.3	64	71	13-179	10	20	
Carbon disulfide	ug/L	ND	100	100	107	104	107	104	45-142	3	20	
Carbon tetrachloride	ug/L	ND	50	50	52.5	52.6	105	105	46-142	0	20	
Chlorobenzene	ug/L	ND	50	50	50.1	49.4	100	99	49-136	1	20	
Chloroethane	ug/L	ND	50	50	46.5	46.5	93	93	47-160	0	20	
Chloroform	ug/L	ND	50	50	50.1	49.3	100	99	54-150	2	20	
Chloromethane	ug/L	ND	50	50	37.7	36.9	75	74	30-148	2	20	
cis-1,2-Dichloroethene	ug/L	ND	50	50	49.5	48.2	99	96	60-135	3	20	
cis-1,3-Dichloropropene	ug/L	ND	50	50	44.4	43.8	89	88	52-123	1	20	
Dibromochloromethane	ug/L	ND	50	50	50.8	50.8	102	102	48-125	0	20	
Dibromomethane	ug/L	ND	50	50	48.7	48.4	97	97	59-134	1	20	
Dichlorodifluoromethane	ug/L	ND	50	50	65.5	64.3	131	129	24-197	2	20	
Ethyl methacrylate	ug/L	ND	200	200	190	189	95	95	55-139	0	20	
Ethylbenzene	ug/L	ND	50	50	48.8	47.2	98	94	28-153	3	20	
Hexachloro-1,3-butadiene	ug/L	ND	50	50	47.6	45.8	95	92	10-176	4	20	
Iodomethane	ug/L	ND	100	100	31.5	50.8	31	51	17-157	47	20	R1
Isopropylbenzene (Cumene)	ug/L	ND	50	50	53.1	51.6	106	103	18-152	3	20	
Methyl-tert-butyl ether	ug/L	ND	100	100	95.5	96.6	95	97	63-130	1	20	
Methylene Chloride	ug/L	ND	50	50	47.6	46.8	95	94	45-156	2	20	
n-Butylbenzene	ug/L	ND	50	50	46.5	45.0	93	90	10-161	3	20	
n-Hexane	ug/L	ND	50	50	48.7	44.5	97	89	33-144	9	20	N2
n-Propylbenzene	ug/L	ND	50	50	48.6	47.6	97	95	16-150	2	20	
Naphthalene	ug/L	ND	50	50	41.1	40.6	82	81	39-140	1	20	
p-Isopropyltoluene	ug/L	ND	50	50	50.2	49.2	100	98	10-163	2	20	
sec-Butylbenzene	ug/L	ND	50	50	50.5	49.4	101	99	10-160	2	20	
Styrene	ug/L	ND	50	50	51.8	49.6	104	99	36-139	4	20	
tert-Butylbenzene	ug/L	ND	50	50	46.3	45.2	93	90	12-134	3	20	
Tetrachloroethene	ug/L	ND	50	50	50.5	48.8	101	98	33-151	3	20	
Toluene	ug/L	ND	50	50	50.3	49.0	101	98	50-132	3	20	
trans-1,2-Dichloroethene	ug/L	ND	50	50	52.2	49.4	104	99	40-153	6	20	
trans-1,3-Dichloropropene	ug/L	ND	50	50	43.5	44.3	87	89	48-122	2	20	
trans-1,4-Dichloro-2-butene	ug/L	ND	200	200	239	239	120	119	32-139	0	20	
Trichloroethene	ug/L	ND	50	50	49.2	48.2	98	96	50-143	2	20	
Trichlorofluoromethane	ug/L	ND	50	50	52.1	49.7	104	99	60-175	5	20	
Vinyl acetate	ug/L	ND	200	200	158	160	79	80	70-130	1	20	
Vinyl chloride	ug/L	ND	50	50	39.8	38.0	80	76	44-145	5	20	
Xylene (Total)	ug/L	ND	150	150	155	150	103	100	29-145	3	20	
4-Bromofluorobenzene (S)	%.						100	101	80-114			
Dibromofluoromethane (S)	%.						103	104	79-116			

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QUALITY CONTROL DATA

Project: Former Carpenter Mfg
Pace Project No.: 5081612

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 933253 933254

Parameter	Units	5081612006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Toluene-d8 (S)	%.						101	101	81-110			

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QUALITY CONTROL DATA

Project: Former Carpenter Mfg
Pace Project No.: 5081612

QC Batch: MSV/54314 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 5081612011, 5081612013

METHOD BLANK: 933395 Matrix: Water
Associated Lab Samples: 5081612011, 5081612013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	06/18/13 01:14	
1,1,1-Trichloroethane	ug/L	ND	5.0	06/18/13 01:14	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	06/18/13 01:14	
1,1,2-Trichloroethane	ug/L	ND	5.0	06/18/13 01:14	
1,1-Dichloroethane	ug/L	ND	5.0	06/18/13 01:14	
1,1-Dichloroethene	ug/L	ND	5.0	06/18/13 01:14	
1,1-Dichloropropene	ug/L	ND	5.0	06/18/13 01:14	
1,2,3-Trichlorobenzene	ug/L	ND	5.0	06/18/13 01:14	
1,2,3-Trichloropropane	ug/L	ND	5.0	06/18/13 01:14	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	06/18/13 01:14	
1,2,4-Trimethylbenzene	ug/L	ND	5.0	06/18/13 01:14	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	06/18/13 01:14	
1,2-Dichlorobenzene	ug/L	ND	5.0	06/18/13 01:14	
1,2-Dichloroethane	ug/L	ND	5.0	06/18/13 01:14	
1,2-Dichloropropane	ug/L	ND	5.0	06/18/13 01:14	
1,3,5-Trimethylbenzene	ug/L	ND	5.0	06/18/13 01:14	
1,3-Dichlorobenzene	ug/L	ND	5.0	06/18/13 01:14	
1,3-Dichloropropane	ug/L	ND	5.0	06/18/13 01:14	
1,4-Dichlorobenzene	ug/L	ND	5.0	06/18/13 01:14	
2,2-Dichloropropane	ug/L	ND	5.0	06/18/13 01:14	
2-Butanone (MEK)	ug/L	ND	25.0	06/18/13 01:14	
2-Chlorotoluene	ug/L	ND	5.0	06/18/13 01:14	
2-Hexanone	ug/L	ND	25.0	06/18/13 01:14	
4-Chlorotoluene	ug/L	ND	5.0	06/18/13 01:14	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25.0	06/18/13 01:14	
Acetone	ug/L	ND	100	06/18/13 01:14	
Acrolein	ug/L	ND	50.0	06/18/13 01:14	
Acrylonitrile	ug/L	ND	100	06/18/13 01:14	
Benzene	ug/L	ND	5.0	06/18/13 01:14	
Bromobenzene	ug/L	ND	5.0	06/18/13 01:14	
Bromochloromethane	ug/L	ND	5.0	06/18/13 01:14	
Bromodichloromethane	ug/L	ND	5.0	06/18/13 01:14	
Bromoform	ug/L	ND	5.0	06/18/13 01:14	
Bromomethane	ug/L	ND	5.0	06/18/13 01:14	
Carbon disulfide	ug/L	ND	10.0	06/18/13 01:14	
Carbon tetrachloride	ug/L	ND	5.0	06/18/13 01:14	
Chlorobenzene	ug/L	ND	5.0	06/18/13 01:14	
Chloroethane	ug/L	ND	5.0	06/18/13 01:14	
Chloroform	ug/L	ND	5.0	06/18/13 01:14	
Chloromethane	ug/L	ND	5.0	06/18/13 01:14	
cis-1,2-Dichloroethene	ug/L	ND	5.0	06/18/13 01:14	
cis-1,3-Dichloropropene	ug/L	ND	5.0	06/18/13 01:14	
Dibromochloromethane	ug/L	ND	5.0	06/18/13 01:14	

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QUALITY CONTROL DATA

Project: Former Carpenter Mfg
Pace Project No.: 5081612

METHOD BLANK: 933395 Matrix: Water

Associated Lab Samples: 5081612011, 5081612013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/L	ND	5.0	06/18/13 01:14	
Dichlorodifluoromethane	ug/L	ND	5.0	06/18/13 01:14	
Ethyl methacrylate	ug/L	ND	100	06/18/13 01:14	
Ethylbenzene	ug/L	ND	5.0	06/18/13 01:14	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	06/18/13 01:14	
Iodomethane	ug/L	ND	10.0	06/18/13 01:14	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	06/18/13 01:14	
Methyl-tert-butyl ether	ug/L	ND	4.0	06/18/13 01:14	
Methylene Chloride	ug/L	ND	5.0	06/18/13 01:14	
n-Butylbenzene	ug/L	ND	5.0	06/18/13 01:14	
n-Hexane	ug/L	ND	5.0	06/18/13 01:14	N2
n-Propylbenzene	ug/L	ND	5.0	06/18/13 01:14	
Naphthalene	ug/L	ND	5.0	06/18/13 01:14	
p-Isopropyltoluene	ug/L	ND	5.0	06/18/13 01:14	
sec-Butylbenzene	ug/L	ND	5.0	06/18/13 01:14	
Styrene	ug/L	ND	5.0	06/18/13 01:14	
tert-Butylbenzene	ug/L	ND	5.0	06/18/13 01:14	
Tetrachloroethene	ug/L	ND	5.0	06/18/13 01:14	
Toluene	ug/L	ND	5.0	06/18/13 01:14	
trans-1,2-Dichloroethene	ug/L	ND	5.0	06/18/13 01:14	
trans-1,3-Dichloropropene	ug/L	ND	5.0	06/18/13 01:14	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	06/18/13 01:14	
Trichloroethene	ug/L	ND	5.0	06/18/13 01:14	
Trichlorofluoromethane	ug/L	ND	5.0	06/18/13 01:14	
Vinyl acetate	ug/L	ND	50.0	06/18/13 01:14	
Vinyl chloride	ug/L	ND	2.0	06/18/13 01:14	
Xylene (Total)	ug/L	ND	10.0	06/18/13 01:14	
4-Bromofluorobenzene (S)	%.	96	80-114	06/18/13 01:14	
Dibromofluoromethane (S)	%.	102	79-116	06/18/13 01:14	
Toluene-d8 (S)	%.	98	81-110	06/18/13 01:14	

LABORATORY CONTROL SAMPLE: 933396

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	53.3	107	61-135	
1,1,1-Trichloroethane	ug/L	50	51.2	102	71-129	
1,1,2,2-Tetrachloroethane	ug/L	50	52.9	106	66-126	
1,1,2-Trichloroethane	ug/L	50	59.3	119	77-130	
1,1-Dichloroethane	ug/L	50	50.4	101	75-130	
1,1-Dichloroethene	ug/L	50	47.4	95	68-127	
1,1-Dichloropropene	ug/L	50	48.8	98	78-130	
1,2,3-Trichlorobenzene	ug/L	50	51.3	103	70-130	
1,2,3-Trichloropropane	ug/L	50	50.4	101	58-142	
1,2,4-Trichlorobenzene	ug/L	50	53.9	108	68-131	
1,2,4-Trimethylbenzene	ug/L	50	54.2	108	69-127	

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QUALITY CONTROL DATA

Project: Former Carpenter Mfg
Pace Project No.: 5081612

LABORATORY CONTROL SAMPLE: 933396

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	50	64.3	129	76-125	L3
1,2-Dichlorobenzene	ug/L	50	56.2	112	75-123	
1,2-Dichloroethane	ug/L	50	50.2	100	75-128	
1,2-Dichloropropane	ug/L	50	47.1	94	74-121	
1,3,5-Trimethylbenzene	ug/L	50	53.5	107	70-126	
1,3-Dichlorobenzene	ug/L	50	54.5	109	74-122	
1,3-Dichloropropane	ug/L	50	51.6	103	74-123	
1,4-Dichlorobenzene	ug/L	50	54.9	110	76-120	
2,2-Dichloropropane	ug/L	50	43.3	87	50-137	
2-Butanone (MEK)	ug/L	250	235	94	58-139	
2-Chlorotoluene	ug/L	50	54.4	109	74-122	
2-Hexanone	ug/L	250	285	114	54-140	
4-Chlorotoluene	ug/L	50	57.0	114	77-123	
4-Methyl-2-pentanone (MIBK)	ug/L	250	288	115	58-138	
Acetone	ug/L	250	259	104	49-150	
Acrolein	ug/L	1000	487	49	41-200	
Acrylonitrile	ug/L	1000	934	93	63-137	
Benzene	ug/L	50	48.4	97	74-122	
Bromobenzene	ug/L	50	53.3	107	72-127	
Bromochloromethane	ug/L	50	44.1	88	63-132	
Bromodichloromethane	ug/L	50	48.4	97	62-136	
Bromoform	ug/L	50	51.0	102	44-134	
Bromomethane	ug/L	50	35.6	71	22-181	
Carbon disulfide	ug/L	100	102	102	59-132	
Carbon tetrachloride	ug/L	50	48.8	98	56-137	
Chlorobenzene	ug/L	50	55.2	110	78-123	
Chloroethane	ug/L	50	46.5	93	60-144	
Chloroform	ug/L	50	51.5	103	78-126	
Chloromethane	ug/L	50	37.1	74	42-134	
cis-1,2-Dichloroethene	ug/L	50	50.8	102	75-122	
cis-1,3-Dichloropropene	ug/L	50	48.2	96	64-126	
Dibromochloromethane	ug/L	50	54.3	109	58-128	
Dibromomethane	ug/L	50	53.0	106	73-125	
Dichlorodifluoromethane	ug/L	50	55.4	111	35-181	
Ethyl methacrylate	ug/L	200	219	109	69-133	
Ethylbenzene	ug/L	50	53.6	107	66-133	
Hexachloro-1,3-butadiene	ug/L	50	53.8	108	59-145	
Iodomethane	ug/L	100	57.2	57	21-170	
Isopropylbenzene (Cumene)	ug/L	50	57.4	115	69-124	
Methyl-tert-butyl ether	ug/L	100	102	102	69-122	
Methylene Chloride	ug/L	50	48.7	97	68-132	
n-Butylbenzene	ug/L	50	51.6	103	70-126	
n-Hexane	ug/L	50	40.2	80	51-125	N2
n-Propylbenzene	ug/L	50	52.8	106	71-122	
Naphthalene	ug/L	50	48.9	98	68-127	
p-Isopropyltoluene	ug/L	50	55.2	110	72-132	
sec-Butylbenzene	ug/L	50	55.3	111	70-128	
Styrene	ug/L	50	56.8	114	74-126	

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QUALITY CONTROL DATA

Project: Former Carpenter Mfg
Pace Project No.: 5081612

LABORATORY CONTROL SAMPLE: 933396

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butylbenzene	ug/L	50	50.7	101	51-118	
Tetrachloroethene	ug/L	50	55.3	111	69-130	
Toluene	ug/L	50	54.9	110	72-122	
trans-1,2-Dichloroethene	ug/L	50	51.2	102	72-124	
trans-1,3-Dichloropropene	ug/L	50	47.3	95	64-121	
trans-1,4-Dichloro-2-butene	ug/L	200	250	125	56-133	
Trichloroethene	ug/L	50	51.1	102	76-126	
Trichlorofluoromethane	ug/L	50	45.8	92	76-149	
Vinyl acetate	ug/L	200	181	90	70-130	
Vinyl chloride	ug/L	50	36.8	74	59-126	
Xylene (Total)	ug/L	150	169	113	70-124	
4-Bromofluorobenzene (S)	%.			99	80-114	
Dibromofluoromethane (S)	%.			97	79-116	
Toluene-d8 (S)	%.			103	81-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 933397 933398

Parameter	Units	5081695005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	50	50	41.3	47.1	83	94	50-132	13	20	
1,1,1-Trichloroethane	ug/L	ND	50	50	45.2	49.5	90	99	60-138	9	20	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	50	42.6	48.1	85	96	55-128	12	20	
1,1,2-Trichloroethane	ug/L	ND	50	50	47.2	52.8	94	106	61-139	11	20	
1,1-Dichloroethane	ug/L	ND	50	50	45.5	48.6	91	97	57-147	7	20	
1,1-Dichloroethene	ug/L	ND	50	50	45.9	49.6	92	99	55-145	8	20	
1,1-Dichloropropene	ug/L	ND	50	50	45.0	48.7	90	97	55-147	8	20	
1,2,3-Trichlorobenzene	ug/L	ND	50	50	35.5	39.9	71	80	31-141	12	20	
1,2,3-Trichloropropane	ug/L	ND	50	50	41.0	46.1	82	92	58-133	12	20	
1,2,4-Trichlorobenzene	ug/L	ND	50	50	37.4	41.7	75	83	25-143	11	20	
1,2,4-Trimethylbenzene	ug/L	ND	50	50	42.0	46.6	84	93	18-149	10	20	
1,2-Dibromoethane (EDB)	ug/L	ND	50	50	51.6	57.7	103	115	63-129	11	20	
1,2-Dichlorobenzene	ug/L	ND	50	50	43.6	48.6	87	97	38-136	11	20	
1,2-Dichloroethane	ug/L	ND	50	50	43.9	48.1	88	96	62-138	9	20	
1,2-Dichloropropane	ug/L	ND	50	50	40.8	43.1	82	86	59-130	5	20	
1,3,5-Trimethylbenzene	ug/L	ND	50	50	42.0	46.8	84	94	20-147	11	20	
1,3-Dichlorobenzene	ug/L	ND	50	50	41.2	45.8	82	92	28-141	11	20	
1,3-Dichloropropane	ug/L	ND	50	50	42.9	47.3	86	95	62-127	10	20	
1,4-Dichlorobenzene	ug/L	ND	50	50	42.0	46.2	84	92	30-139	9	20	
2,2-Dichloropropane	ug/L	ND	50	50	36.6	39.7	73	79	37-139	8	20	
2-Butanone (MEK)	ug/L	ND	250	250	193	214	77	86	37-156	11	20	
2-Chlorotoluene	ug/L	ND	50	50	42.8	48.1	86	96	27-142	12	20	
2-Hexanone	ug/L	ND	250	250	221	247	88	99	44-143	11	20	
4-Chlorotoluene	ug/L	ND	50	50	45.1	50.0	90	100	27-144	10	20	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	250	250	220	247	88	99	46-144	11	20	
Acetone	ug/L	ND	250	250	216	232	86	93	39-156	7	20	
Acrolein	ug/L	ND	1000	1000	860	943	86	94	33-200	9	20	
Acrylonitrile	ug/L	ND	1000	1000	793	867	79	87	48-149	9	20	

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QUALITY CONTROL DATA

Project: Former Carpenter Mfg
Pace Project No.: 5081612

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 933397 933398

Parameter	Units	5081695005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	ND	50	50	43.5	47.8	87	96	62-129	9	20	
Bromobenzene	ug/L	ND	50	50	41.7	46.4	83	93	39-140	11	20	
Bromochloromethane	ug/L	ND	50	50	42.6	42.9	85	86	49-142	1	20	
Bromodichloromethane	ug/L	ND	50	50	40.3	43.9	81	88	50-142	9	20	
Bromoform	ug/L	ND	50	50	39.0	43.6	78	87	36-125	11	20	
Bromomethane	ug/L	ND	50	50	33.6	40.2	67	80	13-179	18	20	
Carbon disulfide	ug/L	ND	100	100	95.4	102	95	102	45-142	7	20	
Carbon tetrachloride	ug/L	ND	50	50	42.1	45.8	84	92	46-142	8	20	
Chlorobenzene	ug/L	ND	50	50	45.3	50.1	91	100	49-136	10	20	
Chloroethane	ug/L	ND	50	50	44.9	48.8	90	98	47-160	8	20	
Chloroform	ug/L	ND	50	50	46.1	49.2	92	98	54-150	6	20	
Chloromethane	ug/L	ND	50	50	38.4	40.8	77	82	30-148	6	20	
cis-1,2-Dichloroethene	ug/L	ND	50	50	45.7	49.3	91	99	60-135	7	20	
cis-1,3-Dichloropropene	ug/L	ND	50	50	36.4	40.4	73	81	52-123	10	20	
Dibromochloromethane	ug/L	ND	50	50	42.2	47.2	84	94	48-125	11	20	
Dibromomethane	ug/L	ND	50	50	45.5	49.6	91	99	59-134	9	20	
Dichlorodifluoromethane	ug/L	ND	50	50	53.5	56.3	107	113	24-197	5	20	
Ethyl methacrylate	ug/L	ND	200	200	174	193	87	96	55-139	10	20	
Ethylbenzene	ug/L	ND	50	50	43.2	48.5	86	97	28-153	12	20	
Hexachloro-1,3-butadiene	ug/L	ND	50	50	36.2	39.8	72	80	10-176	9	20	
Iodomethane	ug/L	ND	100	100	49.5	67.5	49	68	17-157	31	20	R1
Isopropylbenzene (Cumene)	ug/L	ND	50	50	46.5	51.3	93	103	18-152	10	20	
Methyl-tert-butyl ether	ug/L	ND	100	100	88.6	97.5	89	97	63-130	10	20	
Methylene Chloride	ug/L	ND	50	50	43.7	48.6	87	97	45-156	11	20	
n-Butylbenzene	ug/L	ND	50	50	36.3	39.7	73	79	10-161	9	20	
n-Hexane	ug/L	ND	50	50	39.4	38.5	79	77	33-144	2	20	N2
n-Propylbenzene	ug/L	ND	50	50	41.4	46.0	83	92	16-150	11	20	
Naphthalene	ug/L	ND	50	50	35.2	40.1	70	80	39-140	13	20	
p-Isopropyltoluene	ug/L	ND	50	50	42.0	46.1	84	92	10-163	9	20	
sec-Butylbenzene	ug/L	ND	50	50	42.6	47.5	85	95	10-160	11	20	
Styrene	ug/L	ND	50	50	45.6	50.1	91	100	36-139	9	20	
tert-Butylbenzene	ug/L	ND	50	50	40.6	45.3	81	91	12-134	11	20	
Tetrachloroethene	ug/L	ND	50	50	44.4	48.3	89	97	33-151	9	20	
Toluene	ug/L	ND	50	50	45.2	49.8	90	100	50-132	10	20	
trans-1,2-Dichloroethene	ug/L	ND	50	50	47.3	50.2	95	100	40-153	6	20	
trans-1,3-Dichloropropene	ug/L	ND	50	50	35.4	39.5	71	79	48-122	11	20	
trans-1,4-Dichloro-2-butene	ug/L	ND	200	200	187	205	94	102	32-139	9	20	
Trichloroethene	ug/L	ND	50	50	45.8	48.8	92	98	50-143	6	20	
Trichlorofluoromethane	ug/L	ND	50	50	46.4	48.9	93	98	60-175	5	20	
Vinyl acetate	ug/L	ND	200	200	116	125	58	62	70-130	7	20	M0
Vinyl chloride	ug/L	ND	50	50	36.4	37.8	73	76	44-145	4	20	
Xylene (Total)	ug/L	ND	150	150	137	151	91	100	29-145	9	20	
4-Bromofluorobenzene (S)	%.						100	99	80-114			
Dibromofluoromethane (S)	%.						104	102	79-116			
Toluene-d8 (S)	%.						102	102	81-110			

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QUALIFIERS

Project: Former Carpenter Mfg
Pace Project No.: 5081612

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
N2	The lab does not hold TNI accreditation for this parameter.
R1	RPD value was outside control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Former Carpenter Mfg
Pace Project No.: 5081612

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
5081612001	**WB-1**	EPA 8260	MSV/54298		
5081612002	**WB-2**	EPA 8260	MSV/54298		
5081612003	**WB-3**	EPA 8260	MSV/54298		
5081612004	**WB-4**	EPA 8260	MSV/54298		
5081612005	**WB-5**	EPA 8260	MSV/54298		
5081612006	**WB-6**	EPA 8260	MSV/54298		
5081612007	**WB-7**	EPA 8260	MSV/54298		
5081612008	**WB-8**	EPA 8260	MSV/54298		
5081612009	**WB-9**	EPA 8260	MSV/54298		
5081612010	**Field Dup**	EPA 8260	MSV/54298		
5081612011	**Equip Blank**	EPA 8260	MSV/54314		
5081612013	**Trip Blank**	EPA 8260	MSV/54314		

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1661741

Section A Required Client Information:

Company: Weaver Boos Consultants
Address: 4085 Meadow Brook Ct South Bend, IN 46628
gbaker@weaverboos.com
Email To: SSTanford@weaverboos.com
Phone: 574-271-3447 Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To: Steven S Tanford
Copy To: Grant Baker
Purchase Order No.:
Project Name: Former Carpenter Mfg
Project Number: 2339-353-03

Section C Invoice Information:

Attention: Kyle Cable
Company Name: Pace Analytical
Address: 7726 Moller Rd
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

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

Site Location STATE: IN

Section D Required Client Information

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

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

Requested Analysis Filtered (Y/N): Analysis Test: Lead

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start DATE	Composite Start TIME	Composite End/Grab DATE	Composite End/Grab TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test: Lead	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 5081612
1	WB-1	WT	G			6-6-13	1500		3				3					X		-001
2	WB-2						1125													-002
3	WB-3						0835													-003
4	WB-4						0900													-004
5	WB-5						1430													-005
6	WB-6						0940													-006
7	WB-7						1030													-007
8	WB-8						1545													-008
9	WB-9						1400													-009
10	Field Dup						1430													-010
11	MS						0950													(-006)
12	MSD						1000													

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Grant Baker	6-6-13	1830	Odette Weaver / PACE	060613	1830	11.5	Y	N	Y

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Grant Baker
SIGNATURE of SAMPLER: Grant Baker
DATE Signed (MM/DD/YY): 6-6-13

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

ORIGINAL

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

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

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CHAIN-OF-CUSTODY / Analytical Request Document

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

1661740

Section A Required Client Information:

Company: Weaver Boos Consultants
Address: 4085 Meghan Beeler Ct
South Bend, IN 46628
Email To: SStanford@weaverboos.com
Phone: 574-271-3447 Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To: Steven Stanford
Copy To: Grant Baker
gbaker@weaverboos.com
Purchase Order No.:
Project Name: Former Carpenter mfg
Project Number: 2339-353-03

Section C Invoice Information:

Attention: Lyle Cable
Company Name: Pace Analytical
Address: 7726 Moller Rd
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

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

Site Location STATE: IN

Section D Required Client Information

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

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

Requested Analysis Filtered (Y/N): VOC, RCRA 8 (per 13-c)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start DATE	Composite Start TIME	Composite End/GRAB DATE	Composite End/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	VOC	RCRA 8	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. (5081612/5081618)
1	Equip Blank	WT	G			6-6-13	1015		3				3						X			-011
2	Drum Sample #1	SL	C			6-6-13	1200		2	2									X	X		5081618001 LAB -012
3	Trip Blank	WT	G			6-6-13	—		3				3						X			-013
4																						
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	[signature]	6-6-13	1830	Colette Weaver / PACE	6/6/13	1830	

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Grant Baker
SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 6-6-13

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

ORIGINAL

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

Sample Condition Upon Receipt

Pace Analytical

Client Name: Weaver Boos Project # 50816R

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

Tracking #:

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

Date/Time 5035A kits placed in freezer

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☑ Other foam voa holder

Thermometer Used 1 2 3 4 6 A B C D E Type of Ice: (Wet) Blue None ☑ Samples on ice, cooling process has begun

Cooler Temperature (Corrected, if applicable) 11.5C Ice Visible in Sample Containers: ☐ yes ☑ no

Temp should be above freezing to 6°C

Date and Initials of person examining contents: 060613ar

				Comments:
Chain of Custody Present:	☑Yes	☐No	☐N/A	1.
Chain of Custody Filled Out:	☑Yes	☐No	☐N/A	2.
Chain of Custody Relinquished:	☑Yes	☐No	☐N/A	3.
Sampler Name & Signature on COC:	☑Yes	☐No	☐N/A	4.
Short Hold Time Analysis (<72hr):	☐Yes	☑No	☐N/A	5.
Rush Turn Around Time Requested:	☐Yes	☑No	☐N/A	6.
Containers Intact:	☑Yes	☐No	☐N/A	7.
Sample Labels match COC: -Includes date/time/ID/Analysis	☑Yes	☐No	☐N/A	8.
All containers needing acid/base pres have been checked? exceptions: VOA, coliform, TOC, O&G	☐Yes	☑No	☐N/A	9. (Circle) HNO3 H2SO4 NaOH HCl
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes	☐No	☑N/A	
Headspace in VOA Vials (>6mm)	☐Yes	☑No	☐N/A	10.
Trip Blank Present:	☑Yes	☐No	☐N/A	11.
Trip Blank Custody Seals Present	☑Yes	☐No	☐N/A	
Project Manager Review				
Samples Arrived within Hold Time:	☑Yes	☐No	☐N/A	12.
Sufficient Volume:	☑Yes	☐No	☐N/A	13.
Correct Containers Used:	☑Yes	☐No	☐N/A	14.

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

Person Contacted: Steve Stanford. Date/Time: 9:15 6-7-13

Comments/ Resolution:

Steve verified, based on sample mass, that WB-6 is the largest sample for MS/MSD.

Split drum sample off - make separate.

TVOH.

Add RCRA8 to soil drum #1 / samples (50816-18)

Project Manager Review: [signature] Date: 6-7-13

Form F-IN-Q290-rev.04, 28Apr2011

Sample Container Count

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CLIENT: Weaver Bros

COC PAGE 1 of 2
COC ID# 16601741

Project # 50816R

Sample Line Item	DG9H	AG1U	WGFU	AG0U	R 4 / 6	BP2N	BP2U	BP2S	BP3N	BP3U	BP3S	AG3S	AG1H			Comments
1	3															
2																
3																
4																
5																
6																
7																
8																
9																
10																
11																
12	3															

Container Codes

DG9H	40mL HCL amber voa vial	AG0U	100mL unpreserved amber glass	BP1N	1 liter HNO3 plastic	DG9P	40mL TSP amber vial
AG1U	1liter unpreserved amber glass	AG1H	1 liter HCL amber glass	BP1S	1 liter H2SO4 plastic	DG9S	40mL H2SO4 amber vial
WGFU	4oz clear soil jar	AG1S	1 liter H2SO4 amber glass	BP1U	1 liter unpreserved plastic	DG9T	40mL Na Thio amber vial
R	terra core kit	AG1T	1 liter Na Thiosulfate amber gl	BP1Z	1 liter NaOH, Zn, Ac	DG9U	40mL unpreserved amber vial
BP2N	500mL HNO3 plastic	AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plastic	I	Wipe/Swab
BP2U	500mL unpreserved plastic	AG2S	500mL H2SO4 amber glass	BP2O	500mL NaOH plastic	JGFU	4oz unpreserved amber wide
BP2S	500mL H2SO4 plastic	AG2U	500mL unpreserved amber gla	BP2Z	500mL NaOH, Zn Ac	U	Summa Can
BP3N	250mL HNO3 plastic	AG3U	250mL unpreserved amber gla	AF	Air Filter	VG9H	40mL HCL clear vial
BP3U	250mL unpreserved plastic	BG1H	1 liter HCL clear glass	BP3C	250mL NaOH plastic	VG9T	40mL Na Thio. clear vial
BP3S	250mL H2SO4 plastic	BG1S	1 liter H2SO4 clear glass	BP3Z	250mL NaOH, Zn Ac plastic	VG9U	40mL unpreserved clear vial
AG3S	250mL H2SO4 glass amber	BG1T	1 liter Na Thiosulfate clear gla	C	Air Cassettes	VSG	Headspace septa vial & HCL
AG1S	1 liter H2SO4 amber glass	BG1U	1 liter unpreserved glass	DG9B	40mL Na Bisulfate amber vial	WGFX	4oz wide jar w/hexane wipe
BP1U	1 liter unpreserved plastic	BP1A	1 liter NaOH, Asc Acid plastic	DG9M	40mL MeOH clear vial	ZPLC	Ziploc Bag

Sample Container Count

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CLIENT: Weaver Boots

COC PAGE 2 of 2
COC ID# 16617740

Project # 50516R

Sample Line Item	DG9H	AG1U	WGFU	AG0U	R 4/6	BP2N	BP2U	BP2S	BP3N	BP3U	BP3S	AG3S	AG1H			Comments
1	3															
2			2													
3	3															
4																
5																
6																
7																
8																
9																
10																
11																
12																

Container Codes

DG9H	40mL HCL amber voa vial	AG0U	100mL unpreserved amber glass	BP1N	1 liter HNO3 plastic	DG9P	40mL TSP amber vial
AG1U	1liter unpreserved amber glass	AG1H	1 liter HCL amber glass	BP1S	1 liter H2SO4 plastic	DG9S	40mL H2SO4 amber vial
WGFU	4oz clear soil jar	AG1S	1 liter H2SO4 amber glass	BP1U	1 liter unpreserved plastic	DG9T	40mL Na Thio amber vial
R	terra core kit	AG1T	1 liter Na Thiosulfate amber gl	BP1Z	1 liter NaOH, Zn, Ac	DG9U	40mL unpreserved amber vial
BP2N	500mL HNO3 plastic	AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plastic	I	Wipe/Swab
BP2U	500mL unpreserved plastic	AG2S	500mL H2SO4 amber glass	BP2O	500mL NaOH plastic	JGFU	4oz unpreserved amber wide
BP2S	500mL H2SO4 plastic	AG2U	500mL unpreserved amber gla	BP2Z	500mL NaOH, Zn Ac	U	Summa Can
BP3N	250mL HNO3 plastic	AG3U	250mL unpreserved amber gla	AF	Air Filter	VG9H	40mL HCL clear vial
BP3U	250mL unpreserved plastic	BG1H	1 liter HCL clear glass	BP3C	250mL NaOH plastic	VG9T	40mL Na Thio. clear vial
BP3S	250mL H2SO4 plastic	BG1S	1 liter H2SO4 clear glass	BP3Z	250mL NaOH, Zn Ac plastic	VG9U	40mL unpreserved clear vial
AG3S	250mL H2SO4 glass amber	BG1T	1 liter Na Thiosulfate clear gla	C	Air Cassettes	VSG	Headspace septa vial & HCL
AG1S	1 liter H2SO4 amber glass	BG1U	1 liter unpreserved glass	DG9B	40mL Na Bisulfate amber vial	WGFX	4oz wide jar w/hexane wipe
BP1U	1 liter unpreserved plastic	BP1A	1 liter NaOH, Asc Acid plastic	DG9M	40mL MeOH clear vial	ZPLC	Ziploc Bag

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7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

CERTIFICATIONS

Project: Former Carpenter Mfg
Pace Project No.: 5078197

Indiana Certification IDs
7726 Moller Road, Indianapolis, IN 46268
Illinois Certification #: 200074
Indiana Certification #: C-49-06
Kansas Certification #: E-10247
Kentucky Certification #: 0042
Louisiana/NELAC Certification #: 04076
Ohio VAP Certification #: 101170-0
Pennsylvania Certification #: 68-04991
West Virginia Certification #: 330

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SAMPLE SUMMARY

Project: Former Carpenter Mfg
Pace Project No.: 5078197

Lab ID	Sample ID	Matrix	Date Collected	Date Received
5078197001	**Manhole #8**	Water	03/28/13 08:30	03/29/13 13:46
5078197002	**P-28**	Water	03/28/13 10:30	03/29/13 13:46
5078197003	**P-24**	Water	03/28/13 11:10	03/29/13 13:46
5078197004	**P-26**	Water	03/28/13 11:50	03/29/13 13:46
5078197005	**P-29**	Water	03/28/13 12:30	03/29/13 13:46
5078197006	**P-25**	Water	03/28/13 13:20	03/29/13 13:46
5078197007	**P-30**	Water	03/28/13 14:30	03/29/13 13:46
5078197008	**P-22**	Water	03/28/13 15:30	03/29/13 13:46
5078197009	**Field Dup**	Water	03/28/13 08:00	03/29/13 13:46
5078197010	**Equipment Blank**	Water	03/28/13 13:40	03/29/13 13:46
5078197011	**Trip Blank**	Water	03/28/13 08:00	03/29/13 13:46

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SAMPLE ANALYTE COUNT

Project: Former Carpenter Mfg
Pace Project No.: 5078197

Lab ID	Sample ID	Method	Analysts	Analytes Reported
5078197001	**Manhole #8**	EPA 8260	RSW	73
5078197002	**P-28**	EPA 8260	RSW	73
5078197003	**P-24**	EPA 8260	RSW	73
5078197004	**P-26**	EPA 8260	RSW	73
5078197005	**P-29**	EPA 8260	RSW	73
5078197006	**P-25**	EPA 8260	RSW	73
5078197007	**P-30**	EPA 8260	RSW	73
5078197008	**P-22**	EPA 8260	RSW	73
5078197009	**Field Dup**	EPA 8260	RSW	73
5078197010	**Equipment Blank**	EPA 8260	RSW	73
5078197011	**Trip Blank**	EPA 8260	RSW	73

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ANALYTICAL RESULTS

Project: Former Carpenter Mfg
Pace Project No.: 5078197

Sample: Manhole #8 **Lab ID: 5078197001** Collected: 03/28/13 08:30 Received: 03/29/13 13:46 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		04/09/13 08:10	67-64-1	
Acrolein	ND	ug/L	50.0	1		04/09/13 08:10	107-02-8	
Acrylonitrile	ND	ug/L	100	1		04/09/13 08:10	107-13-1	
Benzene	**14.2**	ug/L	5.0	1		04/09/13 08:10	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		04/09/13 08:10	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		04/09/13 08:10	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		04/09/13 08:10	75-27-4	
Bromoform	ND	ug/L	5.0	1		04/09/13 08:10	75-25-2	
Bromomethane	ND	ug/L	5.0	1		04/09/13 08:10	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		04/09/13 08:10	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		04/09/13 08:10	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		04/09/13 08:10	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		04/09/13 08:10	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		04/09/13 08:10	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		04/09/13 08:10	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		04/09/13 08:10	108-90-7	
Chloroethane	ND	ug/L	5.0	1		04/09/13 08:10	75-00-3	
Chloroform	ND	ug/L	5.0	1		04/09/13 08:10	67-66-3	
Chloromethane	ND	ug/L	5.0	1		04/09/13 08:10	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		04/09/13 08:10	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		04/09/13 08:10	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		04/09/13 08:10	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		04/09/13 08:10	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		04/09/13 08:10	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		04/09/13 08:10	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		04/09/13 08:10	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		04/09/13 08:10	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		04/09/13 08:10	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		04/09/13 08:10	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		04/09/13 08:10	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		04/09/13 08:10	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		04/09/13 08:10	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		04/09/13 08:10	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		04/09/13 08:10	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		04/09/13 08:10	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		04/09/13 08:10	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		04/09/13 08:10	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		04/09/13 08:10	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		04/09/13 08:10	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		04/09/13 08:10	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		04/09/13 08:10	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		04/09/13 08:10	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		04/09/13 08:10	87-68-3	
n-Hexane	ND	ug/L	5.0	1		04/09/13 08:10	110-54-3	N2
2-Hexanone	ND	ug/L	25.0	1		04/09/13 08:10	591-78-6	
Iodomethane	ND	ug/L	10.0	1		04/09/13 08:10	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		04/09/13 08:10	98-82-8	

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ANALYTICAL RESULTS

Project: Former Carpenter Mfg
Pace Project No.: 5078197

Sample: Manhole #8 **Lab ID: 5078197001** Collected: 03/28/13 08:30 Received: 03/29/13 13:46 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
p-Isopropyltoluene	ND	ug/L	5.0	1		04/09/13 08:10	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		04/09/13 08:10	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		04/09/13 08:10	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		04/09/13 08:10	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		04/09/13 08:10	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		04/09/13 08:10	103-65-1	
Styrene	ND	ug/L	5.0	1		04/09/13 08:10	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		04/09/13 08:10	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		04/09/13 08:10	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		04/09/13 08:10	127-18-4	
Toluene	ND	ug/L	5.0	1		04/09/13 08:10	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		04/09/13 08:10	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		04/09/13 08:10	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		04/09/13 08:10	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		04/09/13 08:10	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		04/09/13 08:10	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		04/09/13 08:10	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		04/09/13 08:10	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		04/09/13 08:10	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		04/09/13 08:10	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		04/09/13 08:10	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		04/09/13 08:10	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		04/09/13 08:10	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	100	%.	79-116	1		04/09/13 08:10	1868-53-7	
4-Bromofluorobenzene (S)	97	%.	80-114	1		04/09/13 08:10	460-00-4	
Toluene-d8 (S)	100	%.	81-110	1		04/09/13 08:10	2037-26-5	

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ANALYTICAL RESULTS

Project: Former Carpenter Mfg
Pace Project No.: 5078197

Sample: P-28 **Lab ID: 5078197002** Collected: 03/28/13 10:30 Received: 03/29/13 13:46 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		04/09/13 08:44	67-64-1	
Acrolein	ND	ug/L	50.0	1		04/09/13 08:44	107-02-8	
Acrylonitrile	ND	ug/L	100	1		04/09/13 08:44	107-13-1	
Benzene	ND	ug/L	5.0	1		04/09/13 08:44	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		04/09/13 08:44	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		04/09/13 08:44	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		04/09/13 08:44	75-27-4	
Bromoform	ND	ug/L	5.0	1		04/09/13 08:44	75-25-2	
Bromomethane	ND	ug/L	5.0	1		04/09/13 08:44	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		04/09/13 08:44	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		04/09/13 08:44	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		04/09/13 08:44	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		04/09/13 08:44	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		04/09/13 08:44	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		04/09/13 08:44	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		04/09/13 08:44	108-90-7	
Chloroethane	ND	ug/L	5.0	1		04/09/13 08:44	75-00-3	
Chloroform	ND	ug/L	5.0	1		04/09/13 08:44	67-66-3	
Chloromethane	ND	ug/L	5.0	1		04/09/13 08:44	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		04/09/13 08:44	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		04/09/13 08:44	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		04/09/13 08:44	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		04/09/13 08:44	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		04/09/13 08:44	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		04/09/13 08:44	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		04/09/13 08:44	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		04/09/13 08:44	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		04/09/13 08:44	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		04/09/13 08:44	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		04/09/13 08:44	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		04/09/13 08:44	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		04/09/13 08:44	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		04/09/13 08:44	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		04/09/13 08:44	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		04/09/13 08:44	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		04/09/13 08:44	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		04/09/13 08:44	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		04/09/13 08:44	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		04/09/13 08:44	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		04/09/13 08:44	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		04/09/13 08:44	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		04/09/13 08:44	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		04/09/13 08:44	87-68-3	
n-Hexane	ND	ug/L	5.0	1		04/09/13 08:44	110-54-3	N2
2-Hexanone	ND	ug/L	25.0	1		04/09/13 08:44	591-78-6	
Iodomethane	ND	ug/L	10.0	1		04/09/13 08:44	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		04/09/13 08:44	98-82-8	

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ANALYTICAL RESULTS

Project: Former Carpenter Mfg
Pace Project No.: 5078197

Sample: P-28 **Lab ID: 5078197002** Collected: 03/28/13 10:30 Received: 03/29/13 13:46 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
p-Isopropyltoluene	ND	ug/L	5.0	1		04/09/13 08:44	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		04/09/13 08:44	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		04/09/13 08:44	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		04/09/13 08:44	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		04/09/13 08:44	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		04/09/13 08:44	103-65-1	
Styrene	ND	ug/L	5.0	1		04/09/13 08:44	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		04/09/13 08:44	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		04/09/13 08:44	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		04/09/13 08:44	127-18-4	
Toluene	ND	ug/L	5.0	1		04/09/13 08:44	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		04/09/13 08:44	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		04/09/13 08:44	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		04/09/13 08:44	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		04/09/13 08:44	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		04/09/13 08:44	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		04/09/13 08:44	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		04/09/13 08:44	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		04/09/13 08:44	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		04/09/13 08:44	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		04/09/13 08:44	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		04/09/13 08:44	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		04/09/13 08:44	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	100	%.	79-116	1		04/09/13 08:44	1868-53-7	
4-Bromofluorobenzene (S)	97	%.	80-114	1		04/09/13 08:44	460-00-4	
Toluene-d8 (S)	99	%.	81-110	1		04/09/13 08:44	2037-26-5	

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ANALYTICAL RESULTS

Project: Former Carpenter Mfg
Pace Project No.: 5078197

Sample: P-24 **Lab ID: 5078197003** Collected: 03/28/13 11:10 Received: 03/29/13 13:46 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		04/09/13 09:17	67-64-1	
Acrolein	ND	ug/L	50.0	1		04/09/13 09:17	107-02-8	
Acrylonitrile	ND	ug/L	100	1		04/09/13 09:17	107-13-1	
Benzene	ND	ug/L	5.0	1		04/09/13 09:17	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		04/09/13 09:17	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		04/09/13 09:17	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		04/09/13 09:17	75-27-4	
Bromoform	ND	ug/L	5.0	1		04/09/13 09:17	75-25-2	
Bromomethane	ND	ug/L	5.0	1		04/09/13 09:17	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		04/09/13 09:17	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		04/09/13 09:17	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		04/09/13 09:17	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		04/09/13 09:17	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		04/09/13 09:17	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		04/09/13 09:17	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		04/09/13 09:17	108-90-7	
Chloroethane	ND	ug/L	5.0	1		04/09/13 09:17	75-00-3	
Chloroform	ND	ug/L	5.0	1		04/09/13 09:17	67-66-3	
Chloromethane	ND	ug/L	5.0	1		04/09/13 09:17	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		04/09/13 09:17	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		04/09/13 09:17	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		04/09/13 09:17	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		04/09/13 09:17	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		04/09/13 09:17	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		04/09/13 09:17	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		04/09/13 09:17	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		04/09/13 09:17	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		04/09/13 09:17	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		04/09/13 09:17	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		04/09/13 09:17	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		04/09/13 09:17	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		04/09/13 09:17	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		04/09/13 09:17	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		04/09/13 09:17	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		04/09/13 09:17	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		04/09/13 09:17	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		04/09/13 09:17	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		04/09/13 09:17	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		04/09/13 09:17	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		04/09/13 09:17	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		04/09/13 09:17	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		04/09/13 09:17	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		04/09/13 09:17	87-68-3	
n-Hexane	ND	ug/L	5.0	1		04/09/13 09:17	110-54-3	N2
2-Hexanone	ND	ug/L	25.0	1		04/09/13 09:17	591-78-6	
Iodomethane	ND	ug/L	10.0	1		04/09/13 09:17	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		04/09/13 09:17	98-82-8	

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ANALYTICAL RESULTS

Project: Former Carpenter Mfg
Pace Project No.: 5078197

Sample: P-24 **Lab ID: 5078197003** Collected: 03/28/13 11:10 Received: 03/29/13 13:46 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
p-Isopropyltoluene	ND	ug/L	5.0	1		04/09/13 09:17	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		04/09/13 09:17	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		04/09/13 09:17	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		04/09/13 09:17	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		04/09/13 09:17	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		04/09/13 09:17	103-65-1	
Styrene	ND	ug/L	5.0	1		04/09/13 09:17	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		04/09/13 09:17	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		04/09/13 09:17	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		04/09/13 09:17	127-18-4	
Toluene	ND	ug/L	5.0	1		04/09/13 09:17	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		04/09/13 09:17	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		04/09/13 09:17	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		04/09/13 09:17	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		04/09/13 09:17	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		04/09/13 09:17	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		04/09/13 09:17	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		04/09/13 09:17	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		04/09/13 09:17	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		04/09/13 09:17	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		04/09/13 09:17	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		04/09/13 09:17	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		04/09/13 09:17	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	100	%.	79-116	1		04/09/13 09:17	1868-53-7	
4-Bromofluorobenzene (S)	96	%.	80-114	1		04/09/13 09:17	460-00-4	
Toluene-d8 (S)	99	%.	81-110	1		04/09/13 09:17	2037-26-5	

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ANALYTICAL RESULTS

Project: Former Carpenter Mfg
Pace Project No.: 5078197

Sample: P-26 **Lab ID: 5078197004** Collected: 03/28/13 11:50 Received: 03/29/13 13:46 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		04/09/13 09:50	67-64-1	
Acrolein	ND	ug/L	50.0	1		04/09/13 09:50	107-02-8	
Acrylonitrile	ND	ug/L	100	1		04/09/13 09:50	107-13-1	
Benzene	**106**	ug/L	5.0	1		04/09/13 09:50	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		04/09/13 09:50	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		04/09/13 09:50	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		04/09/13 09:50	75-27-4	
Bromoform	ND	ug/L	5.0	1		04/09/13 09:50	75-25-2	
Bromomethane	ND	ug/L	5.0	1		04/09/13 09:50	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		04/09/13 09:50	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		04/09/13 09:50	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		04/09/13 09:50	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		04/09/13 09:50	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		04/09/13 09:50	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		04/09/13 09:50	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		04/09/13 09:50	108-90-7	
Chloroethane	ND	ug/L	5.0	1		04/09/13 09:50	75-00-3	
Chloroform	ND	ug/L	5.0	1		04/09/13 09:50	67-66-3	
Chloromethane	ND	ug/L	5.0	1		04/09/13 09:50	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		04/09/13 09:50	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		04/09/13 09:50	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		04/09/13 09:50	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		04/09/13 09:50	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		04/09/13 09:50	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		04/09/13 09:50	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		04/09/13 09:50	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		04/09/13 09:50	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		04/09/13 09:50	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		04/09/13 09:50	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		04/09/13 09:50	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		04/09/13 09:50	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		04/09/13 09:50	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		04/09/13 09:50	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		04/09/13 09:50	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		04/09/13 09:50	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		04/09/13 09:50	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		04/09/13 09:50	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		04/09/13 09:50	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		04/09/13 09:50	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		04/09/13 09:50	10061-02-6	
Ethylbenzene	**138**	ug/L	5.0	1		04/09/13 09:50	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		04/09/13 09:50	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		04/09/13 09:50	87-68-3	
n-Hexane	**46.1**	ug/L	5.0	1		04/09/13 09:50	110-54-3	N2
2-Hexanone	ND	ug/L	25.0	1		04/09/13 09:50	591-78-6	
Iodomethane	ND	ug/L	10.0	1		04/09/13 09:50	74-88-4	
Isopropylbenzene (Cumene)	**33.9**	ug/L	5.0	1		04/09/13 09:50	98-82-8	

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ANALYTICAL RESULTS

Project: Former Carpenter Mfg
Pace Project No.: 5078197

Sample: P-26 **Lab ID: 5078197004** Collected: 03/28/13 11:50 Received: 03/29/13 13:46 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
p-Isopropyltoluene	ND	ug/L	5.0	1		04/09/13 09:50	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		04/09/13 09:50	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		04/09/13 09:50	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		04/09/13 09:50	1634-04-4	
Naphthalene	**34.9**	ug/L	5.0	1		04/09/13 09:50	91-20-3	
n-Propylbenzene	**28.1**	ug/L	5.0	1		04/09/13 09:50	103-65-1	
Styrene	ND	ug/L	5.0	1		04/09/13 09:50	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		04/09/13 09:50	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		04/09/13 09:50	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		04/09/13 09:50	127-18-4	
Toluene	ND	ug/L	5.0	1		04/09/13 09:50	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		04/09/13 09:50	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		04/09/13 09:50	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		04/09/13 09:50	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		04/09/13 09:50	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		04/09/13 09:50	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		04/09/13 09:50	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		04/09/13 09:50	96-18-4	
1,2,4-Trimethylbenzene	**195**	ug/L	5.0	1		04/09/13 09:50	95-63-6	
1,3,5-Trimethylbenzene	**32.3**	ug/L	5.0	1		04/09/13 09:50	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		04/09/13 09:50	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		04/09/13 09:50	75-01-4	
Xylene (Total)	**183**	ug/L	10.0	1		04/09/13 09:50	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	99	%.	79-116	1		04/09/13 09:50	1868-53-7	
4-Bromofluorobenzene (S)	98	%.	80-114	1		04/09/13 09:50	460-00-4	
Toluene-d8 (S)	101	%.	81-110	1		04/09/13 09:50	2037-26-5	

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ANALYTICAL RESULTS

Project: Former Carpenter Mfg
Pace Project No.: 5078197

Sample: P-29 **Lab ID: 5078197005** Collected: 03/28/13 12:30 Received: 03/29/13 13:46 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		04/09/13 16:45	67-64-1	
Acrolein	ND	ug/L	50.0	1		04/09/13 16:45	107-02-8	
Acrylonitrile	ND	ug/L	100	1		04/09/13 16:45	107-13-1	
Benzene	**287**	ug/L	50.0	10		04/10/13 21:22	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		04/09/13 16:45	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		04/09/13 16:45	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		04/09/13 16:45	75-27-4	
Bromoform	ND	ug/L	5.0	1		04/09/13 16:45	75-25-2	
Bromomethane	ND	ug/L	5.0	1		04/09/13 16:45	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		04/09/13 16:45	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		04/09/13 16:45	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		04/09/13 16:45	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		04/09/13 16:45	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		04/09/13 16:45	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		04/09/13 16:45	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		04/09/13 16:45	108-90-7	
Chloroethane	ND	ug/L	5.0	1		04/09/13 16:45	75-00-3	
Chloroform	ND	ug/L	5.0	1		04/09/13 16:45	67-66-3	
Chloromethane	ND	ug/L	5.0	1		04/09/13 16:45	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		04/09/13 16:45	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		04/09/13 16:45	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		04/09/13 16:45	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		04/09/13 16:45	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		04/09/13 16:45	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		04/09/13 16:45	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		04/09/13 16:45	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		04/09/13 16:45	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		04/09/13 16:45	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		04/09/13 16:45	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		04/09/13 16:45	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		04/09/13 16:45	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		04/09/13 16:45	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		04/09/13 16:45	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		04/09/13 16:45	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		04/09/13 16:45	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		04/09/13 16:45	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		04/09/13 16:45	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		04/09/13 16:45	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		04/09/13 16:45	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		04/09/13 16:45	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		04/09/13 16:45	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		04/09/13 16:45	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		04/09/13 16:45	87-68-3	
n-Hexane	ND	ug/L	5.0	1		04/09/13 16:45	110-54-3	N2
2-Hexanone	ND	ug/L	25.0	1		04/09/13 16:45	591-78-6	
Iodomethane	ND	ug/L	10.0	1		04/09/13 16:45	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		04/09/13 16:45	98-82-8	

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ANALYTICAL RESULTS

Project: Former Carpenter Mfg
Pace Project No.: 5078197

Sample: P-29 **Lab ID: 5078197005** Collected: 03/28/13 12:30 Received: 03/29/13 13:46 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
p-Isopropyltoluene	ND	ug/L	5.0	1		04/09/13 16:45	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		04/09/13 16:45	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		04/09/13 16:45	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		04/09/13 16:45	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		04/09/13 16:45	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		04/09/13 16:45	103-65-1	
Styrene	ND	ug/L	5.0	1		04/09/13 16:45	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		04/09/13 16:45	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		04/09/13 16:45	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		04/09/13 16:45	127-18-4	
Toluene	ND	ug/L	5.0	1		04/09/13 16:45	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		04/09/13 16:45	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		04/09/13 16:45	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		04/09/13 16:45	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		04/09/13 16:45	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		04/09/13 16:45	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		04/09/13 16:45	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		04/09/13 16:45	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		04/09/13 16:45	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		04/09/13 16:45	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		04/09/13 16:45	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		04/09/13 16:45	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		04/09/13 16:45	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	101	%.	79-116	1		04/09/13 16:45	1868-53-7	
4-Bromofluorobenzene (S)	97	%.	80-114	1		04/09/13 16:45	460-00-4	
Toluene-d8 (S)	101	%.	81-110	1		04/09/13 16:45	2037-26-5	

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ANALYTICAL RESULTS

Project: Former Carpenter Mfg
Pace Project No.: 5078197

Sample: P-25 **Lab ID: 5078197006** Collected: 03/28/13 13:20 Received: 03/29/13 13:46 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		04/09/13 17:17	67-64-1	
Acrolein	ND	ug/L	50.0	1		04/09/13 17:17	107-02-8	
Acrylonitrile	ND	ug/L	100	1		04/09/13 17:17	107-13-1	
Benzene	**39.5**	ug/L	5.0	1		04/09/13 17:17	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		04/09/13 17:17	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		04/09/13 17:17	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		04/09/13 17:17	75-27-4	
Bromoform	ND	ug/L	5.0	1		04/09/13 17:17	75-25-2	
Bromomethane	ND	ug/L	5.0	1		04/09/13 17:17	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		04/09/13 17:17	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		04/09/13 17:17	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		04/09/13 17:17	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		04/09/13 17:17	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		04/09/13 17:17	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		04/09/13 17:17	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		04/09/13 17:17	108-90-7	
Chloroethane	ND	ug/L	5.0	1		04/09/13 17:17	75-00-3	
Chloroform	ND	ug/L	5.0	1		04/09/13 17:17	67-66-3	
Chloromethane	ND	ug/L	5.0	1		04/09/13 17:17	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		04/09/13 17:17	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		04/09/13 17:17	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		04/09/13 17:17	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		04/09/13 17:17	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		04/09/13 17:17	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		04/09/13 17:17	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		04/09/13 17:17	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		04/09/13 17:17	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		04/09/13 17:17	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		04/09/13 17:17	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		04/09/13 17:17	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		04/09/13 17:17	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		04/09/13 17:17	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		04/09/13 17:17	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		04/09/13 17:17	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		04/09/13 17:17	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		04/09/13 17:17	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		04/09/13 17:17	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		04/09/13 17:17	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		04/09/13 17:17	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		04/09/13 17:17	10061-02-6	
Ethylbenzene	**170**	ug/L	5.0	1		04/09/13 17:17	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		04/09/13 17:17	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		04/09/13 17:17	87-68-3	
n-Hexane	**104**	ug/L	5.0	1		04/09/13 17:17	110-54-3	N2
2-Hexanone	ND	ug/L	25.0	1		04/09/13 17:17	591-78-6	
Iodomethane	ND	ug/L	10.0	1		04/09/13 17:17	74-88-4	
Isopropylbenzene (Cumene)	**24.2**	ug/L	5.0	1		04/09/13 17:17	98-82-8	

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ANALYTICAL RESULTS

Project: Former Carpenter Mfg
Pace Project No.: 5078197

Sample: P-25 **Lab ID: 5078197006** Collected: 03/28/13 13:20 Received: 03/29/13 13:46 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
p-Isopropyltoluene	ND	ug/L	5.0	1		04/09/13 17:17	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		04/09/13 17:17	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		04/09/13 17:17	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		04/09/13 17:17	1634-04-4	
Naphthalene	**33.5**	ug/L	5.0	1		04/09/13 17:17	91-20-3	
n-Propylbenzene	**27.9**	ug/L	5.0	1		04/09/13 17:17	103-65-1	
Styrene	ND	ug/L	5.0	1		04/09/13 17:17	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		04/09/13 17:17	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		04/09/13 17:17	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		04/09/13 17:17	127-18-4	
Toluene	**19.3**	ug/L	5.0	1		04/09/13 17:17	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		04/09/13 17:17	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		04/09/13 17:17	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		04/09/13 17:17	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		04/09/13 17:17	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		04/09/13 17:17	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		04/09/13 17:17	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		04/09/13 17:17	96-18-4	
1,2,4-Trimethylbenzene	**166**	ug/L	5.0	1		04/09/13 17:17	95-63-6	
1,3,5-Trimethylbenzene	**53.6**	ug/L	5.0	1		04/09/13 17:17	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		04/09/13 17:17	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		04/09/13 17:17	75-01-4	
Xylene (Total)	**370**	ug/L	10.0	1		04/09/13 17:17	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	100	%.	79-116	1		04/09/13 17:17	1868-53-7	
4-Bromofluorobenzene (S)	97	%.	80-114	1		04/09/13 17:17	460-00-4	
Toluene-d8 (S)	100	%.	81-110	1		04/09/13 17:17	2037-26-5	

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ANALYTICAL RESULTS

Project: Former Carpenter Mfg
Pace Project No.: 5078197

Sample: P-30 **Lab ID: 5078197007** Collected: 03/28/13 14:30 Received: 03/29/13 13:46 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		04/09/13 17:50	67-64-1	
Acrolein	ND	ug/L	50.0	1		04/09/13 17:50	107-02-8	
Acrylonitrile	ND	ug/L	100	1		04/09/13 17:50	107-13-1	
Benzene	**22.1**	ug/L	5.0	1		04/09/13 17:50	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		04/09/13 17:50	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		04/09/13 17:50	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		04/09/13 17:50	75-27-4	
Bromoform	ND	ug/L	5.0	1		04/09/13 17:50	75-25-2	
Bromomethane	ND	ug/L	5.0	1		04/09/13 17:50	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		04/09/13 17:50	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		04/09/13 17:50	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		04/09/13 17:50	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		04/09/13 17:50	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		04/09/13 17:50	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		04/09/13 17:50	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		04/09/13 17:50	108-90-7	
Chloroethane	ND	ug/L	5.0	1		04/09/13 17:50	75-00-3	
Chloroform	ND	ug/L	5.0	1		04/09/13 17:50	67-66-3	
Chloromethane	ND	ug/L	5.0	1		04/09/13 17:50	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		04/09/13 17:50	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		04/09/13 17:50	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		04/09/13 17:50	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		04/09/13 17:50	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		04/09/13 17:50	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		04/09/13 17:50	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		04/09/13 17:50	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		04/09/13 17:50	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		04/09/13 17:50	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		04/09/13 17:50	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		04/09/13 17:50	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		04/09/13 17:50	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		04/09/13 17:50	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		04/09/13 17:50	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		04/09/13 17:50	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		04/09/13 17:50	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		04/09/13 17:50	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		04/09/13 17:50	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		04/09/13 17:50	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		04/09/13 17:50	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		04/09/13 17:50	10061-02-6	
Ethylbenzene	**17.6**	ug/L	5.0	1		04/09/13 17:50	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		04/09/13 17:50	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		04/09/13 17:50	87-68-3	
n-Hexane	ND	ug/L	5.0	1		04/09/13 17:50	110-54-3	N2
2-Hexanone	ND	ug/L	25.0	1		04/09/13 17:50	591-78-6	
Iodomethane	ND	ug/L	10.0	1		04/09/13 17:50	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		04/09/13 17:50	98-82-8	

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ANALYTICAL RESULTS

Project: Former Carpenter Mfg
Pace Project No.: 5078197

Sample: P-30 **Lab ID: 5078197007** Collected: 03/28/13 14:30 Received: 03/29/13 13:46 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
p-Isopropyltoluene	ND	ug/L	5.0	1		04/09/13 17:50	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		04/09/13 17:50	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		04/09/13 17:50	108-10-1	
Methyl-tert-butyl ether	**5.3**	ug/L	4.0	1		04/09/13 17:50	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		04/09/13 17:50	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		04/09/13 17:50	103-65-1	
Styrene	ND	ug/L	5.0	1		04/09/13 17:50	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		04/09/13 17:50	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		04/09/13 17:50	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		04/09/13 17:50	127-18-4	
Toluene	ND	ug/L	5.0	1		04/09/13 17:50	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		04/09/13 17:50	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		04/09/13 17:50	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		04/09/13 17:50	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		04/09/13 17:50	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		04/09/13 17:50	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		04/09/13 17:50	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		04/09/13 17:50	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		04/09/13 17:50	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		04/09/13 17:50	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		04/09/13 17:50	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		04/09/13 17:50	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		04/09/13 17:50	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	100	%.	79-116	1		04/09/13 17:50	1868-53-7	
4-Bromofluorobenzene (S)	98	%.	80-114	1		04/09/13 17:50	460-00-4	
Toluene-d8 (S)	101	%.	81-110	1		04/09/13 17:50	2037-26-5	

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ANALYTICAL RESULTS

Project: Former Carpenter Mfg
Pace Project No.: 5078197

Sample: P-22 **Lab ID: 5078197008** Collected: 03/28/13 15:30 Received: 03/29/13 13:46 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		04/09/13 19:28	67-64-1	
Acrolein	ND	ug/L	50.0	1		04/09/13 19:28	107-02-8	
Acrylonitrile	ND	ug/L	100	1		04/09/13 19:28	107-13-1	
Benzene	**1640**	ug/L	125	25		04/10/13 21:54	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		04/09/13 19:28	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		04/09/13 19:28	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		04/09/13 19:28	75-27-4	
Bromoform	ND	ug/L	5.0	1		04/09/13 19:28	75-25-2	
Bromomethane	ND	ug/L	5.0	1		04/09/13 19:28	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		04/09/13 19:28	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		04/09/13 19:28	104-51-8	
sec-Butylbenzene	**13.9**	ug/L	5.0	1		04/09/13 19:28	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		04/09/13 19:28	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		04/09/13 19:28	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		04/09/13 19:28	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		04/09/13 19:28	108-90-7	
Chloroethane	ND	ug/L	5.0	1		04/09/13 19:28	75-00-3	
Chloroform	ND	ug/L	5.0	1		04/09/13 19:28	67-66-3	
Chloromethane	ND	ug/L	5.0	1		04/09/13 19:28	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		04/09/13 19:28	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		04/09/13 19:28	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		04/09/13 19:28	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		04/09/13 19:28	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		04/09/13 19:28	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		04/09/13 19:28	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		04/09/13 19:28	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		04/09/13 19:28	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		04/09/13 19:28	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		04/09/13 19:28	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		04/09/13 19:28	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		04/09/13 19:28	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		04/09/13 19:28	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		04/09/13 19:28	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		04/09/13 19:28	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		04/09/13 19:28	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		04/09/13 19:28	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		04/09/13 19:28	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		04/09/13 19:28	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		04/09/13 19:28	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		04/09/13 19:28	10061-02-6	
Ethylbenzene	**1850**	ug/L	125	25		04/10/13 21:54	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		04/09/13 19:28	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		04/09/13 19:28	87-68-3	
n-Hexane	**329**	ug/L	125	25		04/10/13 21:54	110-54-3	N2
2-Hexanone	ND	ug/L	25.0	1		04/09/13 19:28	591-78-6	
Iodomethane	ND	ug/L	10.0	1		04/09/13 19:28	74-88-4	
Isopropylbenzene (Cumene)	**262**	ug/L	5.0	1		04/09/13 19:28	98-82-8	

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ANALYTICAL RESULTS

Project: Former Carpenter Mfg
Pace Project No.: 5078197

Sample: P-22 **Lab ID: 5078197008** Collected: 03/28/13 15:30 Received: 03/29/13 13:46 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
p-Isopropyltoluene	**11.5**	ug/L	5.0	1		04/09/13 19:28	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		04/09/13 19:28	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		04/09/13 19:28	108-10-1	
Methyl-tert-butyl ether	**219**	ug/L	4.0	1		04/09/13 19:28	1634-04-4	
Naphthalene	**473**	ug/L	125	25		04/10/13 21:54	91-20-3	
n-Propylbenzene	**298**	ug/L	5.0	1		04/09/13 19:28	103-65-1	
Styrene	ND	ug/L	5.0	1		04/09/13 19:28	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		04/09/13 19:28	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		04/09/13 19:28	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		04/09/13 19:28	127-18-4	
Toluene	**1770**	ug/L	125	25		04/10/13 21:54	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		04/09/13 19:28	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		04/09/13 19:28	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		04/09/13 19:28	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		04/09/13 19:28	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		04/09/13 19:28	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		04/09/13 19:28	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		04/09/13 19:28	96-18-4	
1,2,4-Trimethylbenzene	**1560**	ug/L	125	25		04/10/13 21:54	95-63-6	
1,3,5-Trimethylbenzene	**420**	ug/L	125	25		04/10/13 21:54	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		04/09/13 19:28	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		04/09/13 19:28	75-01-4	
Xylene (Total)	**8570**	ug/L	250	25		04/10/13 21:54	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	98	%.	79-116	1		04/09/13 19:28	1868-53-7	
4-Bromofluorobenzene (S)	100	%.	80-114	1		04/09/13 19:28	460-00-4	
Toluene-d8 (S)	99	%.	81-110	1		04/09/13 19:28	2037-26-5	

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ANALYTICAL RESULTS

Project: Former Carpenter Mfg
Pace Project No.: 5078197

Sample: Field Dup **Lab ID: 5078197009** Collected: 03/28/13 08:00 Received: 03/29/13 13:46 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		04/09/13 20:01	67-64-1	
Acrolein	ND	ug/L	50.0	1		04/09/13 20:01	107-02-8	
Acrylonitrile	ND	ug/L	100	1		04/09/13 20:01	107-13-1	
Benzene	**34.6**	ug/L	5.0	1		04/09/13 20:01	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		04/09/13 20:01	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		04/09/13 20:01	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		04/09/13 20:01	75-27-4	
Bromoform	ND	ug/L	5.0	1		04/09/13 20:01	75-25-2	
Bromomethane	ND	ug/L	5.0	1		04/09/13 20:01	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		04/09/13 20:01	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		04/09/13 20:01	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		04/09/13 20:01	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		04/09/13 20:01	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		04/09/13 20:01	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		04/09/13 20:01	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		04/09/13 20:01	108-90-7	
Chloroethane	ND	ug/L	5.0	1		04/09/13 20:01	75-00-3	
Chloroform	ND	ug/L	5.0	1		04/09/13 20:01	67-66-3	
Chloromethane	ND	ug/L	5.0	1		04/09/13 20:01	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		04/09/13 20:01	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		04/09/13 20:01	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		04/09/13 20:01	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		04/09/13 20:01	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		04/09/13 20:01	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		04/09/13 20:01	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		04/09/13 20:01	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		04/09/13 20:01	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		04/09/13 20:01	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		04/09/13 20:01	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		04/09/13 20:01	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		04/09/13 20:01	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		04/09/13 20:01	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		04/09/13 20:01	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		04/09/13 20:01	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		04/09/13 20:01	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		04/09/13 20:01	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		04/09/13 20:01	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		04/09/13 20:01	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		04/09/13 20:01	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		04/09/13 20:01	10061-02-6	
Ethylbenzene	**150**	ug/L	5.0	1		04/09/13 20:01	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		04/09/13 20:01	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		04/09/13 20:01	87-68-3	
n-Hexane	**86.7**	ug/L	5.0	1		04/09/13 20:01	110-54-3	N2
2-Hexanone	ND	ug/L	25.0	1		04/09/13 20:01	591-78-6	
Iodomethane	ND	ug/L	10.0	1		04/09/13 20:01	74-88-4	
Isopropylbenzene (Cumene)	**21.1**	ug/L	5.0	1		04/09/13 20:01	98-82-8	

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Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: Former Carpenter Mfg
Pace Project No.: 5078197

Sample: Field Dup **Lab ID: 5078197009** Collected: 03/28/13 08:00 Received: 03/29/13 13:46 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
p-Isopropyltoluene	ND	ug/L	5.0	1		04/09/13 20:01	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		04/09/13 20:01	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		04/09/13 20:01	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		04/09/13 20:01	1634-04-4	
Naphthalene	**36.6**	ug/L	5.0	1		04/09/13 20:01	91-20-3	
n-Propylbenzene	**23.3**	ug/L	5.0	1		04/09/13 20:01	103-65-1	
Styrene	ND	ug/L	5.0	1		04/09/13 20:01	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		04/09/13 20:01	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		04/09/13 20:01	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		04/09/13 20:01	127-18-4	
Toluene	**18.1**	ug/L	5.0	1		04/09/13 20:01	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		04/09/13 20:01	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		04/09/13 20:01	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		04/09/13 20:01	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		04/09/13 20:01	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		04/09/13 20:01	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		04/09/13 20:01	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		04/09/13 20:01	96-18-4	
1,2,4-Trimethylbenzene	**141**	ug/L	5.0	1		04/09/13 20:01	95-63-6	
1,3,5-Trimethylbenzene	**45.0**	ug/L	5.0	1		04/09/13 20:01	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		04/09/13 20:01	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		04/09/13 20:01	75-01-4	
Xylene (Total)	**323**	ug/L	10.0	1		04/09/13 20:01	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	97	%.	79-116	1		04/09/13 20:01	1868-53-7	
4-Bromofluorobenzene (S)	96	%.	80-114	1		04/09/13 20:01	460-00-4	
Toluene-d8 (S)	100	%.	81-110	1		04/09/13 20:01	2037-26-5	

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ANALYTICAL RESULTS

Project: Former Carpenter Mfg
Pace Project No.: 5078197

Sample: Equipment Blank **Lab ID: 5078197010** Collected: 03/28/13 13:40 Received: 03/29/13 13:46 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		04/09/13 20:33	67-64-1	
Acrolein	ND	ug/L	50.0	1		04/09/13 20:33	107-02-8	
Acrylonitrile	ND	ug/L	100	1		04/09/13 20:33	107-13-1	
Benzene	ND	ug/L	5.0	1		04/09/13 20:33	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		04/09/13 20:33	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		04/09/13 20:33	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		04/09/13 20:33	75-27-4	
Bromoform	ND	ug/L	5.0	1		04/09/13 20:33	75-25-2	
Bromomethane	ND	ug/L	5.0	1		04/09/13 20:33	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		04/09/13 20:33	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		04/09/13 20:33	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		04/09/13 20:33	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		04/09/13 20:33	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		04/09/13 20:33	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		04/09/13 20:33	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		04/09/13 20:33	108-90-7	
Chloroethane	ND	ug/L	5.0	1		04/09/13 20:33	75-00-3	
Chloroform	ND	ug/L	5.0	1		04/09/13 20:33	67-66-3	
Chloromethane	ND	ug/L	5.0	1		04/09/13 20:33	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		04/09/13 20:33	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		04/09/13 20:33	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		04/09/13 20:33	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		04/09/13 20:33	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		04/09/13 20:33	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		04/09/13 20:33	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		04/09/13 20:33	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		04/09/13 20:33	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		04/09/13 20:33	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		04/09/13 20:33	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		04/09/13 20:33	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		04/09/13 20:33	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		04/09/13 20:33	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		04/09/13 20:33	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		04/09/13 20:33	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		04/09/13 20:33	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		04/09/13 20:33	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		04/09/13 20:33	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		04/09/13 20:33	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		04/09/13 20:33	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		04/09/13 20:33	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		04/09/13 20:33	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		04/09/13 20:33	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		04/09/13 20:33	87-68-3	
n-Hexane	ND	ug/L	5.0	1		04/09/13 20:33	110-54-3	N2
2-Hexanone	ND	ug/L	25.0	1		04/09/13 20:33	591-78-6	
Iodomethane	ND	ug/L	10.0	1		04/09/13 20:33	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		04/09/13 20:33	98-82-8	

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ANALYTICAL RESULTS

Project: Former Carpenter Mfg
Pace Project No.: 5078197

Sample: Equipment Blank **Lab ID: 5078197010** Collected: 03/28/13 13:40 Received: 03/29/13 13:46 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
p-Isopropyltoluene	ND	ug/L	5.0	1		04/09/13 20:33	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		04/09/13 20:33	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		04/09/13 20:33	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		04/09/13 20:33	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		04/09/13 20:33	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		04/09/13 20:33	103-65-1	
Styrene	ND	ug/L	5.0	1		04/09/13 20:33	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		04/09/13 20:33	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		04/09/13 20:33	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		04/09/13 20:33	127-18-4	
Toluene	ND	ug/L	5.0	1		04/09/13 20:33	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		04/09/13 20:33	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		04/09/13 20:33	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		04/09/13 20:33	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		04/09/13 20:33	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		04/09/13 20:33	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		04/09/13 20:33	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		04/09/13 20:33	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		04/09/13 20:33	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		04/09/13 20:33	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		04/09/13 20:33	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		04/09/13 20:33	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		04/09/13 20:33	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	100	%.	79-116	1		04/09/13 20:33	1868-53-7	
4-Bromofluorobenzene (S)	96	%.	80-114	1		04/09/13 20:33	460-00-4	
Toluene-d8 (S)	99	%.	81-110	1		04/09/13 20:33	2037-26-5	

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ANALYTICAL RESULTS

Project: Former Carpenter Mfg
Pace Project No.: 5078197

Sample: Trip Blank **Lab ID: 5078197011** Collected: 03/28/13 08:00 Received: 03/29/13 13:46 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		04/09/13 21:06	67-64-1	
Acrolein	ND	ug/L	50.0	1		04/09/13 21:06	107-02-8	
Acrylonitrile	ND	ug/L	100	1		04/09/13 21:06	107-13-1	
Benzene	ND	ug/L	5.0	1		04/09/13 21:06	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		04/09/13 21:06	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		04/09/13 21:06	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		04/09/13 21:06	75-27-4	
Bromoform	ND	ug/L	5.0	1		04/09/13 21:06	75-25-2	
Bromomethane	ND	ug/L	5.0	1		04/09/13 21:06	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		04/09/13 21:06	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		04/09/13 21:06	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		04/09/13 21:06	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		04/09/13 21:06	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		04/09/13 21:06	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		04/09/13 21:06	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		04/09/13 21:06	108-90-7	
Chloroethane	ND	ug/L	5.0	1		04/09/13 21:06	75-00-3	
Chloroform	ND	ug/L	5.0	1		04/09/13 21:06	67-66-3	
Chloromethane	ND	ug/L	5.0	1		04/09/13 21:06	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		04/09/13 21:06	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		04/09/13 21:06	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		04/09/13 21:06	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		04/09/13 21:06	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		04/09/13 21:06	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		04/09/13 21:06	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		04/09/13 21:06	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		04/09/13 21:06	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		04/09/13 21:06	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		04/09/13 21:06	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		04/09/13 21:06	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		04/09/13 21:06	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		04/09/13 21:06	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		04/09/13 21:06	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		04/09/13 21:06	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		04/09/13 21:06	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		04/09/13 21:06	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		04/09/13 21:06	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		04/09/13 21:06	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		04/09/13 21:06	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		04/09/13 21:06	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		04/09/13 21:06	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		04/09/13 21:06	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		04/09/13 21:06	87-68-3	
n-Hexane	ND	ug/L	5.0	1		04/09/13 21:06	110-54-3	N2
2-Hexanone	ND	ug/L	25.0	1		04/09/13 21:06	591-78-6	
Iodomethane	ND	ug/L	10.0	1		04/09/13 21:06	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		04/09/13 21:06	98-82-8	

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ANALYTICAL RESULTS

Project: Former Carpenter Mfg
Pace Project No.: 5078197

Sample: Trip Blank **Lab ID: 5078197011** Collected: 03/28/13 08:00 Received: 03/29/13 13:46 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
p-Isopropyltoluene	ND	ug/L	5.0	1		04/09/13 21:06	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		04/09/13 21:06	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		04/09/13 21:06	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		04/09/13 21:06	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		04/09/13 21:06	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		04/09/13 21:06	103-65-1	
Styrene	ND	ug/L	5.0	1		04/09/13 21:06	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		04/09/13 21:06	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		04/09/13 21:06	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		04/09/13 21:06	127-18-4	
Toluene	ND	ug/L	5.0	1		04/09/13 21:06	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		04/09/13 21:06	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		04/09/13 21:06	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		04/09/13 21:06	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		04/09/13 21:06	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		04/09/13 21:06	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		04/09/13 21:06	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		04/09/13 21:06	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		04/09/13 21:06	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		04/09/13 21:06	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		04/09/13 21:06	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		04/09/13 21:06	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		04/09/13 21:06	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	100	%.	79-116	1		04/09/13 21:06	1868-53-7	
4-Bromofluorobenzene (S)	97	%.	80-114	1		04/09/13 21:06	460-00-4	
Toluene-d8 (S)	102	%.	81-110	1		04/09/13 21:06	2037-26-5	

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QUALITY CONTROL DATA

Project: Former Carpenter Mfg
Pace Project No.: 5078197

QC Batch: MSV/51925 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 5078197001, 5078197002, 5078197003, 5078197004

METHOD BLANK: 896806 Matrix: Water
Associated Lab Samples: 5078197001, 5078197002, 5078197003, 5078197004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	04/09/13 01:04	
1,1,1-Trichloroethane	ug/L	ND	5.0	04/09/13 01:04	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	04/09/13 01:04	
1,1,2-Trichloroethane	ug/L	ND	5.0	04/09/13 01:04	
1,1-Dichloroethane	ug/L	ND	5.0	04/09/13 01:04	
1,1-Dichloroethene	ug/L	ND	5.0	04/09/13 01:04	
1,1-Dichloropropene	ug/L	ND	5.0	04/09/13 01:04	
1,2,3-Trichlorobenzene	ug/L	ND	5.0	04/09/13 01:04	
1,2,3-Trichloropropane	ug/L	ND	5.0	04/09/13 01:04	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	04/09/13 01:04	
1,2,4-Trimethylbenzene	ug/L	ND	5.0	04/09/13 01:04	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	04/09/13 01:04	
1,2-Dichlorobenzene	ug/L	ND	5.0	04/09/13 01:04	
1,2-Dichloroethane	ug/L	ND	5.0	04/09/13 01:04	
1,2-Dichloropropane	ug/L	ND	5.0	04/09/13 01:04	
1,3,5-Trimethylbenzene	ug/L	ND	5.0	04/09/13 01:04	
1,3-Dichlorobenzene	ug/L	ND	5.0	04/09/13 01:04	
1,3-Dichloropropane	ug/L	ND	5.0	04/09/13 01:04	
1,4-Dichlorobenzene	ug/L	ND	5.0	04/09/13 01:04	
2,2-Dichloropropane	ug/L	ND	5.0	04/09/13 01:04	
2-Butanone (MEK)	ug/L	ND	25.0	04/09/13 01:04	
2-Chlorotoluene	ug/L	ND	5.0	04/09/13 01:04	
2-Hexanone	ug/L	ND	25.0	04/09/13 01:04	
4-Chlorotoluene	ug/L	ND	5.0	04/09/13 01:04	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25.0	04/09/13 01:04	
Acetone	ug/L	ND	100	04/09/13 01:04	
Acrolein	ug/L	ND	50.0	04/09/13 01:04	
Acrylonitrile	ug/L	ND	100	04/09/13 01:04	
Benzene	ug/L	ND	5.0	04/09/13 01:04	
Bromobenzene	ug/L	ND	5.0	04/09/13 01:04	
Bromochloromethane	ug/L	ND	5.0	04/09/13 01:04	
Bromodichloromethane	ug/L	ND	5.0	04/09/13 01:04	
Bromoform	ug/L	ND	5.0	04/09/13 01:04	
Bromomethane	ug/L	ND	5.0	04/09/13 01:04	
Carbon disulfide	ug/L	ND	10.0	04/09/13 01:04	
Carbon tetrachloride	ug/L	ND	5.0	04/09/13 01:04	
Chlorobenzene	ug/L	ND	5.0	04/09/13 01:04	
Chloroethane	ug/L	ND	5.0	04/09/13 01:04	
Chloroform	ug/L	ND	5.0	04/09/13 01:04	
Chloromethane	ug/L	ND	5.0	04/09/13 01:04	
cis-1,2-Dichloroethene	ug/L	ND	5.0	04/09/13 01:04	
cis-1,3-Dichloropropene	ug/L	ND	5.0	04/09/13 01:04	
Dibromochloromethane	ug/L	ND	5.0	04/09/13 01:04	

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QUALITY CONTROL DATA

Project: Former Carpenter Mfg
Pace Project No.: 5078197

METHOD BLANK: 896806 Matrix: Water

Associated Lab Samples: 5078197001, 5078197002, 5078197003, 5078197004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/L	ND	5.0	04/09/13 01:04	
Dichlorodifluoromethane	ug/L	ND	5.0	04/09/13 01:04	
Ethyl methacrylate	ug/L	ND	100	04/09/13 01:04	
Ethylbenzene	ug/L	ND	5.0	04/09/13 01:04	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	04/09/13 01:04	
Iodomethane	ug/L	ND	10.0	04/09/13 01:04	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	04/09/13 01:04	
Methyl-tert-butyl ether	ug/L	ND	4.0	04/09/13 01:04	
Methylene Chloride	ug/L	ND	5.0	04/09/13 01:04	
n-Butylbenzene	ug/L	ND	5.0	04/09/13 01:04	
n-Hexane	ug/L	ND	5.0	04/09/13 01:04	N2
n-Propylbenzene	ug/L	ND	5.0	04/09/13 01:04	
Naphthalene	ug/L	ND	5.0	04/09/13 01:04	
p-Isopropyltoluene	ug/L	ND	5.0	04/09/13 01:04	
sec-Butylbenzene	ug/L	ND	5.0	04/09/13 01:04	
Styrene	ug/L	ND	5.0	04/09/13 01:04	
tert-Butylbenzene	ug/L	ND	5.0	04/09/13 01:04	
Tetrachloroethene	ug/L	ND	5.0	04/09/13 01:04	
Toluene	ug/L	ND	5.0	04/09/13 01:04	
trans-1,2-Dichloroethene	ug/L	ND	5.0	04/09/13 01:04	
trans-1,3-Dichloropropene	ug/L	ND	5.0	04/09/13 01:04	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	04/09/13 01:04	
Trichloroethene	ug/L	ND	5.0	04/09/13 01:04	
Trichlorofluoromethane	ug/L	ND	5.0	04/09/13 01:04	
Vinyl acetate	ug/L	ND	50.0	04/09/13 01:04	
Vinyl chloride	ug/L	ND	2.0	04/09/13 01:04	
Xylene (Total)	ug/L	ND	10.0	04/09/13 01:04	
4-Bromofluorobenzene (S)	%.	97	80-114	04/09/13 01:04	
Dibromofluoromethane (S)	%.	98	79-116	04/09/13 01:04	
Toluene-d8 (S)	%.	101	81-110	04/09/13 01:04	

LABORATORY CONTROL SAMPLE: 896807

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	53.2	106	61-135	
1,1,1-Trichloroethane	ug/L	50	50.3	101	71-129	
1,1,2,2-Tetrachloroethane	ug/L	50	49.1	98	66-126	
1,1,2-Trichloroethane	ug/L	50	51.7	103	77-130	
1,1-Dichloroethane	ug/L	50	47.1	94	75-130	
1,1-Dichloroethene	ug/L	50	53.7	107	68-127	
1,1-Dichloropropene	ug/L	50	51.3	103	78-130	
1,2,3-Trichlorobenzene	ug/L	50	55.0	110	70-130	
1,2,3-Trichloropropane	ug/L	50	47.5	95	58-142	
1,2,4-Trichlorobenzene	ug/L	50	53.8	108	68-131	
1,2,4-Trimethylbenzene	ug/L	50	54.0	108	69-127	

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QUALITY CONTROL DATA

Project: Former Carpenter Mfg
Pace Project No.: 5078197

LABORATORY CONTROL SAMPLE: 896807

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	50	49.3	99	76-125	
1,2-Dichlorobenzene	ug/L	50	53.6	107	75-123	
1,2-Dichloroethane	ug/L	50	49.1	98	75-128	
1,2-Dichloropropane	ug/L	50	49.1	98	74-121	
1,3,5-Trimethylbenzene	ug/L	50	55.8	112	70-126	
1,3-Dichlorobenzene	ug/L	50	52.3	105	74-122	
1,3-Dichloropropane	ug/L	50	49.8	100	74-123	
1,4-Dichlorobenzene	ug/L	50	53.0	106	76-120	
2,2-Dichloropropane	ug/L	50	44.7	89	50-137	
2-Butanone (MEK)	ug/L	250	220	88	58-139	
2-Chlorotoluene	ug/L	50	54.7	109	74-122	
2-Hexanone	ug/L	250	234	94	54-140	
4-Chlorotoluene	ug/L	50	58.8	118	77-123	
4-Methyl-2-pentanone (MIBK)	ug/L	250	238	95	58-138	
Acetone	ug/L	250	248	99	49-150	
Acrolein	ug/L	1000	1070	107	41-200	
Acrylonitrile	ug/L	1000	968	97	63-137	
Benzene	ug/L	50	50.5	101	74-122	
Bromobenzene	ug/L	50	52.4	105	72-127	
Bromochloromethane	ug/L	50	55.0	110	63-132	
Bromodichloromethane	ug/L	50	53.4	107	62-136	
Bromoform	ug/L	50	45.8	92	44-134	
Bromomethane	ug/L	50	141	283	22-181	L3
Carbon disulfide	ug/L	100	113	113	59-132	
Carbon tetrachloride	ug/L	50	50.6	101	56-137	
Chlorobenzene	ug/L	50	54.0	108	78-123	
Chloroethane	ug/L	50	51.7	103	60-144	
Chloroform	ug/L	50	54.4	109	78-126	
Chloromethane	ug/L	50	48.5	97	42-134	
cis-1,2-Dichloroethene	ug/L	50	47.8	96	75-122	
cis-1,3-Dichloropropene	ug/L	50	51.0	102	64-126	
Dibromochloromethane	ug/L	50	48.9	98	58-128	
Dibromomethane	ug/L	50	47.5	95	73-125	
Dichlorodifluoromethane	ug/L	50	60.6	121	35-181	
Ethyl methacrylate	ug/L	200	196	98	69-133	
Ethylbenzene	ug/L	50	53.7	107	66-133	
Hexachloro-1,3-butadiene	ug/L	50	50.5	101	59-145	
Iodomethane	ug/L	100	99.0	99	21-170	
Isopropylbenzene (Cumene)	ug/L	50	53.2	106	69-124	
Methyl-tert-butyl ether	ug/L	100	109	109	69-122	
Methylene Chloride	ug/L	50	50.4	101	68-132	
n-Butylbenzene	ug/L	50	52.3	105	70-126	
n-Hexane	ug/L	50	44.6	89	51-125	N2
n-Propylbenzene	ug/L	50	56.8	114	71-122	
Naphthalene	ug/L	50	54.1	108	68-127	
p-Isopropyltoluene	ug/L	50	55.1	110	72-132	
sec-Butylbenzene	ug/L	50	56.8	114	70-128	
Styrene	ug/L	50	50.9	102	74-126	

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QUALITY CONTROL DATA

Project: Former Carpenter Mfg
Pace Project No.: 5078197

LABORATORY CONTROL SAMPLE: 896807

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butylbenzene	ug/L	50	43.4	87	51-118	
Tetrachloroethene	ug/L	50	52.3	105	69-130	
Toluene	ug/L	50	53.3	107	72-122	
trans-1,2-Dichloroethene	ug/L	50	53.7	107	72-124	
trans-1,3-Dichloropropene	ug/L	50	48.5	97	64-121	
trans-1,4-Dichloro-2-butene	ug/L	200	210	105	56-133	
Trichloroethene	ug/L	50	53.4	107	76-126	
Trichlorofluoromethane	ug/L	50	60.4	121	76-149	
Vinyl acetate	ug/L	200	210	105	70-130	
Vinyl chloride	ug/L	50	46.8	94	59-126	
Xylene (Total)	ug/L	150	172	115	70-124	
4-Bromofluorobenzene (S)	%.			97	80-114	
Dibromofluoromethane (S)	%.			101	79-116	
Toluene-d8 (S)	%.			100	81-110	

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QUALITY CONTROL DATA

Project: Former Carpenter Mfg
Pace Project No.: 5078197

QC Batch: MSV/51966 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 5078197005, 5078197006, 5078197007, 5078197008, 5078197009, 5078197010, 5078197011

METHOD BLANK: 897297 Matrix: Water
Associated Lab Samples: 5078197005, 5078197006, 5078197007, 5078197008, 5078197009, 5078197010, 5078197011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	04/09/13 14:02	
1,1,1-Trichloroethane	ug/L	ND	5.0	04/09/13 14:02	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	04/09/13 14:02	
1,1,2-Trichloroethane	ug/L	ND	5.0	04/09/13 14:02	
1,1-Dichloroethane	ug/L	ND	5.0	04/09/13 14:02	
1,1-Dichloroethene	ug/L	ND	5.0	04/09/13 14:02	
1,1-Dichloropropene	ug/L	ND	5.0	04/09/13 14:02	
1,2,3-Trichlorobenzene	ug/L	ND	5.0	04/09/13 14:02	
1,2,3-Trichloropropane	ug/L	ND	5.0	04/09/13 14:02	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	04/09/13 14:02	
1,2,4-Trimethylbenzene	ug/L	ND	5.0	04/09/13 14:02	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	04/09/13 14:02	
1,2-Dichlorobenzene	ug/L	ND	5.0	04/09/13 14:02	
1,2-Dichloroethane	ug/L	ND	5.0	04/09/13 14:02	
1,2-Dichloropropane	ug/L	ND	5.0	04/09/13 14:02	
1,3,5-Trimethylbenzene	ug/L	ND	5.0	04/09/13 14:02	
1,3-Dichlorobenzene	ug/L	ND	5.0	04/09/13 14:02	
1,3-Dichloropropane	ug/L	ND	5.0	04/09/13 14:02	
1,4-Dichlorobenzene	ug/L	ND	5.0	04/09/13 14:02	
2,2-Dichloropropane	ug/L	ND	5.0	04/09/13 14:02	
2-Butanone (MEK)	ug/L	ND	25.0	04/09/13 14:02	
2-Chlorotoluene	ug/L	ND	5.0	04/09/13 14:02	
2-Hexanone	ug/L	ND	25.0	04/09/13 14:02	
4-Chlorotoluene	ug/L	ND	5.0	04/09/13 14:02	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25.0	04/09/13 14:02	
Acetone	ug/L	ND	100	04/09/13 14:02	
Acrolein	ug/L	ND	50.0	04/09/13 14:02	
Acrylonitrile	ug/L	ND	100	04/09/13 14:02	
Benzene	ug/L	ND	5.0	04/09/13 14:02	
Bromobenzene	ug/L	ND	5.0	04/09/13 14:02	
Bromochloromethane	ug/L	ND	5.0	04/09/13 14:02	
Bromodichloromethane	ug/L	ND	5.0	04/09/13 14:02	
Bromoform	ug/L	ND	5.0	04/09/13 14:02	
Bromomethane	ug/L	ND	5.0	04/09/13 14:02	
Carbon disulfide	ug/L	ND	10.0	04/09/13 14:02	
Carbon tetrachloride	ug/L	ND	5.0	04/09/13 14:02	
Chlorobenzene	ug/L	ND	5.0	04/09/13 14:02	
Chloroethane	ug/L	ND	5.0	04/09/13 14:02	
Chloroform	ug/L	ND	5.0	04/09/13 14:02	
Chloromethane	ug/L	ND	5.0	04/09/13 14:02	
cis-1,2-Dichloroethene	ug/L	ND	5.0	04/09/13 14:02	
cis-1,3-Dichloropropene	ug/L	ND	5.0	04/09/13 14:02	
Dibromochloromethane	ug/L	ND	5.0	04/09/13 14:02	

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QUALITY CONTROL DATA

Project: Former Carpenter Mfg
Pace Project No.: 5078197

METHOD BLANK: 897297 Matrix: Water

Associated Lab Samples: 5078197005, 5078197006, 5078197007, 5078197008, 5078197009, 5078197010, 5078197011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/L	ND	5.0	04/09/13 14:02	
Dichlorodifluoromethane	ug/L	ND	5.0	04/09/13 14:02	
Ethyl methacrylate	ug/L	ND	100	04/09/13 14:02	
Ethylbenzene	ug/L	ND	5.0	04/09/13 14:02	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	04/09/13 14:02	
Iodomethane	ug/L	ND	10.0	04/09/13 14:02	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	04/09/13 14:02	
Methyl-tert-butyl ether	ug/L	ND	4.0	04/09/13 14:02	
Methylene Chloride	ug/L	ND	5.0	04/09/13 14:02	
n-Butylbenzene	ug/L	ND	5.0	04/09/13 14:02	
n-Hexane	ug/L	ND	5.0	04/09/13 14:02	N2
n-Propylbenzene	ug/L	ND	5.0	04/09/13 14:02	
Naphthalene	ug/L	ND	5.0	04/09/13 14:02	
p-Isopropyltoluene	ug/L	ND	5.0	04/09/13 14:02	
sec-Butylbenzene	ug/L	ND	5.0	04/09/13 14:02	
Styrene	ug/L	ND	5.0	04/09/13 14:02	
tert-Butylbenzene	ug/L	ND	5.0	04/09/13 14:02	
Tetrachloroethene	ug/L	ND	5.0	04/09/13 14:02	
Toluene	ug/L	ND	5.0	04/09/13 14:02	
trans-1,2-Dichloroethene	ug/L	ND	5.0	04/09/13 14:02	
trans-1,3-Dichloropropene	ug/L	ND	5.0	04/09/13 14:02	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	04/09/13 14:02	
Trichloroethene	ug/L	ND	5.0	04/09/13 14:02	
Trichlorofluoromethane	ug/L	ND	5.0	04/09/13 14:02	
Vinyl acetate	ug/L	ND	50.0	04/09/13 14:02	
Vinyl chloride	ug/L	ND	2.0	04/09/13 14:02	
Xylene (Total)	ug/L	ND	10.0	04/09/13 14:02	
4-Bromofluorobenzene (S)	%.	96	80-114	04/09/13 14:02	
Dibromofluoromethane (S)	%.	101	79-116	04/09/13 14:02	
Toluene-d8 (S)	%.	101	81-110	04/09/13 14:02	

LABORATORY CONTROL SAMPLE: 897298

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	56.3	113	61-135	
1,1,1-Trichloroethane	ug/L	50	52.7	105	71-129	
1,1,2,2-Tetrachloroethane	ug/L	50	50.8	102	66-126	
1,1,2-Trichloroethane	ug/L	50	53.5	107	77-130	
1,1-Dichloroethane	ug/L	50	49.2	98	75-130	
1,1-Dichloroethene	ug/L	50	59.5	119	68-127	
1,1-Dichloropropene	ug/L	50	54.8	110	78-130	
1,2,3-Trichlorobenzene	ug/L	50	53.6	107	70-130	
1,2,3-Trichloropropane	ug/L	50	49.4	99	58-142	
1,2,4-Trichlorobenzene	ug/L	50	53.2	106	68-131	
1,2,4-Trimethylbenzene	ug/L	50	55.7	111	69-127	

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QUALITY CONTROL DATA

Project: Former Carpenter Mfg
Pace Project No.: 5078197

LABORATORY CONTROL SAMPLE: 897298

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	50	50.6	101	76-125	
1,2-Dichlorobenzene	ug/L	50	55.9	112	75-123	
1,2-Dichloroethane	ug/L	50	52.3	105	75-128	
1,2-Dichloropropane	ug/L	50	51.1	102	74-121	
1,3,5-Trimethylbenzene	ug/L	50	57.0	114	70-126	
1,3-Dichlorobenzene	ug/L	50	54.0	108	74-122	
1,3-Dichloropropane	ug/L	50	52.1	104	74-123	
1,4-Dichlorobenzene	ug/L	50	55.4	111	76-120	
2,2-Dichloropropane	ug/L	50	55.8	112	50-137	
2-Butanone (MEK)	ug/L	250	253	101	58-139	
2-Chlorotoluene	ug/L	50	56.1	112	74-122	
2-Hexanone	ug/L	250	257	103	54-140	
4-Chlorotoluene	ug/L	50	59.9	120	77-123	
4-Methyl-2-pentanone (MIBK)	ug/L	250	242	97	58-138	
Acetone	ug/L	250	353	141	49-150	
Acrolein	ug/L	1000	1130	113	41-200	
Acrylonitrile	ug/L	1000	1030	103	63-137	
Benzene	ug/L	50	53.3	107	74-122	
Bromobenzene	ug/L	50	54.1	108	72-127	
Bromochloromethane	ug/L	50	56.6	113	63-132	
Bromodichloromethane	ug/L	50	57.0	114	62-136	
Bromoform	ug/L	50	48.3	97	44-134	
Bromomethane	ug/L	50	116	232	22-181	L3
Carbon disulfide	ug/L	100	121	121	59-132	
Carbon tetrachloride	ug/L	50	54.6	109	56-137	
Chlorobenzene	ug/L	50	56.0	112	78-123	
Chloroethane	ug/L	50	56.6	113	60-144	
Chloroform	ug/L	50	57.2	114	78-126	
Chloromethane	ug/L	50	55.7	111	42-134	
cis-1,2-Dichloroethene	ug/L	50	51.5	103	75-122	
cis-1,3-Dichloropropene	ug/L	50	54.5	109	64-126	
Dibromochloromethane	ug/L	50	51.0	102	58-128	
Dibromomethane	ug/L	50	49.4	99	73-125	
Dichlorodifluoromethane	ug/L	50	75.5	151	35-181	
Ethyl methacrylate	ug/L	200	203	101	69-133	
Ethylbenzene	ug/L	50	57.4	115	66-133	
Hexachloro-1,3-butadiene	ug/L	50	52.0	104	59-145	
Iodomethane	ug/L	100	112	112	21-170	
Isopropylbenzene (Cumene)	ug/L	50	55.8	112	69-124	
Methyl-tert-butyl ether	ug/L	100	115	115	69-122	
Methylene Chloride	ug/L	50	53.1	106	68-132	
n-Butylbenzene	ug/L	50	53.3	107	70-126	
n-Hexane	ug/L	50	53.4	107	51-125	N2
n-Propylbenzene	ug/L	50	58.3	117	71-122	
Naphthalene	ug/L	50	55.5	111	68-127	
p-Isopropyltoluene	ug/L	50	56.1	112	72-132	
sec-Butylbenzene	ug/L	50	58.1	116	70-128	
Styrene	ug/L	50	52.2	104	74-126	

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QUALITY CONTROL DATA

Project: Former Carpenter Mfg
Pace Project No.: 5078197

LABORATORY CONTROL SAMPLE: 897298

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butylbenzene	ug/L	50	44.4	89	51-118	
Tetrachloroethene	ug/L	50	55.5	111	69-130	
Toluene	ug/L	50	54.9	110	72-122	
trans-1,2-Dichloroethene	ug/L	50	56.9	114	72-124	
trans-1,3-Dichloropropene	ug/L	50	50.4	101	64-121	
trans-1,4-Dichloro-2-butene	ug/L	200	228	114	56-133	
Trichloroethene	ug/L	50	56.2	112	76-126	
Trichlorofluoromethane	ug/L	50	67.9	136	76-149	
Vinyl acetate	ug/L	200	224	112	70-130	
Vinyl chloride	ug/L	50	53.9	108	59-126	
Xylene (Total)	ug/L	150	178	119	70-124	
4-Bromofluorobenzene (S)	%.			96	80-114	
Dibromofluoromethane (S)	%.			104	79-116	
Toluene-d8 (S)	%.			99	81-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 897299 897300

Parameter	Units	5078197007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	50	50	35.5	45.7	71	91	50-132	25	20	
1,1,1-Trichloroethane	ug/L	ND	50	50	36.5	45.5	73	91	60-138	22	20	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	50	30.8	40.9	62	82	55-128	28	20	
1,1,2-Trichloroethane	ug/L	ND	50	50	35.3	43.8	71	88	61-139	22	20	
1,1-Dichloroethane	ug/L	ND	50	50	34.1	42.5	68	85	57-147	22	20	
1,1-Dichloroethene	ug/L	ND	50	50	41.8	52.7	84	105	55-145	23	20	
1,1-Dichloropropene	ug/L	ND	50	50	38.1	47.5	76	95	55-147	22	20	
1,2,3-Trichlorobenzene	ug/L	ND	50	50	35.4	44.1	71	88	31-141	22	20	
1,2,3-Trichloropropane	ug/L	ND	50	50	31.0	40.2	62	80	58-133	26	20	
1,2,4-Trichlorobenzene	ug/L	ND	50	50	35.9	43.2	72	86	25-143	18	20	
1,2,4-Trimethylbenzene	ug/L	ND	50	50	42.7	46.3	85	93	18-149	8	20	
1,2-Dibromoethane (EDB)	ug/L	ND	50	50	32.8	41.8	66	84	63-129	24	20	
1,2-Dichlorobenzene	ug/L	ND	50	50	36.3	45.3	73	91	38-136	22	20	
1,2-Dichloroethane	ug/L	ND	50	50	36.2	43.6	72	87	62-138	18	20	
1,2-Dichloropropane	ug/L	ND	50	50	34.7	42.1	69	84	59-130	19	20	
1,3,5-Trimethylbenzene	ug/L	ND	50	50	40.2	48.7	80	97	20-147	19	20	
1,3-Dichlorobenzene	ug/L	ND	50	50	35.2	43.6	70	87	28-141	21	20	
1,3-Dichloropropane	ug/L	ND	50	50	33.6	42.1	67	84	62-127	22	20	
1,4-Dichlorobenzene	ug/L	ND	50	50	36.3	45.2	73	90	30-139	22	20	
2,2-Dichloropropane	ug/L	ND	50	50	37.4	46.8	75	94	37-139	22	20	
2-Butanone (MEK)	ug/L	ND	250	250	139	183	56	73	37-156	27	20	
2-Chlorotoluene	ug/L	ND	50	50	39.0	47.3	78	95	27-142	19	20	
2-Hexanone	ug/L	ND	250	250	145	193	58	77	44-143	29	20	
4-Chlorotoluene	ug/L	ND	50	50	39.1	48.8	78	98	27-144	22	20	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	250	250	150	196	60	78	46-144	27	20	
Acetone	ug/L	ND	250	250	175	225	70	90	39-156	25	20	
Acrolein	ug/L	ND	1000	1000	867	1140	87	114	33-200	27	20	
Acrylonitrile	ug/L	ND	1000	1000	639	834	64	83	48-149	26	20	

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QUALITY CONTROL DATA

Project: Former Carpenter Mfg
Pace Project No.: 5078197

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 897299 897300

Parameter	Units	5078197007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	22.1	50	50	60.7	69.4	77	95	62-129	13	20	
Bromobenzene	ug/L	ND	50	50	35.6	45.0	71	90	39-140	23	20	
Bromochloromethane	ug/L	ND	50	50	39.5	48.3	79	97	49-142	20	20	
Bromodichloromethane	ug/L	ND	50	50	37.0	46.5	74	93	50-142	23	20	
Bromoform	ug/L	ND	50	50	28.0	37.5	56	75	36-125	29	20	
Bromomethane	ug/L	ND	50	50	96.1	130	192	260	13-179	30	20	M0
Carbon disulfide	ug/L	ND	100	100	85.9	107	86	107	45-142	22	20	
Carbon tetrachloride	ug/L	ND	50	50	36.1	46.2	72	92	46-142	25	20	
Chlorobenzene	ug/L	ND	50	50	37.1	46.1	74	92	49-136	22	20	
Chloroethane	ug/L	ND	50	50	41.3	50.9	83	102	47-160	21	20	
Chloroform	ug/L	ND	50	50	38.8	48.3	78	97	54-150	22	20	
Chloromethane	ug/L	ND	50	50	38.1	47.5	76	95	30-148	22	20	
cis-1,2-Dichloroethene	ug/L	ND	50	50	34.9	42.7	70	85	60-135	20	20	
cis-1,3-Dichloropropene	ug/L	ND	50	50	35.3	44.6	71	89	52-123	23	20	
Dibromochloromethane	ug/L	ND	50	50	31.8	41.3	64	83	48-125	26	20	
Dibromomethane	ug/L	ND	50	50	32.7	40.9	65	82	59-134	23	20	
Dichlorodifluoromethane	ug/L	ND	50	50	54.6	67.2	109	134	24-197	21	20	
Ethyl methacrylate	ug/L	ND	200	200	129	164	65	82	55-139	24	20	
Ethylbenzene	ug/L	17.6	50	50	58.7	66.8	82	98	28-153	13	20	
Hexachloro-1,3-butadiene	ug/L	ND	50	50	36.7	44.1	73	88	10-176	18	20	
Iodomethane	ug/L	ND	100	100	65.0	102	65	102	17-157	44	20	
Isopropylbenzene (Cumene)	ug/L	ND	50	50	43.1	52.1	81	99	18-152	19	20	
Methyl-tert-butyl ether	ug/L	5.3	100	100	83.7	104	78	98	63-130	21	20	
Methylene Chloride	ug/L	ND	50	50	35.2	44.4	70	89	45-156	23	20	
n-Butylbenzene	ug/L	ND	50	50	38.1	45.8	76	92	10-161	18	20	
n-Hexane	ug/L	ND	50	50	37.7	45.7	75	91	33-144	19	20	N2
n-Propylbenzene	ug/L	ND	50	50	41.4	50.2	83	100	16-150	19	20	
Naphthalene	ug/L	ND	50	50	35.3	44.6	68	86	39-140	23	20	
p-Isopropyltoluene	ug/L	ND	50	50	38.2	47.3	76	95	10-163	21	20	
sec-Butylbenzene	ug/L	ND	50	50	39.9	49.7	80	99	10-160	22	20	
Styrene	ug/L	ND	50	50	35.6	44.0	71	88	36-139	21	20	
tert-Butylbenzene	ug/L	ND	50	50	31.6	37.9	63	76	12-134	18	20	
Tetrachloroethene	ug/L	ND	50	50	38.1	46.8	76	94	33-151	21	20	
Toluene	ug/L	ND	50	50	40.7	48.5	81	97	50-132	17	20	
trans-1,2-Dichloroethene	ug/L	ND	50	50	39.6	49.4	79	99	40-153	22	20	
trans-1,3-Dichloropropene	ug/L	ND	50	50	32.1	41.0	64	82	48-122	24	20	
trans-1,4-Dichloro-2-butene	ug/L	ND	200	200	131	175	66	87	32-139	29	20	
Trichloroethene	ug/L	ND	50	50	38.6	47.8	77	96	50-143	21	20	
Trichlorofluoromethane	ug/L	ND	50	50	48.4	59.4	97	119	60-175	20	20	
Vinyl acetate	ug/L	ND	200	200	139	175	69	88	70-130	23	20	M0
Vinyl chloride	ug/L	ND	50	50	37.5	47.2	75	94	44-145	23	20	
Xylene (Total)	ug/L	ND	150	150	130	154	86	103	29-145	17	20	
4-Bromofluorobenzene (S)	%.						97	97	80-114			
Dibromofluoromethane (S)	%.						104	104	79-116			1d
Toluene-d8 (S)	%.						100	99	81-110			

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QUALITY CONTROL DATA

Project: Former Carpenter Mfg
Pace Project No.: 5078197

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 897367 897368

Parameter	Units	5078203001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	50	50	50.3	46.0	101	92	50-132	9	20	
1,1,1-Trichloroethane	ug/L	13.0	50	50	62.5	62.1	99	98	60-138	1	20	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	50	43.1	40.2	86	80	55-128	7	20	
1,1,2-Trichloroethane	ug/L	ND	50	50	46.4	44.2	93	88	61-139	5	20	
1,1-Dichloroethane	ug/L	43.1	50	50	84.9	85.2	84	84	57-147	0	20	
1,1-Dichloroethene	ug/L	ND	50	50	54.5	50.4	109	101	55-145	8	20	
1,1-Dichloropropene	ug/L	ND	50	50	50.5	45.3	101	91	55-147	11	20	
1,2,3-Trichlorobenzene	ug/L	ND	50	50	48.4	42.2	97	84	31-141	14	20	
1,2,3-Trichloropropane	ug/L	ND	50	50	42.2	37.5	84	75	58-133	12	20	
1,2,4-Trichlorobenzene	ug/L	ND	50	50	47.2	42.1	94	84	25-143	11	20	
1,2,4-Trimethylbenzene	ug/L	ND	50	50	50.9	45.3	102	91	18-149	12	20	
1,2-Dibromoethane (EDB)	ug/L	ND	50	50	44.3	41.8	89	84	63-129	6	20	
1,2-Dichlorobenzene	ug/L	ND	50	50	50.7	46.0	101	92	38-136	10	20	
1,2-Dichloroethane	ug/L	ND	50	50	45.7	42.4	91	85	62-138	8	20	
1,2-Dichloropropane	ug/L	ND	50	50	45.6	42.1	91	84	59-130	8	20	
1,3,5-Trimethylbenzene	ug/L	ND	50	50	52.6	45.8	105	92	20-147	14	20	
1,3-Dichlorobenzene	ug/L	ND	50	50	48.3	43.2	97	86	28-141	11	20	
1,3-Dichloropropane	ug/L	ND	50	50	44.3	42.3	89	85	62-127	5	20	
1,4-Dichlorobenzene	ug/L	ND	50	50	47.9	43.6	96	87	30-139	9	20	
2,2-Dichloropropane	ug/L	ND	50	50	50.7	45.9	101	92	37-139	10	20	
2-Butanone (MEK)	ug/L	ND	250	250	197	175	79	70	37-156	12	20	
2-Chlorotoluene	ug/L	ND	50	50	50.8	45.2	102	90	27-142	12	20	
2-Hexanone	ug/L	ND	250	250	207	188	83	75	44-143	10	20	
4-Chlorotoluene	ug/L	ND	50	50	52.9	48.0	106	96	27-144	10	20	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	250	250	213	194	85	77	46-144	10	20	
Acetone	ug/L	ND	250	250	250	224	92	82	39-156	11	20	
Acrolein	ug/L	ND	1000	1000	938	1050	94	105	33-200	11	20	
Acrylonitrile	ug/L	ND	1000	1000	850	789	85	79	48-149	7	20	
Benzene	ug/L	ND	50	50	47.7	44.2	95	88	62-129	7	20	
Bromobenzene	ug/L	ND	50	50	48.2	44.3	96	89	39-140	8	20	
Bromochloromethane	ug/L	ND	50	50	54.6	49.6	109	99	49-142	10	20	
Bromodichloromethane	ug/L	ND	50	50	51.7	47.6	103	95	50-142	8	20	
Bromoform	ug/L	ND	50	50	42.8	38.7	86	77	36-125	10	20	
Bromomethane	ug/L	ND	50	50	88.8	51.4	178	103	13-179	53	20	R1
Carbon disulfide	ug/L	ND	100	100	119	110	119	110	45-142	8	20	
Carbon tetrachloride	ug/L	ND	50	50	51.9	45.9	104	92	46-142	12	20	
Chlorobenzene	ug/L	ND	50	50	50.4	46.4	101	93	49-136	8	20	
Chloroethane	ug/L	ND	50	50	57.6	92.3	115	185	47-160	46	20	M0,R1
Chloroform	ug/L	ND	50	50	51.5	47.1	103	94	54-150	9	20	
Chloromethane	ug/L	ND	50	50	50.4	46.1	101	92	30-148	9	20	
cis-1,2-Dichloroethene	ug/L	37.3	50	50	79.0	113	83	150	60-135	35	20	M0,R1
cis-1,3-Dichloropropene	ug/L	ND	50	50	48.0	45.3	96	91	52-123	6	20	
Dibromochloromethane	ug/L	ND	50	50	45.5	42.6	91	85	48-125	6	20	
Dibromomethane	ug/L	ND	50	50	44.1	40.9	88	82	59-134	8	20	
Dichlorodifluoromethane	ug/L	ND	50	50	67.7	64.0	135	128	24-197	6	20	
Ethyl methacrylate	ug/L	ND	200	200	179	165	89	82	55-139	8	20	
Ethylbenzene	ug/L	ND	50	50	52.0	47.6	104	95	28-153	9	20	

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QUALITY CONTROL DATA

Project: Former Carpenter Mfg
Pace Project No.: 5078197

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 897367 897368

Parameter	Units	5078203001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Hexachloro-1,3-butadiene	ug/L	ND	50	50	48.3	41.4	97	83	10-176	15	20	
Iodomethane	ug/L	ND	100	100	112	79.8	112	80	17-157	34	20	R1
Isopropylbenzene (Cumene)	ug/L	ND	50	50	50.9	46.0	102	92	18-152	10	20	
Methyl-tert-butyl ether	ug/L	ND	100	100	99.7	90.6	100	91	63-130	10	20	
Methylene Chloride	ug/L	ND	50	50	45.6	43.7	91	87	45-156	4	20	
n-Butylbenzene	ug/L	ND	50	50	49.6	42.4	99	85	10-161	16	20	
n-Hexane	ug/L	ND	50	50	49.3	41.8	99	84	33-144	16	20	N2
n-Propylbenzene	ug/L	ND	50	50	52.8	46.7	106	93	16-150	12	20	
Naphthalene	ug/L	ND	50	50	48.8	43.4	96	86	39-140	12	20	
p-Isopropyltoluene	ug/L	ND	50	50	51.2	45.3	102	91	10-163	12	20	
sec-Butylbenzene	ug/L	ND	50	50	53.3	46.6	107	93	10-160	13	20	
Styrene	ug/L	ND	50	50	46.2	43.2	92	86	36-139	7	20	
tert-Butylbenzene	ug/L	ND	50	50	41.0	36.5	82	73	12-134	12	20	
Tetrachloroethene	ug/L	ND	50	50	50.9	46.1	102	92	33-151	10	20	
Toluene	ug/L	ND	50	50	53.9	48.8	104	93	50-132	10	20	
trans-1,2-Dichloroethene	ug/L	43.1	50	50	91.6	98.8	97	111	40-153	8	20	
trans-1,3-Dichloropropene	ug/L	ND	50	50	44.9	41.9	90	84	48-122	7	20	
trans-1,4-Dichloro-2-butene	ug/L	ND	200	200	191	169	95	84	32-139	12	20	
Trichloroethene	ug/L	ND	50	50	51.7	46.2	103	92	50-143	11	20	
Trichlorofluoromethane	ug/L	ND	50	50	61.3	58.7	123	117	60-175	4	20	
Vinyl acetate	ug/L	ND	200	200	190	165	95	83	70-130	14	20	
Vinyl chloride	ug/L	65.0	50	50	99.2	180	68	229	44-145	58	20	M0,R1
Xylene (Total)	ug/L	ND	150	150	167	152	111	102	29-145	9	20	
4-Bromofluorobenzene (S)	%.						96	98	80-114			
Dibromofluoromethane (S)	%.						104	102	79-116			
Toluene-d8 (S)	%.						100	101	81-110			

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QUALIFIERS

Project: Former Carpenter Mfg
Pace Project No.: 5078197

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

1d	RPD value was outside control limits for several compounds. RSW 04/10/13
L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
N2	The lab does not hold TNI accreditation for this parameter.
R1	RPD value was outside control limits.

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Indianapolis, IN 46268
(317)875-5894

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Former Carpenter Mfg
Pace Project No.: 5078197

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
5078197001	**Manhole #8**	EPA 8260	MSV/51925		
5078197002	**P-28**	EPA 8260	MSV/51925		
5078197003	**P-24**	EPA 8260	MSV/51925		
5078197004	**P-26**	EPA 8260	MSV/51925		
5078197005	**P-29**	EPA 8260	MSV/51966		
5078197006	**P-25**	EPA 8260	MSV/51966		
5078197007	**P-30**	EPA 8260	MSV/51966		
5078197008	**P-22**	EPA 8260	MSV/51966		
5078197009	**Field Dup**	EPA 8260	MSV/51966		
5078197010	**Equipment Blank**	EPA 8260	MSV/51966		
5078197011	**Trip Blank**	EPA 8260	MSV/51966		

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CHAIN-OF-CUSTODY / Analytical Request Document

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

MM

Page: 1 of 1

1601498

Section A Required Client Information:

Company: Weaver Boos Consultants
Address: 4085 Meyer Barker Rd, South Bend, IN
Email To: SSTanford@weaverboos.com
Phone: 574-271-3447 Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To: Steven S Tanford
Copy To: Grant Baker; gbaker@weaverboos.com
Purchase Order No.:
Project Name: Former Coppes MGP
Project Number: 2559-353-08

Section C Invoice Information:

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

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

Site Location STATE: IN

Section D Required Client Information

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

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

Requested Analysis Filtered (Y/N): Analysis Test: VOC

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start DATE	Composite Start TIME	Composite End/Grab DATE	Composite End/Grab TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	VOC	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	Manhole #8	WT	G			3-28-13	0830		3				3					X		50748197-001
2	P-28	WT	G				1030													-002
3	P-24	WT	G				1110													-003
4	P-26	WT	G				1150													-004
5	P-29	WT	G				1230													-005
6	P-25	WT	G				1320													-006
7	P-30	WT	G				1430													-007
8	P-22	WT	G				1530													-008
9	Field Dup	WT	G				—													-009
10	Equipment Blank	WT	G				1340													-010
11	MS	WT	G				1440													-011
12	MSD	WT	G				1450													(-007)

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Level IV, per Steve S.	[signature] / WBC	3-28-13	1600	[signature] / WBC	3-28-13	1600				
	[signature] / WBC	3-29-13	1346	Colette Weaver / PACE	03-29-13	1346	5.5C	Y	N	Y
TRIP BLANK ADDED -011										

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Grant Baker

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 3-28-13

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

ORIGINAL

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

Sample Condition Upon Receipt

Pace Analytical

Client Name: Weaver Bros Project # SC78197

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Commercial ☐ Pace Other _____

Tracking #: _____

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

Date/Time 5035A kits placed in freezer _____

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☑ Other foam voc holder

Thermometer Used 1 2 3 4 5 A B C D E Type of Ice: Wet Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature (Corrected, if applicable) 5.5c Ice Visible in Sample Containers: ☐ yes ☑ no

Temp should be above freezing to 6°C

Date and Initials of person examining contents: 032913 CW

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	5.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	6.
Containers Intact:	☑Yes ☐No ☐N/A	7.
Sample Labels match COC: -Includes date/time/ID/Analysis	☐Yes ☑No ☐N/A	8. See # 11
All containers needing acid/base pres. have been checked? exceptions: VOA, coliform, TOC, O&G	☐Yes ☑No ☐N/A	9. (Circle) HNO3 H2SO4 NaOH HCl
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☑N/A	
Headspace in VOA Vials (>6mm)	☐Yes ☑No ☐N/A	10.
Trip Blank Present:	☑Yes ☐No ☐N/A	11. Rcvd trip blank not listed on COC
Trip Blank Custody Seals Present	☑Yes ☐No ☐N/A	
Project Manager Review		
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	12.
Sufficient Volume:	☑Yes ☐No ☐N/A	13.
Correct Containers Used:	☑Yes ☐No ☐N/A	14.

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: [signature] Date: 3-29-13

Form F-IN-Q290-rev.04, 28Apr2011

Sample Container Count

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CLIENT: Weaver Boos

COC PAGE 1 of 1
COC ID# 1601498

Project # S078 P7

Sample Line Item	DG9H	AG1U	WGFU	AG0U	R 4/6	BP2N	BP2U	BP2S	BP3N	BP3U	BP3S	AG3S	AG1H			Comments
1	3															
2																
3																
4																
5																
6																
7																
8																
9																
10																
11																
12	3															
13	3															

Container Codes

DG9H	40mL HCL amber voa vial	AG0U	100mL unpreserved amber glass	BP1N	1 liter HNO3 plastic	DG9P	40mL TSP amber vial
AG1U	1liter unpreserved amber glass	AG1H	1 liter HCL amber glass	BP1S	1 liter H2SO4 plastic	DG9S	40mL H2SO4 amber vial
WGFU	4oz clear soil jar	AG1S	1 liter H2SO4 amber glass	BP1U	1 liter unpreserved plastic	DG9T	40mL Na Thio amber vial
R	terra core kit	AG1T	1 liter Na Thiosulfate amber gl	BP1Z	1 liter NaOH, Zn, Ac	DG9U	40mL unpreserved amber vial
BP2N	500mL HNO3 plastic	AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plastic	I	Wipe/Swab
BP2U	500mL unpreserved plastic	AG2S	500mL H2SO4 amber glass	BP2O	500mL NaOH plastic	JGFU	4oz unpreserved amber wide
BP2S	500mL H2SO4 plastic	AG2U	500mL unpreserved amber gla	BP2Z	500mL NaOH, Zn Ac	U	Summa Can
BP3N	250mL HNO3 plastic	AG3U	250mL unpreserved amber gla	AF	Air Filter	VG9H	40mL HCL clear vial
BP3U	250mL unpreserved plastic	BG1H	1 liter HCL clear glass	BP3C	250mL NaOH plastic	VG9T	40mL Na Thio. clear vial
BP3S	250mL H2SO4 plastic	BG1S	1 liter H2SO4 clear glass	BP3Z	250mL NaOH, Zn Ac plastic	VG9U	40mL unpreserved clear vial
AG3S	250mL H2SO4 glass amber	BG1T	1 liter Na Thiosulfate clear gla	C	Air Cassettes	VSG	Headspace septa vial & HCL
AG1S	1 liter H2SO4 amber glass	BG1U	1 liter unpreserved glass	DG9B	40mL Na Bisulfate amber vial	WGFX	4oz wide jar w/hexane wipe
BP1U	1 liter unpreserved plastic	BP1A	1 liter NaOH, Asc Acid plastic	DG9M	40mL MeOH clear vial	ZPLC	Ziploc Bag

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June 20, 2013

Mr. Steve Stanford
Weaver Boos & Gordon
4085 Meghan Beeler Court
South Bend, IN 46628

RE: Project: Former Carpenter Mfg
Pace Project No.: 5081618

Dear Mr. Stanford:
Enclosed are the analytical results for sample(s) received by the laboratory on June 06, 2013. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Lyle Cable

lyle.cable@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: Former Carpenter Mfg
Pace Project No.: 5081618

Indiana Certification IDs
7726 Moller Road, Indianapolis, IN 46268
Illinois Certification #: 200074
Indiana Certification #: C-49-06
Kansas Certification #: E-10247
Kentucky Certification #: 0042
Louisiana/NELAC Certification #: 04076
Ohio VAP Certification #: 101170-0
Pennsylvania Certification #: 68-04991
West Virginia Certification #: 330

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SAMPLE SUMMARY

Project: Former Carpenter Mfg
Pace Project No.: 5081618

Lab ID	Sample ID	Matrix	Date Collected	Date Received
5081618001	**Drum Sample #1**	Solid	06/06/13 12:00	06/06/13 18:30

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SAMPLE ANALYTE COUNT

Project: Former Carpenter Mfg
Pace Project No.: 5081618

Lab ID	Sample ID	Method	Analysts	Analytes Reported
5081618001	**Drum Sample #1**	EPA 6010	FRW	7
		EPA 7471	BKK	1
		EPA 8260	ALA	73
		ASTM D2974-87	ZM	1

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ANALYTICAL RESULTS

Project: Former Carpenter Mfg
Pace Project No.: 5081618

Sample: Drum Sample #1 **Lab ID: 5081618001** Collected: 06/06/13 12:00 Received: 06/06/13 18:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Arsenic	**4.0**	mg/kg	2.0	1	06/11/13 11:21	06/17/13 08:20	7440-38-2	
Barium	**82.8**	mg/kg	2.0	1	06/11/13 11:21	06/17/13 08:20	7440-39-3	
Cadmium	ND	mg/kg	2.0	1	06/11/13 11:21	06/17/13 08:20	7440-43-9	
Chromium	**11.9**	mg/kg	2.0	1	06/11/13 11:21	06/17/13 08:20	7440-47-3	
Lead	**5.8**	mg/kg	2.0	1	06/11/13 11:21	06/17/13 08:20	7439-92-1	
Selenium	ND	mg/kg	2.0	1	06/11/13 11:21	06/17/13 08:20	7782-49-2	
Silver	ND	mg/kg	2.0	1	06/11/13 11:21	06/17/13 08:20	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	ND	mg/kg	0.22	1	06/11/13 14:52	06/12/13 10:32	7439-97-6	
8260 MSV 5030 Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	117	1		06/19/13 06:42	67-64-1	
Acrolein	ND	ug/kg	117	1		06/19/13 06:42	107-02-8	
Acrylonitrile	ND	ug/kg	117	1		06/19/13 06:42	107-13-1	
Benzene	ND	ug/kg	5.8	1		06/19/13 06:42	71-43-2	
Bromobenzene	ND	ug/kg	5.8	1		06/19/13 06:42	108-86-1	
Bromochloromethane	ND	ug/kg	5.8	1		06/19/13 06:42	74-97-5	
Bromodichloromethane	ND	ug/kg	5.8	1		06/19/13 06:42	75-27-4	
Bromoform	ND	ug/kg	5.8	1		06/19/13 06:42	75-25-2	
Bromomethane	ND	ug/kg	5.8	1		06/19/13 06:42	74-83-9	
2-Butanone (MEK)	ND	ug/kg	29.2	1		06/19/13 06:42	78-93-3	
n-Butylbenzene	ND	ug/kg	5.8	1		06/19/13 06:42	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.8	1		06/19/13 06:42	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.8	1		06/19/13 06:42	98-06-6	
Carbon disulfide	ND	ug/kg	11.7	1		06/19/13 06:42	75-15-0	
Carbon tetrachloride	ND	ug/kg	5.8	1		06/19/13 06:42	56-23-5	
Chlorobenzene	ND	ug/kg	5.8	1		06/19/13 06:42	108-90-7	
Chloroethane	ND	ug/kg	5.8	1		06/19/13 06:42	75-00-3	
Chloroform	ND	ug/kg	5.8	1		06/19/13 06:42	67-66-3	
Chloromethane	ND	ug/kg	5.8	1		06/19/13 06:42	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.8	1		06/19/13 06:42	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.8	1		06/19/13 06:42	106-43-4	
Dibromochloromethane	ND	ug/kg	5.8	1		06/19/13 06:42	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.8	1		06/19/13 06:42	106-93-4	
Dibromomethane	ND	ug/kg	5.8	1		06/19/13 06:42	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.8	1		06/19/13 06:42	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.8	1		06/19/13 06:42	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.8	1		06/19/13 06:42	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	117	1		06/19/13 06:42	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	5.8	1		06/19/13 06:42	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.8	1		06/19/13 06:42	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.8	1		06/19/13 06:42	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.8	1		06/19/13 06:42	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.8	1		06/19/13 06:42	156-59-2	

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ANALYTICAL RESULTS

Project: Former Carpenter Mfg
Pace Project No.: 5081618

Sample: Drum Sample #1 **Lab ID: 5081618001** Collected: 06/06/13 12:00 Received: 06/06/13 18:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level	Analytical Method: EPA 8260							
trans-1,2-Dichloroethene	ND	ug/kg	5.8	1		06/19/13 06:42	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.8	1		06/19/13 06:42	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.8	1		06/19/13 06:42	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.8	1		06/19/13 06:42	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.8	1		06/19/13 06:42	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.8	1		06/19/13 06:42	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.8	1		06/19/13 06:42	10061-02-6	
Ethylbenzene	ND	ug/kg	5.8	1		06/19/13 06:42	100-41-4	
Ethyl methacrylate	ND	ug/kg	117	1		06/19/13 06:42	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	5.8	1		06/19/13 06:42	87-68-3	
n-Hexane	ND	ug/kg	5.8	1		06/19/13 06:42	110-54-3	N2
2-Hexanone	ND	ug/kg	117	1		06/19/13 06:42	591-78-6	
Iodomethane	ND	ug/kg	117	1		06/19/13 06:42	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/kg	5.8	1		06/19/13 06:42	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.8	1		06/19/13 06:42	99-87-6	
Methylene Chloride	ND	ug/kg	23.4	1		06/19/13 06:42	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	29.2	1		06/19/13 06:42	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.8	1		06/19/13 06:42	1634-04-4	
Naphthalene	ND	ug/kg	5.8	1		06/19/13 06:42	91-20-3	
n-Propylbenzene	ND	ug/kg	5.8	1		06/19/13 06:42	103-65-1	
Styrene	ND	ug/kg	5.8	1		06/19/13 06:42	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.8	1		06/19/13 06:42	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.8	1		06/19/13 06:42	79-34-5	
Tetrachloroethene	ND	ug/kg	5.8	1		06/19/13 06:42	127-18-4	
Toluene	ND	ug/kg	5.8	1		06/19/13 06:42	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.8	1		06/19/13 06:42	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.8	1		06/19/13 06:42	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.8	1		06/19/13 06:42	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.8	1		06/19/13 06:42	79-00-5	
Trichloroethene	ND	ug/kg	5.8	1		06/19/13 06:42	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.8	1		06/19/13 06:42	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.8	1		06/19/13 06:42	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.8	1		06/19/13 06:42	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.8	1		06/19/13 06:42	108-67-8	
Vinyl acetate	ND	ug/kg	117	1		06/19/13 06:42	108-05-4	
Vinyl chloride	ND	ug/kg	5.8	1		06/19/13 06:42	75-01-4	
Xylene (Total)	ND	ug/kg	11.7	1		06/19/13 06:42	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	106	%.	85-118	1		06/19/13 06:42	1868-53-7	
Toluene-d8 (S)	106	%.	71-128	1		06/19/13 06:42	2037-26-5	
4-Bromofluorobenzene (S)	87	%.	56-144	1		06/19/13 06:42	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**14.5**	%	0.10	1		06/10/13 16:00		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Former Carpenter Mfg
Pace Project No.: 5081618

QC Batch: MERP/4681
QC Batch Method: EPA 7471
Analysis Method: EPA 7471
Analysis Description: 7471 Mercury
Associated Lab Samples: 5081618001

METHOD BLANK: 929693
Matrix: Solid
Associated Lab Samples: 5081618001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	ND	0.20	06/12/13 09:47	

LABORATORY CONTROL SAMPLE: 929694

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	.5	0.54	108	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 929695 929696

Parameter	Units	5081452001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/kg	ND	.53	.52	0.56	0.57	101	106	75-125	2	20	

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QUALITY CONTROL DATA

Project: Former Carpenter Mfg
Pace Project No.: 5081618

QC Batch: MPRP/11434
QC Batch Method: EPA 3050
Analysis Method: EPA 6010
Analysis Description: 6010 MET
Associated Lab Samples: 5081618001

METHOD BLANK: 929601
Matrix: Solid
Associated Lab Samples: 5081618001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/kg	ND	2.0	06/17/13 08:16	
Barium	mg/kg	ND	2.0	06/17/13 08:16	
Cadmium	mg/kg	ND	2.0	06/17/13 08:16	
Chromium	mg/kg	ND	2.0	06/17/13 08:16	
Lead	mg/kg	ND	2.0	06/17/13 08:16	
Selenium	mg/kg	ND	2.0	06/17/13 08:16	
Silver	mg/kg	ND	2.0	06/17/13 08:16	

LABORATORY CONTROL SAMPLE: 929602

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	50	51.2	102	80-120	
Barium	mg/kg	50	49.0	98	80-120	
Cadmium	mg/kg	50	50.2	100	80-120	
Chromium	mg/kg	50	51.0	102	80-120	
Lead	mg/kg	50	49.3	99	80-120	
Selenium	mg/kg	50	50.4	101	80-120	
Silver	mg/kg	25	24.2	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 929603 929604

Parameter	Units	5081530008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/kg	5.4	62.3	61.8	88.4	62.5	133	92	75-125	34	20	1d,M0
Barium	mg/kg	153	62.3	61.8	213	191	96	62	75-125	11	20	M0
Cadmium	mg/kg	ND	62.3	61.8	58.4	57.7	94	93	75-125	1	20	
Chromium	mg/kg	11.8	62.3	61.8	70.9	71.4	95	96	75-125	1	20	
Lead	mg/kg	20.0	62.3	61.8	82.3	70.5	100	82	75-125	15	20	
Selenium	mg/kg	ND	62.3	61.8	53.3	53.5	86	87	75-125	1	20	
Silver	mg/kg	ND	31.1	30.9	28.0	27.9	89	90	75-125	0	20	

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QUALITY CONTROL DATA

Project: Former Carpenter Mfg
Pace Project No.: 5081618

QC Batch: MSV/54359
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV 5030 Low
Associated Lab Samples: 5081618001

METHOD BLANK: 934132
Matrix: Solid
Associated Lab Samples: 5081618001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.0	06/19/13 02:55	
1,1,1-Trichloroethane	ug/kg	ND	5.0	06/19/13 02:55	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	06/19/13 02:55	
1,1,2-Trichloroethane	ug/kg	ND	5.0	06/19/13 02:55	
1,1-Dichloroethane	ug/kg	ND	5.0	06/19/13 02:55	
1,1-Dichloroethene	ug/kg	ND	5.0	06/19/13 02:55	
1,1-Dichloropropene	ug/kg	ND	5.0	06/19/13 02:55	
1,2,3-Trichlorobenzene	ug/kg	ND	5.0	06/19/13 02:55	
1,2,3-Trichloropropane	ug/kg	ND	5.0	06/19/13 02:55	
1,2,4-Trichlorobenzene	ug/kg	ND	5.0	06/19/13 02:55	
1,2,4-Trimethylbenzene	ug/kg	ND	5.0	06/19/13 02:55	
1,2-Dibromoethane (EDB)	ug/kg	ND	5.0	06/19/13 02:55	
1,2-Dichlorobenzene	ug/kg	ND	5.0	06/19/13 02:55	
1,2-Dichloroethane	ug/kg	ND	5.0	06/19/13 02:55	
1,2-Dichloropropane	ug/kg	ND	5.0	06/19/13 02:55	
1,3,5-Trimethylbenzene	ug/kg	ND	5.0	06/19/13 02:55	
1,3-Dichlorobenzene	ug/kg	ND	5.0	06/19/13 02:55	
1,3-Dichloropropane	ug/kg	ND	5.0	06/19/13 02:55	
1,4-Dichlorobenzene	ug/kg	ND	5.0	06/19/13 02:55	
2,2-Dichloropropane	ug/kg	ND	5.0	06/19/13 02:55	
2-Butanone (MEK)	ug/kg	ND	25.0	06/19/13 02:55	
2-Chlorotoluene	ug/kg	ND	5.0	06/19/13 02:55	
2-Hexanone	ug/kg	ND	100	06/19/13 02:55	
4-Chlorotoluene	ug/kg	ND	5.0	06/19/13 02:55	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	25.0	06/19/13 02:55	
Acetone	ug/kg	ND	100	06/19/13 02:55	
Acrolein	ug/kg	ND	100	06/19/13 02:55	
Acrylonitrile	ug/kg	ND	100	06/19/13 02:55	
Benzene	ug/kg	ND	5.0	06/19/13 02:55	
Bromobenzene	ug/kg	ND	5.0	06/19/13 02:55	
Bromochloromethane	ug/kg	ND	5.0	06/19/13 02:55	
Bromodichloromethane	ug/kg	ND	5.0	06/19/13 02:55	
Bromoform	ug/kg	ND	5.0	06/19/13 02:55	
Bromomethane	ug/kg	ND	5.0	06/19/13 02:55	
Carbon disulfide	ug/kg	ND	10.0	06/19/13 02:55	
Carbon tetrachloride	ug/kg	ND	5.0	06/19/13 02:55	
Chlorobenzene	ug/kg	ND	5.0	06/19/13 02:55	
Chloroethane	ug/kg	ND	5.0	06/19/13 02:55	
Chloroform	ug/kg	ND	5.0	06/19/13 02:55	
Chloromethane	ug/kg	ND	5.0	06/19/13 02:55	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	06/19/13 02:55	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	06/19/13 02:55	
Dibromochloromethane	ug/kg	ND	5.0	06/19/13 02:55	

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QUALITY CONTROL DATA

Project: Former Carpenter Mfg
Pace Project No.: 5081618

METHOD BLANK: 934132 Matrix: Solid

Associated Lab Samples: 5081618001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/kg	ND	5.0	06/19/13 02:55	
Dichlorodifluoromethane	ug/kg	ND	5.0	06/19/13 02:55	
Ethyl methacrylate	ug/kg	ND	100	06/19/13 02:55	
Ethylbenzene	ug/kg	ND	5.0	06/19/13 02:55	
Hexachloro-1,3-butadiene	ug/kg	ND	5.0	06/19/13 02:55	
Iodomethane	ug/kg	ND	100	06/19/13 02:55	
Isopropylbenzene (Cumene)	ug/kg	ND	5.0	06/19/13 02:55	
Methyl-tert-butyl ether	ug/kg	ND	5.0	06/19/13 02:55	
Methylene Chloride	ug/kg	ND	20.0	06/19/13 02:55	
n-Butylbenzene	ug/kg	ND	5.0	06/19/13 02:55	
n-Hexane	ug/kg	ND	5.0	06/19/13 02:55	N2
n-Propylbenzene	ug/kg	ND	5.0	06/19/13 02:55	
Naphthalene	ug/kg	ND	5.0	06/19/13 02:55	
p-Isopropyltoluene	ug/kg	ND	5.0	06/19/13 02:55	
sec-Butylbenzene	ug/kg	ND	5.0	06/19/13 02:55	
Styrene	ug/kg	ND	5.0	06/19/13 02:55	
tert-Butylbenzene	ug/kg	ND	5.0	06/19/13 02:55	
Tetrachloroethene	ug/kg	ND	5.0	06/19/13 02:55	
Toluene	ug/kg	ND	5.0	06/19/13 02:55	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	06/19/13 02:55	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	06/19/13 02:55	
trans-1,4-Dichloro-2-butene	ug/kg	ND	100	06/19/13 02:55	
Trichloroethene	ug/kg	ND	5.0	06/19/13 02:55	
Trichlorofluoromethane	ug/kg	ND	5.0	06/19/13 02:55	
Vinyl acetate	ug/kg	ND	100	06/19/13 02:55	
Vinyl chloride	ug/kg	ND	5.0	06/19/13 02:55	
Xylene (Total)	ug/kg	ND	10.0	06/19/13 02:55	
4-Bromofluorobenzene (S)	%.	97	56-144	06/19/13 02:55	
Dibromofluoromethane (S)	%.	105	85-118	06/19/13 02:55	
Toluene-d8 (S)	%.	97	71-128	06/19/13 02:55	

LABORATORY CONTROL SAMPLE: 934133

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	50	45.5	91	62-123	
1,1,1-Trichloroethane	ug/kg	50	43.9	88	70-123	
1,1,2,2-Tetrachloroethane	ug/kg	50	40.6	81	65-124	
1,1,2-Trichloroethane	ug/kg	50	45.2	90	74-129	
1,1-Dichloroethane	ug/kg	50	40.8	82	73-130	
1,1-Dichloroethene	ug/kg	50	41.1	82	66-126	
1,1-Dichloropropene	ug/kg	50	44.4	89	78-125	
1,2,3-Trichlorobenzene	ug/kg	50	36.5	73	66-131	
1,2,3-Trichloropropane	ug/kg	50	38.7	77	44-157	
1,2,4-Trichlorobenzene	ug/kg	50	38.0	76	68-129	
1,2,4-Trimethylbenzene	ug/kg	50	41.6	83	67-126	

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QUALITY CONTROL DATA

Project: Former Carpenter Mfg
Pace Project No.: 5081618

LABORATORY CONTROL SAMPLE: 934133

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromoethane (EDB)	ug/kg	50	44.8	90	74-120	
1,2-Dichlorobenzene	ug/kg	50	41.7	83	73-122	
1,2-Dichloroethane	ug/kg	50	39.3	79	73-127	
1,2-Dichloropropane	ug/kg	50	41.0	82	75-118	
1,3,5-Trimethylbenzene	ug/kg	50	41.7	83	65-127	
1,3-Dichlorobenzene	ug/kg	50	40.8	82	73-121	
1,3-Dichloropropane	ug/kg	50	41.5	83	72-121	
1,4-Dichlorobenzene	ug/kg	50	44.6	89	75-119	
2,2-Dichloropropane	ug/kg	50	42.4	85	63-122	
2-Butanone (MEK)	ug/kg	250	191	76	59-139	
2-Chlorotoluene	ug/kg	50	41.5	83	72-121	
2-Hexanone	ug/kg	250	207	83	56-139	
4-Chlorotoluene	ug/kg	50	42.6	85	75-123	
4-Methyl-2-pentanone (MIBK)	ug/kg	250	216	86	63-136	
Acetone	ug/kg	250	206	82	46-156	
Acrolein	ug/kg	1000	1320	132	47-200	
Acrylonitrile	ug/kg	1000	805	80	67-130	
Benzene	ug/kg	50	41.9	84	74-119	
Bromobenzene	ug/kg	50	38.6	77	69-129	
Bromochloromethane	ug/kg	50	47.9	96	67-129	
Bromodichloromethane	ug/kg	50	42.0	84	68-121	
Bromoform	ug/kg	50	41.1	82	49-124	
Bromomethane	ug/kg	50	48.3	97	44-142	
Carbon disulfide	ug/kg	100	86.9	87	61-129	
Carbon tetrachloride	ug/kg	50	43.4	87	58-127	
Chlorobenzene	ug/kg	50	42.1	84	77-122	
Chloroethane	ug/kg	50	52.7	105	59-141	
Chloroform	ug/kg	50	38.9	78	75-124	
Chloromethane	ug/kg	50	41.4	83	46-133	
cis-1,2-Dichloroethene	ug/kg	50	40.4	81	72-122	
cis-1,3-Dichloropropene	ug/kg	50	38.2	76	68-115	
Dibromochloromethane	ug/kg	50	47.3	95	60-121	
Dibromomethane	ug/kg	50	40.1	80	72-124	
Dichlorodifluoromethane	ug/kg	50	43.7	87	26-186	
Ethyl methacrylate	ug/kg	200	176	88	63-130	
Ethylbenzene	ug/kg	50	42.2	84	72-123	
Hexachloro-1,3-butadiene	ug/kg	50	36.7	73	55-139	
Iodomethane	ug/kg	100	89J	89	38-149	
Isopropylbenzene (Cumene)	ug/kg	50	43.5	87	65-123	
Methyl-tert-butyl ether	ug/kg	100	89.9	90	68-120	
Methylene Chloride	ug/kg	50	44.4	89	57-142	
n-Butylbenzene	ug/kg	50	40.7	81	68-125	
n-Hexane	ug/kg	50	45.8	92	57-117	N2
n-Propylbenzene	ug/kg	50	41.3	83	68-122	
Naphthalene	ug/kg	50	39.0	78	67-131	
p-Isopropyltoluene	ug/kg	50	43.0	86	66-133	
sec-Butylbenzene	ug/kg	50	43.5	87	64-131	
Styrene	ug/kg	50	42.7	85	70-126	

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QUALITY CONTROL DATA

Project: Former Carpenter Mfg
Pace Project No.: 5081618

LABORATORY CONTROL SAMPLE: 934133

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butylbenzene	ug/kg	50	33.2	66	46-124	
Tetrachloroethene	ug/kg	50	41.1	82	72-126	
Toluene	ug/kg	50	41.2	82	71-121	
trans-1,2-Dichloroethene	ug/kg	50	40.0	80	69-123	
trans-1,3-Dichloropropene	ug/kg	50	38.0	76	66-114	
trans-1,4-Dichloro-2-butene	ug/kg	200	178	89	61-124	
Trichloroethene	ug/kg	50	41.6	83	74-123	
Trichlorofluoromethane	ug/kg	50	44.0	88	72-146	
Vinyl acetate	ug/kg	200	170	85	70-130	
Vinyl chloride	ug/kg	50	38.4	77	55-128	
Xylene (Total)	ug/kg	150	126	84	66-124	
4-Bromofluorobenzene (S)	%.			97	56-144	
Dibromofluoromethane (S)	%.			96	85-118	
Toluene-d8 (S)	%.			101	71-128	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 934134 934135

Parameter	Units	5081654002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/kg	ND	61.7	61.7	59.8	60.2	97	98	10-129	1	20	
1,1,1-Trichloroethane	ug/kg	ND	61.7	61.7	63.8	63.7	103	103	26-143	0	20	
1,1,2,2-Tetrachloroethane	ug/kg	ND	61.7	61.7	49.7	49.5	81	80	10-156	0	20	
1,1,2-Trichloroethane	ug/kg	ND	61.7	61.7	61.1	60.2	99	98	13-156	1	20	
1,1-Dichloroethane	ug/kg	ND	61.7	61.7	59.1	57.9	96	94	36-150	2	20	
1,1-Dichloroethene	ug/kg	ND	61.7	61.7	58.9	57.9	95	94	31-146	2	20	
1,1-Dichloropropene	ug/kg	ND	61.7	61.7	62.1	61.1	101	99	26-145	2	20	
1,2,3-Trichlorobenzene	ug/kg	ND	61.7	61.7	28.0	29.5	44	47	10-119	5	20	
1,2,3-Trichloropropane	ug/kg	ND	61.7	61.7	53.2	54.9	86	89	10-168	3	20	
1,2,4-Trichlorobenzene	ug/kg	ND	61.7	61.7	30.1	31.3	48	50	10-122	4	20	
1,2,4-Trimethylbenzene	ug/kg	ND	61.7	61.7	16.0	18.9	26	31	10-139	17	20	
1,2-Dibromoethane (EDB)	ug/kg	ND	61.7	61.7	59.9	59.1	97	96	15-136	1	20	
1,2-Dichlorobenzene	ug/kg	ND	61.7	61.7	44.9	44.9	73	73	10-132	0	20	
1,2-Dichloroethane	ug/kg	ND	61.7	61.7	55.6	53.9	90	87	30-140	3	20	
1,2-Dichloropropane	ug/kg	ND	61.7	61.7	53.9	54.0	87	88	29-135	0	20	
1,3,5-Trimethylbenzene	ug/kg	ND	61.7	61.7	54.1	54.1	87	87	10-143	0	20	
1,3-Dichlorobenzene	ug/kg	ND	61.7	61.7	46.2	45.7	75	74	10-130	1	20	
1,3-Dichloropropane	ug/kg	ND	61.7	61.7	55.1	55.3	89	90	17-139	0	20	
1,4-Dichlorobenzene	ug/kg	ND	61.7	61.7	50.3	49.0	82	79	10-128	3	20	
2,2-Dichloropropane	ug/kg	ND	61.7	61.7	60.4	58.8	98	95	29-136	3	20	
2-Butanone (MEK)	ug/kg	ND	309	309	326	307	106	99	22-176	6	20	
2-Chlorotoluene	ug/kg	ND	61.7	61.7	53.9	53.7	87	87	10-146	0	20	
2-Hexanone	ug/kg	ND	309	309	297	288	96	93	12-165	3	20	
4-Chlorotoluene	ug/kg	ND	61.7	61.7	45.6	47.0	74	76	10-138	3	20	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	309	309	301	298	98	97	22-155	1	20	
Acetone	ug/kg	ND	309	309	550	507	178	164	11-200	8	20	
Acrolein	ug/kg	ND	1230	1230	1770	1660	144	135	10-200	6	20	
Acrylonitrile	ug/kg	ND	1230	1230	1120	1080	91	88	20-150	3	20	

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QUALITY CONTROL DATA

Project: Former Carpenter Mfg
Pace Project No.: 5081618

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 934134 934135

Parameter	Units	5081654002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/kg	ND	61.7	61.7	50.2	51.5	81	83	27-140	3	20	
Bromobenzene	ug/kg	ND	61.7	61.7	45.8	45.7	74	74	10-133	0	20	
Bromochloromethane	ug/kg	ND	61.7	61.7	66.1	64.9	107	105	28-142	2	20	
Bromodichloromethane	ug/kg	ND	61.7	61.7	56.3	55.0	91	89	13-139	2	20	
Bromoform	ug/kg	ND	61.7	61.7	53.7	53.1	87	86	10-122	1	20	
Bromomethane	ug/kg	ND	61.7	61.7	60.2	63.0	98	102	10-154	5	20	
Carbon disulfide	ug/kg	ND	123	123	122	119	99	96	20-142	3	20	
Carbon tetrachloride	ug/kg	ND	61.7	61.7	63.9	63.3	103	103	19-135	1	20	
Chlorobenzene	ug/kg	ND	61.7	61.7	52.0	52.9	84	86	10-136	2	20	
Chloroethane	ug/kg	ND	61.7	61.7	74.4	71.9	121	117	24-161	3	20	
Chloroform	ug/kg	ND	61.7	61.7	54.9	53.6	89	87	36-138	2	20	
Chloromethane	ug/kg	ND	61.7	61.7	55.0	55.5	89	90	28-143	1	20	
cis-1,2-Dichloroethene	ug/kg	ND	61.7	61.7	53.9	54.4	87	88	29-136	1	20	
cis-1,3-Dichloropropene	ug/kg	ND	61.7	61.7	49.8	49.2	81	80	10-130	1	20	
Dibromochloromethane	ug/kg	ND	61.7	61.7	61.8	60.6	100	98	10-124	2	20	
Dibromomethane	ug/kg	ND	61.7	61.7	53.3	53.1	86	86	24-136	0	20	
Dichlorodifluoromethane	ug/kg	ND	61.7	61.7	58.3	56.8	94	92	15-187	3	20	
Ethyl methacrylate	ug/kg	ND	247	247	181	192	73	78	10-147	6	20	
Ethylbenzene	ug/kg	ND	61.7	61.7	52.8	54.9	86	89	10-144	4	20	
Hexachloro-1,3-butadiene	ug/kg	ND	61.7	61.7	42.3	45.7	68	74	10-136	8	20	
Iodomethane	ug/kg	ND	123	123	125	127	101	103	10-155	1	20	
Isopropylbenzene (Cumene)	ug/kg	ND	61.7	61.7	57.3	58.2	93	94	10-134	2	20	
Methyl-tert-butyl ether	ug/kg	ND	123	123	125	121	102	98	30-147	3	20	
Methylene Chloride	ug/kg	ND	61.7	61.7	70.8	70.6	106	105	23-150	0	20	
n-Butylbenzene	ug/kg	ND	61.7	61.7	47.6	48.8	77	79	10-141	2	20	
n-Hexane	ug/kg	ND	61.7	61.7	62.6	63.8	102	103	10-140	2	20	N2
n-Propylbenzene	ug/kg	ND	61.7	61.7	52.1	53.8	84	87	10-143	3	20	
Naphthalene	ug/kg	ND	61.7	61.7	13.5	16.0	20	24	10-130	17	20	
p-Isopropyltoluene	ug/kg	ND	61.7	61.7	55.0	56.5	89	91	10-146	3	20	
sec-Butylbenzene	ug/kg	ND	61.7	61.7	59.5	60.4	96	98	10-150	2	20	
Styrene	ug/kg	ND	61.7	61.7	17.9	44.0	29	71	10-138	84	20	R1
tert-Butylbenzene	ug/kg	ND	61.7	61.7	49.8	52.2	81	85	10-135	5	20	
Tetrachloroethene	ug/kg	ND	61.7	61.7	55.4	55.7	90	90	10-153	1	20	
Toluene	ug/kg	ND	61.7	61.7	50.2	51.6	81	84	10-140	3	20	
trans-1,2-Dichloroethene	ug/kg	ND	61.7	61.7	56.0	56.3	91	91	28-139	1	20	
trans-1,3-Dichloropropene	ug/kg	ND	61.7	61.7	48.3	47.9	78	78	10-126	1	20	
trans-1,4-Dichloro-2-butene	ug/kg	ND	247	247	210	205	85	83	10-132	3	20	
Trichloroethene	ug/kg	ND	61.7	61.7	59.5	59.8	92	92	17-148	1	20	
Trichlorofluoromethane	ug/kg	ND	61.7	61.7	63.6	63.3	103	103	31-177	0	20	
Vinyl acetate	ug/kg	ND	247	247	ND	ND	13	15	70-130		20	M0
Vinyl chloride	ug/kg	ND	61.7	61.7	49.6	49.9	80	81	30-145	1	20	
Xylene (Total)	ug/kg	ND	185	185	123	127	67	69	10-143	3	20	
4-Bromofluorobenzene (S)	%.						97	97	56-144		20	
Dibromofluoromethane (S)	%.						96	95	85-118		20	
Toluene-d8 (S)	%.						102	103	71-128		20	

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7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

QUALITY CONTROL DATA

Project: Former Carpenter Mfg
Pace Project No.: 5081618

QC Batch: PMST/8368
QC Batch Method: ASTM D2974-87
Associated Lab Samples: 5081618001

Analysis Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture

SAMPLE DUPLICATE: 929103

Parameter	Units	5081620001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	17.6	17.7	1	5	

SAMPLE DUPLICATE: 929104

Parameter	Units	5081618001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	14.5	16.0	10	5	R1

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QUALIFIERS

Project: Former Carpenter Mfg
Pace Project No.: 5081618

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

1d	RPD is outside control limits due to sample non-homogeneity. FRW 6-18-13
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
N2	The lab does not hold TNI accreditation for this parameter.
R1	RPD value was outside control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Former Carpenter Mfg
Pace Project No.: 5081618

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
5081618001	**Drum Sample #1**	EPA 3050	MPRP/11434	EPA 6010	ICP/12291
5081618001	**Drum Sample #1**	EPA 7471	MERP/4681	EPA 7471	MERC/4888
5081618001	**Drum Sample #1**	EPA 8260	MSV/54359		
5081618001	**Drum Sample #1**	ASTM D2974-87	PMST/8368		

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CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 2 of 2

1661740

Section A Required Client Information:

Company: Weaver Boos Consultants
Address: 4085 Meghan Beeler Ct
South Bend, IN 46628
Email To: SStanford@weaverboos.com
Phone: 574-271-3447 Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To: Steven Stanford
Copy To: Grant Baker
gbaker@weaverboos.com
Purchase Order No.:
Project Name: Former Carpenter mfg
Project Number: 2339-353-03

Section C Invoice Information:

Attention: Lyle Cable
Company Name: Pace Analytical
Address: 7726 Moller Rd
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

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

Site Location STATE: IN

Section D Required Client Information

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

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

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N): VOC	RCRA 8 (PCC G.B.)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	Equip Blank	WT	G			6-6-13	1015		3				3					X			5081612/5081618 -011
2	Drum Sample #1	SL	C			6-6-13	1200		2	2								X	X		5081618001 LRC -012
3	Trip Blank	WT	G			6-6-13	—		3				3					X			-013
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	[signature]	6-6-13	1830	Colette Weaver / PACE	6/6/13	1830	

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Grant Baker
SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 6-6-13

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

ORIGINAL

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

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

Sample Condition Upon Receipt

Face Analytical

Client Name: Weaver Boos

Project # 5081612 / 5081618

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

Tracking #:

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

Date/Time 5035A kits placed in freezer

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☑ Other foam voa holder

Thermometer Used 1 2 3 4 6 A B C D E

Type of Ice: (Wet) Blue None ☑ Samples on ice, cooling process has begun

Cooler Temperature (Corrected, if applicable) 11.5c

Ice Visible in Sample Containers: ☐ yes ☑ no

Temp should be above freezing to 6°C

Date and initials of person examining contents: 060618 [illegible]

				Comments:
Chain of Custody Present:	☑Yes	☐No	☐N/A	1.
Chain of Custody Filled Out:	☑Yes	☐No	☐N/A	2.
Chain of Custody Relinquished:	☑Yes	☐No	☐N/A	3.
Sampler Name & Signature on COC:	☑Yes	☐No	☐N/A	4.
Short Hold Time Analysis (<72hr):	☐Yes	☑No	☐N/A	5.
Rush Turn Around Time Requested:	☐Yes	☑No	☐N/A	6.
Containers Intact:	☑Yes	☐No	☐N/A	7.
Sample Labels match COC: -Includes date/time/ID/Analysis	☑Yes	☐No	☐N/A	8.
All containers needing acid/base pres have been checked? exceptions: VOA, coliform, TOC, O&G	☐Yes	☑No	☐N/A	9. (Circle) HNO3 H2SO4 NaOH HCl
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes	☐No	☑N/A	
Headspace in VOA Vials (>6mm):	☐Yes	☑No	☐N/A	10.
Trip Blank Present:	☑Yes	☐No	☐N/A	11.
Trip Blank Custody Seals Present	☑Yes	☐No	☐N/A	
Project Manager Review:				
Samples Arrived within Hold Time:	☑Yes	☐No	☐N/A	12.
Sufficient Volume:	☑Yes	☐No	☐N/A	13.
Correct Containers Used:	☑Yes	☐No	☐N/A	14.

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

Person Contacted: Steve Stanford. Date/Time: 9:15 6-7-13

Comments/ Resolution:

Steve verified, based on sample times, that WB-6 is the parent sample for MS/MSD.

Split drum samples off. More separate.

TSH.

Add RCRA8 to soil drum #1 / sample (5081618)

Project Manager Review: [signature] Date: 6-7-13

Form F-IN-Q290-rev.04, 28Apr2011

Sample Container Count

CLIENT: Weaver Bros

COC PAGE 1 of 2
COC ID# 1661741

Project # S081612/S081618

Sample Line Item	DG9H	AG1U	WGFU	AG0U	R 4 / 6	BP2N	BP2U	BP2S	BP3N	BP3U	BP3S	AG3S	AG1H				Comments
1	3																
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12	3																

Container Codes

DG9H	40mL HCL amber voa vial	AG0U	100mL unpreserved amber glass	BP1N	1 liter HNO3 plastic	DG9P	40mL TSP amber vial
AG1U	1liter unpreserved amber glass	AG1H	1 liter HCL amber glass	BP1S	1 liter H2SO4 plastic	DG9S	40mL H2SO4 amber vial
WGFU	4oz clear soil jar	AG1S	1 liter H2SO4 amber glass	BP1U	1 liter unpreserved plastic	DG9T	40mL Na Thio amber vial
R	terra core kit	AG1T	1 liter Na Thiosulfate amber gl	BP1Z	1 liter NaOH, Zn, Ac	DG9U	40mL unpreserved **amber** vial
BP2N	500mL HNO3 plastic	AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plastic	I	Wipe/Swab
BP2U	500mL unpreserved plastic	AG2S	500mL H2SO4 amber glass	BP2O	500mL NaOH plastic	JGFU	4oz unpreserved amber wide
BP2S	500mL H2SO4 plastic	AG2U	500mL unpreserved amber gla	BP2Z	500mL NaOH, Zn Ac	U	Summa Can
BP3N	250mL HNO3 plastic	AG3U	250mL unpreserved amber gla	AF	Air Filter	VG9H	40mL HCL clear vial
BP3U	250mL unpreserved plastic	BG1H	1 liter HCL clear glass	BP3C	250mL NaOH plastic	VG9T	40mL Na Thio. clear vial
BP3S	250mL H2SO4 plastic	BG1S	1 liter H2SO4 clear glass	BP3Z	250mL NaOH, Zn Ac plastic	VG9U	40mL unpreserved **clear** vial
AG3S	250mL H2SO4 glass amber	BG1T	1 liter Na Thiosulfate clear gla	C	Air Cassettes	VSG	Headspace septa vial & HCL
AG1S	1 liter H2SO4 amber glass	BG1U	1 liter unpreserved glass	DG9B	40mL Na Bisulfate amber vial	WGFX	4oz wide jar w/hexane wipe
BP1U	1 liter unpreserved plastic	BP1A	1 liter NaOH, Asc Acid plastic	DG9M	40mL MeOH clear vial	ZPLC	Ziploc Bag

F-IN-Q-270-rev.02,19Apr2012

Sample Container Count

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CLIENT: Weaver Boos

COC PAGE 2 of 2
COC ID# 16601740

Project # S0816 12/S0816 18

Sample Line Item	DG9H	AG1U	WGFU	AG0U	R 4 / 6	BP2N	BP2U	BP2S	BP3N	BP3U	BP3S	AG3S	AG1H			Comments
1	3															
2			2													
3	3															
4																
5																
6																
7																
8																
9																
10																
11																
12																

Container Codes

DG9H	40mL HCL amber voa vial	AG0U	100mL unpreserved amber glass	BP1N	1 liter HNO3 plastic	DG9P	40mL TSP amber vial
AG1U	1liter unpreserved amber glass	AG1H	1 liter HCL amber glass	BP1S	1 liter H2SO4 plastic	DG9S	40mL H2SO4 amber vial
WGFU	4oz clear soil jar	AG1S	1 liter H2SO4 amber glass	BP1U	1 liter unpreserved plastic	DG9T	40mL Na Thio amber vial
R	terra core kit	AG1T	1 liter Na Thiosulfate amber gl	BP1Z	1 liter NaOH, Zn, Ac	DG9U	40mL unpreserved **amber** vial
BP2N	500mL HNO3 plastic	AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plastic	I	Wipe/Swab
BP2U	500mL unpreserved plastic	AG2S	500mL H2SO4 amber glass	BP2O	500mL NaOH plastic	JGFU	4oz unpreserved amber wide
BP2S	500mL H2SO4 plastic	AG2U	500mL unpreserved amber gla	BP2Z	500mL NaOH, Zn Ac	U	Summa Can
BP3N	250mL HNO3 plastic	AG3U	250mL unpreserved amber gla	AF	Air Filter	VG9H	40mL HCL clear vial
BP3U	250mL unpreserved plastic	BG1H	1 liter HCL clear glass	BP3C	250mL NaOH plastic	VG9T	40mL Na Thio. clear vial
BP3S	250mL H2SO4 plastic	BG1S	1 liter H2SO4 clear glass	BP3Z	250mL NaOH, Zn Ac plastic	VG9U	40mL unpreserved **clear** vial
AG3S	250mL H2SO4 glass amber	BG1T	1 liter Na Thiosulfate clear gla	C	Air Cassettes	VSG	Headspace septa vial & HCL
AG1S	1 liter H2SO4 amber glass	BG1U	1 liter unpreserved glass	DG9B	40mL Na Bisulfate amber vial	WGFX	4oz wide jar w/hexane wipe
BP1U	1 liter unpreserved plastic	BP1A	1 liter NaOH, Asc Acid plastic	DG9M	40mL MeOH clear vial	ZPLC	Ziploc Bag

F-IN-Q-270-rev.02,19Apr2012

APPENDIX G

Calculations

WEAVER BOOS CONSULTANTS

- ☐ 35 E. Wacker Drive, Suite 1250 • Chicago, IL 60601 • (312) 922-1030
- ☐ 365 Citrus Tower Blvd., Suite 110 • Clermont, FL 34711 • (352) 241-0848
- ☐ 5675 DTC Blvd., Suite 210 • Denver, CO 80111 • (720) 529-0132
- ☐ 4260 Tuller Rd. Suite 202 • Dublin, OH 43017 • (614) 389-4132
- ☐ 6420 Southwest Blvd., Suite 206 • Fort Worth, TX 76109 • (817) 735-9770
- ☐ 400 Ann Street N.W., Suite 201A • Grand Rapids, MI 40504 • (616) 458-8052
- ☐ 1813 N. Mill St., Suite A • Naperville, IL 60563 • (630) 717-4848
- ☐ 446 NW Business Park Lane • Riverside, MO 64150 • (816) 741-5006
- ☐ 4085 Meghan Beeler Court • South Bend, IN 46628 • (574) 271-3447
- ☐ 2021 Timberbrook Lane • Springfield, IL 62702 • (217) 787-0290

By SMS Date 7/30/13 Subject EST. EXTRACTION WELL Sheet 1 of 4

Ckd By AHH Date 7/31/13 FLOWS – FORMER CARPENTER File No. 2339353-03

PURPOSE: ESTIMATE FLOW RATES FOR EXTRACTION WELLS THAT MIGHT BE USED AT FORMER CARPENTER SITE, RICHMOND, INDIANA

APPROACH: USE WELL EQUATION FOR MIXED CONFINED/DRAINED AQUIFER WELL BASED ON SITE GEOMETRY AND NETWORK MONITORING WELL SLUG TESTS USING METHODS OF POWERS (1981):

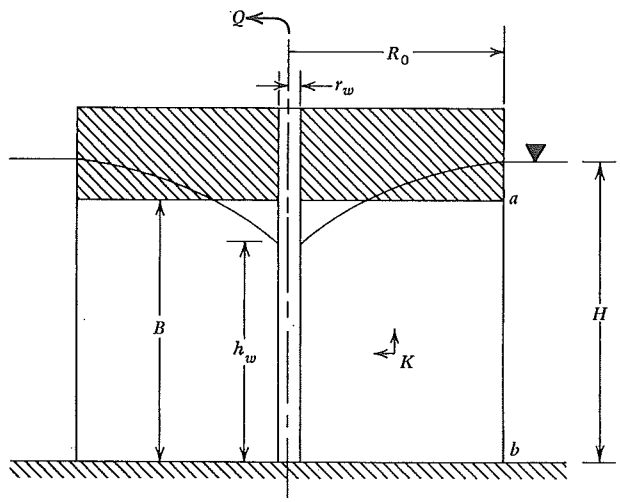

Fig. 6.5 Equilibrium radial flow to a frictionless well in a mixed aquifer.

6.3 Radial Flow to a Well in a Mixed Aquifer

On some projects, partial dewatering of a confined aquifer is necessary. Figure 6.5 illustrates such a case. Flow to the well can be calculated from the relationship

$$Qw = \frac{\pi K\,(2BH - B^2 - h_w{}^2)}{\ln R_0/r_w} \tag{6.7}$$

POWERS, J.P., 1981 CONSTRUCTION DEWATERING, A GUIDE TO THEORY AND PRACTICE, JOHN WILEY & SONS, INC., NEW YORK,

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By SMS Date 7/30/13 Subject EST. EXTRACTION WELL Sheet 2 of 4

Ckd By AMM Date 7/31/13 FLOWS – FORMER CARPENTER File No. 233935-03

INPUTS:

$K = 23.55$ ft/day — GEOMEAN OF SLUGTESTS BY MUEL ASSOCIATES, 1996 (ATTACHED)

$B = 3.5$ ft — FROM BORING LOG FOR WB-1

$H = 5$ ft — WB-1 WATER LEVEL ON 6-19-13

$h_w = 1$ ft — ASSUME NEAR MAXIMUM DRAWDOWN

$r_w = 0.5$ ft — FROM 12-INCH BOREHOLE FOR A 4 TO 6-INCH REMEDIATION WELL

$R_0 = 109$ ft — METHOD OF SICHART, FROM PAWLAS, 1981

CALC R_0:

$R_0 = 3(H-h_w)\sqrt{K}$, WHERE K IN 10^{-4} cm/s UNITS

$K = 23.55$ ft/day $= 8.31 \times 10^{-3}$ cm/s $= 83.1 \times 10^{-4}$ cm/s

$R_0 = 3(5-1)\sqrt{83.1} = 109$ ft

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By SMS Date 7/30/13 Subject EST EXTRACTION WELL Sheet 3 of 4

Ckd By AMH Date 7/31/13 FLOWS - FORMER CARPENTER File No. 2339351-07

CALC Q_w:

$$Q_w = \frac{\pi (23.55\ ft/day)\left((2)(3.5ft)(5ft) - (3.5)^2 ft^2 - (1)^2 ft^2\right)}{\ln\left(\frac{109ft}{0.5ft}\right)}$$

$$= \frac{(73.98\ ft/day)(35ft^2 - 12.25ft^2 - 1ft^2)}{5.38}$$

$$= \frac{1,609\ ft^3/day}{5.38}$$

$$= 299\ ft^3/day$$

$$= 299\ ft^3/day \times 7.48\ GAL/ft^3$$

$$= 2,237\ GAL/DAY$$

$$= 1.55\ GAL/MIN$$

UNCERTAINTY: ASSUME TWICE THE MEASURED GEOMEAN K AND ONE-HALF, SO FLOW IS EXPECTED TO RANGE AS FOLLOWS

2 (1.55 GPM) = 3.1 GPM (HIGH)
0.5 (1.55 GPM) = 0.80 GPM (LOW)

HISTORICAL SLUG TEST RESULTS
Hull & Associates, Inc.
Phase II Investigation Report
October 23, 1996

Hull & Associates Well I.D.	Screen Interval (ft)	Transmissivity (ft2/day)	Saturated Zone Thickness (ft)	Hydraulic Conductivity (ft/day)	Hydraulic Conductivity (cm/s)
MW-1	12-22	67.64	4.9	13.8	4.87E-03
MW-2	17-22	79.77	2.78	28.69	1.01E-02
MW-3	15-18	129.3	1.5	86.2	3.04E-02
MW-4	5-10	22.08	1	22.08	7.79E-03
MW-5	10-13	33.13	1.33	24.91	8.79E-03
MW-6U	9-14	12.71	1.32	9.63	3.40E-03
MW-7U	12-17	47.88	1.37	34.95	1.23E-02
MW-9M	18-23	128.5	3.6	35.69	1.26E-02
MW-11U	7-12	17.48	0.35	49.94	1.76E-02
MW-13	17-22	15.48	0.5	30.96	1.09E-02
MW-14	12-22	34.2	6	5.7	2.01E-03
MW-17U	9-14	18.29	2.3	7.95	2.80E-03
MW-20	15-20	18.52	4	4.63	1.63E-03
MW-22	13-18	53.45	2	26.73	9.43E-03
MW-25	10-14	70.91	1.8	39.39	1.39E-02
MW-28	18-21	8.45	1.7	4.97	1.75E-03
MW-31	13-16	41.85	0.6	69.74	2.46E-02
MW-33	15-18	74.62	0.4	186.55	6.58E-02
GEOMETRIC MEAN:				**23.55**	8.31E-03
Geometric Mean x 2.0:				47.11	1.66E-02
Geometric Mean x 0.5:				11.78	4.15E-03

APPENDIX H

Environmental Restrictive Covenant

Environmental Restrictive Covenant

THIS ENVIRONMENTAL RESTRICTIVE COVENANT ("Covenant") is made this _____ day of [*month*], 20___, by [City of Richmond, Indiana].

WHEREAS: Owner is the fee owner of certain real estate in the County of Wayne, Indiana, which is located at [*insert address of site*] and more particularly described in the attached Exhibit "A" ("Real Estate"), which is hereby incorporated and made a part hereof. This Real Estate was acquired by deed on _____, and recorded on _____, as Deed Record _____, in the Office of the Recorder of _____ County, Indiana. The Real Estate consists of approximately _____ acres and has also been identified by the county as parcel identification number[s] [*insert 18-digit parcel identification number(s) as described in 50 IAC 23-8-1*]. [*Optional:* The Real Estate, to which this Covenant applies, is depicted on a map attached hereto as Exhibit ____.]

WHEREAS: [City of Richmond] entered into Indiana's Brownfields Program ("BP") to address releases of hazardous substances and/or petroleum ("contaminants of concern") relating to the Real Estate. The Indiana Department of Environmental Management ("IDEM" or the "Department") assigned the project number Brownfields Site #4020031. A remediation work plan was prepared in accordance with IC 13-25-5, which was approved by the Department on _____.

WHEREAS: IDEM approved the remediation work plan, which allows certain contaminants of concern to remain in the [*select appropriate media:* soil, groundwater, or groundwater and soil], provided that certain land use restrictions are implemented [*if applicable, insert* and engineering controls maintained] to protect human health. The remaining contaminants of concern are listed in Exhibit ____, which is attached hereto and incorporated herein.

WHEREAS: The remediation work plan and completion report are hereby incorporated by reference and may be examined at the offices of the Department, which is located in the Indiana Government Center North building at 100 N. Senate Avenue, Indianapolis, Indiana. The documents may also be viewed electronically in the Department's Virtual File Cabinet by accessing the Department's Web Site (currently www.in.gov/idem/).

NOW THEREFORE, [City of Richmond] subjects the Real Estate to the following restrictions and provisions, which shall be binding on the current Owner and all future Owners:

I. RESTRICTIONS

1. Restrictions. The Owner: [*Select from the list below those restrictions that are applicable to the site. Delete those that are not applicable and renumber list. Additional site specific restrictions may be appropriate based on site conditions, and are to be negotiated between the property owner and the Department.*]

(a) Shall not use or allow the use of the Real Estate for residential purposes, including, but not limited to, daily child care facilities or educational facilities for children (e.g., daycare centers or K-12 schools).

(b) Shall not use or allow the use or extraction of groundwater at the Real Estate for any purpose, including, but not limited to: human or animal consumption, gardening, industrial processes, or agriculture, except that groundwater may be extracted in conjunction with environmental investigation and/or remediation activities.

(c) Shall not use the Real Estate for any agricultural use.

[*Include the following soil disturbance restriction if COCs remain in soil at levels above residential land use criteria*]

(d) Shall restore soil disturbed as a result of excavation and construction activities in such a manner that the remaining contaminant concentrations do not present a threat to human health or the environment. This determination shall be made using the Department's Risk Integrated System of Closure ("RISC") Technical Guidance Document. Upon the Department's request, the Owner shall provide the Department written evidence (including sampling data) showing the excavated and restored area, and any other area affected by the excavation, does not represent such a threat**.** Contaminated soils that are excavated must be managed in accordance with all applicable federal and state laws, and disposal of such soils must also be done in accordance with all applicable federal and state laws.

[*In addition to the preceding general soil disturbance restriction, additional soil disturbance restrictions may be appropriate for high levels of contamination and should be tailored accordingly. The following is an example restriction illustrating the case where COCs remain in soil at levels above construction worker criteria.*]

(e) ~~Shall neither engage in nor allow excavation of soil [at depths greater than ____ feet] in the area identified via [*choose* GPS coordinates *or* legal survey, *as applicable*] as the "Construction Worker Restriction Area" on the attached Exhibit _____ (which is incorporated herein), unless the soil disturbance obligations listed in the preceding paragraph are followed. In addition, the Owner shall provide written notice to the Department in accordance with paragraph 14 below [*edit as necessary* at least ____ days [before *or* after] the start of soil disturbance activities]. The owner, upon the Department's request, shall provide the Department evidence showing the excavated and restored area does not represent a threat to human health or the environment.~~

[*Include the following if there is a potential future vapor intrusion threat at undeveloped or unoccupied sites; sites that are already occupied and have vapor intrusion issues should instead include the restriction below requiring operation and maintenance of an engineered control.*]

(f) Shall not construct or allow occupancy of a dwelling or work space on the Real Estate unless a vapor mitigation system is installed, operated, and maintained within the dwelling or work space. IDEM may waive this restriction in writing if the Owner has provided data and analysis demonstrating to IDEM's satisfaction that there is no unacceptable risk to human health via the vapor intrusion exposure pathway.

~~(g)Shall operate and maintain the [, depicted in Exhibit ____] so as to protect its functional integrity [in accordance with *insert title and date of the document containing operations and maintenance requirements*]. Owner shall notify the Department in writing at least fifteen (15) days in advance of conducting any construction or excavation work that may impact an engineered control, unless an emergency exists. Owner shall ensure that the integrity of the [] is restored immediately after disturbance by any construction or excavation work. Upon IDEM's request, the Owner shall provide written evidence showing the engineered control has been restored to its complete integrity.~~

~~[*Include if pavement or a building serves as a passive engineered control or barrier and modify as appropriate*]~~

~~(h)~~(g) ~~Shall maintain the integrity of the existing [*insert* asphalt pavement or building, *as appropriate*], which is depicted on Exhibit _____ via [*choose* GPS coordinates *or* legal survey, *as applicable*]; this asphalt area serves as an engineered barrier to prevent direct contact with the underlying soils and must not be excavated, removed, disturbed, demolished, or allowed to fall into disrepair.~~

~~[*Include the following if groundwater monitoring is being conducted*]~~

~~(i)~~(h) ~~Shall prohibit any activity at the Real Estate that may interfere with the groundwater monitoring or well network.~~

~~(j)~~(i) ~~[*Insert other site specific restriction(s) here.*]~~

II. GENERAL PROVISIONS

2. Restrictions to Run with the Land. The restrictions and other requirements described in this Covenant shall run with the land and be binding upon, and inure to the benefit of the Owner of the Real Estate and the Owner's successors, assignees, heirs and lessees and their authorized agents, employees, contractors, representatives, agents, lessees, licensees, invitees, guests, or persons acting under their direction or control (hereinafter "Related Parties") and shall continue as a servitude running in perpetuity with the Real Estate. No transfer, mortgage, lease, license, easement, or other conveyance of any interest in or right to occupancy in all or any part of the Real Estate by any person shall

affect the restrictions set forth herein. This Covenant is imposed upon the entire Real Estate unless expressly stated as applicable only to a specific portion thereof.

3. Binding upon Future Owners. By taking title to an interest in or occupancy of the Real Estate, any subsequent Owner or Related Party agrees to comply with all of the restrictions set forth in paragraph 1 above and with all other terms of this Covenant.

4. Access for Department. The Owner shall grant to the Department and its designated representatives the right to enter upon the Real Estate at reasonable times for the purpose of monitoring compliance with this Covenant and ensuring its protectiveness; this right includes the right to take samples and inspect records.

5. Written Notice of the Presence of Contamination. Owner agrees to include in any instrument conveying any interest in any portion of the Real Estate, including but not limited to deeds, leases and subleases (excluding mortgages, liens, similar financing interests, and other non-possessory encumbrances), the following notice provision (with blanks to be filled in):

NOTICE: THE INTEREST CONVEYED HEREBY IS SUBJECT TO AN ENVIRONMENTAL RESTRICTIVE COVENANT, DATED_____ 20__, RECORDED IN THE OFFICE OF THE RECORDER OF _____COUNTY ON _____, 20__, INSTRUMENT NUMBER (or other identifying reference) _____ IN FAVOR OF AND ENFORCEABLE BY THE INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT.

6. Notice to Department of the Conveyance of Property. Owner agrees to provide notice to the Department of any conveyance (voluntary or involuntary) of any ownership interest in the Real Estate (excluding mortgages, liens, similar financing interests, and other non-possessory encumbrances). Owner must provide the Department with the notice within thirty (30) days of the conveyance and: (a) include a certified copy of the instrument conveying any interest in any portion of the Real Estate; (b) if it has been recorded, its recording reference; and (c) the name and business address of the transferee.

7. Indiana Law. This Covenant shall be governed by, and shall be construed and enforced according to, the laws of the State of Indiana.

III. ENFORCEMENT

8. Enforcement. Pursuant to IC 13-14-2-6 and other applicable law, the Department may proceed in court by appropriate action to enforce this Covenant. Damages alone are insufficient to compensate IDEM if any owner of the Real Estate or its Related Parties breach this Covenant or otherwise default hereunder. As a result, if any owner of the Real Estate, or any owner's Related Parties, breach this Covenant or otherwise default hereunder, IDEM shall have the right to request specific performance and/or immediate injunctive relief to enforce this Covenant in addition to any other remedies it may have at law or at equity. Owner agrees that the provisions of this Covenant are enforceable and

agrees not to challenge the provisions or the appropriate court's jurisdiction.

IV. TERM, MODIFICATION AND TERMINATION

9. Term. The restrictions shall apply until the Department determines that the contaminants of concern no longer present an unacceptable risk to the public health, safety, or welfare, or to the environment.

10. Modification and Termination. This Covenant shall not be amended, modified, or terminated without the Department's prior written approval. Within thirty (30) days of executing an amendment, modification, or termination of the Covenant, Owner shall record such amendment, modification, or termination with the Office of the Recorder of _____ County and within thirty (30) days after recording, provide a true copy of the recorded amendment, modification, or termination to the Department.

V. MISCELLANEOUS

11. Waiver. No failure on the part of the Department at any time to require performance by any person of any term of this Covenant shall be taken or held to be a waiver of such term or in any way affect the Department's right to enforce such term, and no waiver on the part of the Department of any term hereof shall be taken or held to be a waiver of any other term hereof or the breach thereof.

12. Conflict of and Compliance with Laws. If any provision of this Covenant is also the subject of any law or regulation established by any federal, state, or local government, the strictest standard or requirement shall apply. Compliance with this Covenant does not relieve the Owner of its obligation to comply with any other applicable laws.

13. Change in Law, Policy or Regulation. In no event shall this Covenant be rendered unenforceable if Indiana's laws, regulations, guidance, or remediation policies (including those concerning environmental restrictive covenants, or institutional or engineering controls) change as to form or content. All statutory references include any successor provisions.

14. Notices. Any notice, demand, request, consent, approval or communication that either party desires or is required to give to the other pursuant to this Covenant shall be in writing and shall either be served personally or sent by first class mail, postage prepaid, addressed as follows:

To Owner: [*insert owner's name and address*]
_____
_____
_____

_____
_____

To Department:

Indiana Finance Authority
100 N. Senate Avenue
IGCN 1275
Indianapolis, IN 46204
Attn: Section Chief, Brownfields Program

An Owner may change its address or the individual to whose attention a notice is to be sent by giving written notice via certified mail.

15. Severability. If any portion of this Covenant or other term set forth herein is determined by a court of competent jurisdiction to be invalid for any reason, the surviving portions or terms of this Covenant shall remain in full force and effect as if such portion found invalid had not been included herein.

16. Authority to Execute and Record. The undersigned person executing this Covenant represents that he or she is the current fee Owner of the Real Estate or is the authorized representative of the Owner, and further represents and certifies that he or she is duly authorized and fully empowered to execute and record, or have recorded, this Covenant.

Owner hereby attests to the accuracy of the statements in this document and all attachments.

IN WITNESS WHEREOF, ***[***City of Richmond***],*** the said Owner of the Real Estate described above has caused this Environmental Restrictive Covenant to be executed on this _____ day of _____, 20____.

I affirm, under the penalties for perjury, that I have taken reasonable care to redact each Social Security number in this document, as required by law.

_____
[City of Richmond***]***

STATE OF _____)
) SS:
COUNTY OF _____)

Before me, the undersigned, a Notary Public in and for said County and State, personally appeared _____, the _____ of the Owner, _____, who acknowledged the execution of the foregoing instrument for and on behalf of said entity.

Witness my hand and Notarial Seal this ___ day of _____, 20___.

_____

_____, Notary Public

Residing in _____ County, _____

My Commission Expires:

This instrument prepared by:
[*insert name and address*]

I affirm, under the penalties for perjury, that I have taken reasonable care to redact each Social Security number in this document, unless required by law:
[insert name and address]

EXHIBIT A

LEGAL DESCRIPTION OF REAL ESTATE

EXHIBIT ___

Instructions: *Attach separate sheets as necessary, labeled as 'Exhibit B', 'Exhibit C', etc. The following are some examples of additional Exhibits.*

1. *A scaled map of the site (optional).*
2. *List, description, or table of COCs (optional for non-CERCLIS sites and non-hazardous waste facilities).*
3. *Scaled map(s) with GPS coordinates*[1] *showing the location of engineered barriers or other engineering controls.*
4. *Scaled map(s) with GPS coordinates showing the location of contamination above construction worker levels, identifying the relevant area as the "Construction Worker Restriction Area" (requested if contaminant concentrations remain above that level).*
5. *Scaled map(s) showing the legal boundary (by survey, GPS coordinates, etc.) of areas within a property (i.e. "carve outs") subject to specific restrictions or obligations (required if such areas exist).*
6. *CERCLIS sites and current and former hazardous waste facilities (defined in IC 13-11-2-100 to mean a plant or site where haz. waste is subjected to treatment, storage or disposal) are required by IC 13-25-4-24(c) to describe the identity, quantity, and location of hazardous substances remaining on the property. (Note: CERCLIS sites and hazardous waste facilities enrolled in the VRP are not exempt from the above requirements.) Two methods of relaying this information include the following exhibit types:*
   a. *Scaled map(s) identifying the location of contamination exceeding residential land use criteria for each contaminant of concern. For clarity purposes, it is recommended that analytical information (identification and quantity of hazardous substances) be shown separately in a table.*
   b. *A narrative summary of the identity, quantity, and location of hazardous substances remaining on the property.*

[1] The presence of any of the following will likely necessitate the collection of GPS data: engineered barriers or controls; a restriction that applies to only a portion of the site; and areas labeled 'construction worker restriction area.' GPS data should be collected with a mapping or survey-grade GPS receiver, and data deliverable information should be submitted in accordance with the document *IDEM Office of Land Quality Spatial Data Collection Standards*, which is available on IDEM's Website.

APPENDIX I

Health and Safety Plan

SITE-SPECIFIC HEALTH AND SAFETY PLAN (SSHSP)

SITE REMEDIATION
FORMER CARPENTER MANUFACTURING SITE

August 4, 2013

HOW THIS SSHSP MEETS U.S.EPA & OSHA REGULATIONS FOR HEALTH AND SAFETY

This SSHSP is based on a review of 29 CFR 1910.120, the hazards likely to be encountered, and a review of the elements required for such a plan as listed under 29 CFR 1910.120 (b)(4)(ii). To the extent required, the following elements are therefore included in the plan:

1. A safety and health risk or hazard analysis for each site task and operation
2. Employee training assignments
3. Personal protective equipment
4. Medical surveillance requirements
5. Frequency and types of air monitoring
6. Site access control measures
7. Decontamination procedures
8. Contingency plan

WEAVER BOOS CONSULTANTS, LLC
SITE HEALTH AND SAFETY PLAN

A. GENERAL INFORMATION (1910.120(c)(4))

Project Name: Carpenter Mfg Focused Additional Site Investigation Project Number: 2339-353-03-00
Location/Address: **1100 Industries Road, Richmond, Indiana**
Client: **Indiana Brownfields Program**
Project Start Date: August 13, 2012
Plan Prepared By: Colin Flaherty Date: August 2, 2012
Plan Reviewed By: Steve Stanford Date: February 26, 2013

B. SITE DESCRIPTION (1910.120(C)(4))

Facility History: According to the RFP: developed in 1967 for manufacture of school buses. Operations ceased in 2000. A nearby property owner's complaint prompted the Richmond Sanitary District to investigate and consequently identify two manholes on the Site as being contaminated with petroleum products. All known USTs associated with the Site have reportedly been removed and remediated.

General Site Description: Vacant industrial building situated on 93-acres.

C. PROJECT TASKS/ACTIVITIES (1910.120(b)(3))

1. Remediation System Construction
2. Groundwater Monitoring
3. Operations and Maintenance
4. Reporting
5.
6.
7.
8.

D. PROJECT ORGANIZATION (1910.120(b)(2))

Key Personnel	Title/Responsibility	Type of Training/Date
Grant Baker	Staff Scientist/Site Supervisor	29 CFR Part 1910.120
Steve Stanford	Senior Project Manager/ Project Management	29 CFR Part 1910.120
Ryan Spyker	Environmental Specialist	29 CFR Part 1910.120

E. CHEMICAL HAZARD ANALYSIS (1910.120(b)(4))

Contaminant	PEL/TLV	IDLH	LEL/UEL	Flashpoint	Routes of Exposure
Benzene	1 ppm (TWA)	500 ppm	1.2%/7.8%	12 deg F	Ingestion, inhalation, absorption, skin and/or eye contact
Toluene	100 ppm (TWA)	500 ppm	1.1%/7.1%	40 deg F	Ingestion, inhalation, absorption, skin and/or eye contact
Ethylbenzene	100 ppm (TWA)	800 ppm	0.8%/6.7%	55 deg F	Ingestion, inhalation, skin and/or eye contact
Xylenes	100 ppm (TWA)	900 ppm	1.1%/7.0%	82 deg F	Ingestion, inhalation, absorption, skin and/or eye contact
MTBE	50 ppm (TWA)	N/A	1.6%/ 15.1%	-28 deg C	Ingestion, inhalation, irritating to skin

Note: Material Safety Data Sheets attached for all substances identified above.

F. OTHER HAZARDS

Heat Stress: ____ yes X no. If yes, please specify precautions to be taken: _____

Cold Stress: ____ yes X no. If yes, please specify precautions to be taken: _____

Excessive Noise: X yes ____ no. If yes, please specify precautions to be taken: Wear ear plugs or muffs when working around the drilling rig.

Confined Space Entry: ____ yes X no. If yes, please attach copy of Entry Permit.

Open Excavations: X yes ____ no. If yes, is entry into excavation required? Yes
Valve pits, etc. will be excavated to depths of 4 ft or less, and so excavation stability control, egress, etc., will not require detailed planning.

Welding and/or Cutting: ____ yes X no. If yes, please specify precautions to be taken: _____

Heavy Equipment Operations: X yes ____ no. If yes, specify type of equipment and precautions to be taken: Direct-push drill rig (Geoprobe™), see Drill Rig Safety Attachment

Slip, Trip, Fall Hazards: ____ yes X no. If yes, please specify type, location, and precautions to be taken: _____

Presence of Underground Utilities: X yes ____ no

Utility Location Service ID#: _____

Name of Contact: Indiana Underground Plant Protection Service

Phone Number: 800-382-5544

Precautions to be taken: Locate request placed prior to drilling activities. Adjust soil probe locations so they are no closer than 24 inches from the nearest marked utility.

Presence of Overhead Utilities: X yes ____ no

Specify exact locations: _____

Precautions to be taken: Maintain a 20 ft separation between overhead wires and equipment or workers.

Other Hazards (Specify): _____

G. SITE CONTROL (1910.120(d))

Work Zones have been established as shown on Figure 1 of the Sampling and Analysis Plan

Site Security: Security on site will be maintained by:

	Temporary barricades and/or warning tape
	Temporary security fence surround all excavations left open overnight.
	24 hour security guard
X	other (specify) Site Supervisor

H. PERSONAL PROTECTIVE EQUIPMENT (1910.120(b)(4))

Please list the required Level "D" protective equipment. (If the project requires greater than Level "D" protection, HSP-2 must be used.)

- Cotton work clothes
- Leather work boots
- Leather gloves
- Safety glasses
- Hardhat
- Nitrile gloves during sampling

I. DECONTAMINATION (1910.120(k))

Describe below the decontamination procedures for personnel and equipment. (For projects involving Level "C" or greater, Form HSP-2 must be used.)

Personnel decontamination will include washing hands and face with soap and water before breaks, meals, or departure from site.

Sampling equipment will be decontaminated using a Liquinox bath followed by a fresh water rinse.

J. AMBIENT AIR MONITORING (1910.120(b)(4))

Activity	Instruments	Action Level	Frequency
Drilling, excavating	PID	5 ppm	As needed if contaminated soil is encountered.

Comments: Photoionization detector will be onsite

K. CONTINGENCY PLAN (1910.120(1))

Emergency Communication Signal(s) (specify): Hand signals, verbal communication.

Emergency Escape Route(s) (specify and indicate on site diagram): Meeting place: On roadway adjacent to the water tower on the west/southwest portion of the Site.

Emergency Equipment On Site (specify location):

First Aid Kit: In Weaver Boos vehicle

Fire Extinguishers: In Weaver Boos vehicle

Telephone: Site Supervisor (Grant Baker) cell phone

Eye Wash/Safety Shower: In Weaver Boos first aid kit located in vehicle

Others (specify):

L. OTHER REQUIRED INFORMATION

In order to comply with OSHA standards, the following documents MUST be maintained on site:

1) Hazard Communication Manual (1910.1200)
2) Material Safety Data Sheets for all chemicals brought onto the site, or expected to be encountered (1910.1200)
3) Latest medical summary for all personnel (1910.120)

M. SIGN-OFF

All personnel have read the above plan and are familiar with its provisions. All personnel have received medical surveillance and training in compliance with the WBC Health and Safety Policy.

NAME	SIGNATURE

EMERGENCY PHONE NUMBERS

Chemtrec ..... (800) 424-9300

Bureau of Explosives ..... (202) 293-4048

Center for Disease Control (Biological Agents) ..... (404) 633-5313

National Response Center (Oil/Hazardous Substances) ..... (800) 424-3802

DOT Office of Hazardous Operations ..... (202) 426-0656

HOSPITAL:	Name:	Reid Hospital
	Address:	1100 Reid Parkway
		Richmond, IN 47374
	Phone:	765-983-3000
	Travel Time:	5 minutes
	Directions:	Attached
	Map Attached:	Yes

PARAMEDICS:	Name:	Richmond Fire Department
	Phone:	911
FIRE DEPARTMENT:	Name:	Richmond Fire Department
	Phone:	911
LOCAL POLICE:	Name:	Richmond Police Department
	Phone:	911
UTILITIES:	Electric:	1-800-382-5544
	Gas:	1-800-382-5544

OTHER: Weaver Boos Site Supervisor: Grant Baker 616-460-5717

Weaver Boos Project Manager: Steve Stanford 219-808-3608

Bing Maps

1100 Industries Rd, Richmond, IN 47374-9761

1100 Reid Pkwy, Richmond, IN
Reid Hospital & Health Care Services - Acute Rehab Unit (765) 983-3331

My Notes

FREE! Use **Bing 411** to find movies, businesses & more: **800-BING-411**

Route: **1.6 mi, 5 min**

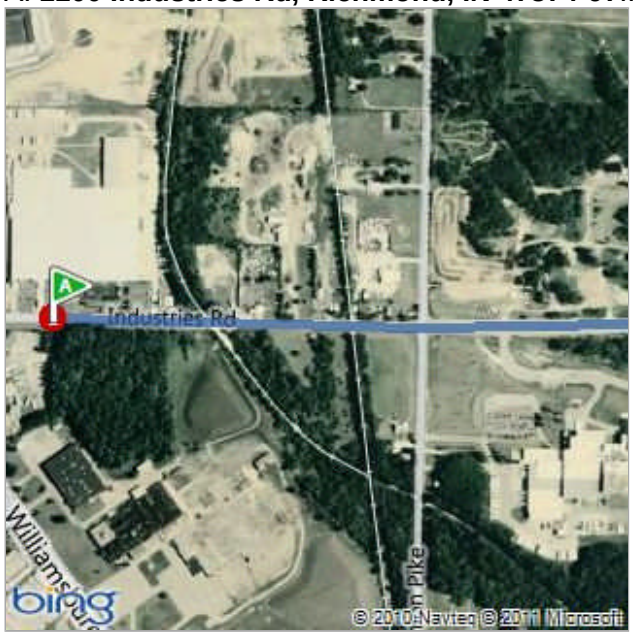
A	**1100 Industries Rd, Richmond, IN 47374-9761**	**A–B: 1.6 mi** 5 min
	1. Depart **Industries Rd** toward US-27 / Chester Blvd	1.4 mi
↑	2. Road name changes to **Reid Pkwy**	0.1 mi
B	3. Arrive at **1100 Reid Pkwy, Richmond, IN** *The last intersection is Industries Rd* *If you reach University Blvd, you've gone too far*	

These directions are subject to the Microsoft®: Service Agreement and for informational purposes only. No guarantee is made regarding their completeness or accuracy. Construction projects, traffic, or other events may cause actual conditions to differ from these results. Map and traffic data © 2010 NAVTEQ™.

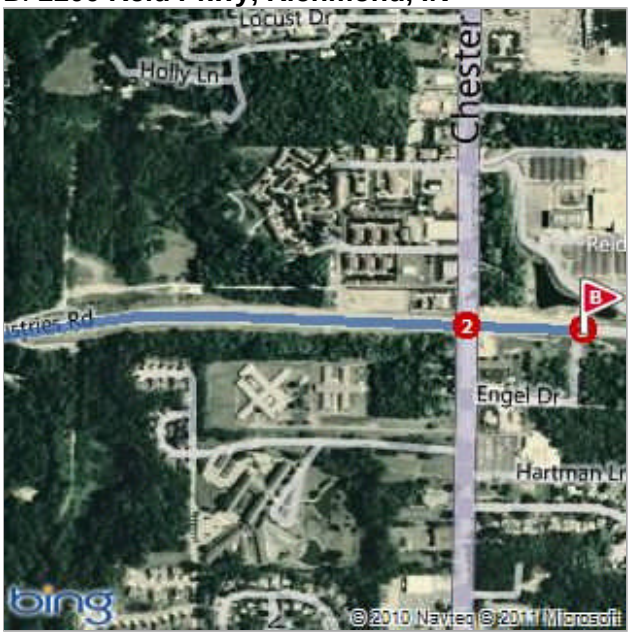
Route: **1.6 mi, 5 min**

This was your map view in the browser window.

A: **1100 Industries Rd, Richmond, IN 47374-97...**



B: **1100 Reid Pkwy, Richmond, IN**



WEAVER
BOOS
CONSULTANTS

Weaver Boos Consultants

General Health & Safety Policies

2009

General Health & Safety Policies:

	Corporate Health & Safety Philosophy
Section 1	**Safety Responsibilities**
Section 2	**General Health & Safety Rules** • 2.1 General • 2.2 Personal Protective Equipment • 2.3 Electrical Safety • 2.4 Ladder Safety • 2.5 Fall Protection • 2.6 Scaffolding Safety • 2.7 Drill Rig Safety • 2.8 Confined Space Entry • 2.9 Excavation Safety • 2.10 Roadway Safety • 2.11 Material Handling • 2.12 Cell Phone Policy • 2.13 Safety Orientation & Agreement • 2.14 Disciplinary Policy • 2.15 Safety Training Matrix • 2.16 Employee Acknowledgement

WEAVER BOOS CONSULTANTS

CORPORATE HEALTH & SAFETY PHILOSOPHY

Weaver Boos Consultants (the "Company") will conduct its operations so that injuries to people, damage to property and adverse impact on the environment will be avoided. This program is being implemented in an effort to protect employees from environmental health exposures and prevent accidents.

Our objective is to provide a clean, safe and healthy working environment for all employees. It is our intention to comply with all safety and health standards that are enforced by local, state and federal authorities. We have developed policies, rules and procedures which will contribute to the health & safety of all employees which go above and beyond legal requirements. As a condition of employment, we expect all employees to work according to good safe practices as posted, instructed and discussed.

Employees will contribute to the Company health & safety program by following all safety rules, bringing unsafe conditions to the attention of management and recommending actions to improve the effectiveness of the program.

Employees shall observe and obey every rule, regulation and order necessary for the safe conduct of work, and shall take such action necessary to obtain compliance.

Sincerely,

Executive Safety Team

SAFETY RESPONSIBILITIES

1.0- EXECUTIVE SAFETY TEAM

- Direct the implementation of the safety program and to formulate and/or approve safety policies.
- Approve major changes in the safety program or changes in the organization of the same.
- Establish safety training programs that correspond to safety goals and safety training requirements.
- Visibly show support for the safety program and recognize others for doing so.
- Meet at regular intervals to evaluate the safety program efforts.
- Maintain meeting minutes of meetings.

1.1- PRINCIPAL IN CHARGE

- Direct the implementation of the safety program at their location.
- Remain aware of any injuries or incidents at their location.
- Conduct Incident Review Team investigation at their location following injuries / incident.
- Ensure Pre Job Hazard Analysis is completed for required project work.
- Review JHA and, if necessary, assign proper competent persons to perform or supervise the Work Task.
- Arrange for any licensing, certifications, external safety contractor support or equipment required after review of the JHA.
- Be notified before and after every time an employee enters a confined space or oxygen deficient atmosphere.
- Ensure health & safety orientation for new employees is conducted during first week of employment.
- Review the Safety Training Matrix requirements are completed for all employees at their location.

- Serve on Executive Safety Team or maintain ongoing communication with the local representative.

1.2- INCIDENT REVIEW TEAM

- Consisting of representation from various operations and management levels.

- Meet following any auto claim, employee injury or property damage claim to review situation related to incident. The goal is to conduct meeting to be completed within 7 days of any incident. The incident review agenda located in Incident Investigation section of the policies to be utilized.

1.3- PROJECT MANAGER, SENIOR PROJECT MANAGER

- Ensure that Job Hazard Analysis forms are completed, distributed to field employees and filed in Project File.

- After review of the JHA, report to the Principal In Charge any requirements or needs for certifications, external safety contractor support or equipment.

- Support the safety program by positive example.

- Enforce all safety rules and follow-up with field personnel / crew leaders on their enforcement of the safety rules.

- Order work to stop immediately if an unsafe condition cannot be corrected.

- Assure that all appropriate personal protective equipment is available on the job site and in use as required such as safety glasses, dusk masks, etc. Note dust masks are only utilized in certain unique situations.

- Provide the necessary equipment in good working order to field personnel to perform work safely.

- Determine if prompt emergency medical assistance is available at the worksites. If not available within 5 minutes, a trained first aid person must be on site.

- Incidents / Accidents:

    - Report all incidents / accidents to the office immediately.
    - Complete paperwork related to incidents / injuries the same day as occurrence. (See Incident Investigation Program Form I-2)
    - Assist with Investigations of all serious accidents.
    - Ensure injured employees obtain necessary medical attention.

1.4- FOREMAN / PROJECT SUPERVISOR / SUPERINTENDENT

- Review JHA with all on site employees at beginning of Project
- Enforce all safety rules by employees.
- Order work to stop immediately if an unsafe condition cannot be corrected.
- Assure that all appropriate personal protective equipment is available on the job site and in use as required such as safety glasses and hard hats.
- Ensure employees are aware of applicable safety rules, how to utilize PPE, and understand hazards related to the work performed. At a minimum, this would include protective toe boots, high visibility vests/shirts
- Notify the Principal In Charge before and after every time an employee enters a confined space or oxygen deficient atmosphere
- Assist with the investigation of any injury or incident.
- Conduct job site tool box talks weekly or as required.
- Provide leadership related to safety application to the job or tasks.

1.5- EMPLOYEES

- If in doubt of the safety of a job site situation, stop work immediately and report it to your supervisor.
- Follow all established company safety rules.
- Comply with Site Specific Health and Safety Plans
- Follow all common sense rules.
- Report any unsafe conditions or equipment to your supervisor.
- Report any and all injuries to your supervisor immediately.

1.6- COMPETENT PERSONS

- A designated Competent Person will be assigned for each project / job. They have received adequate training to identify hazards related to the workplace and have authority to stop work if the hazard cannot be corrected. The person assigned to this role may include Foreman, Project Supervisor, Lead Field Engineer / Geologist / Scientist.

1.7- HEALTH & SAFETY TRAINING REQUIREMENTS

- All employees must complete required health & safety training and additional safety training identified in the safety training matrix on an as needed basis.
- Required training must be completed within 30 days and will include: OSHA 10-Hour (online course).
- Employee Health & Safety Orientation must be required during the first week of employment.

GENERAL HEALTH & SAFETY RULES

The health, welfare, and safety of all employees are the prime objective during any of our jobs. Therefore, the following rules and regulations have been selected to address the basic safety aspects on the job. Because these rules may not cover all hazards you will be faced with in the course of your work, you must remember that some specific hazards will require additional special attention.

2.1 - GENERAL RULES

- Obey all company rules, warning signs, markings and instructions. Be familiar with those that apply directly to you. If you don't know – ASK.
- Any employee can question the safety of any task or operation without repercussion.
- Always use the right tools and equipment for the job. Use them safely and only when authorized.
- Do not operate any equipment, vehicle or utilize any tool that in your opinion is not in a safe condition or that you have not been properly trained how to use.
- When lifting, use the approved lifting technique, i.e.: bend your knees, grasp the load firmly, and then raise the load keeping your back as straight as possible. Get help for heavy loads. Team lifting is recommended when needed.
- Hand and power tools must be inspected daily and kept in good condition.
- At the end of each shift, return all tools equipment, materials, etc. to their proper places. Make sure that the work area is neat and orderly. Disorder wastes time, energy and material and will often result in injury.
- Equipment must be shut off and locked out when being lubricated, regulated or adjusted.
- Report immediately any unsafe condition or practice you think might cause injury or damage to personnel, equipment or property to your supervisor.
- Don't be involved in horseplay; avoid distracting others; be courteous; watch out for your fellow employees.
- All prescribed safety and personal protective equipment shall be used as required and maintained in a working condition.
- A general condition of good housekeeping must be maintained at all times.

General Rules continued:

- All electrical power tools must have the third wire positive ground. Double insulated tools must be so marked.

- Ladders must be properly constructed and kept in good condition. All access ladders must be secured to prevent displacement and extend at least 3 feet above any landing.

- Overhead and Underground utilities are extremely dangerous and can contribute to a hazardous work environment. Always be aware of the location of these hazards before beginning work.

    - As a general rule, maintain 20 foot clearance from any overhead power lines.

- The consumption or possession of intoxicating beverages and or any illegal drugs on any worksite is strictly prohibited.

- All incidents, injuries and or vehicle damage must be reported to the office immediately. An injury report form must be completed by the injured employee or the lead operator and turned into the office within 24 hours. *(Late reporting may result in termination). (See Incident Investigation Program Form # I-3)*

- Radio headsets are not allowed on the job.

- Employees must wear a vehicle seat belt while driving or riding on behalf of the company, and at all times when in a company owned vehicle or company equipment.

- Specific safe work practices for each type of work performed must be followed.

- Loose-fitting clothing or jewelry may not be worn when operating any equipment.

- An appropriate means of fall protection will be required when workers are exposed to a 6 foot fall or greater.

- Any customer specific safety rules must be followed in addition to our own rules.

- If performing excavation work on or near public Rights of Way, call for a Utility Locate before performing any work. Refuse to do Work without it.

2.2 - PERSONAL PROTECTIVE EQUIPMENT

The type of PPE that is required will vary with the work being performed. It is your responsibility to know and understand what is needed and to wear the protective equipment as required. If in any doubt as to the required PPE, ask your supervisor.

Many of our projects will require site specific safety policies. Those policies will specify the level of PPE that is needed based on exposure.

The following are minimum PPE requirements that will apply on all jobs. Because our intent is to minimize employee exposure to poor air quality environments we do not plan for use of respirators as a first response to poor air quality. Employees are advised to perform ambient air monitoring and halt work if conditions exceed HSP specified thresholds. Employees must either wait for air quality conditions to diminish below threshold values or stop work so appropriate follow up approach can be assessed and planned.

Progressing to PPE requirements above Level D based on exposures should be done only by approval advice and consent of the Principal in Charge for that location.

- Safety glasses must be worn at all times.
- Approved hard hats must be worn at all times.
- Hearing protection must be worn when performing any other high- noise level operations or when working in the vicinity of other trades performing high-noise level operations.
- Over-the-ankle work boots with steel toe/puncture resistant sole must be worn at all times when on a worksite.
- High visibility vests must be worn when working at all times when working on a landfill, near heavy equipment, near roadways. Use of high visibility clothing will be required on most projects / jobs.
- All landfill work requires high visibility vests, hi visibility hard hats, and work boots with steel toe/puncture resistant sole.
- Clothing:
    - Loose-fitting or torn clothing is not allowed on the job
    - Long pants are required
    - Shirts with sleeves are required
    - Sweat pants are not allowed on the job

2.3 - ELECTRICAL SAFETY

- No work can be performed on energized systems without the NFPA 70 E policies being employed. A site specific safety plan will be used on those projects and those specific policies will be provided.
- Any wiring installed must be compliant with applicable electrical codes.
- No work may be performed within 20 feet of energized overhead power lines.
- Do not plug into any power sources that are not GFCI protected.
- The lock-out program must be utilized when installing electrical or other equipment where there is the potential to be turned on during work. The lock out tag out program must be referenced prior to performing that task.
- All electrical tools must be double insulated or be equipped with a third wire / ground prong electrical cord.
- Damaged tools, generators, extension cords or other electrical equipment must be taken out of service immediately. They must also be tagged or otherwise identified as damaged and in need of repair.
- Do not plug into an obviously unsafe electrical outlet. This would include, but not limited to, ungrounded or un-mounted outlets or damaged generators.
- Multiple outlet devices used in field operations must be solid molded rubber only. Plastic power strips, metal electrician's boxes and other devices are not allowed.
- Locate power lines and cables (overhead, underground, under floor, etc.) before digging, drilling or similar work is begun. Each area / region has specific One-Call services for this. Private property will require coordination with the property owner to locate underground utilities.
- Review the lock out/tag out policy prior to working on electrical equipment.
- All unused openings (including conduit knockouts) in electrical enclosures and fittings must be closed with appropriate covers, plugs or plates.

2.4 - LADDER SAFETY RULES

- The use of ladders with broken or missing rungs or step, broken or split side rails, or other defects is prohibited.
- All ladders will be heavy duty (Type IA- 300 lb rating) ladders.
- Do not allow other trades, customers or any non- company personnel to use our ladders or other equipment.

Ladder Safety continued:

- The feet of extension ladders shall be placed on a solid base and the area around the top and bottom of the ladder shall be kept clear.
- Straight ladders shall be used at a pitch of 4 to 1.
- The side rails of an access ladder shall extend at least 36" above the landing or work platform.
- Access ladders in use shall be tied off, blocked off or otherwise secured at the top to prevent displacement.
- Straight ladders without slip resistant feet shall not be placed on flat surfaces unless they are cleated or otherwise secured in place.
- Always face the ladder when ascending or descending the ladder.
- Employees may not “walk” ladders to relocate position, but must dismount and move the ladder.
- Only safe, approved ladders will be used to gain access to higher levels. (Standing on boxes, chairs, etc is prohibited.)
- Standing on the top two rungs of a step ladder is prohibited. (If this becomes necessary, use a taller step ladder.)
- If working on a ladder near a doorway, make certain the door is locked.
- Do not stand on drywall buckets, milk crates or other unstable items.
- Do not over reach while working from a ladder.

2.5 – FALL PROTECTION POLICY

- Different fall hazard may be present at some worksites. The fall protection policy requires that all employees working near any fall hazards with a fall hazard of 6 feet or more. This will apply to any walking or working surfaces and will include fall hazards near open holes or excavations.
- Railings are considered fall protection if they are installed as top and mid rail at approximately 42" and 21". The Railing system must be able to support at least 200 lbs.
- Safety railings are required on scaffolding at heights of 6 feet or more.
- Do not work in an area where the safety railings are missing. Report the situation to your supervisor.

Fall Protection continued:

- If a safety railing is removed, it must be re-installed in the proper manner immediately.
- Employees may not work closer than 20 feet from any unprotected fall hazards.
- Safety harness must be utilized as fall protection if other methods of fall protection are not available.

2.6 – SCAFFOLDING

- Scaffolding must be assembled and dismantled under the supervision of a Competent Person.
- Scaffolding equipment must be inspected prior to setting up. Do not use scaffolding equipment that is damaged or otherwise unsafe.
- Two X braces are required for each section of tube frame scaffolding.
- Wheels or base plates must be placed underneath scaffolding legs.
- Retaining pins or clips are required to secure wheels to the legs of the scaffolding and also to secure stacked sections of scaffolding together.
- The working platform of the scaffolding must be fully planked.
- Employees may not stand on the railings or other elevated object while on the scaffold.
- Narrow scaffolding may require outriggers when stacked. A base to height ratio of 4:1 must be maintained for stationary scaffolding. A base to height ratio of 2:1 must be maintained for rolling scaffolding.

2.7 – DRILL RIG SAFETY

Note that a complete program is in place regarding Drill Rig Safety and should be referenced and reviewed if this hazard will be present on a specific project. The following is a summary of key safety rules:

- Drill rigs may only be operated by authorized personnel.
- Always be observant of overhead power lines and maintain at least 20 feet of clearance.
- Loose fitting clothing and long hair is not allowed anywhere near the operation of the drill rig.
- Potential underground utilities must be identified prior to operating a drill rig.

Drill Rig Safety continued:

- The safety rules specific to the machine must be reviewed and followed at all times.
- The drill rig must be inspected prior to use.

2.8 – CONFINED SPACE ENTRY

Note that a complete program is in place regarding Confined Space Entry and should be referenced and reviewed if this hazard will be present on a specific project. The following is a summary of key safety rules:

- The crew leader or foreman is responsible for identifying confined spaces on a project site and discussing the related safety plans with the crew.
- The crew leader or foreman is responsible to notify the Principal In Charge before and after every time an employee enters a confined space or oxygen deficient atmosphere.
- No employees may enter a confined space prior to reviewing the existing full policy.
- If a confined space is identified, it must be discussed with the foreman or crew leader prior to working in or near the confined space.
- No employees may enter a confined space for any length of time without first conducting an air test with calibrated air monitors.
- Under no circumstances may an employee enter a confined space in order to rescue or give aid to another person.

2.9 – EXCAVATION SAFETY

Note that a complete program is in place regarding Trenching Safety and should be referenced and reviewed if this hazard will be present on a specific project. The following is a summary of key safety rules:

- Our employees may not enter any trench / excavation deeper than 5 feet (1.52 m) unless cave in protection is provided and the excavation has been inspected and approved by a competent person for entry. Trenches measuring 4 feet or greater shall be inspected by a competent person, prior to entry.
- Cave-in protection will consist of sloping of the trench walls, bench cutting of the trench walls, use of a trench box or use of shoring equipment. Cave-in protection must be properly designed, installed, and inspected by a competent person prior to use.
- Employees may not work in a trench that has standing water in it.

Excavation Safety continued:

- A safe means of access must be provided into and out of the trench or excavation. This will consist of a ladder or a walkable ramp that extends above the excavation.
- Employees may not ride into the excavation in a backhoe bucket or similarly unsafe method.
- Some excavations require the application of confined space rules.
- Employees may not work in a trench without the use of a 4- gas meter.

2.10 – ROADWAY SAFETY POLICIES

- A temporary traffic control plan shall be prepared by all responsible agencies and followed through by all parties throughout the duration of the project.
- All workers shall wear bright, highly-visible clothing (shirts, outer jackets, or reflective vests). No clothing shall be faded.
- Nighttime work – clothing shall be retro-reflective material on a high visibility background.
- Daytime work – Clothing shall be orange, yellow, yellow-green, or a fluorescent version of these colors.
- Temporary traffic control barricades shall be placed along the work area and employees shall stay behind the barricaded area while performing work.
- Employees may not move or remove any temporary barricades or traffic control devices, unless instructed and trained to do so, according to the approved traffic control plan.
- If flaggers are provided to control traffic in the work area, they must understand the nature of our work. Communicate to flaggers when traffic will need to be halted. If flaggers are not controlling traffic properly, work shall be suspended.
- All flashing lights on your vehicle must be on when parked in the roadway.
- Employees at no time shall place themselves in the path of vehicle traffic.

2.11 - MATERIAL HANDLING /PERSONAL LIFTING

- Assure that the load is stable and include proper footing.
- Avoid walking over other material while carrying a load and keep walking paths clear.
- Utilize team lifting when attempting to handle a heavy or awkward load.
- When preparing to lift bend at the knees, keep back straight and position over the load. Always use the legs to lift never the back.
- Stretch or warm-up leg and arm muscles before beginning to work.

2.12 - CELL PHONE USE POLICY

- This policy applies to the use of personal electronic devices including cell phones, pagers, computers, Blackberry devices and other similar devices.
- Because use of personal electronic devices is difficult to observe and enforce, it is of critical importance that safe use of such devices is applied by all company employees while operating motor vehicles or operating equipment.
- Employees must adhere to all federal, state and local rules and regulations regarding the use of cell phones while driving. Accordingly, employees must not use personal electronic devices if such conduct is prohibited by law, regulation or other ordinance.
- As a general practice, employees are to keep cell phone use to brief, limited conversations and are encouraged to use hands-free devices while driving.
- Text messaging, use of a laptop computer, surfing the internet, composing emails and other highly distracting activities is not allowed while driving.
- The use of in vehicle cell phones is prohibited in adverse weather or difficult traffic situations.
- Employees are to end phone calls involving stressful or emotional conversations.
- Cell phones may not be used when operating equipment or when in an area with heavy equipment operation where use of the phone may distract from conducting the operation safely.

2.13 - HEALTH & SAFETY ORIENTATION & AGREEMENT:

Weaver Boos Consultants' objective is to take all practical steps to safeguard their employees, as well as to maintain a safe working environment at all times. Therefore, the WBC Health and Safety Manual (H&S Manual) provides important information about our shared safety responsibilities.

Detailed below are some highlights of the WBC H&S Manual. As all of the information is not presented in this document, I understand that the H&S Manual is available for my review, in its entirety, at any time. I also understand that I should consult my supervisor regarding any questions not answered in this document or the H&S Manual.

- If in doubt about the meaning of safety requirements, ask your supervisor. Ignorance of safety instruction is no excuse.
- All injuries/incidents shall be reported to your supervisor immediately, and no later than one hour after the incident. A formal incident investigation process is in place to determine the root cause of the incident and prevent recurrence.
- WBC will make available Temporary Light Duty when possible. If you have been released by your physician to return to work on Temporary Light Duty or without restriction, you are required to inform the Director of Human Resources.
- Use of alcohol or drugs is strictly prohibited and will result in disciplinary action up to and including termination.
- Be familiar with the emergency response procedures for your location/facility. Know the location of emergency exits, evacuation assembly areas, and notification phone numbers.
- Any exposure to a fall of 6-feet or greater shall be protected by any of the following means: personal fall arrest system, guardrail system, and/or safety net.
- Observe all safe electrical practices Do not operate any equipment and/or tool if it is damaged or presents an unsafe condition. If a piece of equipment and/or tool is found to be unsafe, remove it from service until it can be properly repaired. All equipment and/or tools shall be inspected daily and before each use.
- If you drive any type of company vehicle or drive a personal vehicle on company business, use reasonable, yet strict care to ensure safe operation. A formal vehicle policy exists that outlines safety requirements, guidelines, training, and inspection/maintenance.
- Do not operate any motorized equipment unless you are properly trained and authorized (e.g. lift trucks.)
- Do not lift or move any item which is so bulky, awkward, or heavy that you feel you are unable to handle it safely. Utilize additional assistance or the proper equipment/tools required to eliminate or minimize the risks.
- Report to your supervisor any unsafe conditions in the workplace, including equipment and environmental conditions.

GENERAL HEALTH & SAFETY RULES

- Good housekeeping should always be applied. Keep facilities neat and clean at all times.
- Be aware of the surface on which you are working and be alert to the danger of slips and falls. If you see a spill, clean it up. Wear shoes appropriate to the surface on which you are working or walking.
- Wear or use personal protective equipment during any operation or task for which it has been issued. This may include, but is not limited to: hard hats, safety glasses, ANSI specification compliant shoes, hearing protection, and/or respirators.
- Be familiar with the chemicals that you are using or contaminants that are present at your worksite. Be aware of the location of Material Safety Data Sheets (MSDSs).
- Absolutely no horseplay is ever permitted.
- Obey all warning tags and signs. They are posted to point out hazards.
- Do not access elevated locations (e.g. rooftops, mezzanines, rail cars, containers) unless a safe means of access exists. (e.g. safe access will include use of a secured ladder, stairway, fixed ladder).
- "Universal Precautions" will be observed by all employees in order to prevent contact with blood or other potentially infectious materials. All blood or other potentially infectious materials will be considered infectious regardless of the perceived status of the source individual. No employee shall attempt to clean-up any infectious materials without proper training and protective equipment.
- Please teach new or inexperienced employees about hazards of the worksite and teach them the proper safe method of doing their job.
- Any employee whose conduct regarding safe work practices does not meet the standards of WBC is subject to disciplinary action up to and including termination.

Information, rules, and policies described in the H&S Manual may be subject to change. I acknowledge that such revisions to the manual may occur. All such changes will be communicated through official notices, and I understand that revised information may supersede, modify, or eliminate existing policies. Any changes to the safety policies must be approved by the Executive Safety Team

2.14 - DISCIPLINARY ACTION

A progressive disciplinary policy may be followed for violations of the safety program policies. Disciplinary action will apply to general safety conduct, violation of specific safety rules or policies and willful disregard of defined safety responsibilities outlined in section 1 of the safety programs. For all offenses committed within a 12 month period, the following schedule of discipline shall apply;

1st offense: Written warning from supervisor

2nd offense: Written warning, signed by the employee

3rd offense: Written warning, 3 day suspension without pay

4th offense Termination

Intolerable Offenses:

Employees involved in gross misconduct or related activities may be terminated without the application of the progressive discipline policy. The following are examples:

- Willful violation of safety policies.
- Fighting on the job.
- Using drugs or alcohol on the job or being intoxicated / under the influence on the job or while operating a company vehicle.
- Possession of firearms, illegal fireworks, or explosives on the job.
- Theft from job or company.

2.14A - DISCIPLINARY DOCUMENTATION FORM

EMPLOYEES NAME:	DATE:
CHECK APPROPRIATE OCCURRENCE: First OCCURRENCE _____ Second OCCURRENCE: _____ Third OCCURRENCE: _____ Fourth OCCURRENCE: _____	
DESCRIPTION OF THE OFFENSE:	
EMPLOYEE'S COMMENTS:	
SUPERVISOR'S COMMENTS AND DISCIPLINE RENDERED:	
SUPERVISOR: _____ (SIGNATURE)	DATE:_____
I acknowledge that a copy of this has been given to me: EMPLOYEE: _____ (SIGNATURE)	DATE:_____

2.15 – SAFETY TRAINING MATRIX

EE Type	WBC Safety Orientation	HZW/PR 40	HZW/PR 8-Hr Supervisor Refresher	HZW/PR 8-Hr Refresher	OSHA 10 Online	OSHA 4 Refresher	Respirators	Fall Protection	Trenching	Heavy Equipment Safety	Haz Comm	Scaffolding	Drill Rig Safety	Lock Out	Confined Space Entry	Rough Terrain	Industrial Forklift	Nuke-Dot Training 49 CFR 172.704
Weaver Boos Consultants																		
Technician, Inspector, O&M Tech	M[3]	M[1]		M[2]	M[3]	M[a]	O		O	O	O		O		O			O
PIC, SPM, PM,Supervisor	M[3]	M	M	M	M[3]	M[a]	O		O	O	O		O		O			
Env. Staff, Project Professional, Entry level Engineer, Project Supervision	M[3]	M	M	M	M[3]	M[a]	O		O	O	O		O		O			
Staff, Project Professional, Entry level Engineer, Project Supervision	M[3]	M	M	M	M[3]	M[a]	O		O	O	O		O		O			
Surveyor	M[3]				M[3]	M[a]	O		O	O	O		O		O			

M = Mandatory **O = Optional**

M1: As job requires at CERCLA, RCRA, LUST, State listed or uncontrolled hazardous waste site. See PIC or EST member.
M2: Required to maintain
M3: Required by first day of employment
Ma: To be completed at annual training event

OSHA 10 Hour to Include:
Fall protection, Respirator use, Trenching, Haz Comm, Scaffolding

OSHA 4 Hour Refresher to Include:
Fall protection, Respirator use, Trenching, Haz Comm

Other Topics will be required as needed.

Redundant training will not be required if the topic is covered in other training such as the OSHA 4 hour refresher.

Rough Terrain and Industrial Forklift Training required as needed.

2.16 – EMPLOYEE ACKNOWLEDGEMENT FORM

I, _____, have read and understand the Weaver Boos Consultants safety policies. I understand that the safety policies are general and in many cases, site specific safety policies will exist.

I agree to work safely and to follow all formal and informal work safety rules and procedures.

I understand that not following the safety rules and procedures may result in serious injury or death and that a disciplinary policy is in place.

I understand that it is my responsibility to ask questions of my supervisor if I do not understand the safety of a situation or to report an unsafe situation.

Employee Signature: _____ Date: _____

Print Name: _____

FIRST AID POLICY

WBC must provide First Aid protection per OSHA. Specific requirements include:

- First-aid supplies recommended for the project must be easily accessible.
- The first-aid kit must be a weatherproof, OSHA approved container, the contents of which shall be in individual sealed packages for each type of item.
- The contents of the first-aid kit must be checked by a Competent Person before being sent out to the job site and periodically on each job to make sure used items are replaced.
- No oral medications shall be provided by WBC.
- For any job site where prompt professional emergency service is not available, there must be at least one person who has a valid certificate in first-aid

PERSONAL PROTECTIVE EQUIPMENT

This section of the safety program is in addition to the general safety rules. The intent of this section is to provide more specific description of policy related to use of personal protective equipment. This section also provides more information related to different levels of hazards and related protection equipment that will be required related to HAZWOPER PPE policies.

Because our intent is to minimize employee exposure to poor air quality environments we do not plan for use of respirators as a first response to poor air quality. Employees are advised to perform ambient air monitoring and halt work if conditions exceed HSP specified thresholds. Employees must either wait for air quality conditions to diminish below threshold values or stop work so appropriate follow up approach can be assessed and planned.

Progressing to PPE requirements above Level D based on exposures should be done only by approval advice and consent of the Principal in Charge for that location.

PURPOSE AND SCOPE

A. Personal Protective Equipment (PPE) (e.g., safety glasses, gloves, steel toe/puncture resistant sole boots, high visibility safety vest, and/or hearing protection) may be required in performing certain designated work. WBC will supply the necessary PPE to ensure the protection of the employee while performing the specific work. Should an employee choose to wear their own equipment, the equipment must meet the specifications listed under the PPE level specified for his or her work assignment(s). The company provides a boot allowance for qualifying employees.

GENERAL REQUIREMENTS

A. Employees will be trained on the proper use, care and storage of personal protective equipment.

B. Personal protective equipment will be available to all employees.

C. All personal protective equipment used shall be inspected prior to use and replaced if the equipment does not work properly or is damaged.

D. Required PPE shall be worn at all times and upon hazardous exposures.

PPE REQUIREMENTS

A. Hard hats shall be worn at all times when working near overhead hazards.

B. Note that some worksites will have a requirement for 100% use of hard hats.

C. Hard hats must be worn when performing operations in proximity of heavy equipment, including but not limited to drill rigs, excavators, bull dozers, wheel loaders

1- Except when protected within a cab, vehicle or covered building.

D. Safety glasses (with side shields) or other forms of eye protection shall be required:

1- When conducting an operation where the eye could be exposed to injury.

E. Gloves shall be used, when warranted, to protect against hand and arm lacerations and/or chemical use.

F. Foot Protection - Employees shall wear footwear suitable for work in a construction environment:

1- No open toe, no open heel, no high heel greater than 1 ½", no spike or stiletto heel, and no shoes in an unsafe condition are allowed.

2- Over-the-ankle steel toe/puncture resistant sole work boots will be worn.

G. Reflective vests/shirts shall be worn at all times.

1- Except when protected within a cab, vehicle or covered building.

H. Hearing protection shall be used if noise levels exceed the OSHA permissible exposure limit.

HAZWOPER PPE POLICY

A. This program sets forth information about personal protective equipment (PPE) levels which may be used to assist Weaver Boos in complying with the PPE requirements of the Hazardous Waste Operations and Emergency Response (HAZWOPER) Standard.

B. As required by the standard, PPE must be selected which will protect employees from the specific hazards which they are likely to encounter during their work on-site.

SELECTION

A. Selection of the appropriate PPE is a complex process which should take into consideration a variety of factors. Key factors involved in this process are:

1- identification of the hazards, or suspected hazards;

2- their routes of potential hazard to employees (inhalation, skin absorption, ingestion, and eye or skin contact);

3- and the performance of the PPE materials (and seams) in providing a barrier to these hazards.

B. The amount of protection provided by PPE is material-hazard specific. That is, protective equipment materials will protect well against some hazardous substances and poorly, or not at all, against others. In many instances, protective equipment materials cannot be found which will provide continuous protection from the particular hazardous substance. In these cases the breakthrough time of the protective material should exceed the work durations.

C. Other factors in this selection process to be considered are matching the PPE to the employee's work requirements and task-specific conditions.

D. The durability of PPE materials, such as tear strength and seam strength, should be considered in relation to the employee's tasks.

E. The effects of PPE in relation to heat stress and task duration are a factor in selecting and using PPE.

F. In some cases layers of PPE may be necessary to provide sufficient protection, or to protect expensive PPE inner garments, suits or equipment.

G. The more that is known about the hazards at the site, the easier the job of PPE selection becomes. As more information about the hazards and conditions at the site becomes available, the site supervisor can make decisions to up-grade or down-grade the level of PPE protection to match the tasks at hand.

GUIDELINES

A. The following are guidelines that will be applied for selecting appropriate PPE.

B. As noted above, the site information may suggest the use of combinations of PPE selected from the different protection levels (i.e., A, B, C, or D) as being more suitable to the hazards of the work.

C. It should be cautioned that the listing below does not fully address the performance of the specific PPE material in relation to the specific hazards at the job site, and that PPE selection, evaluation and re-selection is an ongoing process until sufficient information about the hazards and PPE performance is obtained.

D. **Level A** - To be selected when the greatest level of skin, respiratory, and eye protection is required. The following constitute Level A equipment; it may be used as appropriate;

1- Positive pressure, full face-piece self-contained breathing apparatus (SCBA), or positive pressure supplied air respirator with escape SCBA, approved by the National Institute for Occupational Safety and Health (NIOSH).

2- Totally-encapsulating chemical-protective suit.

3- Coveralls.

4- Long underwear.

5- Gloves, outer, chemical-resistant.

6- Gloves, inner, chemical-resistant.

7- Boots/shoes, steel toe/puncture resistant sole.

8- Hard hat (under suit).

9- Disposable protective suit, gloves and boots (depending on suit construction, may be worn over totally-encapsulating suit).

E. **Level B** - The highest level of respiratory protection is necessary but a lesser level of skin protection is needed. The following constitute Level B equipment; it may be used as appropriate.

1- Positive pressure, full-facepiece self-contained breathing apparatus (SCBA), or positive pressure supplied air respirator with escape SCBA (NIOSH approved).

2- Hooded chemical-resistant clothing (overalls and long-sleeved jacket; coveralls; one or two-piece chemical-splash suit; disposable chemical-resistant overalls).

3- Coveralls.

4- Gloves, outer, chemical-resistant.

5- Gloves, inner, chemical-resistant.

6- Boots, outer, chemical-resistant steel toe/puncture resistant sole.

7- Boot-covers, outer, chemical-resistant (disposable).

8- Hard hat.

9- Face shield.

F. **Level C** - The concentration(s) and type(s) of airborne substance(s) is known and the criteria for using air purifying respirators are met. The following constitute Level C equipment; it may be used as appropriate.

1- Full-face or half-mask, air purifying respirators (NIOSH approved).

2- Hooded chemical-resistant clothing (overalls; two-piece chemical-splash suit; disposable chemical-resistant overalls).

3- Coveralls.(1)

4- Gloves, outer, chemical-resistant.

5- Gloves, inner, chemical-resistant.

6- Boots/shoes, steel toe/puncture resistant sole.

7- Boot-covers, outer, chemical-resistant (disposable).

8- Hard hat.

9- Escape mask.

10- Face shield.

G. **Level D** - A work uniform affording minimal protection: used for nuisance contamination only. The following constitute Level D equipment; it may be used as appropriate:

1- Coveralls.

2- Gloves.

3- Boots/shoes, steel toe/puncture resistant sole.

4- Boots, outer, chemical-resistant. (if determined to be necessary)

5- Safety glasses or chemical splash goggles.

6- Hard hat.

7- Face shield. (if determined to be necessary)

8- Escape mask. (if determined to be necessary)

DETERMINATION

A. The types of hazards for which levels A, B, C, and D protection are appropriate are described below:

1- Level A - Level A protection should be used when:

a. The hazardous substance has been identified and requires the highest level of protection for skin, eyes, and the respiratory system based on either the measured (or potential for) high concentration of atmospheric vapors, gases, or particulates; or the site operations and work functions involve a high potential for splash, immersion, or exposure to unexpected vapors, gases, or particulates of materials that are harmful to skin or capable of being absorbed through the skin,

b. Substances with a high degree of hazard to the skin are known or suspected to be present, and skin contact is possible; or

c. Operations must be conducted in confined, poorly ventilated areas, and the absence of conditions requiring Level A have not yet been determined.

2- Level B protection should be used when:

a. The type and atmospheric concentration of substances have been identified and require a high level of respiratory protection, but less skin protection.

b. The atmosphere contains less than 19.5 percent oxygen; or

c. The presence of incompletely identified vapors or gases is indicated by a direct-reading organic vapor detection instrument, but vapors and gases are not suspected of containing high levels of chemicals harmful to skin or capable of being absorbed through the skin.

d. Note: This involves atmospheres with IDLH concentrations of specific substances that present severe inhalation hazards and that do not represent a severe skin hazard; or that do not meet the criteria for use of air-purifying respirators.

3- Level C - Level C protection should be used when:

a. The atmospheric contaminants, liquid splashes, or other direct contact will not adversely affect or be absorbed through any exposed skin;

b. The types of air contaminants have been identified, concentrations measured, and an air-purifying respirator is available that can remove the contaminants; and

c. All criteria for the use of air-purifying respirators are met.

4- Level D - Level D protection should be used when:

a. The atmosphere contains no known hazard; and

b. Work functions preclude splashes, immersion, or the potential for unexpected inhalation of or contact with hazardous levels of any chemicals.

c. Note: As stated before, combinations of personal protective equipment other than those described for Levels A, B, C, and D protection may be more appropriate and may be used to provide the proper level of protection.

GENERAL PPE SPECIFICATIONS

Personal protective equipment (PPE) will be selected to mitigate the hazards specific to particular employee work assignments and may therefore vary. The essential Level D PPE will meet the following general specifications for most work assignments:

1- Work boots will meet the ASTM F2413-05 requirements (including steel toe), with a puncture resistant endorsement (PR). Older boots may meet ANSI Z41 standards. Boots meeting CAN/CSA Z195 (Green Triangle) requirements are also acceptable. Additional endorsements, such as Mt (metatarsal designation), DI (dielectric insulation), or CS (chain saw cut resistance) will be obtained as appropriate to mitigate the specific hazards faced on particular project assignments.

2- Hardhats will meet ANSI/ISEA Z89.1-2009 or other appropriate ANSI Z89.1 requirements.

3- Safety glasses or goggles will meet ANSI/ISEA Z87.1 requirements. Safety glasses that meet CSA Z94.3 requirements will also be acceptable.

AIR QUALITY AND USE OF RESPIRATORS

Because our intent is to minimize employee exposure to poor air quality environments we do not plan for use of respirators as a first response to poor air quality. Employees are advised to perform ambient air monitoring and halt work if conditions exceed HSP specified thresholds. Employees must either wait for air quality conditions to diminish below threshold values or stop work so appropriate follow up approach can be assessed and planned.

DRILL RIG SAFETY

APPLICABILITY

This program applies to WBC projects in which truck-mounted, or other engine powered, drill rigs are used. It is applicable to WBC employees and WBC owned rigs. For drill rigs operated by contractors, the primary responsibility for drilling safety is with the drilling contractor.

PURPOSE AND SCOPE

The purpose of these guidelines is to provide an overview for working safely around drilling operations with truck-mounted and other engine-powered drill rigs. The procedure addresses off-road movement of drill rigs, overhead and buried utilities, use of augers, rotary and core drilling, and other drilling operations and activities.

IMPLEMENTATION

Field Activities Drill rig safety and maintenance is the responsibility of the drill rig operator. WBC employees are responsible for their own safety including recognizing and avoiding drill rig hazards. WBC employees that observe a drill rig condition believed to be unsafe shall advise the drill rig operator of the unsafe condition.

SAFETY GUIDELINES

A. General Guidelines

WBC technicians, geologists, engineers, or other field staff assigned to observe drilling operations or collect soil samples should observe the following guidelines:

- WBC engineers, technician, and geologists shall not assist the drillers with the drilling equipment or supplies and shall not at any time operate the drill rig controls.
- All employees working on or near the drill rigs must remain AWARE of hazards at all times. Avoid any moving parts or equipment.
- Avoid climbing on to any part of the drill rig as it will create a fall hazard.

B. Movement of Drill Rigs

Before moving a rig, the operator must do the following:

- To the extent practical, walk the planned route of travel and inspect it for overhead utility lines, depressions, gullies, ruts, and other obstacles.
- Lower the tower.
- Check the brakes of the truck/carrier, especially if the terrain along the route of travel is rough or sloped.
- Discharge all passengers before moving on rough or steep terrain.
- Engage the front axle (on 4x4, 6x6, etc. vehicles) before traversing rough or steep terrain.

Driving drill rigs along the sides of hills or embankments should be avoided; however, if side-hill travel becomes necessary, the operator must conservatively evaluate the ability of the rig to remain upright while on the hill or embankment. The possibility must be considered that the presence of drilling tools on the rig may reduce the ability of the rig to remain upright (raises the center of mass of the rig).

Logs, ditches, road curbs, and other long and horizontal obstacles should be normally approached and driven over squarely, not at an angle.

When close lateral or overhead clearance is encountered, the driver of the rig should be guided by another person on the ground.

Loads on the drill rig and truck must be properly stored while the truck is moving, and the mast must be in the fully lowered position.

After the rig has been positioned to begin drilling, all brakes and/or locks must be set before drilling begins. If the rig is positioned on a steep grade and leveling of the ground is impossible or impractical, the wheel of the transport vehicle should be blocked and other means of preventing the rig from moving or topping over employed.

C. Buried and Overhead Utilities

The location of overhead and buried utilities lines must be determined before drilling begins by contacting the local one call system at least two full working days before the work.

When overhead power lines are close by, the drill rig mast should not be raised unless the distance between the rig and the nearest power line is at least 20 feet (7 meters) or other distance as required by local ordinances, whichever is greater. The drill rig operator or assistant should walk completely around the rig to make sure that proper distance exists.

When the drill rig is positioned near an overhead line, the rig operator should be aware that hoist lines and power lines can be moved towards each other by wind. When necessary and approved by the Project Manager (PM), the utility and/or power lines may be shielded, shut down, or moved by the appropriate personnel.

For additional information, please refer to information regarding “Utility Clearances and Isolation”.

D. Clearing the Work Area

Before a drill rig is positioned to drill, the area on which the rig is to be positioned should be cleared of removable obstacles and the rig should be leveled if sloped. The cleared/leveled area should be large enough to accommodate the rig and supplies.

E. Safe Use of Augers

Never place hands or fingers under the bottom of an auger flight or drill rods when hoisting the augers or rods over the top of another auger or rod in the ground or other hard surfaces, such as the drill rig platform.

Never allow feet to get under the auger or drill rod while they are being hoisted.

When the drill is rotating, stay clear of the drill string and other rotating components of the drill rig. Never reach behind or around a rotating auger for any reason.

Move auger cuttings away from the auger with a long-handled shovel or spade; never use hands or feet when auger is moving.

Never clean an auger attached to the drill rig unless the transmission is in neutral or the engine is off, and the auger has stopped rotating.

Do not wear loose clothing or jewelry while working near the drill rig. Long hair must be pulled back to avoid entanglement with moving parts.

Hearing protection is recommended when working near an operating drill rig.

F. Safe Use of Hand Tools

Regulations regarding hand tools should be observed in addition to the guidelines provided below:

- Each tool should be used only to perform tasks for which it was originally designed.
- Damaged tools should be repaired before use or discarded.
- Safety goggles or glasses should be worn when using a hammer or chisel. Nearby co-workers and by-standers should be required to wear safety goggles or glasses also, or move away.
- Tools should be kept cleaned and stored in an orderly manner when not in use.

G. Safe use of Wire Line Hoists, Wire Rope, and Hoisting Hardware

Inspect slings, ropes and related equipment prior to each use. Any damage such as fraying, bird caging or other visible damage will require that the equipment not be used until repaired or replaced.

Never touch a cable while it is moving.

H. Traffic Safety

Drilling in streets, parking lots or other areas of vehicular traffic requires definition of the work zones with cones, warning tape, etc. and compliance with local police requirements.

I. Fire Safety

- Fire extinguishers (type ABC) shall be kept on or near drill rigs for fighting small fires.
- If methane or other flammable gases or vapors are suspected in the area, a combustible gas indicator (CGI) shall be used to monitor the air near the borehole with all work to stop at 20 percent of the Lower Explosive Limit (LEL).
- Work shall stop during lightning storms.

J. Protective Gear

1. Minimum Protective Gear

Items listed below should be worn by all staff working within 30 feet (10 meters) of drilling activities.

- Hearing Protection;
- Hard Hat;
- Eye Protection (safety glasses, goggles, or face-shield); and,
- Over the ankle, steel-toe work boots.

2. Other Gear

Items listed below should be worn when conditions warrant their use. Some of the conditions are listed after each item.

- **Safety Harnesses and Lifelines:** Safety harnesses and lifelines shall be worn by all persons working on top of an elevated derrick beam or mast. The lifeline should be secured at a position that will allow a person to fall no more than six feet (2 meters). OSHA Fall Protection (1926 Subpart M) requirements apply.
- **Life Vests**: Use for work over water.