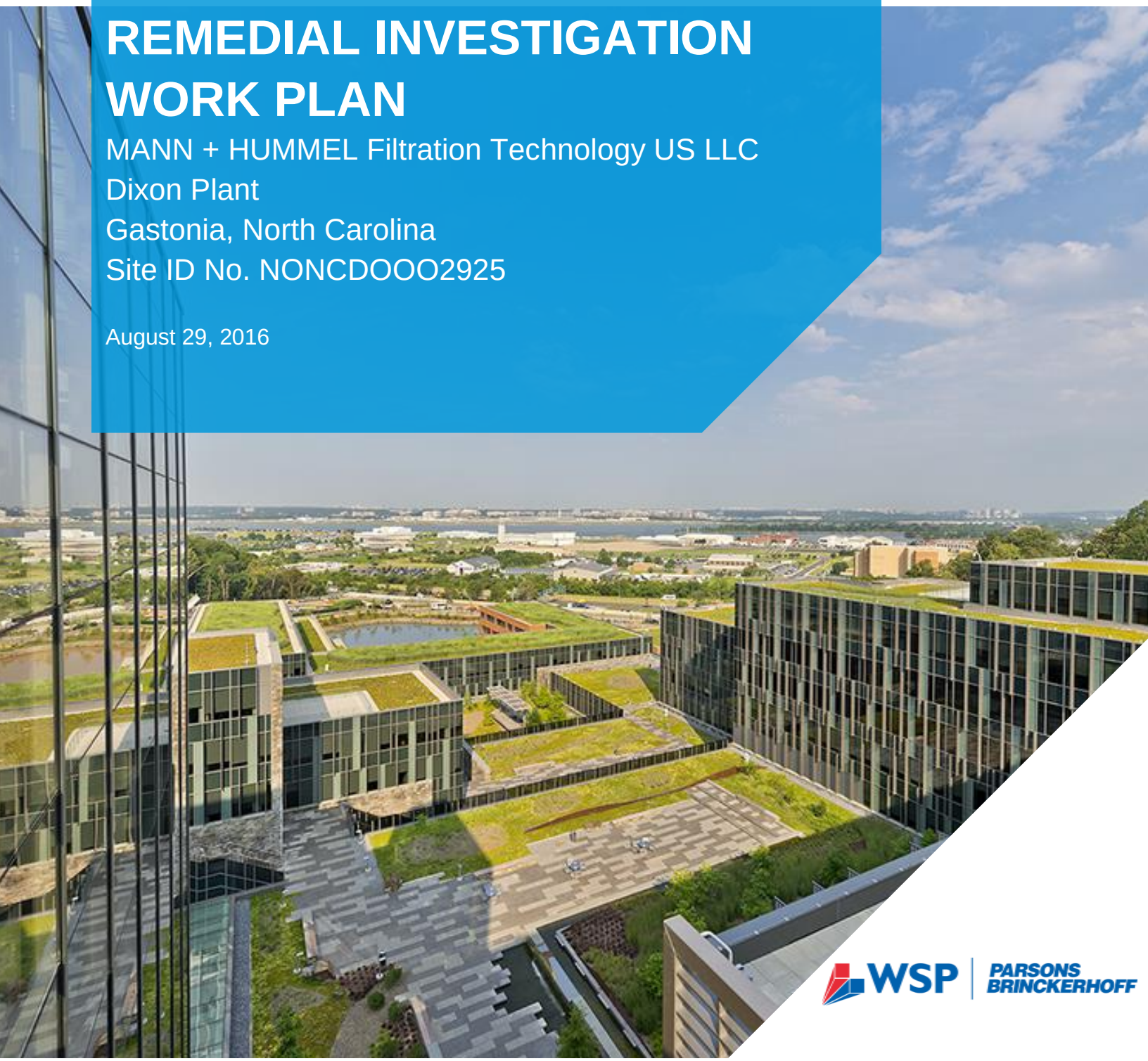
REMEDIAL INVESTIGATION WORK PLAN

MANN + HUMMEL Filtration Technology US LLC
Dixon Plant
Gastonia, North Carolina
Site ID No. NONCDOOO2925

August 29, 2016



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Client

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Gastonia, NC 28053-1967

Consultant

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Certifications

REC PROGRAM DOCUMENT CERTIFICATION FORM - PAGE 1 OF 2
IHSB SITE NAME MANN+HUMMEL Filtration Technology US LLC - Dixon Plant
DATE & NAME OF DOCUMENT 08/29/2016 Remedial Investigation Work Plan
TYPE OF SUBMITTAL (circle all that apply): Report, Work plan, Work Phase Comp. Statement, Schedule Change

REMEDIATING PARTY DOCUMENT CERTIFICATION STATEMENT (.0306(B)(2))

"I certify under penalty of law that I have personally examined and am familiar with the information contained in this submittal, including any and all documents accompanying this certification, and that, based on my inquiry of those individuals immediately responsible for obtaining the information, the material and information contained herein is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for willfully submitting false, inaccurate or incomplete information."

Monty Gibson, CSP
Name of Remediating Party

Signature of Remediating Party

8/18/16
Date

NOTARIZATION

North Caroline (Enter State)
Cabarrus **COUNTY**

I, Tammy L Johnson-Gibson, a Notary Public of said County and State, do hereby certify that Monty Gibson did personally appear and sign before me this day, produced proper identification in the form of license, was duly sworn or affirmed, and declared that, to the best of his or her knowledge and belief, after thorough investigation, the information contained in the above certification is true and accurate, and he or she then signed this Certification in my presence.

WITNESS my hand and official seal this 18 day of August 2016.

Tammy Johnson-Gibson
Notary Public (signature)

(OFFICIAL SEAL)
Tammy L Johnson-Gibson NOTARY PUBLIC Cabarrus County, NC

My commission expires: July 12, 2017

Document Certification Form No. DC - I
(Revised 8/11)

REC PROGRAM DOCUMENT CERTIFICATION FORM - PAGE 2 OF 2
IHSB SITE NAME MANN+HUMMEL Filtration Technology US LLC - Dixon Plant
DATE & NAME OF DOCUMENT 08/29/2016 Remedial Investigation Work Plan
TYPE OF SUBMITTAL (circle all that apply): Report, **Work plan**, Work Phase Comp. Statement, Schedule Change

REGISTERED SITE MANAGER CERTIFICATION OF SIGNATURES

As the Registered Environmental Consultant for the Site for which this filing is made, I certify that the signatures included herewith are genuine and authentic original handwritten signatures and/or true, accurate, and complete copies of the genuine and authentic original handwritten signatures of the persons who purport to sign for this filing. I further certify that I have collected through reliable means the originals and/or copies of said signatures from the persons authorized to sign for this filing who, in fact, signed the originals thereof. Those persons and I understand and agree that any copies of signatures have the same legally binding effect as original handwritten signatures, and I certify that any person for whom I am submitting a copy of their signature has provided me with their express consent to submit said copy. Additionally, I certify that I am authorized to attest to the genuineness and authenticity of the signatures, both originals and any copies, being submitted herewith and that by signing below, I do in fact attest to the genuineness and authenticity of all the signatures, both originals and copies, being submitted for this filing.

Robert E. Johnson, LG
Name of Registered Site Manager

Signature of Registered Site Manager — Date: 08/29/2016

REGISTERED SITE MANAGER DOCUMENT CERTIFICATION STATEMENT (.0306(b)(1))

"I certify under penalty of law that I am personally familiar with the information contained in this submittal, including any and all supporting documents accompanying this certification, and that the material and information contained herein is, to the best of my knowledge and belief, true, accurate and complete and complies with the Inactive Hazardous Sites Response Act N.C.G.S. 130A-310, et seq, and the remedial action program Rules 15A NCAC 13C .0300. I am aware that there are significant penalties for willfully submitting false, inaccurate or incomplete information."

Robert E. Johnson, LG
Name of Registered Site Manager

Signature of Registered Site Manager — Date: 08/29/2016

NOTARIZATION

Virginia (Enter State)

Fairfax **COUNTY**

I, Rachel Okwesa, a Notary Public of said County and State, do hereby certify that Robert E. Johnson did personally appear and sign before me this day, produced proper identification in the form of drivers license, was duly sworn or affirmed, and declared that, he or she is the duly authorized environmental consultant of the remediating party of the property referenced above and that, to the best of his or her knowledge and belief, after thorough investigation, the information contained in the above certifications is true and accurate, and he or she then signed these Certifications in my presence.

WITNESS my hand and official seal this 29th day of August, 2016.

Notary Public (signature)

(OFFICIAL SEAL)
RACHEL LEE OKWESA
NOTARY PUBLIC
REG. #7627535
MY COMMISSION EXPIRES
05/31/2019
COMMONWEALTH OF VIRGINIA

My commission expires: 5/31/19.

Document Certification Form No. DC - II
(Revised 8/11)

1 Introduction

This Remedial Investigation (RI) Work Plan (Work Plan) describes the activities necessary to perform the RI for the MANN + HUMMEL Filtration Technology US LLC (MANN + HUMMEL), formerly Wix Filtration Corp LLC (Wix), Dixon Plant (Site). The RI is being performed pursuant to the requirements of the executed Registered Environmental Consultant (REC) Administrative Agreement between Affinia Group Inc. (Remediator), WSP USA Corp. (REC) and the North Carolina Department of Environment and Natural Resources (NCDENR) Division of Waste Management, Superfund Section, effective June 9, 2015. On September 18, 2015, the NCDENR officially became the North Carolina Department of Environmental Quality (NCDEQ) and will be referenced as the NCDEQ throughout this Work Plan.

The Site is comprised of the property (Parcel No. 113350) located at 1525 S. Marietta Street in Gastonia, Gaston County, North Carolina (Figure 1) and is currently owned by MANN + HUMMEL. Environmental sampling and testing conducted during due diligence activities at the Site in October 2012 identified polychlorinated biphenyls (PCBs) in soils. In February 2013, WSP submitted, on behalf of Wix, the Notification of an Inactive Hazardous Substance or Waste Disposal Site and Site Cleanup Questionnaire to the NCDEQ. Based on NCDEQ's review of this submittal, NCDEQ determined that any future investigation and remediation activities could be performed under the Registered Environmental Consultant (REC) Program.

The Work Plan was prepared in accordance with NCDEQ's REC Program Implementation Guidance (2015a), Inactive Hazardous Sites Program Guidelines for Assessment and Cleanup (2015b), U.S. Environmental Protection Agency (EPA) Region IV Science and Ecosystem Support Division (SESD) Field Branches Quality System and Technical Procedures, and other relevant guidance. The objective of the RI is to provide a framework for fulfilling program requirements under a voluntary remediation action program pursuant to North Carolina General Statutes Chapter 130A-310.9(c) and 15A North Carolina Administrative Code Title 15A Chapter 13C Section .0300.

This Work Plan includes the following elements:

Section 2 – Site Description

Section 3 – Site History

Section 4 – Proposed Methods of Investigation

Section 5 – Schedule

Section 6 – Certification

Section 2 provides a physical description of the Site, current Site operations and waste management practices, and surrounding property land use. The operational and environmental history of the Site is presented in Section 3. The proposed RI scope of work, sample collection and handling procedures, laboratory analysis, and data management are presented in Section 4. Section 5 provides a schedule for the implementation of the scope of work and submittal of the RI Report.

In addition, a site-specific Health and Safety Plan (HASP) was prepared to address potential health and safety related issues which might arise during implementation of the scope of work described herein for both Site workers and the surrounding community (WSP 2016).

2 Site Description

The Site is located at 1525 S. Marietta Street in Gastonia, North Carolina (Figure 1). The latitude and longitude of the Site is 35.240968 degrees (°), -81.190279°. The Site is comprised of 5.45 acres of land and includes a single-tenant, 148,000-square-foot building with a partial (12,500-square-foot) basement located under the southern portion of the building, and a single-story, 140-square-foot, brick guard station (Figure 2). Asphalt-paved surfaces surround the subject building.

The Site's current operations include filter testing, prototyping, unpacking, packing, inspection, shipping and receiving, and operates under Standard Industrial Classification Codes 4783 and 8734, which are specific to establishments primarily engaged in packing, crating, and otherwise preparing goods for shipment, and providing testing services. Sections 2.1 and 2.2 summarize WSP's 2012 Phase I Environmental Site Assessment's findings, provided to the NCDEQ in the Notification of an Inactive Hazardous Substance or Waste Disposal Site, dated February 15, 2013.

2.1 Current and Historical Conditions

2.1.1 Raw Materials Handling and Storage Practices

MANN + HUMMEL stores the following raw materials on-site: manufactured filters, cardboard boxes and packaging materials, aqueous bio-shield for treating cabin air filters, oil, automatic transmission fluid, and small amounts of construction materials, chemicals, and solvents used for prototype construction and laboratory testing. Manufactured filters, cardboard boxes, and packaging materials are stored in the warehouse areas. Oil and automatic transmission fluid, which are used to test filters and aqueous biocide, are stored in 55-gallon drums in the oil storage room. The oil storage room has a bermed entrance and a coated concrete floor that provide adequate secondary containment. Prototype construction materials are stored in the prototype shop and maintenance area. Laboratory solvent is stored in 4-liter glass bottles in flammable material cabinets located in laboratory rooms.

Facility personnel report that between 2008 and 2009, the facility discontinued the use of bulk quantities of plastisol, paper filter media, 2-component polyurethane adhesive, surfactants, oil, inks, and cleaning solution when the associated manufacturing operations were moved.

All incoming raw materials are received by truck to the receiving dock at the south end of the building. According to facility personnel and reviews of government records, no reportable spills or releases of raw materials have occurred at the site.

2.1.2 Solid and Hazardous Waste

The Site is currently registered as a small quantity generator of hazardous waste and operates under the EPA Identification Number NCD980558829. The primary hazardous waste stream generated by the facility is spent pentane and xylene solvent (F003) generated by filter testing. Hazardous waste is stored in drums located in the oil storage room, with satellite accumulation containers used in the laboratory area. Hazardous waste is removed by Clean Harbors Environmental Services of Norwell, Massachusetts, and disposed at the Clean Harbors facility in La Porte, Texas.

Based on interviews with facility personnel, the hazardous waste streams previously generated by the facility included spent adhesive cleaning solution (D001) and occasionally flammable product components returned by customers (D001). Facility personnel report that previous hazardous waste streams were removed by Heritage-Crystal Clean, LLC, of Charlotte, North Carolina.

The primary nonhazardous wastes generated onsite include used oil, scrap filter media paper, waste aqueous bio-shield, used absorbent from the cleanup of small oil and coolant spills, cardboard, and plant trash. Used oil is generated during filter testing and collected in 55-gallon drums in the lab. Used oil and absorbent from spills is managed by Diversity of Spartanburg, South Carolina. Waste aqueous bio-shield is removed by Clean Harbors of La Porte, Texas. Used absorbent is generated from small oil and coolant spills. VLS of Gastonia, North Carolina

removes scrap filter media paper. Cardboard and plant trash are taken by disposal by Waste Management of Charlotte, North Carolina.

2.1.3 Underground and Aboveground Tanks

According to information reviewed in the regulatory database report, two heavy fuel oil underground storage tanks (USTs), one 30,000-gallon capacity and one 8,000-gallon capacity, were installed in 1962 on the west side of the building, and both tanks have been removed. According to facility personnel, the two tanks were located adjacent to each other end-to-end under the paved area. The 30,000-gallon tank was removed in 1999. According to a removal report prepared by Aquaterra Engineering, dated July 6, 1999, five soil samples were collected from the bottom of the tank excavation following removal of the tank. The samples were analyzed for total petroleum hydrocarbons (TPH)-diesel range by Specialized Assays, Inc. of Nashville, Tennessee. No TPH was detected in any of the samples. The 8,000-gallon tank was removed in 1980. No closure report or soil sampling data is available for the 1980 tank removal.

During the October 2012 due diligence activities, two borings were advanced in the vicinity of the former 8,000-gallon UST. Soil samples were collected for TPH at a depth of 10 to 12 feet below ground surface (bgs) 15 to 17 feet bgs. Diesel and gasoline range TPH were not detected in the samples collected. A more detailed discussion of the due diligence activities is provided in Section 3.1.

MANN + HUMMEL does not currently operate any aboveground storage tanks. Two out-of-service 1,500-gallon cylindrical steel tanks are located in a small room near the northeast corner of the building. These tanks were used to store plastisol and oil, and have been empty since manufacturing ceased in 2009. No environmental concerns were identified for these tanks.

2.2 Adjoining Properties

The Site is bordered to the north by a residential area; to the south and east by Marietta Street followed by residential and commercial development; and to the west by a railroad right-of-way, followed by Lingerfeldt Elementary School, and a church with an attached daycare facility (Figure 2). The nearest residences are located directly north and northeast of the site.

A gas station was formerly in operation at 1501 South Marietta Street, less than 0.1 miles east of the subject property. According to the government records reviewed, soil and groundwater petroleum contamination was found following removal of six USTs in 1998. The contamination was cleaned up by the responsible party and NCDEQ determined that no further action was required and closed the case in June 1999.

2.3 Environmentally Sensitive Areas

The Site and all adjacent properties were evaluated for the existence of any environmentally sensitive areas. The Site is located within an urban area of the Piedmont physiographic region of North Carolina. Based on the U.S. Geological Survey 7.5-minute topographic map for the Gaston South, quadrangle, and the North Carolina Natural Heritage Program's data services website (2016), no water bodies, wetlands, forests, parks, or other natural areas are present on or adjacent to the Site (Figure 1). The nearest water body, an intermittent stream that discharges to Catawba Creek, is located approximately 0.20-mile northeast of the site; according to the National Parks Service, neither the intermittent stream nor Catawba Creek is a wild or scenic river (U.S. National Wild and Scenic Rivers System 2016). Additionally, no national or state historical sites are present on or adjacent to the Site (North Carolina Department of Cultural Resources 2016).

An Information for Planning and Conservation (IPaC) Trust Resource Report was prepared for the Site (Appendix A). An endangered flowering plant (Schweinitz' Sunflower - *Helianthus scweinitzii*) and a threatened mammal (Northern Long-eared Bat - *Myotis septentrionalis*) were identified as species that may occur or could potentially be affected by activities at the Site. Sixteen migratory birds of conservation concern, including the Bald Eagle (*Haliaeetus leucocephalus*), were identified that could potentially be affected by activities at the Site. No critical habitats, wildlife refuges or wetlands were identified in the IPaC Trust Resource Report.

2.4 Regional Geology and Hydrogeology

The Site is located in the Charlotte Belt, which is characterized by igneous rocks such as granite, diorites and gabbro. Bedrock beneath the Site consists of Pennsylvanian- to Permian-age foliated to massive granitic rock (North Carolina Geological Survey 1985). The bedrock is overlain by regolith which in the vicinity of the Site generally consists of soil and saprolite (chemically weathered bedrock).

The unconsolidated regolith materials covering the bedrock and fractures in the bedrock serve as the principal porous zones for the storage and transmission of groundwater in the subsurface. Groundwater movement is generally along short flow paths from inter-stream recharge areas to the nearest stream (U.S. Geological Survey [USGS] 1997).

2.5 Local Water Sources

The Site obtains its drinking water from the city of Gastonia public water supply. The main water source for the city of Gastonia is Mountain Island Lake near Mount Holly, North Carolina, approximately 13 miles northeast of the Site.

WSP retained EDR to complete a water well survey in July 2012 (Appendix B). EDR identified eleven wells within a 0.5-mile radius of the Site. However, all eleven wells were registered to the U.S. Geological Survey, and are likely used for monitoring and testing purposes, not as a source of water for residential or non-residential (e.g., agricultural) purposes. The nearest public supply well is located approximately 0.8–mile southwest of the Site. As discussed in Section 3.2, groundwater beneath the Site has not been affected by Site operations.

The nearest water body, an intermittent stream that discharges to Catawba Creek, is located approximately 0.20-mile northeast of the site. Catawba Creek is located 0.4-mile northeast of the Site. Catawba Creek is not used as a drinking water source.

3 Site History

WSP retained EDR to conduct a search for historical records pertaining to the subject property. The records searched produced the following (Appendix B):

- aerial photographs dated 1961, 1969, 1971, 1973, 1984, 1989, 1993, 1994, 1999, 2005, 2006, and 2008
- Sanborn fire insurance maps from 1922, 1930, and 1942
- historical topographic maps from 1947, 1973, 1984, and 1993
- city directories from 1964 to 2012
- property deed dated 2004

The Site was first developed by Dixon Mills Inc. in 1919 as a cotton mill. The Site was likely used for residential or agricultural purposes prior to the construction of the mill. According to a Sanborn Map for the property, dated 1922, the mill was electric powered. Operations identified at the Site included carding, spinning, spooling, twisting, and reeling. No dyeing operations were identified at the site. In 1946, American & Efird Mills purchased the property and continued its use as a cotton mill.

In 1957, the property was purchased by the U.S. Rubber Company (Uniroyal). Uniroyal produced rubber-based elastic for use in textiles at the Site. The facility received natural and synthetic latex emulsions by tanker truck and produced cured rubber thread, some of which was also sheathed in fabric.

Wix purchased the property in 1969, and from 1969 to 2009 manufactured air filters at the Site. The air filter manufacturing process involved pleating paper filter media, assembling it with metal and plastic components using plastisol, a suspension of polyvinyl chloride particles in a plasticizer, or polyurethane resins as adhesives, and thermal curing the resulting assembly to harden the adhesive. This process does not typically involve significant amounts of solvents, petroleum, or other hazardous substances, except for cleaning solution used to clean the adhesive handling equipment. According to facility personnel, a solution of terpenes was used to clean adhesive handling equipment between 1988 and 2009. Prior to 1988 methylene chloride was used for this purpose.

3.1 Environmental Permit History

As discussed in Section 2.1.2, the Site is a small quantity generator of hazardous waste. The Site does not have any water, storm water, or air permits. Based on WSP's review of the current Site operations, no permits are required. The permits for the monitoring wells installed during the October 2012 environmental investigation (see Section 3.2) are provided in Appendix C.

3.2 Environmental Investigations

The following environmental conditions identified during WSP's 2012 Phase I were investigated in October 2012 (see Figure 3 for monitoring well and soil boring locations):

- floor pit that held PCB-containing sludge (SB-1)
- a former 8,000-gallon fuel oil UST (SB-2 and SB-3)
- impacts to the environment resulting from the nearly 100-year use of the Site for industrial purposes (MW-1/SB-4, MW-2/SB-5, MW-3/SB-6, and MW-4/SB-7)

The results of the investigation were previously provided to the NCDEQ in the Notification of an Inactive Hazardous Substance or Waste Disposal Site, dated February 15, 2013. Monitoring well construction information is provided in Table 1, soil analytical results are presented in Table 2, and groundwater analytical results are presented in Table 3. Boring logs, well installation permits, survey and analytical data are provided in Appendix C.

Four direct-push monitoring wells were installed to depths ranging from 25 feet bgs to 58 feet bgs; the shallowest well, MW-2, did not produce water. Generally, silty soils and saprolite comprise the regolith materials in each well borehole, with probe refusal on weathered bedrock encountered at 58 feet bgs at the MW-3 location. Based on the 2012 water level data, saturated conditions occur at depths of greater than 35 feet at the site. A contour map of the groundwater surface shows that groundwater flow is in a generally northward direction towards Catawba Creek (Figure 4). Water table elevations ranged from 760 feet mean sea level (msl) in the southern portion of the site to 750 feet msl to the north.

One soil boring (SB-1) was advanced within the building to evaluate a former concrete floor pit (2-foot by 4-foot by 4-foot deep) that was cleaned and filled with concrete in 2009 as part of building renovation activities. The pit contained oily sludge which was tested and found to contain up to 0.17 milligrams per kilogram (mg/kg) of PCBs. The sludge was removed for proper disposal, and the pit was filled with concrete prior to completion of the renovation. No sampling or testing of the concrete or surrounded soil was performed to confirm that no significant PCB contamination was present in surrounding concrete or soil. Soil samples were collected from SB-1 at a depth of 6 to 8 feet bgs and 8 to 10 feet bgs for analysis of PCBs by EPA Method 8082. Aroclor 1260 was detected in both samples at concentrations ranging from 368 micrograms per kilogram (µg/kg) to 1,260 µg/kg. These concentrations are greater than the North Carolina Preliminary Soil Remediation Goals (PSRGs) (2016) for protection of groundwater (140 µg/kg). The duplicate sample collected from 8 to 10 feet bgs, exceeded the unrestricted use remediation goal of 1,000 µg/kg.

As discussed in Section 2.1.3, SB-2 and SB-3 were advanced to 15 feet bgs and 17 feet bgs, in the vicinity of the former 8,000-gallon UST. Soil samples were collected from 10 to 12 feet bgs (SB-2) and 15 to 17 feet bgs (SB-3), the presumed depth of the UST tank cavity, and analyzed for gasoline range and diesel range TPH by EPA Method 8015. The results for both samples were non-detect.

Soil samples were collected from each monitoring well boring (SB-4 through SB-7) for the presumed 2-foot interval above the water table to evaluate impacts to soil resulting from historical use of the Site. Soil samples were analyzed for volatile organic compounds (VOCs) by EPA Method 8260B, polycyclic aromatic hydrocarbons (PAHs) by EPA Method 8270C, and metals by EPA Method 6010B. No VOCs or PAHs were detected above the laboratory reporting limits in any of the samples collected. Arsenic, barium, cadmium, chromium, lead, and selenium were detected. Only selenium was detected at concentrations slightly higher than the protection of groundwater PSRG of 2.1 mg/kg; concentrations ranged from 2.8 mg/kg to 2.9 mg/kg. Selenium concentrations detected in site soils are greater than the USGS average for Gaston County (0.103 mg/kg), but lower than the state maximum concentration measured in nearby Montgomery County (11.8 mg/kg; USGS 2016). Selenium was not identified as a chemical used in plant processes and the measured concentrations are likely indicative of the chemical composition of the native soils. As discussed below, selenium was not detected in any of the groundwater samples collected from the Site.

Groundwater samples were collected from 3 of the 4 monitoring wells installed (MW-1, MW-3, and MW-4) for analysis of VOCs, PAHs, and dissolved Resource Conservation and Recovery Act (RCRA) metals; no sample was collected from MW-2 due to insufficient groundwater volume. No VOCs or PAHs were detected above the laboratory reporting limits in the groundwater samples collected. No dissolved RCRA metals were detected except barium, Barium was detected at concentrations ranging from 51.5 micrograms per liter (µg/l) to 85.9 µg/l, which are below the North Carolina Groundwater Standard of 700 µg/l.

4 Proposed Site Characterization Activities

PCBs were detected at concentrations greater than protection of groundwater PSRG in samples collected from SB-1 at 6-8 feet bgs and 8-10 feet bgs, and the industrial soil PSRG in the duplicate sample collected from SB-1 at 8-10 feet bgs (see Section 3.2). One boring (SB-1R) will be advanced adjacent to SB-1 to confirm the results of the 2012 investigation (Figure 5). Four additional borings (SB-8 through SB-11) will be advanced, at an approximate grid spacing of 10 feet, to delineate (as necessary) PCB concentrations measured in soil samples collected from SB-1R (Figure 5). Given the low mobility of PCBs, it is not anticipated that groundwater, encountered at depths greater than 35 feet, would be affected by the release. If total PCBs are not delineated to less than the protection of groundwater PSRG, a groundwater characterization work plan will be prepared under separate cover.

The sampling and analysis plan is presented below. WSP and SESD Standard Operating Procedures are provided in Appendix D.

4.1 Ground Penetrating Radar Survey

Prior to any intrusive activities at the Site, a ground penetrating radar (GPR) survey will be conducted to identify potential underground utilities in the investigation area, and to identify the location and verify the dimensions of the filled concrete pit (Figure 5). GPR works by sending a pulse of energy into the subsurface and recording the strength and transit time of the reflected signal. Reflections are produced when the pulse enters into a dissimilar material (e.g., concrete versus soil). A map(s) depicting the location and depth of the features identified by the survey will be provided in the RI Report.

4.2 Concrete Sampling

Prior to the advancement of the five soil borings, a concrete sample will be collected at each soil boring location by drilling a 1-inch diameter (nominal) hole approximately 6-inches into the concrete slab with a hammer drill to pulverize the concrete. The pulverized concrete collected from SB-1R will be analyzed for PCBs by EPA Method 8082 upon receipt by the analytical laboratory. Concrete samples collected from the other locations will be placed on hold pending the results of SB-1R. Samples will be released for analysis if soil and/or concrete results indicate further delineation is necessary.

The pulverized concrete will be placed in the method-specific, laboratory-provided container with a spatula (or similar). The sample container will be labeled with the following:

- Site name (Dixon Plant)
- sample identification, which will include the location and depth in feet bgs (i.e., SB-8-0005)
- sample date and time
- samplers initials
- requested analysis
- media (concrete)

The sample information, including identification, date, time, and requested analysis will be recorded in the field log book and on the chain-of custody form. The labeled sample will be placed in an ice-filled cooler and transported to Pace Analytical Services of Huntersville, North Carolina after the completion of sampling activities under strict chain-of-custody procedures.

4.3 Soil Sampling

Five soil borings (SB-1R, SB-8 through SB-11) will be advanced into native soil (minimum depth of 15 feet bgs) with a direct-push drill rig. Continuous soil samples will be collected from the ground surface to the termination depth with a Dual Tube sampler (or similar) equipped with a disposal acetate liner. Upon recovery, soil cores will

be placed on plastic sheeting, visually screened for evidence of contamination, and logged using the Unified Soil Classification System, and screened for organic vapors in the field with a photoionization detector (PID) equipped with a 10.6 electron-volt (eV) lamp. Lithologic descriptions and the PID measurements will be recorded in a field book and on boring logs.

The total PCB concentration measured in the duplicate sample of SB-1 collected from 8-10 feet bgs, was greater than the unrestricted use standard and protection of groundwater PSRG. A minimum of three soil samples will be collected from SB-1R at 2-foot intervals from 8 feet bgs to 14 feet bgs (e.g. 8-10 feet bgs, 10-12 feet bgs, and 12-14 feet bgs) for analysis of PCB congeners (EPA Method 1668)[1] to evaluate the industrial/commercial health based PSRG, total PCBs (EPA Method 8082) to evaluate the protection of groundwater PSRG, PAHs (EPA method 8270; due to the release of oily material) to evaluate the industrial/commercial health based and protection of groundwater PSRGs, and VOCs (EPA Method 5035/8260) to satisfy the requirements of Appendix A Section 3b of the 2015 REC Guidance; additional soil samples will be collected if native soil is encountered at depths greater than 14 feet bgs or if visible contamination is observed at depths of less than 8 feet. Initially, the following samples will be analyzed upon receipt by the analytical laboratory:

- PCB congeners[2], PAHs, and VOCs for the 8-10 foot bgs sample
- total PCBs for the 10-12 foot bgs[3] sample
- PCB congeners[2], PAHs, and VOCs for any sample with visible contamination

All other samples will be placed on hold pending the results of the previously identified samples. Samples will be released for analysis if further delineation is necessary (i.e., sample concentrations exceed the PSRG). An expedited turn-around-time (TAT) of one week will be requested for the total PCB analysis, and a 3-day TAT for PAH and VOC analysis; the laboratory cannot provide an expedited TAT for PCB congeners.

A minimum of three soil samples will be collected from borings SB-8 through SB-11 at 2-foot intervals from 8 feet bgs to 14 feet bgs (e.g. 8-10 feet bgs, 10-12 feet bgs, and 12-14 feet bgs) for analysis of PCB congeners, total PCBs, PAHs, and VOCs. Additional soil samples will be collected if native soil is encountered at depths greater than 14 feet bgs or if visible contamination is observed at depths of less than 8 feet. Initially, the following samples will be analyzed upon receipt by the analytical laboratory:

- total PCBs for the 8-10 feet bgs[4]
- PCB congeners[2], PAHs, and VOCs for any sample with visible contamination

All other samples will be placed on hold pending the results of the previously released samples. Samples will be released for analysis if further delineation is necessary (i.e., sample concentration exceeds the PSRG). An expedited analytical TAT of one week will be requested for the total PCB analysis, and a 3-day TAT for PAH and VOC analysis.

Unused sample material will be drummed, and the borehole filled with bentonite pellets or chips to within 1 foot of grade. The ground surface will be patched with concrete to grade. Each borehole will be marked and labelled with floor marking tape in the field and located by measuring its distance from three fixed points. Since the existing floor

---

[1] Only Aroclor 1260 was detected in the soil samples collected during the 2012 investigation. If other Aroclors are detected during the RI, congener analysis will be performed on the corresponding sample(s).
[2] The protection of groundwater PSRG will be evaluated using a summation of the individual congener concentrations.
[3] If the total PCB concentration is greater than the sum of the individual congeners in sample SB-1R collected from 8-10 feet bgs, congener analysis will be performed.
[4] If the total PCB concentration is greater than the sum of the individual congeners in sample SB-1R collected from 8-10 feet bgs and no congeners identified in sample SB-1R exceed the industrial/commercial PSRG, congener analysis will be performed on the sample with the maximum total PCB concentration.

will not be replaced or resurfaced in the near future, the marking tape and patched concrete will be used to locate the boreholes throughout the RI.

4.3.1 Sample Collection

4.3.1.1 Homogenization

Soil samples submitted to the laboratory for PCB analysis will be thoroughly mixed in the field by quartering with a stainless steel spoon or spatula. First, the sides of the retrieved soil core will be scraped to remove any smeared soil. The desired sample interval will then be placed in a glass or stainless steel pan (or similar) and divided into quarters; each quarter will then be mixed individually. Two quarters will be mixed into halves, followed by combining the two halves into one homogenous mixture. This procedure will be repeated a minimum of 2 times, until the sample is adequately mixed.

4.3.1.2 Sample Handling

Homogenized soil samples will be placed in the method-specific laboratory-provided container with the mixing spoon. The sample container will be labeled with the following:

- Site name (Dixon Plant)
- sample identification, which will include the location and depth (i.e., SB-8-1012)
- sample date and time
- samplers initials
- requested analysis
- media (soil)

The sample information, including identification, date, time, and requested analysis will be recorded in the field log book and on the chain-of custody form. The labeled sample will be placed in an ice-filled cooler and transported to Pace Analytical Services, Inc. of Huntersville, North Carolina after the completion of sampling activities under strict chain-of-custody procedures.

4.3.2 Field Quality Control Samples

Blind duplicate samples will be collected at a rate of 1 per 20 samples collected. The blind duplicate will be collected from the same homogenized mixture as the primary sample. Blind duplicate samples will be identified as SB-10x, where the “x” represents the number of duplicates collected, followed by the sample depth (i.e., SB-101-1012, for the first blind duplicate sample).

Equipment blanks will be collected daily from each piece of non-dedicated equipment that has been used during sample collection (e.g., cutting shoe, mixing bowls, and spatulas). One equipment blank will be collected by pouring laboratory-provided deionized water over the sampling equipment and captured directly into the appropriate laboratory-provided container. If deionized water is not available, commercially available distilled water will be used; the brand and lot number will be recorded in the field notebook.

4.4 Decontamination

Non-dedicated sampling equipment (e.g. drill bit, downhole direct-push tooling, mixing bowls) will be decontaminated using the following steps:

1) Wipe clean
2) Wash the equipment in detergent (Luminox®) and tap water with a brush
3) Tap water rinse

4) Air dry

Decontamination will be performed before the start of field work and after each use.

4.5 Investigation Derived Waste

Un-sampled soil, decontamination fluids, decontamination supplies, disposable sampling equipment, and personal protective equipment have the potential to be contaminated with PCBs. Solid and liquid wastes will be segregated, and placed in U.S. Department of Transportation-compliant drums and labeled as PCB-containing material. The waste will be stored in the facility's hazardous waste storage area. The wastes will be characterized based on the results of the concrete and soil analytical results. The waste will be disposed of in accordance with federal and state regulations.

5 Schedule

The scope of work described herein will be implemented in third quarter 2016 pending subcontractor availability. If the objectives of this Work Plan are achieved (i.e., delineation of PCBs below the protection of PSRGs), an RI report will be prepared by first quarter 2017. Otherwise, this Work Plan will be amended to include the necessary investigation activities and schedule revisions. Any modifications to the schedule will be addressed in WSP's quarterly status reports to the NCDEQ.

6 Acronyms and Abbreviations

AA	Administrative Agreement
bgs	below ground surface
EPA	U.S. Environmental Protection Agency
eV	electron volt
HASP	Health and Safety Plan
IPaC	Information for Planning and Conservation
mg/kg	milligrams per kilogram
msl	mean seal level
NCDENR	North Carolina Department of Environment and Natural Resources
NCDEQ	North Carolina Department of Environmental Quality
NCDSCS	North Carolina Department of Agriculture and Consumer Services
PCB	polychlorinated biphenyl
PID	photoionization detector
PSRG	Preliminary Soil Remediation Goals
REC	Registered Environmental Consultant
RI	remedial investigation
SESD	Science and Ecosystem Support Division
TPH	total petroleum hydrocarbons
USGS	U.S. Geological Survey
UST	underground storage tank
VOC	volatile organic compound
µg/l	micrograms per liter

7 References

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Figures

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Checked: emh 8/18/16

Approved: rej 8/18/16

Drawn By: EMH 06/27/2016

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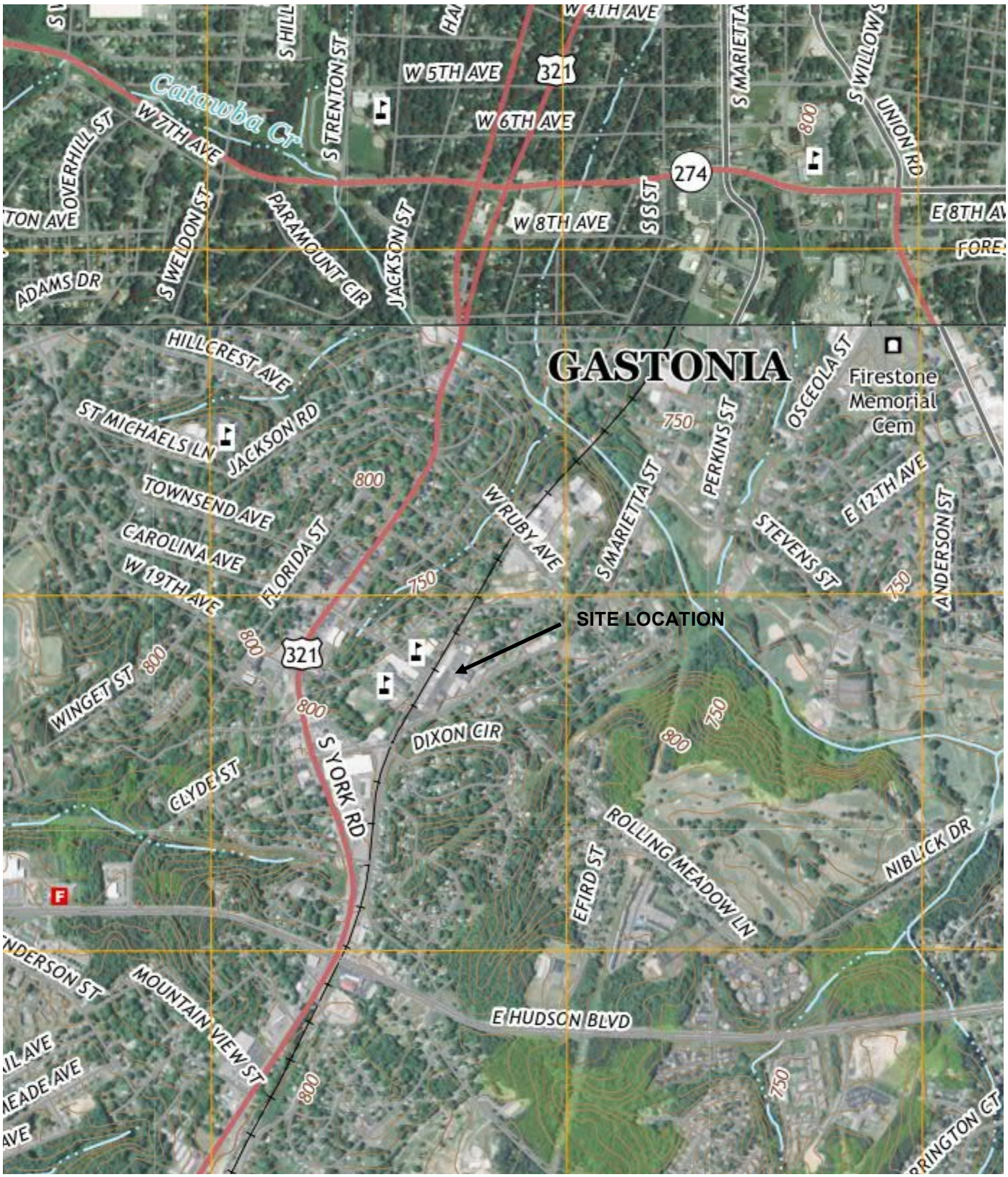

REFERENCE:
7.5 MINUTE SERIES TOPOGRAPHIC QUADRANGLE
GASTONIA NORTH, NC 2013
GASTONIA SOUTH, NC-SC 2016
SCALE 1:24,000

QUADRANGLE LOCATION

N

0 1000 2000 4000

SCALE, FEET

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WSP USA Corp.
13530 Dulles Technology Drive, Suite 300
Herndon, Virginia 20171
www.wspgroup.com/usa

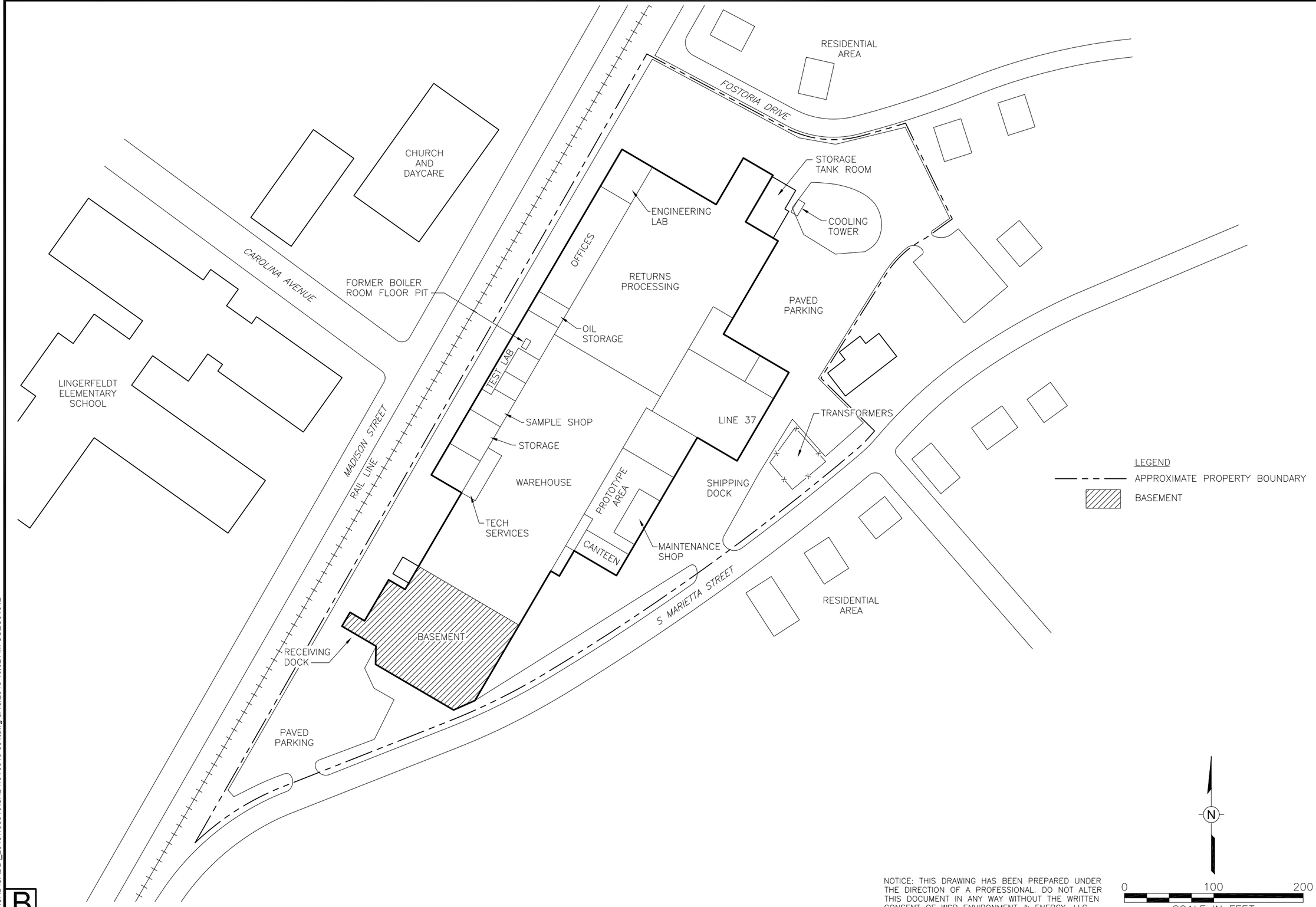
FIGURE 1

SITE LOCATION

DIXON PLANT
GASTONIA, NORTH CAROLINA

PREPARED FOR

MANN + HUMMEL FILTRATION TECHNOLOGY US LLC



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DIXON PLANT
GASTONIA, NORTH CAROLINA
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Figure 2
SITE LAYOUT

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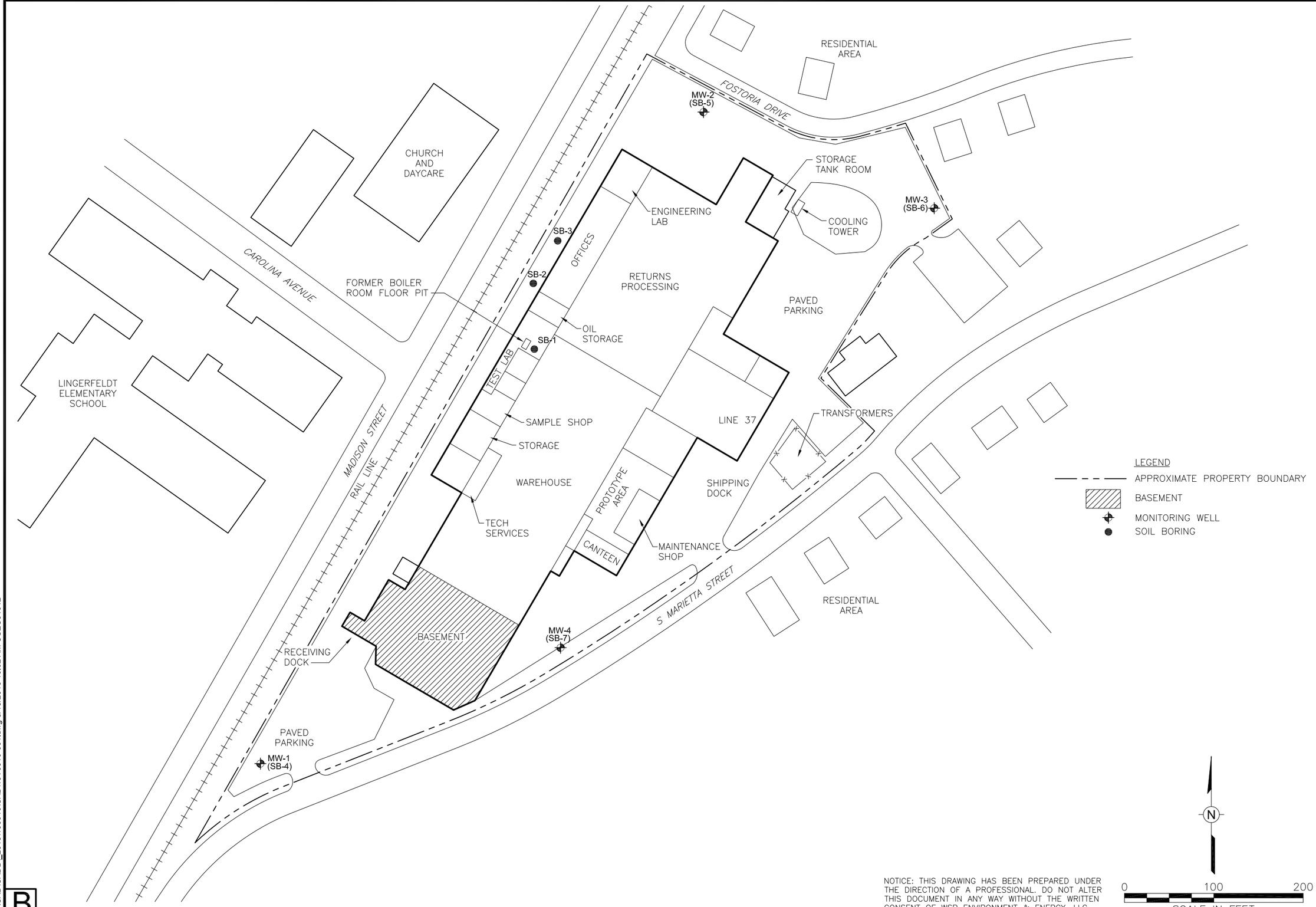

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DIXON PLANT
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Figure 3

SOIL BORING AND MONITORING WELL LOCATIONS

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DIXON PLANT
GASTONIA, NORTH CAROLINA
PREPARED FOR
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Figure 4

POTENTIOMETRIC SURFACE
OCTOBER 2012

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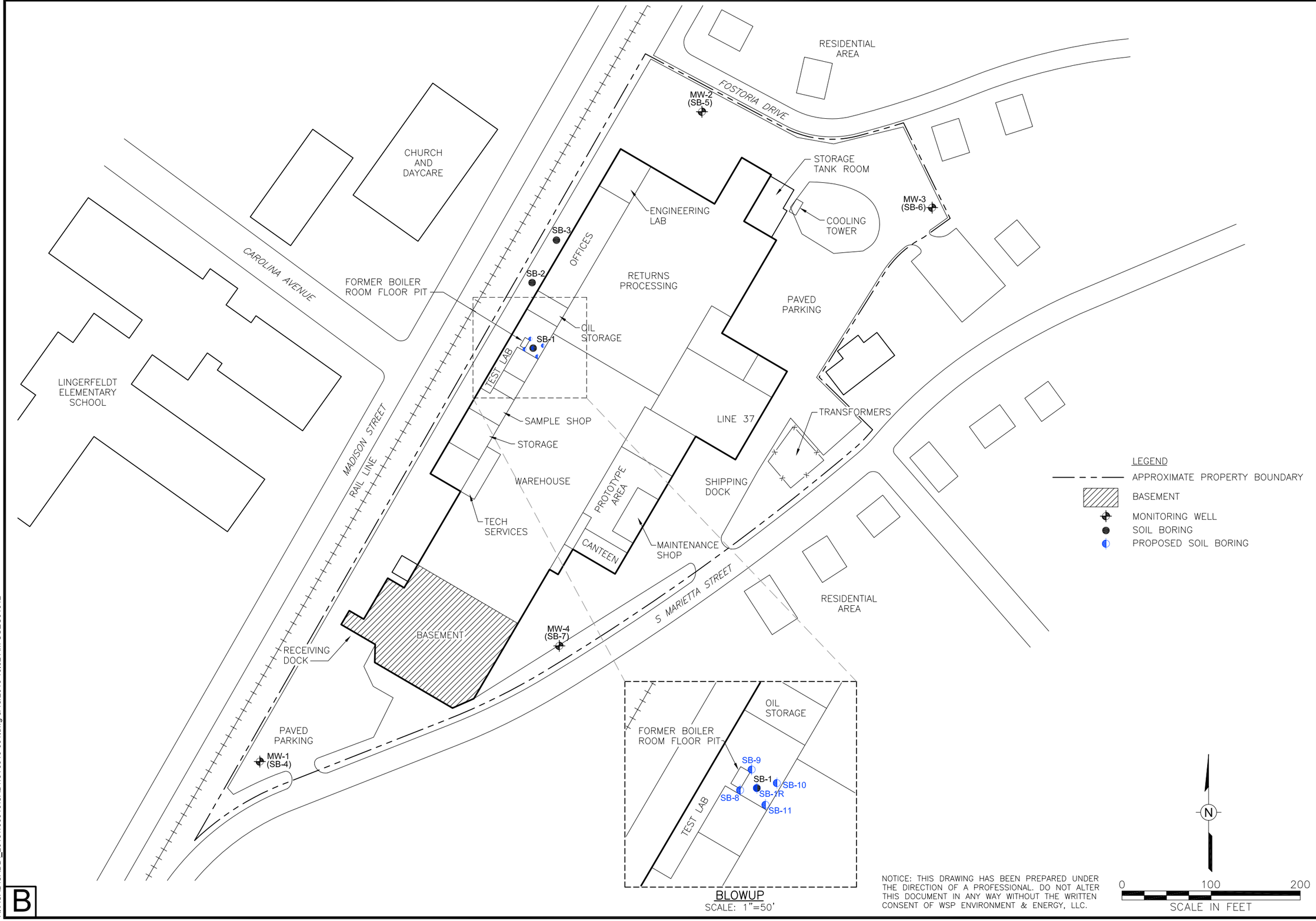

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DIXON PLANT
GASTONIA, NORTH CAROLINA
PREPARED FOR
MANN + HUMMEL FILTRATION TECHNOLOGY US, LLC

Figure 5

PROPOSED SOIL BORING LOCATIONS

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Tables

Table 1

Well Construction Information and Groundwater Elevations
Dixon Plant
MANN + HUMMEL Filtration Technology US LLC
Gastonia, North Carolina (a)

Plant	Well	Northing	Easting	Screened Interval (ft-bgs)	Well Diameter (inches)	Top-of-Casing (ft-msl)	Ground Surface (ft-msl)	Depth to Water (ft-btoc)	Groundwater Elevation (ft-msl)
	MW-1	549395.2	1345639	35 - 40	0.75	796.83	796.91	35.93	760.90
Dixon	MW-2	550124.2	1346135	20 - 25	0.75	792.87	793.06	-	-
	MW-3	550016.6	1346394	53 - 58	0.75	799.85	800.00	49.31	750.54
	MW-4	549524.9	1345975	35 - 40	0.75	786.92	786.92	32.20	754.72

a/ ft-bgs = feet below ground surface; ft-msl = feet mean sea level; ft-btoc = feet below top of casing; "-" = no measurable groundwater.

Table 2

Soil Analytical Results
Dixon Plant
MANN + HUMMEL Filtration Technology US LLC
Gastonia, North Carolina (a)

		Plant:	Dixon Plant										
		Boring Location	SB-1			SB-2	SB-3		SB-4	SB-5		SB-6	SB-7
		Depth (ft-bgs):	6-8	8-10	8-10	10-12	15-17	15-17	33.5-35.5	15-17	15-17	51-53	31-33
		Sample Date:	10/15/12	10/15/12	10/15/2012 (b)	10/16/12	10/16/12	10/16/12 (b)	10/15/12	10/16/12	10/16/12 (b)	10/15/12	10/16/12
Parameters	**North Carolina PSRGs (c)**												
	I/C	**GW**											
Volatile Organic Compounds (µg/kg)													
Acetone	100,000,000	24,000	-	-	-	-	-	-	105 U (d)	116 U	118 U	107 U	149 U
Benzene	5,100	7.3	-	-	-	-	-	-	5.3 U	5.8 U	5.9 U	5.4 U	7.5 U
Bromobenzene	360,000	-	-	-	-	-	-	-	5.3 U	5.8 U	5.9 U	5.4 U	7.5 U
Bromochloromethane	126,000	-	-	-	-	-	-	-	5.3 U	5.8 U	5.9 U	5.4 U	7.5 U
Bromodichloromethane	1,300	2.9	-	-	-	-	-	-	5.3 U	5.8 U	5.9 U	5.4 U	7.5 U
Bromoform	86,000	19	-	-	-	-	-	-	5.3 U	5.8 U	5.9 U	5.4 U	7.5 U
Bromomethane	6,000	48	-	-	-	-	-	-	10.5 U	11.6 U	11.8 U	10.7 U	14.9 U
2-Butanone (MEK)	38,000,000	16,000	-	-	-	-	-	-	105 U	116 U	118 U	107 U	149 U
n-Butylbenzene	108,000	2,400	-	-	-	-	-	-	5.3 U	5.8 U	5.9 U	5.4 U	7.5 U
sec-Butylbenzene	145,000	2,200	-	-	-	-	-	-	5.3 U	5.8 U	5.9 U	5.4 U	7.5 U
tert-Butylbenzene	183,000	1,700	-	-	-	-	-	-	5.3 U	5.8 U	5.9 U	5.4 U	7.5 U
Carbon tetrachloride	2,900	2.1	-	-	-	-	-	-	5.3 U	5.8 U	5.9 U	5.4 U	7.5 U
Chlorobenzene	260,000	440	-	-	-	-	-	-	5.3 U	5.8 U	5.9 U	5.4 U	7.5 U
Chloroethane	2,120,000	16,000	-	-	-	-	-	-	10.5 U	11.6 U	11.8 U	10.7 U	14.9 U
Chloroform	1,400	340	-	-	-	-	-	-	5.3 U	5.8 U	5.9 U	5.4 U	7.5 U
Chloromethane	92,000	15	-	-	-	-	-	-	10.5 U	11.6 U	11.8 U	10.7 U	14.9 U
2-Chlorotoluene	907,000	1,200	-	-	-	-	-	-	5.3 U	5.8 U	5.9 U	5.4 U	7.5 U
4-Chlorotoluene	253,000	280	-	-	-	-	-	-	5.3 U	5.8 U	5.9 U	5.4 U	7.5 U
Dibromochloromethane	39,000	19	-	-	-	-	-	-	5.3 U	5.8 U	5.9 U	5.4 U	14.9 U
1,2-Dibromo-3-chloropropane	64	-	-	-	-	-	-	-	5.3 U	5.8 U	5.9 U	5.4 U	7.5 U
1,2-Dibromoethane (EDB)	160	0.097	-	-	-	-	-	-	5.3 U	5.8 U	5.9 U	5.4 U	7.5 U
Dibromomethane	19,800	310	-	-	-	-	-	-	5.3 U	5.8 U	5.9 U	5.4 U	7.5 U
1,2-Dichlorobenzene	376,000	240	-	-	-	-	-	-	5.3 U	5.8 U	5.9 U	5.4 U	7.5 U
1,3-Dichlorobenzene	-	-	-	-	-	-	-	-	5.3 U	5.8 U	5.9 U	5.4 U	7.5 U
1,4-Dichlorobenzene	11,000	70	-	-	-	-	-	-	5.3 U	5.8 U	5.9 U	5.4 U	7.5 U
Dichlorodifluoromethane	74,000	29,000	-	-	-	-	-	-	10.5 U	11.6 U	11.8 U	10.7 U	7.5 U
1,1-Dichloroethane	16,000	30	-	-	-	-	-	-	5.3 U	5.8 U	5.9 U	5.4 U	7.5 U
1,2-Dichloroethane	2,000	2	-	-	-	-	-	-	5.3 U	5.8 U	5.9 U	5.4 U	7.5 U
cis-1,2-Dichloroethene	460,000	360	-	-	-	-	-	-	5.3 U	5.8 U	5.9 U	5.4 U	7.5 U
trans-1,2-Dichloroethene	1,850,000	550	-	-	-	-	-	-	5.3 U	5.8 U	5.9 U	5.4 U	7.5 U
1,1-Dichloroethene	200,000	-	-	-	-	-	-	-	5.3 U	5.8 U	5.9 U	5.4 U	7.5 U
1,2-Dichloropropane	4,400	3.2	-	-	-	-	-	-	5.3 U	5.8 U	5.9 U	5.4 U	7.5 U
1,3-Dichloropropane	1,490,000	-	-	-	-	-	-	-	5.3 U	5.8 U	5.9 U	5.4 U	7.5 U
2,2-Dichloropropane	-	-	-	-	-	-	-	-	5.3 U	5.8 U	5.9 U	5.4 U	7.5 U
cis-1,3-Dichloropropene	-	-	-	-	-	-	-	-	5.3 U	5.8 U	5.9 U	5.4 U	7.5 U
trans-1,3-Dichloropropene	-	-	-	-	-	-	-	-	5.3 U	5.8 U	5.9 U	5.4 U	7.5 U
1,1-Dichloropropene	-	-	-	-	-	-	-	-	5.3 U	5.8 U	5.9 U	5.4 U	7.5 U
Diisopropyl ether	1,880,000	320	-	-	-	-	-	-	5.3 U	5.8 U	5.9 U	5.4 U	7.5 U
Ethylbenzene	25,000	8,100	-	-	-	-	-	-	5.3 U	5.8 U	5.9 U	5.4 U	7.5 U
Hexachloro-1,3-butadiene	5,300	8.7	-	-	-	-	-	-	5.3 U	5.8 U	5.9 U	5.4 U	7.5 U
2-Hexanone	260,000	170	-	-	-	-	-	-	52.6 U	57.8 U	59.2 U	53.7 U	74.5 U
Isopropylbenzene (Cumene)	268,000	1,300	-	-	-	-	-	-	5.3 U	5.8 U	5.9 U	5.4 U	7.5 U
p-Isopropyltoluene	-	-	-	-	-	-	-	-	5.3 U	5.8 U	5.9 U	5.4 U	7.5 U

Shaded values indicates result greater than I/C PSRG
Boxed values indicates results greater than GW PSRG

Table 2

Soil Analytical Results
Dixon Plant
MANN + HUMMEL Filtration Technology US LLC
Gastonia, North Carolina

		Plant:	Dixon Plant										
		Boring Location	SB-1			SB-2	SB-3		SB-4	SB-5		SB-6	SB-7
		Depth (ft-bgs):	6-8	8-10	8-10	10-12	15-17	15-17	33.5-35.5	15-17	15-17	51-53	31-33
		Sample Date:	10/15/12	10/15/12	10/15/2012 (b)	10/16/12	10/16/12	10/16/12 (b)	10/15/12	10/16/12	10/16/12 (b)	10/15/12	10/16/12
Parameters	**North Carolina PSRGs (c)**												
	I/C	**GW**											
Methylene Chloride	640,000	23	-	-	-	-	-	-	21 U	23.1 U	23.7 U	21.5 U	29.8 U
4-Methyl-2-pentanone (MIBK)	3,360,000	430	-	-	-	-	-	-	52.6 U	57.8 U	59.2 U	53.7 U	74.5 U
Methyl-tert-butyl ether	210,000	85	-	-	-	-	-	-	5.3 U	5.8 U	5.9 U	5.4 U	7.5 U
Naphthalene	17,000	210	-	-	-	-	-	-	5.3 U	5.8 U	5.9 U	5.4 U	7.5 U
n-Propylbenzene	264,000	1,500	-	-	-	-	-	-	5.3 U	5.8 U	5.9 U	5.4 U	7.5 U
Styrene	867,000	920	-	-	-	-	-	-	5.3 U	5.8 U	5.9 U	5.4 U	7.5 U
1,1,1,2-Tetrachloroethane	8,800	5.9	-	-	-	-	-	-	5.3 U	5.8 U	5.9 U	5.4 U	7.5 U
1,1,2,2-Tetrachloroethane	2,700	1.2	-	-	-	-	-	-	5.3 U	5.8 U	5.9 U	5.4 U	7.5 U
Tetrachloroethene	78,000	5	-	-	-	-	-	-	5.3 U	5.8 U	5.9 U	5.4 U	7.5 U
Toluene	818,000	5,500	-	-	-	-	-	-	5.3 U	5.8 U	5.9 U	5.4 U	7.5 U
1,2,3-Trichlorobenzene	186,000	-	-	-	-	-	-	-	5.3 U	5.8 U	5.9 U	5.4 U	7.5 U
1,2,4-Trichlorobenzene	52,000	2,200	-	-	-	-	-	-	5.3 U	5.8 U	5.9 U	5.4 U	7.5 U
1,1,1-Trichloroethane	640,000	1,200	-	-	-	-	-	-	5.3 U	5.8 U	5.9 U	5.4 U	7.5 U
1,1,2-Trichloroethane	1,260	3.2	-	-	-	-	-	-	5.3 U	5.8 U	5.9 U	5.4 U	7.5 U
Trichloroethene	3,800	18	-	-	-	-	-	-	5.3 U	5.8 U	5.9 U	5.4 U	7.5 U
Trichlorofluoromethane	1,230,000	24,000	-	-	-	-	-	-	5.3 U	5.8 U	5.9 U	5.4 U	7.5 U
1,2,3-Trichloropropane	110	0.032	-	-	-	-	-	-	5.3 U	5.8 U	5.9 U	5.4 U	7.5 U
1,2,4-Trimethylbenzene	48,000	6,700	-	-	-	-	-	-	5.3 U	5.8 U	5.9 U	5.4 U	7.5 U
1,3,5-Trimethylbenzene	182,000	6,700	-	-	-	-	-	-	5.3 U	5.8 U	5.9 U	5.4 U	7.5 U
Vinyl acetate	760,000	370	-	-	-	-	-	-	52.6 U	57.8 U	59.2 U	53.7 U	74.5 U
Vinyl chloride	1,700	0.19	-	-	-	-	-	-	10.5 U	11.6 U	11.8 U	10.7 U	14.9 U
m&p-Xylene	-	-	-	-	-	-	-	-	10.5 U	11.6 U	11.8 U	10.7 U	14.9 U
o-Xylene	434,000	-	-	-	-	-	-	-	5.3 U	5.8 U	5.9 U	5.4 U	7.5 U
Xylene (Total)	260,000	6,000	-	-	-	-	-	-	10.5 U	11.6 U	11.8 U	10.7 U	14.9 U
Polycylic Aromatic Hydrocarbons (µg/kg)													
Acenaphthene	9,000,000	8,400	-	-	-	-	-	-	426 U	387 U	385 U	380 U	394 U
Acenaphthylene	-	21,000	-	-	-	-	-	-	426 U	387 U	385 U	380 U	394 U
Anthracene	46,000,000	660,000	-	-	-	-	-	-	426 U	387 U	385 U	380 U	394 U
Benzo(a)anthracene	2,900	180	-	-	-	-	-	-	426 U	387 U	385 U	380 U	394 U
Benzo(a)pyrene	290	59	-	-	-	-	-	-	426 U	387 U	385 U	380 U	394 U
Benzo(b)fluoranthene	2,900	600	-	-	-	-	-	-	426 U	387 U	385 U	380 U	394 U
Benzo(g,h,i)perylene	-	7,800,000	-	-	-	-	-	-	426 U	387 U	385 U	380 U	394 U
Benzo(k)fluoranthene	29,000	5,900	-	-	-	-	-	-	426 U	387 U	385 U	380 U	394 U
Indeno(1,2,3-cd)pyrene	2,900	2,000	-	-	-	-	-	-	426 U	387 U	385 U	380 U	394 U
Chrysene	290,000	18,000	-	-	-	-	-	-	426 U	387 U	385 U	380 U	394 U
Dibenz(a,h)anthracene	290	190	-	-	-	-	-	-	426 U	387 U	385 U	380 U	394 U
Fluoranthene	6,000,000	330,000	-	-	-	-	-	-	426 U	387 U	385 U	380 U	394 U
Fluorene	6,000,000	56,000	-	-	-	-	-	-	426 U	387 U	385 U	380 U	394 U
1-Methylnaphthalene	73,000	55	-	-	-	-	-	-	426 U	387 U	385 U	380 U	394 U
2-Methylnaphthalene	600,000	1,600	-	-	-	-	-	-	426 U	387 U	385 U	380 U	394 U
Naphthalene	17,000	210	-	-	-	-	-	-	426 U	387 U	385 U	380 U	394 U
Phenanthrene	-	68,000	-	-	-	-	-	-	426 U	387 U	385 U	380 U	394 U
Pyrene	4,600,000	220,000	-	-	-	-	-	-	426 U	387 U	385 U	380 U	394 U

Shaded values indicates result greater than I/C PSRG
Boxed values indicates results greater than GW PSRG

Table 2

Soil Analytical Results
Dixon Plant
MANN + HUMMEL Filtration Technology US LLC
Gastonia, North Carolina

		Plant:	Dixon Plant										
		Boring Location	SB-1			SB-2	SB-3		SB-4	SB-5		SB-6	SB-7
		Depth (ft-bgs):	6-8	8-10	8-10	10-12	15-17	15-17	33.5-35.5	15-17	15-17	51-53	31-33
		Sample Date:	10/15/12	10/15/12	10/15/2012 (b)	10/16/12	10/16/12	10/16/12 (b)	10/15/12	10/16/12	10/16/12 (b)	10/15/12	10/16/12
Parameters	**North Carolina PSRGs (c)**												
	I/C	**GW**											
Total Petroleum													
Diesel Components	-	-	-	-	-	6.3 U	6.4 U	6.2 U	-	-	-	-	-
Gasoline Range Organics	-	-	-	-	-	6.9 U	8.6 U	8.2 U	-	-	-	-	-
Polychlorinated Biphenyls													
PCB-1016 (Aroclor 1016)	-	-	33.3 U	41 U	203 U	-	-	-	-	-	-	-	-
PCB-1221 (Aroclor 1221)	-	-	33.3 U	41 U	203 U	-	-	-	-	-	-	-	-
PCB-1232 (Aroclor 1232)	-	-	33.3 U	41 U	203 U	-	-	-	-	-	-	-	-
PCB-1242 (Aroclor 1242)	-	-	33.3 U	41 U	203 U	-	-	-	-	-	-	-	-
PCB-1248 (Aroclor 1248)	-	-	33.3 U	41 U	203 U	-	-	-	-	-	-	-	-
PCB-1254 (Aroclor 1254)	-	-	33.3 U	41 U	203 U	-	-	-	-	-	-	-	-
PCB-1260 (Aroclor 1260)	-	-	368	529	1,260	-	-	-	-	-	-	-	-
PCBs, Total	-	140	368	529	1,260	-	-	-	-	-	-	-	-
Metals (mg/kg)													
Arsenic	3	5.8	-	-	-	-	-	-	1.7	2.3	2.5	2.8	1.9
Barium	44,000	580	-	-	-	-	-	-	47.2	139	175	154	220
Cadmium	196	3	-	-	-	-	-	-	0.12 U	1.2	0.6	0.61	0.8
Chromium	-	-	-	-	-	-	-	-	1.4	6.2	3.9	5.3	6.4
Lead	800	270	-	-	-	-	-	-	9.7	16	18.1	6.2	5.9
Selenium	1,160	2.1	-	-	-	-	-	-	1.6	3.8	2.8	2.9	1.1 U
Silver	1,160	3.4	-	-	-	-	-	-	0.61 U	0.52 U	0.54 U	0.5 U	0.57 U
Mercury	3.13	1	-	-	-	-	-	-	0.0059 U	0.021	0.02	0.0039 U	0.0046 U

a/ ft-bgs = feet below ground surface; PSRG = Prelininary Soil Remediation Goal; I/C = industrial/commercial; GW = groundwater;
µg/kg = micrograms per kilogram; mg/kg = milligrams per kilogram; "-" indicates criterion not developed or analysis not performed.
b/ Sample and duplicate.
c/ Inactive Hazardous Sites Branch. 2016.PSRG Table. I/C health-based and protection of GW. April.
d/ Data Qualifiers:
U = Not detected. The associated number indicates approximate sample concentration necessary to be detected.

Shaded values indicates result greater than I/C PSRG
Boxed values indicates results greater than GW PSRG

Table 3

Groundwater Analytical Results
Dixon Plant
MANN + HUMMEL Filtration Technology US LLC
Gastonia, North Carolina (a)

	Plant:	Dixon				
	Monitoring Well:	MW-1		MW-2	MW-3	MW-4
	Sample Date:	10/18/12	10/18/12 (b)	10/18/12 (c)	10/18/12	10/18/12
Parameters	**North Carolina GW Standard (d)**					
Volatile Organic Compounds (µg/l)						
Acetone	6,000	25 U(f)	25 U	-	25 U	25 U
Benzene	1	1 U	1 U	-	1 U	1 U
Bromobenzene	-	1 U	1 U	-	1 U	1 U
Bromochloromethane	-	1 U	1 U	-	1 U	1 U
Bromodichloromethane	0.6	1 U	1 U	-	1 U	1 U
Bromoform	4	1 U	1 U	-	1 U	1 U
Bromomethane	-	2 U	2 U	-	2 U	2 U
2-Butanone (MEK)	4,000	5 U	5 U	-	5 U	5 U
Carbon tetrachloride	0.3	1 U	1 U	-	1 U	1 U
Chlorobenzene	50	1 U	1 U	-	1 U	1 U
Chloroethane	3,000	1 U	1 U	-	1 U	1 U
Chloroform	70	1 U	1 U	-	1 U	1 U
Chloromethane	3	1 U	1 U	-	1 U	1 U
2-Chlorotoluene	100	1 U	1 U	-	1 U	1 U
4-Chlorotoluene	24 (e)	1 U	1 U	-	1 U	1 U
Dibromochloromethane	0.4	1 U	1 U	-	1 U	1 U
1,2-Dibromo-3-chloropropane	0.04	5 U	5 U	-	5 U	5 U
1,2-Dibromoethane (EDB)	0.02	1 U	1 U	-	1 U	1 U
Dibromomethane	70 (e)	1 U	1 U	-	1 U	1 U
1,2-Dichlorobenzene	20	1 U	1 U	-	1 U	1 U
1,3-Dichlorobenzene	200	1 U	1 U	-	1 U	1 U
1,4-Dichlorobenzene	6	1 U	1 U	-	1 U	1 U
Dichlorodifluoromethane	1,000	1 U	1 U	-	1 U	1 U
1,1-Dichloroethane	6	1 U	1 U	-	1 U	1 U
1,2-Dichloroethane	0.4	1 U	1 U	-	1 U	1 U
1,1-Dichloroethene	3,501	1 U	1 U	-	1 U	1 U
cis-1,2-Dichloroethene	70	1 U	1 U	-	1 U	1 U
trans-1,2-Dichloroethene	100	1 U	1 U	-	1 U	1 U
1,2-Dichloropropane	0.6	1 U	1 U	-	1 U	1 U
1,3-Dichloropropane	-	1 U	1 U	-	1 U	1 U
2,2-Dichloropropane	-	1 U	1 U	-	1 U	1 U
1,1-Dichloropropene	-	1 U	1 U	-	1 U	1 U
cis-1,3-Dichloropropene	0.4	1 U	1 U	-	1 U	1 U
trans-1,3-Dichloropropene	0.4	1 U	1 U	-	1 U	1 U
Diisopropyl ether	-	1 U	1 U	-	1 U	1 U
Ethylbenzene	600	1 U	1 U	-	1 U	1 U
Hexachloro-1,3-butadiene	0.4	1 U	1 U	-	1 U	1 U
2-Hexanone	40 (e)	5 U	5 U	-	5 U	5 U
p-Isopropyltoluene	25 (e)	1 U	1 U	-	1 U	1 U
Methylene Chloride	5	2 U	2 U	-	2 U	2 U
4-Methyl-2-pentanone (MIBK)	100 (e)	5 U	5 U	-	5 U	5 U
Methyl-tert-butyl ether	20	1 U	1 U	-	1 U	1 U
Naphthalene	6	1 U	1 U	-	1 U	1 U
Styrene	70	1 U	1 U	-	1 U	1 U
1,1,1,2-Tetrachloroethane	1 (e)	1 U	1 U	-	1 U	1 U
1,1,2,2-Tetrachloroethane	0.2	1 U	1 U	-	1 U	1 U
Tetrachloroethene	0.7	1 U	1 U	-	1 U	1 U
Toluene	600	1 U	1 U	-	1 U	1 U
1,2,3-Trichlorobenzene	-	1 U	1 U	-	1 U	1 U
1,2,4-Trichlorobenzene	70	1 U	1 U	-	1 U	1 U
1,1,1-Trichloroethane	200	1 U	1 U	-	1 U	1 U
1,1,2-Trichloroethane	0.6 (e)	1 U	1 U	-	1 U	1 U
Trichloroethene	3	1 U	1 U	-	1 U	1 U
Trichlorofluoromethane	2,000	1 U	1 U	-	1 U	1 U
1,2,3-Trichloropropane	0.005	1 U	1 U	-	1 U	1 U
Vinyl acetate	-	2 U	2 U	-	2 U	2 U
Vinyl chloride	0.03	1 U	1 U	-	1 U	1 U
m&p-Xylene	-	2 U	2 U	-	2 U	2 U
o-Xylene	-	1 U	1 U	-	1 U	1 U
Xylene (Total)	500	2 U	2 U	-	2 U	2 U

Shaded values indicates result greater than standard

Table 3

Groundwater Analytical Results
Dixon Plant
MANN + HUMMEL Filtration Technology US LLC
Gastonia, North Carolina

	Plant:	Dixon				
	Monitoring Well:	MW-1		MW-2	MW-3	MW-4
	Sample Date:	10/18/12	10/18/12 (b)	10/18/12 (c)	10/18/12	10/18/12
Parameters	**North Carolina GW Standard (d)**					
Polycyclic Aromatic Hydrocarbons (µg/l)						
Acenaphthene	80	10 U	10 U	-	10 U	10 U
Acenaphthylene	200	10 U	10 U	-	10 U	10 U
Anthracene	2,000	10 U	10 U	-	10 U	10 U
Benzo(a)anthracene	0.05	10 U	10 U	-	10 U	10 U
Benzo(a)pyrene	0.005	10 U	10 U	-	10 U	10 U
Benzo(b)fluoranthene	0.05	10 U	10 U	-	10 U	10 U
Benzo(g,h,i)perylene	200	10 U	10 U	-	10 U	10 U
Benzo(k)fluoranthene	0.5	10 U	10 U	-	10 U	10 U
Chrysene	5	10 U	10 U	-	10 U	10 U
Dibenz(a,h)anthracene	0.005	10 U	10 U	-	10 U	10 U
Fluoranthene	300	10 U	10 U	-	10 U	10 U
Fluorene	300	10 U	10 U	-	10 U	10 U
Indeno(1,2,3-cd)pyrene	0.05	10 U	10 U	-	10 U	10 U
1-Methylnaphthalene	-	10 U	10 U	-	10 U	10 U
2-Methylnaphthalene	30	10 U	10 U	-	10 U	10 U
Naphthalene	6	10 U	10 U	-	10 U	10 U
Phenanthrene	200	10 U	10 U	-	10 U	10 U
Pyrene	200	10 U	10 U	-	10 U	10 U
Dissolved Metals (µg/l)						
Arsenic	10	5 U	5 U	-	5 U	5 U
Barium	700	85.9	85.3	-	51.5	70.3
Cadmium	2	1 U	1 U	-	1 U	1 U
Chromium	10	5 U	5 U	-	5 U	5 U
Lead	15	5 U	5 U	-	5 U	5 U
Selenium	20	10 U	10 U	-	10 U	10 U
Silver	20	5 U	5 U	-	5 U	5 U
Mercury	1	0.2 U	0.2 U	-	0.2 U	0.2 U

a/ GW = groundwater; µg/l = micrograms per liter; "-" indicates criterion not developed or analysis not performed, ">" = greater than.
b/ Duplicate sample MW-100.
c/ Insufficient groundwater accumulated within the well at the time of sample collection; no groundwater sample collected.
d/ North Carolina Groundwater Standard, 15A NCAC 2L.0202. April 1, 2013.
e/ North Carolina Intermim Maximum Allowable Concentations (IMACs). Accessed April 20, 2016.
f/ Data Qualifiers:
U = Not detected. The associated number indicates approximate sample concentration necessary to be detected.

Shaded values indicates result greater than standard

Appendix A – Information for Planning and Conservation Trust Resource Report

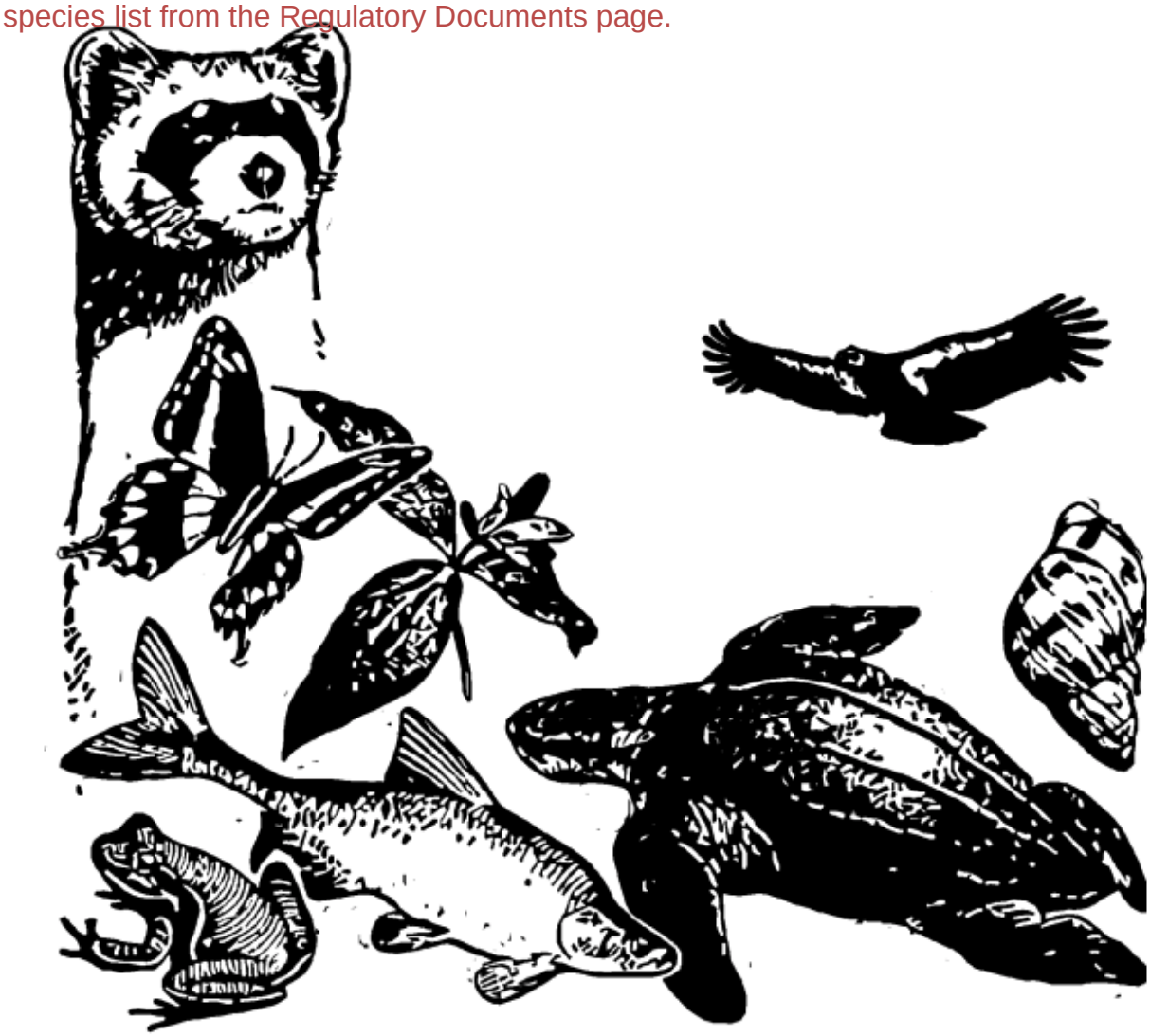
U.S. Fish & Wildlife Service

Wix Filtration Corporation, Dixon Plant – Inactive Hazardous Sites Program, Property Evaluation

IPaC Trust Resource Report

Generated February 08, 2016 08:54 AM MST, IPaC v2.3.2

This report is for informational purposes only and should not be used for planning or analyzing project level impacts. For project reviews that require U.S. Fish & Wildlife Service review or concurrence, please return to the IPaC website and request an official species list from the Regulatory Documents page.



IPaC - Information for Planning and Conservation (http://ecos.fws.gov/ipac/): A project planning tool to help streamline the U.S. Fish & Wildlife Service environmental review process.

US Fish & Wildlife Service

IPaC Trust Resource Report

NAME

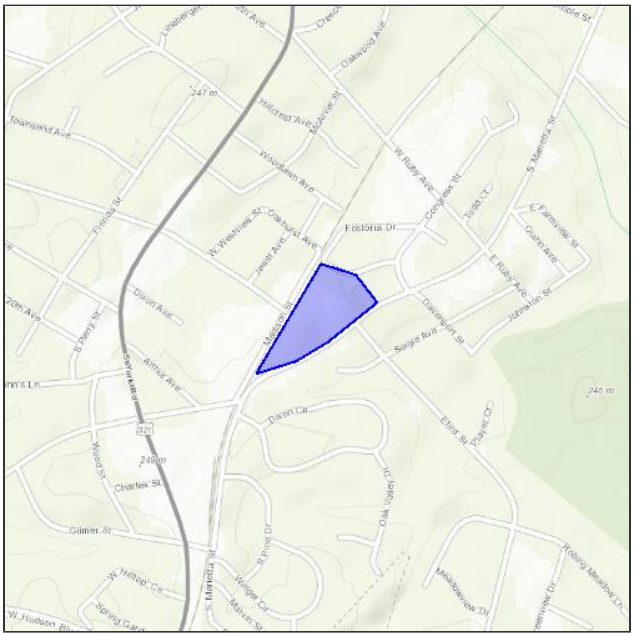
Wix Filtration Corporation, Dixon Plant – Inactive Hazardous Sites Program, Property Evaluation

LOCATION

Gaston County, North Carolina

IPAC LINK

http://ecos.fws.gov/ipac/project/PWAKE-7ZCAJ-AKZCG-6UXWY-COW67M



U.S. Fish & Wildlife Contact Information

Trust resources in this location are managed by:

Asheville Ecological Services Field Office
160 Zillicoa Street
Asheville, NC 28801-1082
(828) 258-3939

Endangered Species

Proposed, candidate, threatened, and endangered species are managed by the Endangered Species Program of the U.S. Fish & Wildlife Service.

This USFWS trust resource report is for informational purposes only and should not be used for planning or analyzing project level impacts.

For project evaluations that require FWS concurrence/review, please return to the IPaC website and request an official species list from the Regulatory Documents section.

Section 7 of the Endangered Species Act **requires** Federal agencies to "request of the Secretary information whether any species which is listed or proposed to be listed may be present in the area of such proposed action" for any project that is conducted, permitted, funded, or licensed by any Federal agency.

A letter from the local office and a species list which fulfills this requirement can only be obtained by requesting an official species list from the Regulatory Documents section in IPaC.

The list of species below are those that may occur or could potentially be affected by activities in this location:

Flowering Plants

Schweinitz's Sunflower Helianthus schweinitzii — Endangered

CRITICAL HABITAT
No critical habitat has been designated for this species.

https://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=Q2B7

Mammals

Northern Long-eared Bat Myotis septentrionalis — Threatened

CRITICAL HABITAT
No critical habitat has been designated for this species.

https://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=A0JE

Critical Habitats

There are no critical habitats in this location

Migratory Birds

Birds are protected by the Migratory Bird Treaty Act and the Bald and Golden Eagle Protection Act.

Any activity which results in the take of migratory birds or eagles is prohibited unless authorized by the U.S. Fish and Wildlife Service (1). There are no provisions for allowing the take of migratory birds that are unintentionally killed or injured.

Any person or organization who plans or conducts activities that may result in the take of migratory birds is responsible for complying with the appropriate regulations and implementing appropriate conservation measures.

Additional information can be found using the following links:

- Birds of Conservation Concern
  http://www.fws.gov/birds/management/managed-species/birds-of-conservation-concern.php
- Conservation measures for birds
  http://www.fws.gov/birds/management/project-assessment-tools-and-guidance/conservation-measures.php
- Year-round bird occurrence data
  http://www.fws.gov/birds/management/project-assessment-tools-and-guidance/akn-histogram-tools.php

The following species of migratory birds could potentially be affected by activities in this location:

American Bittern Botaurus lentiginosus — Bird of conservation concern
Season: Wintering
https://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=B0F3

Bald Eagle Haliaeetus leucocephalus — Bird of conservation concern
Year-round
https://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=B008

Blue-winged Warbler Vermivora pinus — Bird of conservation concern
Season: Breeding

Brown-headed Nuthatch Sitta pusilla — Bird of conservation concern
Year-round

Chuck-will's-widow Caprimulgus carolinensis — Bird of conservation concern
Season: Breeding

Fox Sparrow Passerella iliaca — Bird of conservation concern
Season: Wintering

Kentucky Warbler Oporornis formosus — Bird of conservation concern
Season: Breeding

Least Bittern Ixobrychus exilis — Bird of conservation concern
Season: Breeding

Loggerhead Shrike Lanius ludovicianus — Bird of conservation concern

Year-round

https://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=B0FY

Prairie Warbler Dendroica discolor — Bird of conservation concern

Season: Breeding

Prothonotary Warbler Protonotaria citrea — Bird of conservation concern

Season: Breeding

Red-headed Woodpecker Melanerpes erythrocephalus — Bird of conservation concern

Year-round

Rusty Blackbird Euphagus carolinus — Bird of conservation concern

Season: Wintering

Short-eared Owl Asio flammeus — Bird of conservation concern

Season: Wintering

https://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=B0HD

Wood Thrush Hylocichla mustelina — Bird of conservation concern

Season: Breeding

Worm Eating Warbler Helmitheros vermivorum — Bird of conservation concern

Season: Breeding

Refuges

Any activity proposed on National Wildlife Refuge lands must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

There are no refuges in this location

Wetlands in the National Wetlands Inventory

Impacts to NWI wetlands and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal Statutes.

For more information please contact the Regulatory Program of the local U.S. Army Corps of Engineers District.

DATA LIMITATIONS

The Service's objective of mapping wetlands and deepwater habitats is to produce reconnaissance level information on the location, type and size of these resources. The maps are prepared from the analysis of high altitude imagery. Wetlands are identified based on vegetation, visible hydrology and geography. A margin of error is inherent in the use of imagery; thus, detailed on-the-ground inspection of any particular site may result in revision of the wetland boundaries or classification established through image analysis.

The accuracy of image interpretation depends on the quality of the imagery, the experience of the image analysts, the amount and quality of the collateral data and the amount of ground truth verification work conducted. Metadata should be consulted to determine the date of the source imagery used and any mapping problems.

Wetlands or other mapped features may have changed since the date of the imagery or field work. There may be occasional differences in polygon boundaries or classifications between the information depicted on the map and the actual conditions on site.

DATA EXCLUSIONS

Certain wetland habitats are excluded from the National mapping program because of the limitations of aerial imagery as the primary data source used to detect wetlands. These habitats include seagrasses or submerged aquatic vegetation that are found in the intertidal and subtidal zones of estuaries and nearshore coastal waters. Some deepwater reef communities (coral or tuberficid worm reefs) have also been excluded from the inventory. These habitats, because of their depth, go undetected by aerial imagery.

DATA PRECAUTIONS

Federal, state, and local regulatory agencies with jurisdiction over wetlands may define and describe wetlands in a different manner than that used in this inventory. There is no attempt, in either the design or products of this inventory, to define the limits of proprietary jurisdiction of any Federal, state, or local government or to establish the geographical scope of the regulatory programs of government agencies. Persons intending to engage in activities involving modifications within or adjacent to wetland areas should seek the advice of appropriate federal, state, or local agencies concerning specified agency regulatory programs and proprietary jurisdictions that may affect such activities.

There are no wetlands in this location

Appendix B – Historical Site Information

Wix Filtration
1525 S. Marietta Street
Gastonia, NC 28054

Inquiry Number: 3358208.6
July 06, 2012

The EDR-City Directory Image Report

Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
800.352.0050
www.edrnet.com

TABLE OF CONTENTS

SECTION

Executive Summary

Findings

City Directory Images

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. **NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OR DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT.** Purchaser accepts this Report "AS IS". Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction orforecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

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EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Report is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Report includes a search of available city directory data at 5 year intervals.

RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. A check mark indicates where information was identified in the source and provided in this report.

Year	Target Street	Cross Street	Source
2012	☑	☐	Polk's City Directory
2006	☑	☐	Polk's City Directory
2001	☑	☐	Polk's City Directory
1995	☑	☐	Polk's City Directory
1989	☑	☐	Polk's City Directory
1977	☑	☐	Hill's City Directory
1971	☑	☐	Hill's City Directory
1964	☑	☐	Hill's City Directory

RECORD SOURCES

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FINDINGS

TARGET PROPERTY STREET

1525 S. Marietta Street
Gastonia, NC 28054

Year	***CD Image***	***Source***
S Marietta St		
2012	pg A1	Polk's City Directory
2006	pg A2	Polk's City Directory
2001	pg A3	Polk's City Directory
1995	pg A4	Polk's City Directory
1989	pg A5	Polk's City Directory
1989	pg A6	Polk's City Directory
1977	pg A7	Hill's City Directory
1977	pg A8	Hill's City Directory
1971	pg A9	Hill's City Directory
1964	pg A10	Hill's City Directory
1964	pg A11	Hill's City Directory

FINDINGS

CROSS STREETS

No Cross Streets Identified

City Directory Images

Target Street	Cross Street	Source
✓	-	Polk's City Directory

S Marietta St 2012

1247 No Current Listing
1406 Curry Marichel J [2]
1409 No Current Listing
1410 Jackson Elisa W [11]
Ⓝ Macclure Robin ✓
.....704-865-9218
B Brandon Mary C ✓ [17]
B Brandon Cathy
1411 Friday Faye [3]
1413 Carson Salomi M ✓ [5] ⏏ (1920)
1418 GASTON GARAGE DOOR INC
doors ✓ 704-864-5409
1419 JACOB'S FUEL MART
convenience stores ✓@
.....704-867-4567
1425 Baradaran Bahran [5]
JACOB'S FOOD MART serv
stations- gasoline & oil ✓@
.....704-867-5041
• ZIP CODE 28054 CAR-RT C040
1500 Davidson Maryln O ✓ [3]
Sisk Robert G ✓ [37] ⏏ (1946)
.....704-865-6690
Sisk Ruby N 704-865-6690
1513 Conner Nita [12] ⏏ (1900)
1516 Burch Gary M ✓ [15] ⏏ (1950)
.....704-810-6549
Burch Gm 704-810-6549
1518 Burch Timothy F ✓ [19] ⏏ (1975)
1519 RELIABLE CARPET CLEANING
carpet & rug cleaners ✓@
.....704-861-1127
1520 Burch Ruby Q ✓ [29] ⏏ (1930)
.....704-865-5789
1522 Ⓝ Cooper Sherri ✓@ ⏏ (1946)
Cooper Jordan A
1524 Ⓝ Horton Victoria L ✓
1526 Hudson Jeannette M ✓ [39] ⏏ (1930)
.....704-864-4780
Hudson Lila J 704-864-4780
1606 No Current Listing
1608 Ⓝ Welch Kelly E ✓
1620 No Current Listing
1622 Walker Melissa C & Lester W ✓@
[17] ⏏ (1946) 704-866-7386

Target Street	Cross Street	Source
✓	-	Polk's City Directory

S Marietta St 2006

1247 Phillips Paul G [6] 704-869-9980
1406 Ⓝ Evans Eian
Kennedy Sharon [2]
Kennedy Lisa
1409 Ⓝ Smith Colin E ▲
1410 Brandon Mary C [11]
Brandon Cathy
1411 No Current Listing
1413 Ⓝ Shaw Sueann
1418 GASTON GARAGE DOOR INC
doors-garage 704-864-5409
1419 JACOB'S FUEL MART
convenience stores ..704-867-4567
1420 LIVING WORD TABERNACLE
churches 704-864-1800
1425 JACOB'S FOOD MART grocers-
retail 704-867-5041
1428 Yeboah John A [7] ▲
.....704-691-2536
Yeboah Doris 704-691-2536
1500 Sisk Ruby N [31] ▲ 704-865-6690
1513 Mauney Wayne M [14] ▲
.....704-865-1145
1516 Burch Gary M [9] 704-810-6549
1518 No Current Listing
1519 BANNER FINANCIAL SVC financial
advisory serv 704-868-3460
1520 Burch Ruby Q [23] ▲
.....704-865-5789
1522 Ⓝ Goodson Christina
1524 Ⓝ Johnson Sherry ..704-691-2129
1526 Hudson Jeannette M [33] ▲
.....704-864-4780
Hudson Lila J 704-864-4789
1606 Honor Teena [4] 704-865-8066
1608 Wilson George D Jr [2]
1620 Ⓝ Burris Johnny B
1622 Walker Leslie [11] ▲ ..704-866-7386
Walker Melissa C 704-866-7386
• ZIP CODE 28054 CAR-RT C040
2000 Ⓝ Harris Jeff

Target Street	Cross Street	Source
✓	-	Polk's City Directory

S Marietta St 2001

+ ***E FARMVIEW ST BEGINS***
+ ***QUINN AVE BEGINS***
1308 A & W AUTO & BODY REPAIR auto repr shops..... 853-3449
LEONS AUTO SALES autos new used 865-5255
. **ZIP CODE 28054 CAR-RT C040**
1404 ANGIES SPAGHETTI HOUSE eating places 864-0302
+ ***W RUBY AVE BEGINS***
+ ***E RUBY AVE BEGINS***
1406 Locke Laura J [3]
1409 Shubert Lanny G Jr [9]+ ☗... 861-8904
1410-1411 Not Verified (2 Hses)
1413 Perry Tammy L [9]+ ☗..... 867-5913
1418 COVENANT BUILDING SERVICES bldg mtce serv 862-0816
1420 LIVING WORD TABERNACLE ch temples shrines..... 864-1800
1425 JACOBS FOOD MART gro store 867-5041
1428 Forney Jewel C [4]..... 810-0747
Ⓝ Yeboah John A
+ ***CONGRESS ST ENDS***
+ ***DAVENPORT ST BEGINS***
1500 Sisk Robert G [9]+ ☗..... 865-6690
Sisk Ruby N 865-6690
1504-1508 Not Verified (3 Hses)
1510 Day Ronnie K [5]..... 867-2135
1513 Conner Carrie [9]+ ☗
S Mauney Wayne M [7]..... 865-1145
1514 J AND J APPLIANCES..... 861-0188
1516 Ⓝ Burch G M..... 853-1923
1518 Taylor Mary B [9]+ ☗
1519 ELECTRICAL CONTRACTING SERVICES electrical contr 864-0008
1520 Burch Ruby Q [9]+ ☗..... 865-5789
+ ***EFIRD ST BEGINS***
1522 Not Verified
1524 Womack John F [6]..... 865-9263
1526 Hudson Lila J [9]+ ☗..... 864-4780
1620 Cape Margaret R [9]+ ☗
Cape Ruth W
1622 Walker Lester W [5]

Target Street	Cross Street	Source
✓	-	Polk's City Directory

S Marietta St 1995

S MARIETTA ST cont'd

1502 J & J USED APPLIANCE WAREHOUSE
1504 Duncan Dennis [4]
1505★ Perry Jimmy ◎..... 866-9121
1508 Duncan John R [4]..... 868-4386
1510 FREEWILL CHURCH OF GOD
1513 Vacant
1514 J & J USED APPLIANCE..... 861-8683
1515 Welch [2]
1516 Not Verified
1518 Taylor John H & Mary B [9]+..... 865-1311
1519 CRESCENT METAL STRUCTURES INC
contr bldg-genl..... 866-9829
1520 Burch Ruby O [6] ◎..... 865-5789
• ***EFIRD ST INTERSECTS***
1522 Dunn Randall & Sherry [2]
• ***PINE ST INTERSECTS***
1524 Sparks William F & Karen B [2]
1526 Hudson Jennette L [9]+ ◎..... 864-4780
1601 WIX CORP (DIXON AIR FILTER PLANT)
..... 864-6711
1606★ Garland Jessie R
1608 Pitts Robert & Mary F [2]..... 867-9403
Pitts Kevin [2]..... 867-9403
1620 Cape Margaret R [9]+ ◎..... 867-7561
Yancey Patel A [2]..... 867-7561
1622★ Henderson Jeff D & Deborah W.... 854-3199
1624 Vacant
1626 Not Verified
• ***DIXON CIR INTERSECTS***
• ***CLYDE ST INTERSECTS***
BUSINESSES 46 HOUSEHOLDS 91

Target Street	Cross Street	Source
✓	-	Polk's City Directory

S Marietta St 1989

864-6512
FARMVIEW AV BEGINS
QUINN AV BEGINS
1306 Rainbow Motors used auto sls 866-4640
1308 Premier Grafics
1404 Angie's Spaghetti House restr 864-0302
RUBY AV BEGINS
1406a★Randolf Scott
1406b★Silvers James M 867-0290
1409 Trimnal French T ◎ 864-3374
1410a Grassano Maria A 867-5291
1410b Walsh Omma H 865-4491
1411★Biddix Jackie 861-1416

Target Street	Cross Street	Source
✓	-	Polk's City Directory

S Marietta St 1989

1413 Vacant
1419 Love Timothy
1420 Salem Baptist Church 864-4953
1421 Purser Wayne E ◎ 867-9837
1423 Vacant
1425 Jacobs Food Mart 867-5041
TODD INTERSECTS
1428 Boughman Sharon N ◎ 865-8045
DAVENPORT INTERSECTS
1500 Sisk R S 865-6690
1501 Burgin's T V & Appliance 866-8151
1502 Gospel Independent Baptist Church
1504 No Return
1505★Hyde Sharon
1508 Tarleton Ruth M
1510 Vacant
1513 Conner Joe M ◎ 865-1145
1514 C H Textile sell new & used tex pts mach 861-1973
1515 Welch Grady E Rev ◎ 867-6595
1516 Queen Eliz H ◎ 864-2020
1518 Taylor John H ◎
1519 Vacant
Crescent Metal Structures Inc contr bldg-genl 866-9822
1520★Burch Jack 865-5789
EFIRD BEGINS
1522 Cline Geo R ◎ 865-1501
PINE BEGINS
1524 Baucom Ardenia T Mrs 865-8278
1526 Hudson Lila J ◎
1601 Wix Corp (Dixon Air Filter Plant) 864-6711
1606 Ewing Michl ◎ 867-3082
1608 Sawyer Buddy 867-9506
1620 Cape James T ◎ 867-7561
1622 No Return
1624★Phillips Tony L ◎
1626★Jenkins Randy D
DIXON CIR INTERSECTS

Target Street	Cross Street	Source
✓	-	Hill's City Directory

S Marietta St 1977

RUBY AV BEGINS
1406a★Grier John
1406b Lane Mary
1409 Trimnal French T ◎ 864-3374
1410 Hornsby Paul E 865-6572
1411 Vacant
1413 Johnson Andy N ◎ 865-5075
1417 Vacant
1419 Gibson Larry
1420 Salem Bapt Ch (Sunday Sch Rms)
1421 Purser Wayne E ◎ 867-9837
1423 Pendleton Fred J
1426 Salem Baptist Church 864-4953
TODD INTERSECTS
1428 Boughman Agnes N Mrs ◎ 865-8045
DAVENPORT INTERSECTS
1501 Jacobs' Food Mart 867-5041
1502 Self Bonnie M Mrs ◎ 864-6083
1504★Matheson J B
1505★Perry Ila W Mrs 865-3658
1508 Self Bryson
1510 Self James S
1513 Conner Joe M ◎ 865-1145
1514 Lighthouse Tabernacle
1515 Welch Grady E ◎ 867-6595
1516 Queen Eliz A ◎ 864-2020
1518 Taylor Watch Repair 865-1311
Taylor John H ◎ 865-1311
1519 Marietta Street Body Service
1520 Quinn Stead C ◎ 865-5789

Target Street	Cross Street	Source
✓	-	Hill's City Directory

S Marietta St 1977

EFIRD BEGINS
1522 Cline Geo R ◎ 865-1501
PINE BEGINS
1524 Baucom Ardenia T Mrs 865-8278
1526 Hudson Jack C 864-7340
1601 Wix Corp (Eng Dept) 864-7716
1608★Wilson Bobby H
1620 England Luther F ◎ 864-2476
1622 Costner Jay A ◎ 865-3981
1624★Hannah Edw 867-0960
DIXON CIR INTERSECTS

16

MARIETTA ST EXTD S —FROM CITY

Target Street	Cross Street	Source
✓	-	Hill's City Directory

S Marietta St 1971

S MARIETTA ST—Contd
QUINN AV BEGINS
1312 Textile Laboratories The 865-2791
1404 Rainbow Grocery 867-9420
RUBY AV BEGINS
1406 Clinton Ellen B Mrs
1409 Trimnal Franc T ◎ 864-3374
1410 Hornsby Paul E
1411 Meeks Gene
1413 Johnson Andy N ◎ 865-5075
1417 Poindexter Louise S Mrs
1419 Cape James T
1420 Salem Bapt Ch (Sunday Sch Rms)
1421 Purser Wayne E ◎ 867-9837
1423 Pendleton Fred J
Pendleton Dorothy
1425 Adair Thos W
1426 Salem Baptist Church 864-4953
TODD INTERSECTS
1428 Boughman Ralph A ◎ 865-8045
DAVENPORT INTERSECTS
1500 No Return
1501 Marietta Superette 864-9163
Baucom Hiram W Jr
1502 Self Bonnie M Mrs ◎
Self Lee L
1505 No Return
1508 Self Bryson
1510 Self James S
1513 Connor Joe M ◎ 865-1145
1514 Lee's Produce Stand prod & gro ret
1515 Welch Grady ◎
1516 Queen Eliz A ◎ 864-2020
1517 Smith Hocum C
1518 Taylor John H ◎ 865-1311
1519 Beaver's Citgo Service Station 865-3081
1520 Quinn Stead C ◎ 865-5789
EFIRD BEGINS
1522 Cline Geo R ◎ 865-1501
PINE BEGINS
1524 Baucom H V Mrs 865-8278
1526 Lockey Wm G ◎ 865-3035
1601 Wix Corp
1508 Santel I Danl 864-5038
1620 England Luther F ◎ 864-2476
1622 Costner Wm B ◎ UN5-0021
1624 Smith Barbara
1626 Bolch Wm
DIXON CIR INTERSECTS

16

MARIETTA ST EXTD S —FROM CITY LIMIT SOUTH, A CONTINUATION OF S MARIETTA ST

Target Street	Cross Street	Source
✓	-	Hill's City Directory

S Marietta St 1964

1247 Franklin Raymond L ◎ 865-55
Farmview av begins
Quinn av begins
1305 Vacant
1312 Tex Laboratories The 865-279
1404 Rainbow Gro 867-7954
E Ruby av begins
W Ruby av begins
1406 Clinton Ellen B Mrs
1406½ Lane Mary J 864-3853
1409 Trimnal French P ◎ 865-2598
1410 Cox Ernest E
1410½ Weaver Gertrude Mrs
1411 Biddix Jack L ◎
1413 Johnson Andy N ◎ 865-5075
1418 Salem Bapt Church
1417 Self James W
1419 Burch Jack A
1421 Purser Wayne E ◎ 865-5200
1423 Denny David
1425 Mize Dora B Mrs 867-6704
1427 Vacant
Todd intersects
1428 Boughman Ralph A ◎ 865-8045
Davenport intersects
1500 Sisk Ruby N Mrs ◎
rear R & Y Beauty Shop
1501 Perry's Serv Sta gas 867-9275
1502 Self J Lester ◎
rear Self Marvin S
1502½ Miller Craig
rear Self Lee L
1513 Conner Joe M ◎ 865-1145
1514 Self's Prod Stand
1515 Welch Grady E ◎ 867-6595
1516 Queen Eliz A ◎ 864-2020
1517 Smith Eug
1518 Price Dock J ◎ 865-0032
1519 Smith's Cities Serv gas sta 867-9265
1520 Quinn Stead C ◎ 865-5789
Efird ends
1522 Cline Geo R ◎ 865-1501
Pine begins

Target Street	Cross Street	Source
✓	-	Hill's City Directory

S Marietta St 1964

MARIETTA S--Contd

1524 Poplin Luther O ◎ 865-0535
1526 Lockey Wm G ◎ 865-3035
1601 United States Rubber Co
(Lastex Plant) 864-4326
1606 Queen Richd E ◎ 864-1827
1608 Jenkins Dorcus H
1620 England Luther F ◎ 864-2476
1622 Costner Wm B ◎ 865-0021
1624 Yoder Roy O ◎ 865-4772
1626 Bolch Wm O ◎ 865-8306
Dixon cir intersects

Wix Filtration
1525 S. Marietta Street
Gastonia, NC 28054

Inquiry Number: 3358208.5
July 05, 2012

The EDR Aerial Photo Decade Package

EDR® Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
800.352.0050
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Date EDR Searched Historical Sources:

Aerial Photography July 05, 2012

Target Property:

1525 S. Marietta Street

Gastonia, NC 28054

Year	***Scale***	***Details***	***Source***
1961	Aerial Photograph. Scale: 1"=1000'	Panel #: 35081-B2, Gastonia South, NC;/Flight Date: August 16, 1961	EDR
1969	Aerial Photograph. Scale: 1"=750'	Panel #: 35081-B2, Gastonia South, NC;/Flight Date: March 17, 1969	EDR
1971	Aerial Photograph. Scale: 1"=500'	Panel #: 35081-B2, Gastonia South, NC;/Flight Date: March 11, 1971	EDR
1973	Aerial Photograph. Scale: 1"=750'	Panel #: 35081-B2, Gastonia South, NC;/Flight Date: March 21, 1973	EDR
1984	Aerial Photograph. Scale: 1"=1000'	Panel #: 35081-B2, Gastonia South, NC;/Flight Date: February 02, 1984	EDR
1989	Aerial Photograph. Scale: 1"=750'	Panel #: 35081-B2, Gastonia South, NC;/Flight Date: March 11, 1989	EDR
1993	Aerial Photograph. Scale: 1"=750'	Panel #: 35081-B2, Gastonia South, NC;/Flight Date: March 01, 1993	EDR
1994	Aerial Photograph. Scale: 1"=500'	Panel #: 35081-B2, Gastonia South, NC;/Composite DOQQ - acquisition dates: January 21, 1994	EDR
1999	Aerial Photograph. Scale: 1"=750'	Panel #: 35081-B2, Gastonia South, NC;/Flight Date: March 04, 1999	EDR
2005	Aerial Photograph. Scale: 1"=500'	Panel #: 35081-B2, Gastonia South, NC;/Flight Year: 2005	EDR
2006	Aerial Photograph. Scale: 1"=500'	Panel #: 35081-B2, Gastonia South, NC;/Flight Year: 2006	EDR
2008	Aerial Photograph. Scale: 1"=500'	Panel #: 35081-B2, Gastonia South, NC;/Flight Year: 2008	EDR

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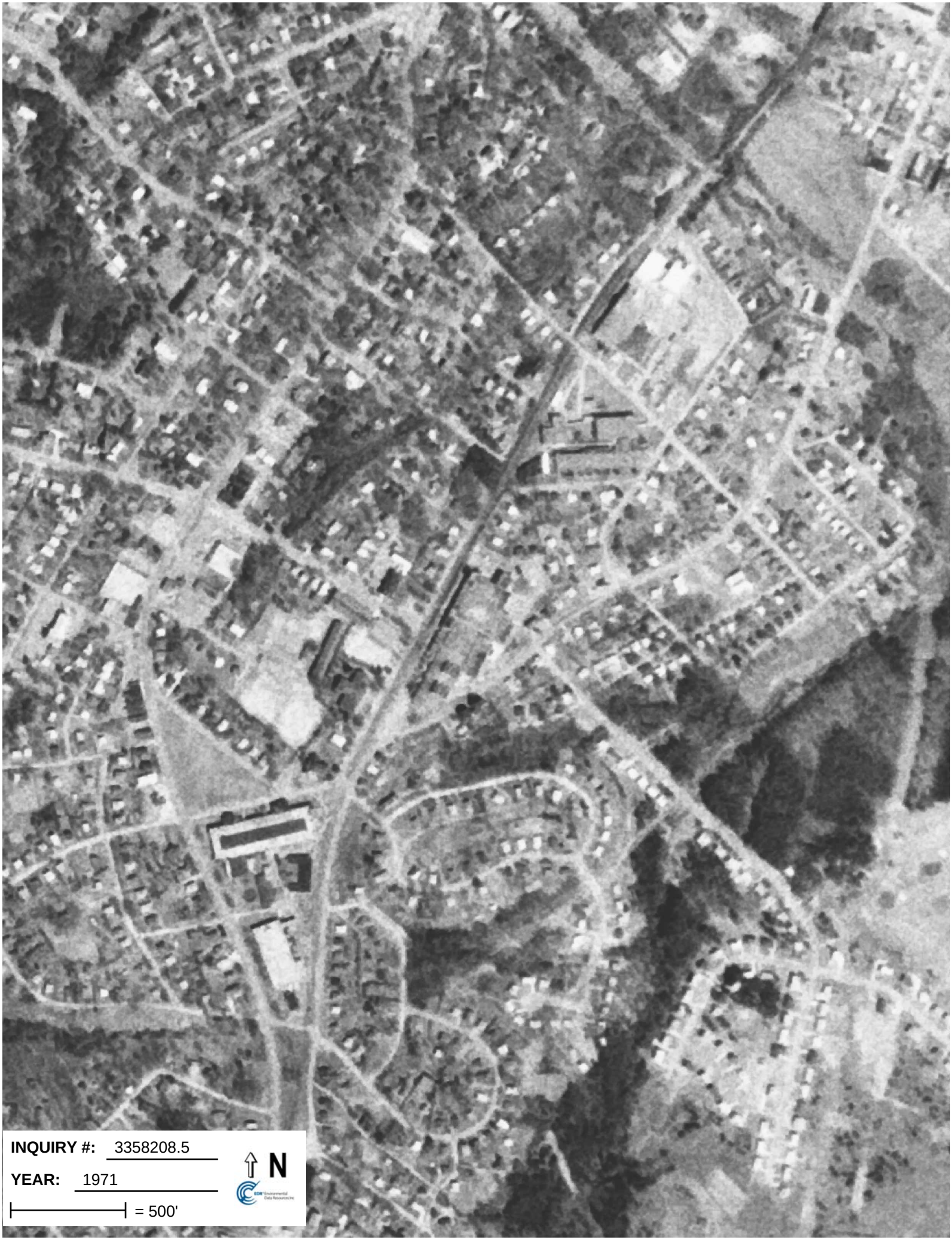
YEAR: 1961
= 1000'
N

INQUIRY #: 3358208.5
YEAR: 1969
= 750'
N


INQUIRY #: 3358208.5
YEAR: 1971
= 500'
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INQUIRY #: 3358208.5
YEAR: 1973
= 750'
N

INQUIRY #: 3358208.5
YEAR: 1984
= 1000'
N

INQUIRY #: 3358208.5
YEAR: 1989
= 750'
N

INQUIRY #: 3358208.5
YEAR: 1993
= 750'
N

INQUIRY #: 3358208.5
YEAR: 1994
= 500'
N

INQUIRY #: 3358208.5
YEAR: 1999
= 750'
N

INQUIRY #: 3358208.5
YEAR: 2005
= 500'
N

INQUIRY #: 3358208.5
YEAR: 2006
= 500'
N

INQUIRY #: 3358208.5
YEAR: 2008
= 500'
N

Wix Filtration
1525 S. Marietta Street
Gastonia, NC 28054

Inquiry Number: 3358208.4
July 03, 2012

EDR Historical Topographic Map Report

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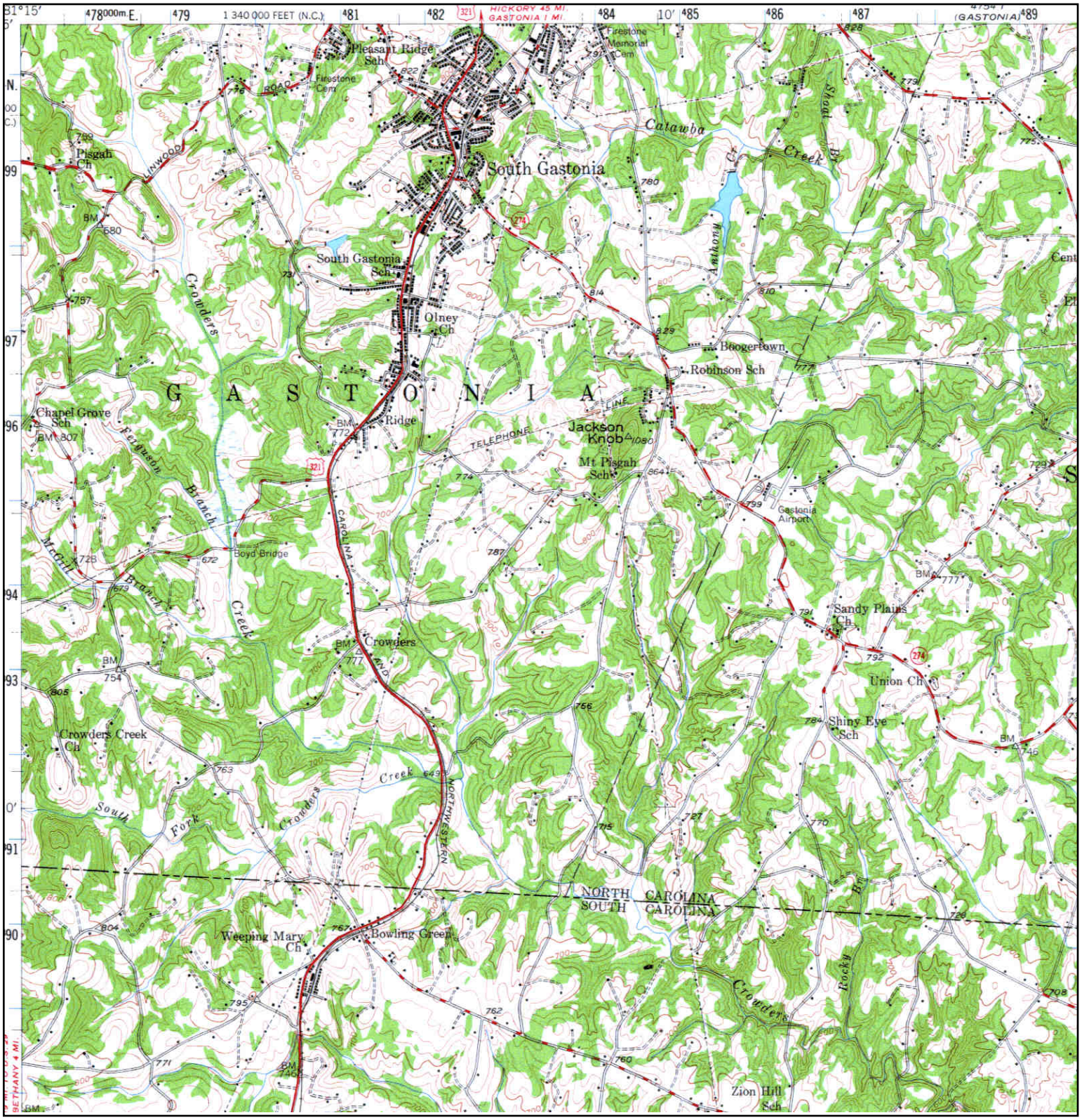
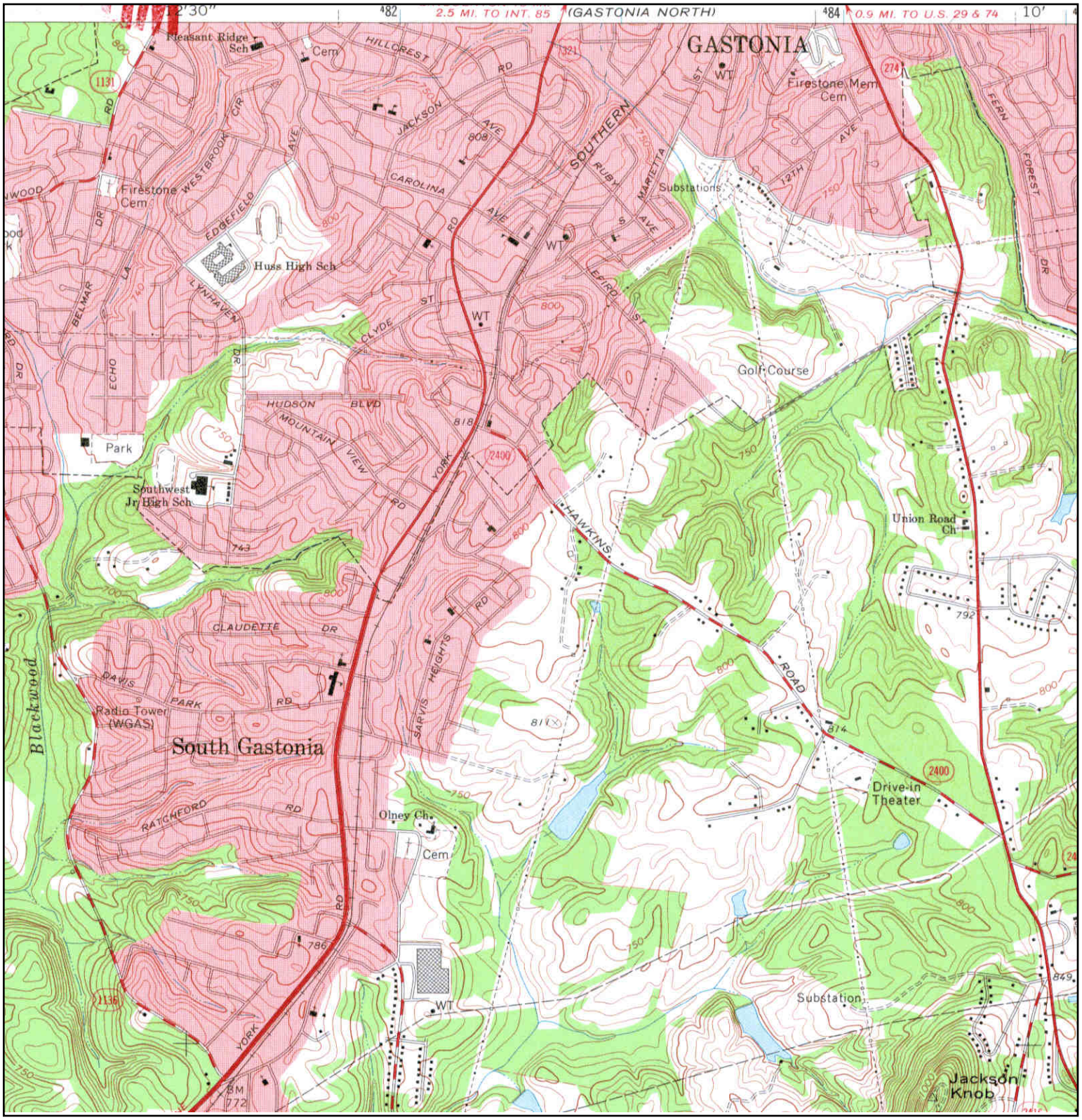
Historical Topographic Map



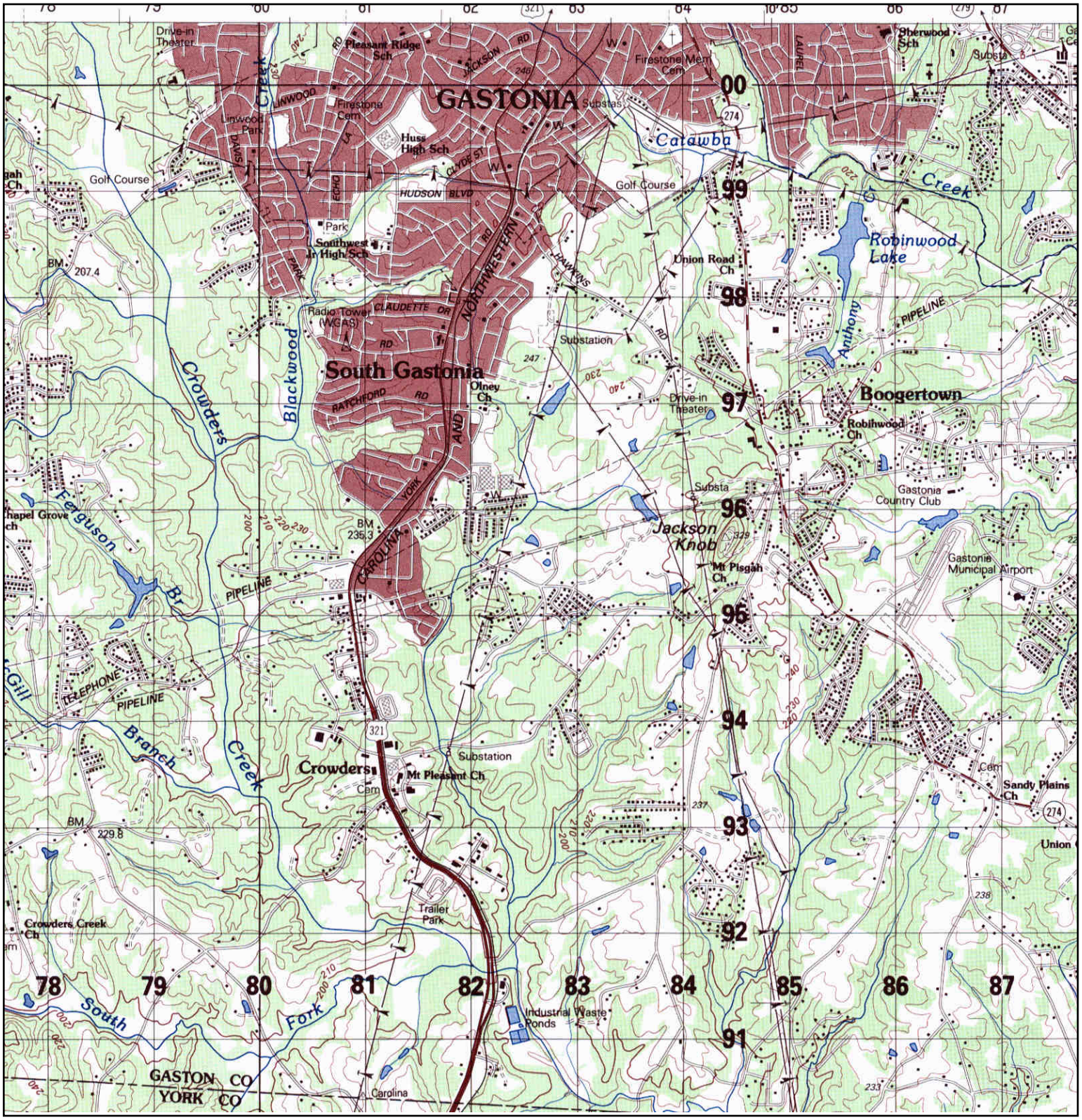
N	TARGET QUAD NAME: CLOVER MAP YEAR: 1947 SERIES: 15 SCALE: 1:62500	SITE NAME: Wix Filtration ADDRESS: 1525 S. Marietta Street Gastonia, NC 28054 LAT/LONG: 35.2407 / -81.1904	CLIENT: WSP Environment & Energy CONTACT: Frank Giles INQUIRY#: 3358208.4 RESEARCH DATE: 07/03/2012

Historical Topographic Map



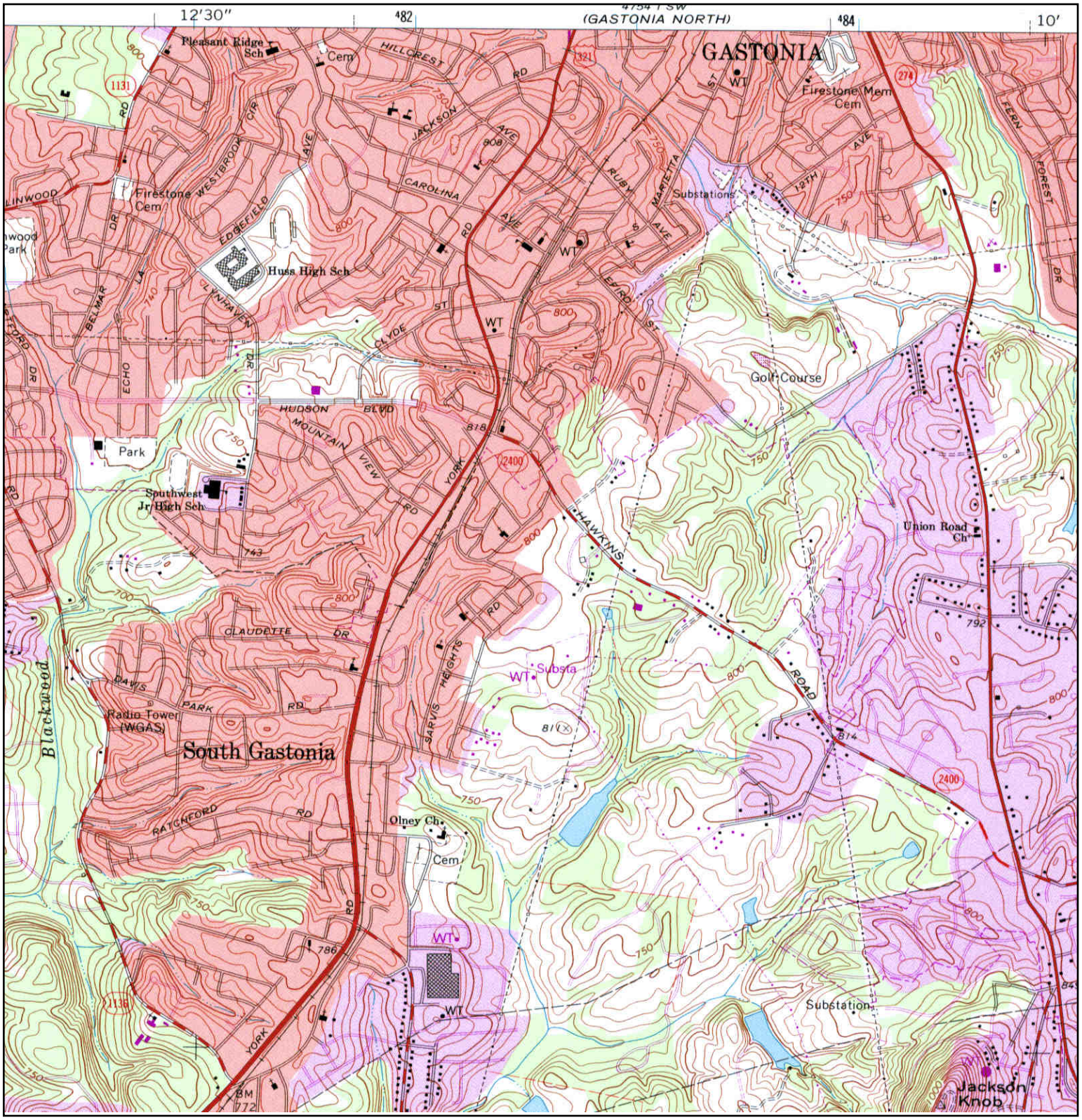
N	TARGET QUAD NAME: GASTONIA SOUTH MAP YEAR: 1973 SERIES: 7.5 SCALE: 1:24000	SITE NAME: Wix Filtration ADDRESS: 1525 S. Marietta Street Gastonia, NC 28054 LAT/LONG: 35.2407 / -81.1904	CLIENT: WSP Environment & Energy CONTACT: Frank Giles INQUIRY#: 3358208.4 RESEARCH DATE: 07/03/2012

Historical Topographic Map



N	TARGET QUAD NAME: CLOVER MAP YEAR: 1984 SERIES: 15 SCALE: 1:50000	SITE NAME: Wix Filtration ADDRESS: 1525 S. Marietta Street Gastonia, NC 28054 LAT/LONG: 35.2407 / -81.1904	CLIENT: WSP Environment & Energy CONTACT: Frank Giles INQUIRY#: 3358208.4 RESEARCH DATE: 07/03/2012

Historical Topographic Map



N	TARGET QUAD NAME: GASTONIA SOUTH MAP YEAR: 1993 SERIES: 7.5 SCALE: 1:24000	SITE NAME: Wix Filtration ADDRESS: 1525 S. Marietta Street Gastonia, NC 28054 LAT/LONG: 35.2407 / -81.1904	CLIENT: WSP Environment & Energy CONTACT: Frank Giles INQUIRY#: 3358208.4 RESEARCH DATE: 07/03/2012

Wix Filtration
1525 S. Marietta Street
Gastonia, NC 28054

Inquiry Number: 3358208.3
July 05, 2012

Certified Sanborn® Map Report

EDR® Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

7/05/12

Site Name:
Wix Filtration
1525 S. Marietta Street
Gastonia, NC 28054

EDR Inquiry # 3358208.3

Client Name:
WSP Environment & Energy
11190 Sunrise Valley Drive
Reston, VA 20191

Contact: Frank Giles

EDR® Environmental Data Resources Inc

The complete Sanborn Library collection has been searched by EDR, and fire insurance maps covering the target property location provided by WSP Environment & Energy were identified for the years listed below. The certified Sanborn Library search results in this report can be authenticated by visiting www.edrnet.com/sanborn and entering the certification number. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by Sanborn Library LLC, the copyright holder for the collection.

Certified Sanborn Results:

Site Name: Wix Filtration
Address: 1525 S. Marietta Street
City, State, Zip: Gastonia, NC 28054
Cross Street:
P.O. # 32538/5.6
Project: Double Eagle
Certification # 1C44-4332-8E6D

Maps Provided:

1942
1930
1922

Sanborn® Library search results
Certification # 1C44-4332-8E6D

The Sanborn Library includes more than 1.2 million Sanborn fire insurance maps, which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- ✔ Library of Congress
- ✔ University Publications of America
- ✔ EDR Private Collection

The Sanborn Library LLC Since 1866™

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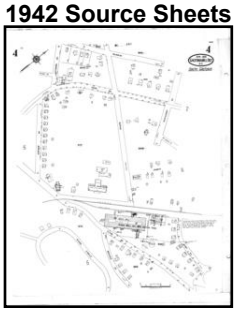
Sanborn Sheet Thumbnails

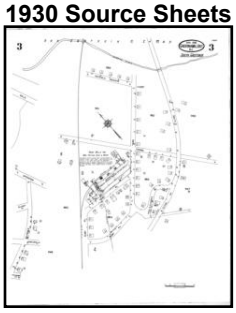
This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.

1942 Source Sheets

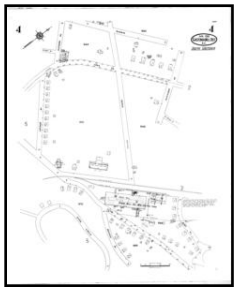


Volume 1, Sheet 4

1930 Source Sheets

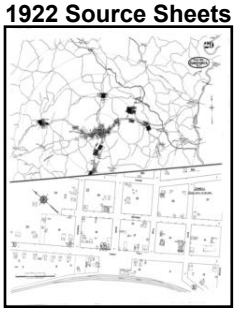


Volume 1, Sheet 3

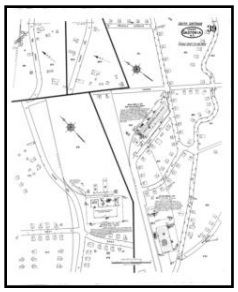


Volume 1, Sheet 4

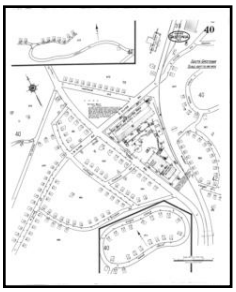
1922 Source Sheets



Volume 1, Sheet 29

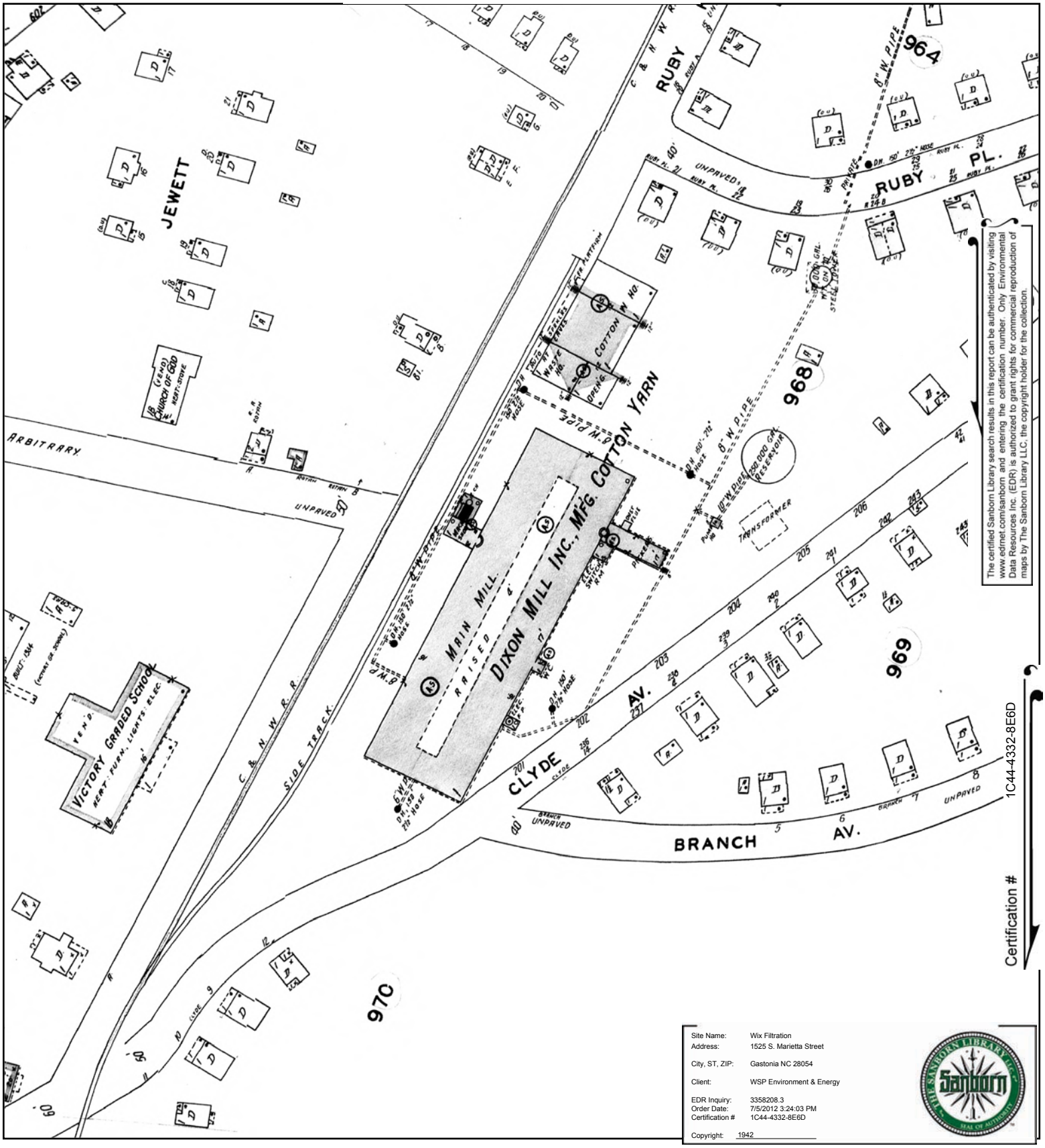


Volume 1, Sheet 39



Volume 1, Sheet 40

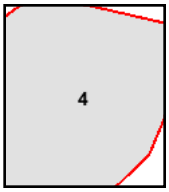
1942 Certified Sanborn Map



Site Name:	Wix Filtration
Address:	1525 S. Marietta Street
City, ST, ZIP:	Gastonia NC 28054
Client:	WSP Environment & Energy
EDR Inquiry:	3358208.3
Order Date:	7/5/2012 3:24:03 PM
Certification #	1C44-4332-8E6D
Copyright:	1942

This Certified Sanborn Map combines the following sheets.
Outlined areas indicate map sheets within the collection.

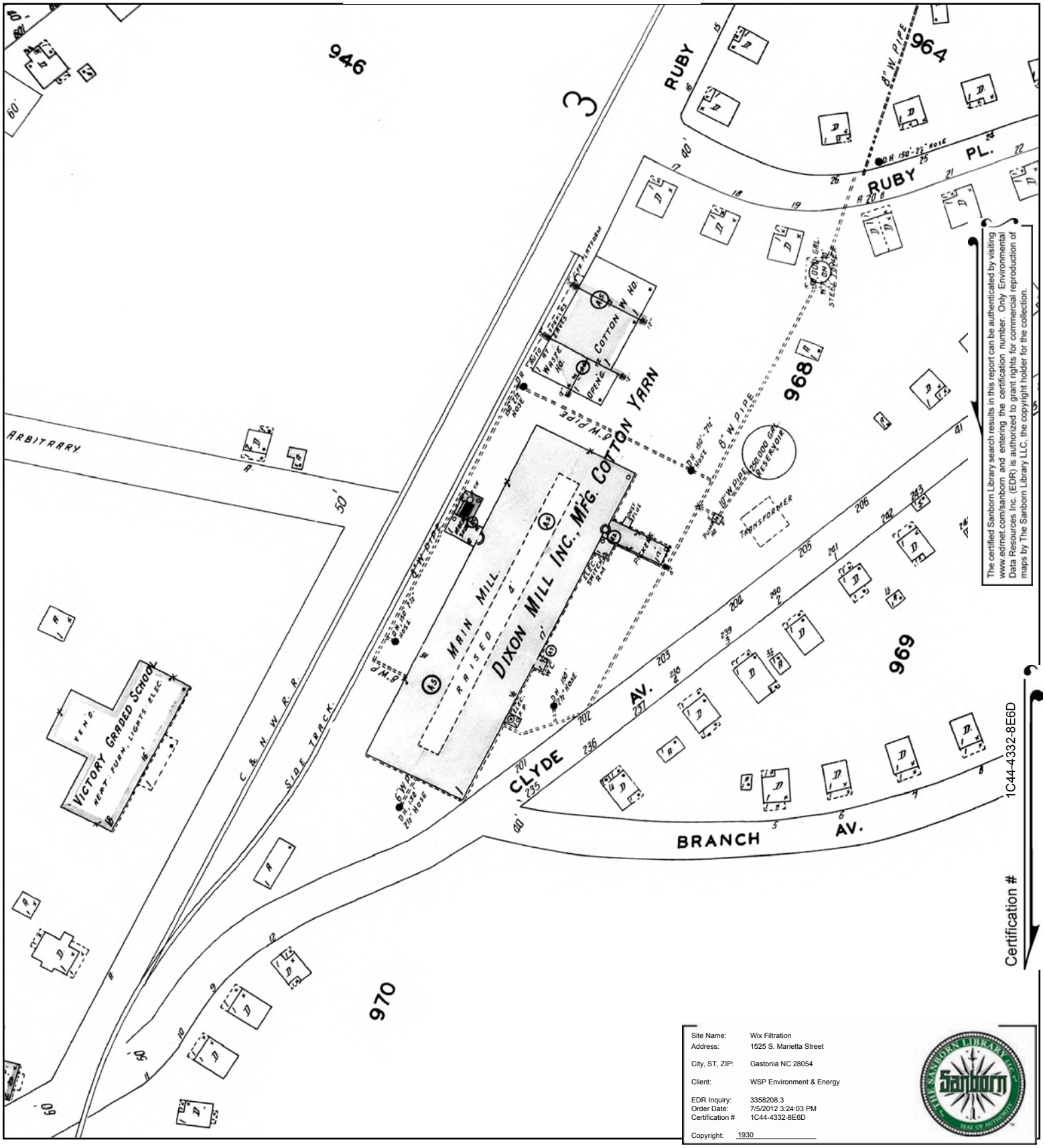
0 Feet 150 300 600



Volume 1, Sheet 4

N

1930 Certified Sanborn Map



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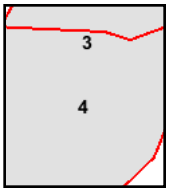
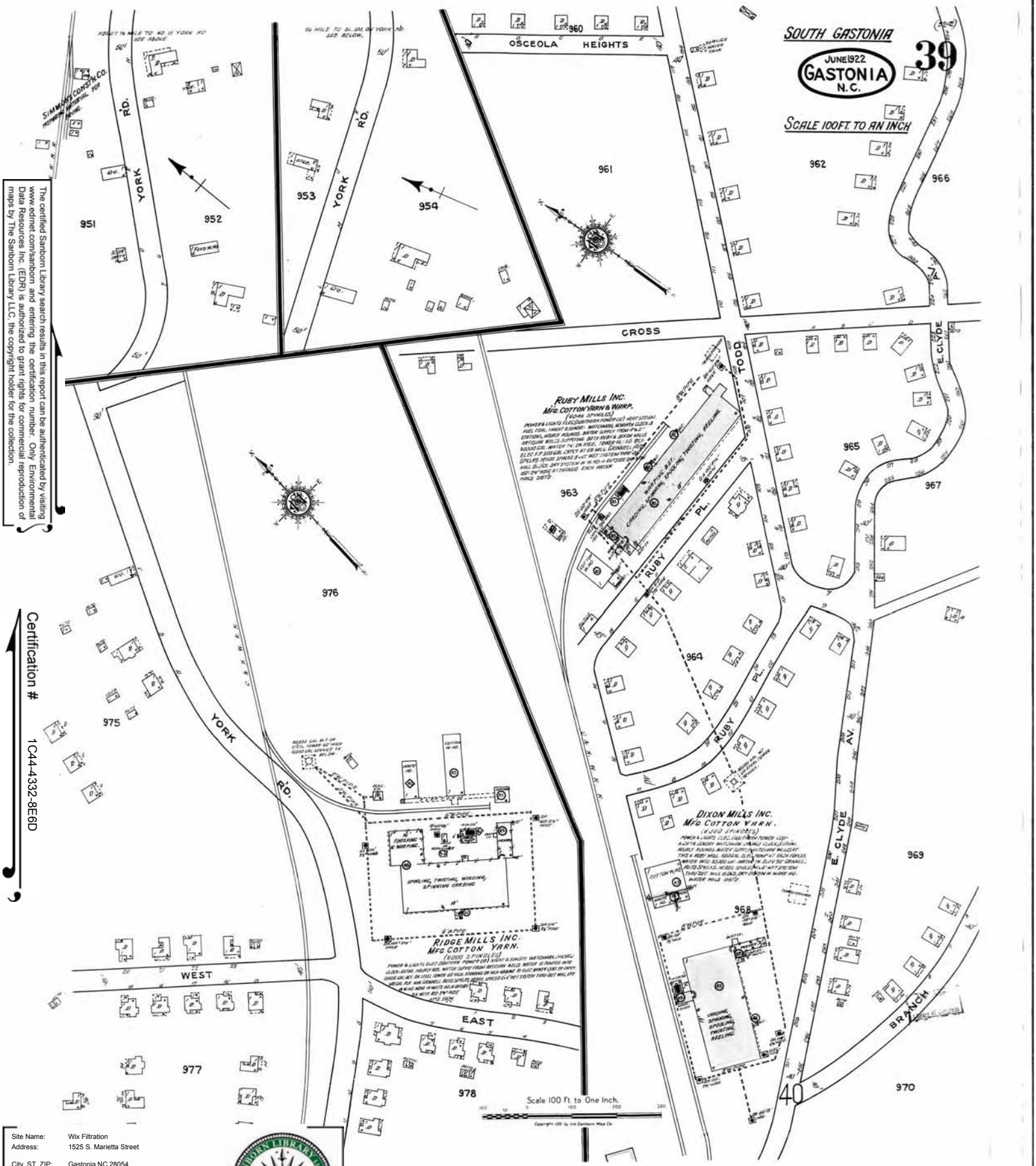


Volume 1, Sheet 3
Volume 1, Sheet 4

N

1922 Certified Sanborn Map



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Certification # 1C44-4332-8E6D

Site Name:	Wix Filtration
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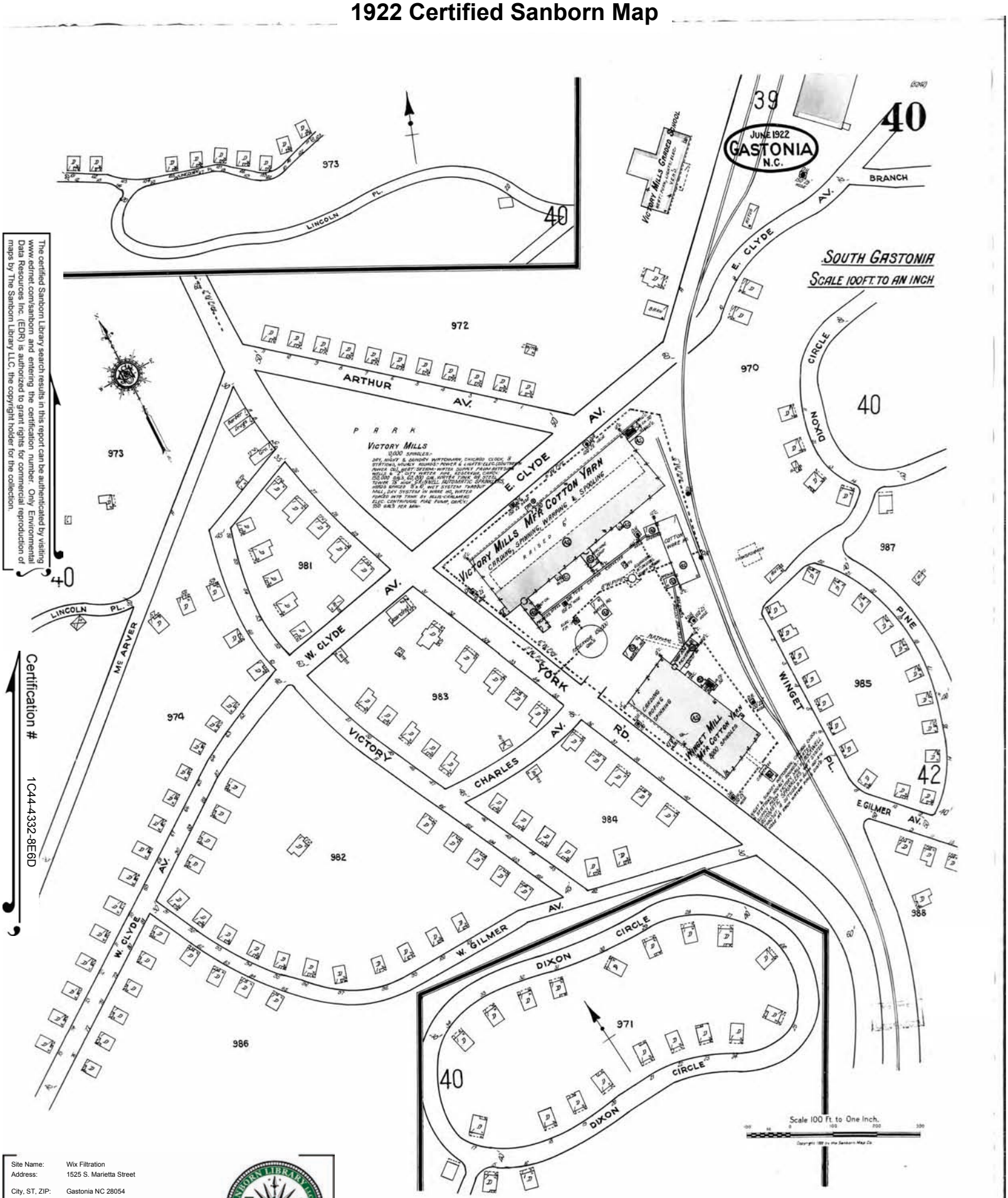
City, ST, ZIP:	Gastonia NC 28054
Client:	WSP Environment & Energy
EDR Inquiry:	3358208.3
Order Date:	7/5/2012 3:24:03 PM
Certification #	1C44-4332-8E6D
Copyright:	1922

1922 Certified Sanborn Map



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Certification # 1C44-4332-8E6D

Site Name:	Wix Filtration
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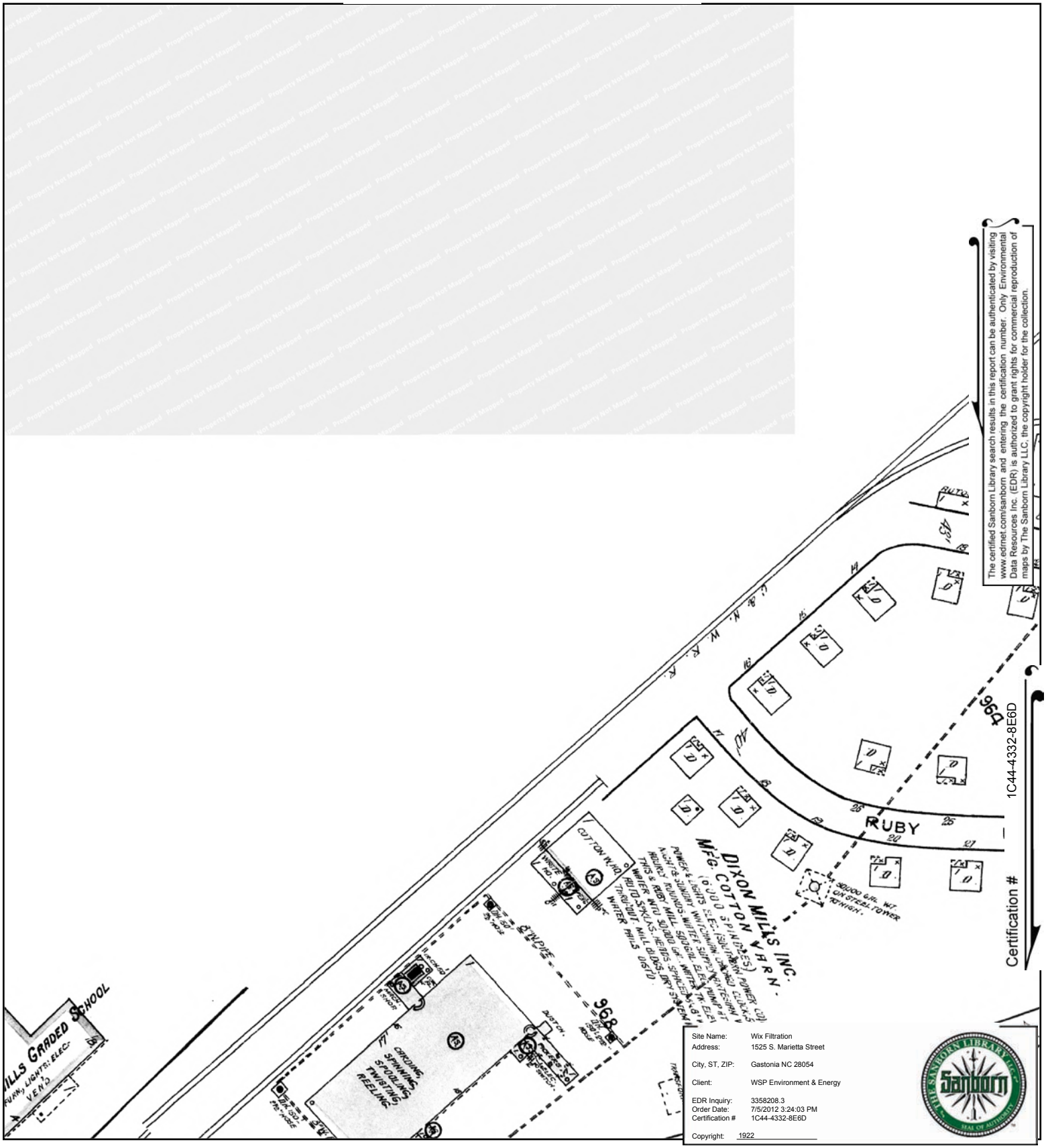
Copyright:	1922

1922 Certified Sanborn Map



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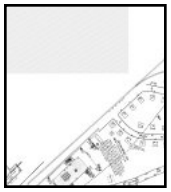

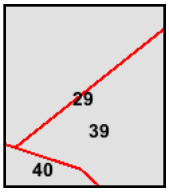

Volume 1, Sheet 29
Volume 1, Sheet 39
Volume 1, Sheet 40

N

Wix Filtration
1525 S. Marietta Street
Gastonia, NC 28054

Inquiry Number: 3358208.7
July 03, 2012

EDR Environmental Lien and AUL Search

Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
800.352.0050
www.edrnet.com

EDR Environmental Lien and AUL Search

The EDR Environmental Lien and AUL Search Report provides results from a search of available current land title records for environmental cleanup liens and other activity and use limitations, such as engineering controls and institutional controls.

A network of professional, trained researchers, following established procedures, uses client supplied address information to:

- search for parcel information and/or legal description;
- search for ownership information;
- research official land title documents recorded at jurisdictional agencies such as recorders' offices, registries of deeds, county clerks' offices, etc.;
- access a copy of the deed;
- search for environmental encumbering instrument(s) associated with the deed;
- provide a copy of any environmental encumbrance(s) based upon a review of key words in the instrument(s) (title, parties involved, and description); and
- provide a copy of the deed or cite documents reviewed.

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EDR Environmental Lien and AUL Search

TARGET PROPERTY INFORMATION

ADDRESS

1525 S. Marietta Street
Wix Filtration
Gastonia, NC 28054

RESEARCH SOURCE

Source 1:

Gaston Register of Deeds
Gaston, NC

PROPERTY INFORMATION

Deed 1:

Type of Deed:	Special Warranty Deed
Title is vested in:	Wix Filtration Corp.
Title received from:	Dana Corporation
Deed Dated	11/30/2004
Deed Recorded:	12/3/2004
Book:	4083
Page:	2020
Volume:	NA
Instrument:	NA
Docket:	NA
Land Record Comments:	
Miscellaneous Comments:	
Legal Description:	see exhibit
Legal Current Owner:	Wix Filtration Corp. LLC
Parcel # / Property Identifier:	113350
Comments:	see exhibit

ENVIRONMENTAL LIEN

Environmental Lien: Found ☐ Not Found ☒

OTHER ACTIVITY AND USE LIMITATIONS (AULs)

AULs: Found ☐ Not Found ☒

Deed Exhibit 1

Doc ID: 009364720009 Type: CRP
Recorded: 12/03/2004 at 04:03:54 PM
Fee Amt: $14,967.00 Page 1 of 9
Excise Tax: $14,929.00
Instr# 200400022522
Gaston, NC
Alice B. Brown Register of Deeds
BK 4083 PG 2020-2028

Special Warranty Deed

Excise Tax $14,929.00

Tax Parcel No. _____

Mail after recording to: ~~Simpson Thacher & Bartlett LLP, 425 Lexington Avenue, New York~~, NY 10017 Attn.: ~~Krista McManus, Esq.~~ First American Title [illegible]

This instrument prepared by: Simpson Thacher & Bartlett LLP, 425 Lexington Avenue, New York, NY 10017

THIS DEED, made and entered into this 30th day of November 2004, by and between Dana Corporation, a Virginia corporation, having an office at c/o 4500 Dorr Street, Toledo, Ohio 43615 ("***Grantor***") and Wix Filtration Corp., a Delaware corporation, having an office at 1 Wix Way, Gastonia, North Carolina, 28054 ("***Grantee***").

W I T N E S S E T H:

That the Grantor in consideration of Ten ($10.00) Dollars and other good and valuable consideration, paid by the Grantee, the receipt of which is hereby acknowledged, does hereby grant, bargain, sell, convey and release unto the Grantees, the heirs or successors and assigns of the Grantee, in fee simple forever, all those certain lots or parcels of land more particularly described as follows:

See Exhibit A attached hereto and made a part hereof.

TOGETHER with all right, title and appurtenances to the same belonging, if any, of the Grantor in and to any streets and roads abutting the described property;

TOGETHER with the appurtenances and all the estate and rights of the Grantor in and to said property;

SUBJECT to all (a) Permitted Exceptions (as such term is defined in that certain Stock and Asset Purchase Agreement by and between AAG OPCO CORP. and DANA CORPORATION dated as of July 8, 2004) and (b) all ad valorem taxes for the year 2004 and thereafter, special taxes becoming a lien after the date of this Deed, and (c) all easements, covenants, restrictions and other matters of record affecting the above described property

9 RECORDING FEE 38.00
EXCISE TAX PAID 14,929.00
NSFF 25.00

including, without limitation, those identified on Schedule I attached hereto and made a part hereof ((a), (b) and (c) being collectively, the "***Exceptions***").

TO HAVE AND TO HOLD the aforesaid property herein granted unto the Grantee, the heirs or successors and assigns of the Grantee, in fee simple forever. The Grantor covenants with the Grantee that Grantor has done nothing to impair such title as Grantor received and Grantor will warrant and forever defend the right and title to the above described property unto Grantee, its heirs, successors and assigns, against the lawful claims of all persons owning, holding or claiming by, through or under Grantor other than and subject to the Exceptions.

IN WITNESS WHEREOF, the Grantor has duly executed this Deed the day and year first above written.

DANA CORPORATION

By: A Glenn Patton

Name: A Glenn Patton

Title: Vice President-Treasurer

Original

020002-0110-08068-NY02.2386861.4

STATE OF Ohio

COUNTY OF Lucas

I, Susan J. Stewart, a notary public for the aforesaid county and state, certify that A. Glenn Paton personally came before me this day and acknowledged that he/she is Vice President-Treasurer of Dana Corporation, a Virginia corporation, and that he/she as Vice President-Treasurer, being authorized to do so, executed the foregoing on behalf of the corporation.

WITNESS my hand and official seal, this 30 day of NOV, 2004.

Susan J. Stewart
Notary Public

My Commission Expires:

[NOTARIAL SEAL]

NOTARIAL SEAL STATE OF OHIO

SUSAN J. STEWART
Notary Public, State of Ohio
Commission Expires 3-6-06

NORTH CAROLINA, GASTON COUNTY

The foregoing certificate(s) of Susan J. Stewart
Notary Public of Ohio and
Notary Public of
instrument was presented for registration and recorded in this office in Book 4083
Page 2020 this 3rd day of December, 2004 at 4:03 P

SUSAN S. LOCKRIDGE REGISTER OF DEEDS By Jennifer Ollinger Deputy

020002-0110-08068-NY02.2386861.4

Exhibit A

Lying and being in Gaston County, North Carolina, and being more particularly described as follows:

TRACT 1

BEGINNING at an iron located in the northeast corner of the intersection of Ozark Avenue and Park Lane and running thence with the east margin of the right of way of Park Lane North 43° 47'10" West 206.45 feet to an iron (southeast corner of lot No. 402 North Modena Street of the Ranlo Manufacturing Company, Modena Plant, as shown upon a map of said subdivision prepared by Charles S. Kirby, Engineer, in May, 1936, and recorded in Plat Book 4 at Page 63 in the Gaston County Registry); thence with the east margin of lot No. 402 North Modena Street North 17°05'40" East 43.3 feet to an iron; thence continuing with the east margin of said lot No. 402 North Modena Street and with the east margin of lot No. 406 North Modena Street North 1°22' 40" East 136.94 feet to an old iron, southeast corner of lot No. 410 North Modena Street; thence with the East margin of said lot No. 410 North Modena Street North 2°11'30" East 94.83 feet to an old iron, northeast corner of said lot No. 410 North Modena Street; thence with the Southern margin of land belonging to L. L. McLean, now or formerly, as described in Deed Book 616 at Page 467 in the Gaston County Registry, South 80°18'30" East 62 feet to an iron, corner of Boyd M. Warren, now or formerly, as described in Deed Book 400 at Page 474 in the Gaston County Registry; thence with the margin of the subdivision of realty belonging to Ozark Investment Company, Inc. and entitled "Old Ozark Mill Property" as shown upon a map of same prepared by John L. Stacy, Registered Surveyor, in October, 1936, and recorded in Plat Book 4 at Page 69 in the Gaston County Registry South 37°37'40" East 218.00 feet to an old iron, southwest corner of Bryte C. Warren as described in that certain conveyance recorded in Deed Book 478 at Page 20 of the Gaston County Registry; thence with the southern margin of said Bryte C. Warren North 56°20'30" East 49.33 feet to an iron, northeast corner of Lot No. 1 in Block C of Ozark Mill property as shown in Plat Book 4 at Page 69; thence with the eastern margin of said lot No. 1 in Block C of Ozark Mill property South 39° 53' East 120 feet to an iron in the northern margin of Ozark Avenue; thence with the northern margin of Ozark Avenue South 47°30' West 257 feet to the point of beginning.

The above description is taken from an unrecorded map prepared by Robinson and Sawyer, Inc., Engineers and Surveyors, in August, 1969, of the premises which the Gaston County Board of Education formerly used as the site of East Elementary School.

Reference is made to a map of the land belonging to Modena Mills which was prepared by A. W. Hoffman, Surveyor, dated March 20, 1929, and recorded in Plat Book 3 at Page 90 in the Gaston County Registry.

Exhibit A

Office:

THE LEGIBILITY OF WRITING, TYPING OR PRINTING
UNSATISFACTORY IN THIS DOCUMENT WHEN RECEIVED

Lying and being in Gaston County, North Carolina, and being more particularly described as follows:

TRACT 2:

Parcel A:

TRACT ONE: Being the full contents of Lot Number Six (6) in Block Number One (1) of that certain subdivision of lands known as Ozark Investment Company property situate in the City of Gastonia, North Carolina, as per plat thereof made by John L. Stacy, Registered Surveyor, dated October, 1938, a plat of which is on file in the office of the Register of Deeds for Gaston County, North Carolina, in Plat Book 4 at Page 69, to which reference is hereby made for a complete description of the same by metes and bounds.

Being the identical land conveyed to the party of the first part herein by Lincoln Bonded Warehouse Company by Deed dated February 18, 1939, and filed to be recorded in the Gaston County Registry.

TRACT TWO: Lying and being in the City of Gastonia, Gastonia Township, Gaston County, North Carolina, and described as follows:

Being the full contents of Lots Numbered Three (3), four (4), and five (5) in Block Number One (1) of that certain subdivision of land known as Ozark Investment Company property situated in the City of Gastonia, North Carolina, as per plat thereof made by John L. Stacy, Registered Surveyor, dated October, 1938, a plat of which is on file in the office of the Register of Deeds for Gaston County, North Carolina, in Plat Book 4 at Page 69 to which reference is hereby made for a more complete description of said lots by metes and bounds.

Being the identical land conveyed to the party of the first part herein by W. F. Kincaid, Jr. and wife, Ada C. Kincaid, by Deed dated February 10, 1939, and recorded in the Gaston County Registry.

TRACT THREE: Being the full contents of Lot No. 2 in Block 1 of the Ozark Investment Company property, as shown on map or plat thereof, made by John L. Stacy, Surveyor, a copy of which map or plat is filed in the office of the Register of Deeds of Gaston County, North Carolina, in Plat Book 4 at Page 69, to which reference is hereby made for a full and complete description of said lot by metes and bounds. Situated on the above lot is a dwelling house known and designated as No. 1311 East Ozark Street. Said lot faces 63.4 feet on said East Ozark Street and runs back on each side 126 feet, and being 66 feet wide in the rear.

Being the identical land conveyed to the party of the first part herein by Mae Mauney, Widow, by Deed dated September 7, 1943, and recorded in the Gaston County Registry.

THE LEGIBILITY OF WRITING, TYPING OR PRINTING UNSATISFACTORY IN THIS DOCUMENT WHEN RECEIVED.

TRACT FOUR: Being the full contents of Lot Number One (1) in Block One (1) of the OZARK INVESTMENT COMPANY property as shown and described on map or plat thereof made by John L. Stacy, Registered Surveyor, a copy of which map or plat is on file and recorded in the office of the Register of Deeds for Gaston County, North Carolina, in Plat Book 4 at Page 69, to which reference is hereby made for a full and complete description of said lot by metes and bounds. Being known as Number 1208 East Ozark Avenue in the City of Gastonia, North Carolina.

Being the identical land conveyed to the party of the first part herein by Roy H. Kennedy, Widower, et als, by Deed dated January 31, 1958, and recorded in Book 710 at Page 572.

TRACT FIVE: Being situated on the southern side of East Ozark Avenue, and being known and designated as No. 1205 and 1207 East Ozark Avenue, Gastonia, N. C., and bounded on the East by Lot No. 1, Block 1 of the Ozark Subdivision, on the South by Central Bonded Warehouse property, and on the West by W. D. Robinson (now or formerly), and more particularly described as follows:

BEGINNING at a stake in the Southern margin of East Ozark Avenue, the Northwest front corner of Lot No. 1, in Block 1 of the Ozark Subdivision, as shown on that plat recorded in the office of the Register of Deeds for Gaston County, N. C., in Plat Book 4 at Page 69, and runs thence with the Western line of said lot South 38 degrees 30 minutes East 100 feet to a stake; thence with the Northern line of Central Bonded Warehouse property South 46 degrees 30 minutes West 98.5 feet to a stake, common corner with W. D. Robinson (now or formerly); thence with the Eastern line of W. D. Robinson (now or formerly) North 38 degrees 30 minutes West 100 feet to a stake in the Southern margin of East Ozark Avenue, W. D. Robinson's (now or formerly) Northeast corner; thence with the Southern margin of East Ozark Avenue North 46 degrees 30 minutes East 96.5 feet to a stake, the point of the beginning. The above description is in accordance with a new survey of said premises made by J. H. Findlay, Registered Surveyor, in June, 1948.

Being the identical land conveyed to the party of the first part herein by Cary C. Boshamer Foundation, Inc. by Deed dated March 26, 1971, and recorded in Book 1054 at Page 423 in the Gaston County Registry.

Parcel B:

BEING the full contents of Lots Numbers 7, 8, and 9, in Block One, of the Property of the Ozark Investment Company, as shown on plat thereof made by John L. Stacy, Registered Surveyor, a copy of said plat being recorded in Plat Book 4, at Page 69, in the office of the Register of Deeds for Gaston County, North Carolina, to which plat reference is hereby made for a metes and bounds description of said lots of realty.

THE LEGIBILITY OF WRITING, TYPING OR PRINTING UNSATISFACTORY IN THIS DOCUMENT WHEN RECEIVED.

Lying and being in Gaston County, North Carolina, and being more particularly described as follows:

TRACT 3:

Beginning at a point in the southwestern right of way boundary of Flint Lane, said point being 54' northwest of and normal to survey station 118+40.74, survey line L; thence in a straight line in a southerly direction to a point 43' northwest of and normal to survey station 118+42 survey line L said point also being located on the northwest right of way boundary of state highway Project 9.8121385, Gaston County; thence in a southwesterly direction along and with the northwestern right of way boundary of state highway Project 9.8121385 being at all points 43' northwesterly of and normal to survey line L of the aforesaid project to the point of intersection with the southwestern property line of North Carolina Department of Transportation (formerly Glenda Morris, et vir) a common property line of North Carolina Department of Transportation (formerly Glenda Turney Morris) and Dana Wix Corporation, now or formerly said point of intersection being 43' northeast of and normal to survey line L; thence along and with the aforesaid common property line N 40° 38' 20" W to an existing iron pin; thence continuing along the aforesaid common property line N 40° 38' 20" W 17.98' to a property corner with North Carolina Department of Transportation (formerly Glenda Turney Morris) and Dana Wix Corporation now or formerly; thence N 52° 51' 16" E 54.11' to a point; thence N 52° 51' 48" E 87.01' to an existing iron pin; thence N 52° 51' 47" E 64.52' to an existing iron pin located in the southeast existing right of way line of Flint Lane; thence along and with the existing right of way line S 37° 42' 12" E to the point and place of beginning and containing approx. .407 acre.

This description was drawn from the Master Plans for highway Project 9.8121385, Gaston County on file in the office of North Carolina Department of Transportation in Raleigh, N. C.

Lying and being in Gaston County, North Carolina, and being more particularly described as follows:

TRACT 4:

Parcel A:

Lying in Gastonia, Gaston County, North Carolina, and being all that certain tract or parcel of land adjoined and bounded on the northwest by the center line of the C. & N.W. Railroad track, on the northeast by Postoria Drive and the lands of Ruby Mills (formerly - now Uniroyal), on the Southeast by South Marietta Street, and being more particularly described by courses and distances as follows, to-wit;

THE LEGIBILITY OF WRITING, TYPING OR PRINTING UNSATISFACTORY IN THIS DOCUMENT WHEN RECEIVED.

BEGINNING at a 5 inch galvanized iron pipe in the Northwest line of South Marietta Street at a point Southwest of the West line of Congress Street, a distance of 448.7 feet measured with the Northwest line of South Marietta Street, and running thence from said Beginning point along the Northwest line of South Marietta Street South 51 degrees 51 minutes West 166.53 feet to a stake; thence continuing along the Northwest line of South Marietta Street South 55 degrees 47 minutes West 142.64 feet to a stake; thence continuing along the Northwest line of South Marietta Street South 58 degrees 46 minutes West 224.60 feet to a stake; thence continuing along said line of South Marietta Street South 70 degrees 33 minutes West 297.38 feet to a stake located in the right of way of the C. & N.W. Railroad; thence along the Northwest line of South Marietta Street South 50 degrees 11 minutes West 93.38 feet to a 5 inch galvanized pipe; thence leaving South Marietta Street South 84 degrees 20 minutes West 13.70 feet to a point in the center of the C. & N.W. Railroad track; thence along the center of said railroad track North 31 degrees 08 minutes East 180 feet to a point in the center of said track; thence continuing along the center of said railroad track North 31 degrees 46 minutes East 542.94 feet to a point in the center of said track; thence South 60 degrees 38 minutes East 132.10 feet to a point at the back of the sidewalk along the Southerly margin of Fostoria Drive; thence continuing with the Southerly margin of Fostoria Drive and with the back of the sidewalk South 61 degrees 8 minutes East 70 feet to a stake; thence continuing along said margin of said street South 78 degrees 04 minutes East 64.35 feet to a stake; thence continuing with said margin of said street North 83 degrees 17 minutes East 13.10 feet to a stake in said margin of Fostoria Drive; thence continuing with said margin of Fostoria Drive North 77 degrees 32 minutes East 58.9 feet to a stake; thence leaving said margin of Fostoria Drive South 28 degrees 47 minutes East 115.65 feet to a stake at the Northerly corner of Lot No. 11 in Block "C" as shown on plat recorded in Plat Book 11, at Page 90, in the Gaston County Registry; thence South 58 degrees 37 minutes West 62 feet to the Westerly corner of Lot No. 11; thence South 35 degrees 18 minutes West 174.10 feet to a stake in the Southwesterly margin of Lot No. 13 as shown on the aforesaid plat; thence with said margin of said lot South 43 degrees 41 minutes East 76.10 feet to the point of Beginning; comprising 6.8913 acres

THE LEGIBILITY OF WRITING, TYPING OR PRINTING
UNSATISFACTORY IN THIS DOCUMENT WHEN RECEIVED.

Less And Except:

BEGINNING on the southernmost property corner of the undersigned; running thence in a northwesterly direction along and with the southwestern property line of the undersigned to its point of intersection with the northwestern right of way limits of the project, said point being located 61 feet northwesterly of and normal to Survey Line L; running thence in an easterly direction along the northwestern right of way limits of the project in a straight line to a point located 48 feet northwesterly of and normal to Survey Station 114+18, Survey Line L; running thence in a northeasterly direction along the northwestern right of way limits of the project in a straight line to its point of intersection with the northeastern property line of the undersigned, said point being located 48 feet northwesterly of and normal to Survey Line L; running thence in a southeasterly direction along and with the northeastern property line of the undersigned to the easternmost property corner of the undersigned; running thence in a southwesterly direction along and with the southeastern property line of the undersigned to the point of BEGINNING.

Lying and being in Gaston County, North Carolina, and being more particularly described as follows:

TRACT 4:

Parcel B:

Beginning at a stake in the Southern margin right of way line of Interstate Highway 85, said beginning stake being determined as follows: Beginning at a stake in the Jenkins Dairy Road, said stake being situate 2,051.93 feet in an easterly direction from the center line of the North bound track of Southern Railroad and running thence North 81 degrees 16 minutes East 450 feet; then South 8 degrees 31 minutes East 602.49 feet to the said beginning stake of the land being conveyed herein and runs thence South 8 degrees 31 minutes East 198.51 feet to an Old Stone situate in the Western Margin of Rhyne's property; thence North 60 degrees 26 minutes West 250.8 feet to a stake in the Southern Margin right of way line of Interstate Highway 85; thence North 69 degrees 06 minutes East 202.14 feet along the Southern margin right of way line of Interstate Highway 85 to the point of beginning, containing 0.45 acres.

The above metes and bound description is taken from plat of survey made by Findlay, Withers & McConnaughey, Registered Surveyors, July, 1961.

Lying and being in Gaston County, North Carolina, and being more particularly described as follows:

TRACT 5:

BEGINNING at an existing iron at the Northwest corner of Tract No. 1 originally conveyed to Joseph B. Roberts, III, Trustee by deed recorded in Book 1438 at Page 554 in the Gaston County Registry, being located North 76°-05'-38" West 1446.98 feet from the centerline of Union Road (North Carolina Highway #274) and running thence South 76°-05'-38" East 1446.98 feet to the centerline of Union Road (North Carolina Highway #274) and thence South 00°-18'-58" East 359.24 feet to a point in the centerline of Union Road (North Carolina Highway #274); thence North 87°-41'-03" West 988.46 feet to an iron in the Southpines Subdivision line; thence North 54°-41'-19" West 263.31 feet to an iron in the corner of the Helen Brandon property; thence North 21°-37'-36" West 553.83 feet to the Beginning, containing 14.065 acres.

THE LEGIBILITY OF WRITING, TYPING OR PRINTING UNSATISFACTORY IN THIS DOCUMENT WHEN RECEIVED.

Delaware

PAGE 1

The First State

I, JEFFREY W. BULLOCK, SECRETARY OF STATE OF THE STATE OF DELAWARE DO HEREBY CERTIFY THAT THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF CONVERSION OF A DELAWARE CORPORATION UNDER THE NAME OF "WIX FILTRATION CORP." TO A DELAWARE LIMITED LIABILITY COMPANY, CHANGING ITS NAME FROM "WIX FILTRATION CORP." TO "WIX FILTRATION CORP LLC", FILED IN THIS OFFICE ON THE TWENTY-NINTH DAY OF JUNE, A.D. 2007, AT 4:09 O'CLOCK P.M.

AND I DO HEREBY FURTHER CERTIFY THAT THE EFFECTIVE DATE OF THE AFORESAID CERTIFICATE OF CONVERSION IS THE SECOND DAY OF JULY, A.D. 2007.

RECORDING FEE 21.00

Doc ID: 013318340004 Type: COR
Kind: CORPORATION
Recorded: 08/04/2009 at 09:22:07 AM
Fee Amt: $21.00 Page 1 of 4
Instr# 200900004402
Gaston, NC
Susan S. Lockridge Register of Deeds
BK 71 PG 29-32

Doc ID: 013318350004 Type: CRP
Kind: MISC
Recorded: 08/04/2009 at 09:22:07 AM
Fee Amt: $0.00 Page 1 of 4
Instr# 200900004403
Gaston, NC
Susan S. Lockridge Register of Deeds
BK 4477 PG 1453-1456

SECRETARY'S OFFICE · THE DELAWARE · 1897

Jeffrey W. Bullock, Secretary of State

3840671 8100V

AUTHENTICATION: 7452789

090748079

DATE: 08-03-09

You may verify this certificate online at corp.delaware.gov/authver.shtml

State of Delaware
Secretary of State
Division of Corporations
Delivered 04:12 PM 06/29/2007
FILED 04:09 PM 06/29/2007
SRV 070769834 - 3840671 FILE

STATE OF DELAWARE
CERTIFICATE OF CONVERSION
FROM A CORPORATION TO A LIMITED LIABILITY COMPANY PURSUANT TO SECTION 18-214 OF THE LIMITED LIABILITY ACT

1. The jurisdiction where the Corporation was first formed is Delaware.

2. The jurisdiction immediately prior to filing this Certificate is Delaware.

3. The date the Corporation was first formed is August 11, 2004.

4. The name of the Corporation immediately prior to filing this Certificate is Wix Filtration Corp.

5. The name of the limited liability company as set forth in the Certificate of Formation is Wix Filtration Corp LLC.

6. This certificate of conversion shall be effective on 7/2/2007.

IN WITNESS WHEREOF, the undersigned has executed this Certificate on the 26 day of June, 2007.

By: _____
John D. Carr
Vice President

Certified Copy

Delaware

The First State

I, JEFFREY W. BULLOCK, SECRETARY OF STATE OF THE STATE OF DELAWARE DO HEREBY CERTIFY THAT THE ATTACHED IS A TRUE AND CORRECT COPY OF CERTIFICATE OF FORMATION OF "WIX FILTRATION CORP LLC" FILED IN THIS OFFICE ON THE TWENTY-NINTH DAY OF JUNE, A.D. 2007, AT 4:09 O'CLOCK P.M.

AND I DO HEREBY FURTHER CERTIFY THAT THE EFFECTIVE DATE OF THE AFORESAID CERTIFICATE OF FORMATION IS THE SECOND DAY OF JULY, A.D. 2007.

Certified Copy

SECRETARY'S OFFICE DELAWARE

Jeffrey W. Bullock, Secretary of State

3840671 8100V

AUTHENTICATION: 7452789

090748079

DATE: 08-03-09

You may verify this certificate online at corp.delaware.gov/authver.shtml

State of Delaware
Secretary of State
Division of Corporations
Delivered 04:12 PM 06/29/2007
FILED 04:09 PM 06/29/2007
SRV 070769834 - 3840671 FILE

CERTIFICATE OF FORMATION

OF

WIX FILTRATION CORP LLC

1. The name of the limited liability company is Wix Filtration Corp LLC.

2. The address of its registered office in the State of Delaware is: Corporation Trust Center, 1209 Orange Street, in the City of Wilmington, Delaware 19801. The name of its registered agent at such address is The Corporation Trust Company.

3. This Certificate of Formation shall be effective on 7/2/2007.

IN WITNESS WHEREOF, the undersigned have executed this Certificate of Formation of Wix Filtration Corp LLC this 26 day of June, 2007.

John D. Carr
Authorized Person

Certified Copy

GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

WIX FILTRATION
1525 S. MARIETTA STREET
GASTONIA, NC 28054

TARGET PROPERTY COORDINATES

Latitude (North):	35.2407 - 35˚ 14' 26.52''
Longitude (West):	81.1904 - 81˚ 11' 25.44''
Universal Tranverse Mercator:	Zone 17
UTM X (Meters):	482676.3
UTM Y (Meters):	3899554.8
Elevation:	849 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	35081-B2 GASTONIA SOUTH, NC
Most Recent Revision:	1996
North Map:	35081-C2 GASTONIA NORTH, NC
Most Recent Revision:	2002

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principal investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

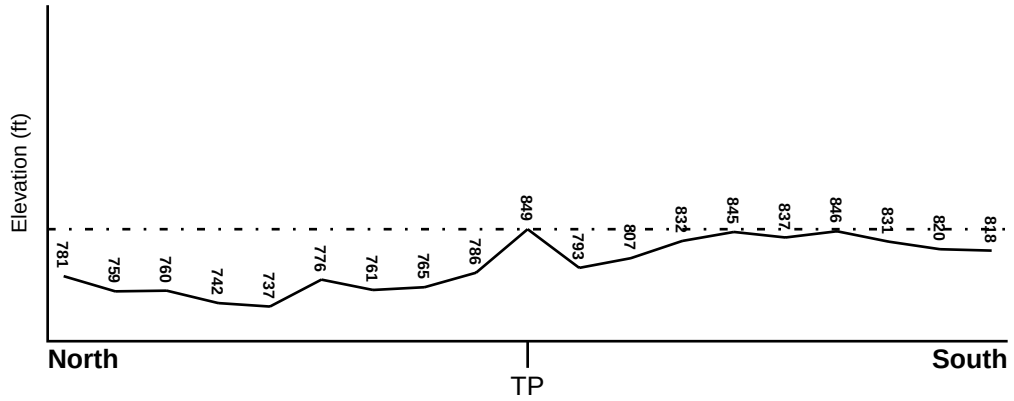
TOPOGRAPHIC INFORMATION

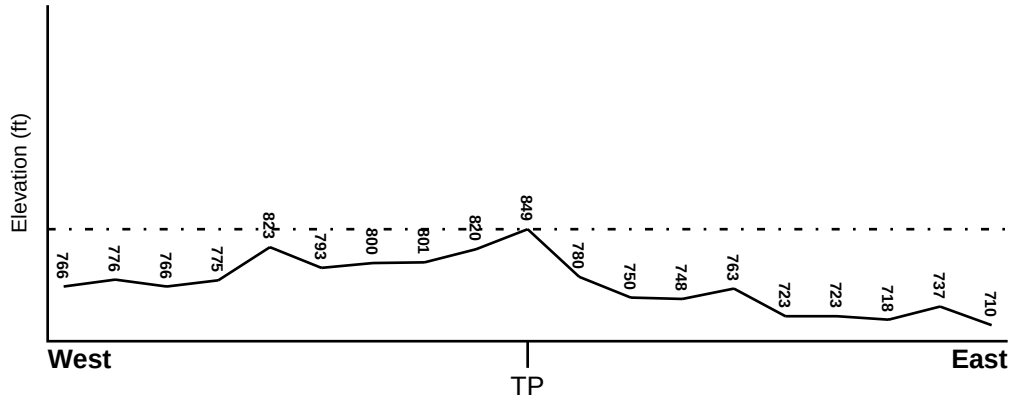
Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General NE

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES





Target Property Elevation: 849 ft.

0 1/2 1 Miles

Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Target Property County	FEMA Flood Electronic Data
GASTON, NC	YES - refer to the Overview Map and Detail Map

Flood Plain Panel at Target Property: 37071C - FEMA DFIRM Flood data

Additional Panels in search area: Not Reported

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
GASTONIA SOUTH	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

Era:	Paleozoic
System:	Pennsylvanian
Series:	Upper Paleozoic granitic rocks
Code:	Pzg3 *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Plutonic and Intrusive Rocks

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps. The following information is based on Soil Conservation Service STATSGO data.

Soil Component Name:	URBAN LAND
Soil Surface Texture:	variable
Hydrologic Group:	Not reported
Soil Drainage Class:	Not reported

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel:	Not Reported
Depth to Bedrock Min:	> 10 inches
Depth to Bedrock Max:	> 10 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification			
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	Permeability Rate (in/hr)	Soil Reaction (pH)
1	0 inches	6 inches	variable	Not reported	Not reported	Max: 0.00 Min: 0.00	Max: 0.00 Min: 0.00

OTHER SOIL TYPES IN AREA

Based on Soil Conservation Service STATSGO data, the following additional subordinant soil types may appear within the general area of target property.

Soil Surface Textures: sandy loam
fine sandy loam
loam

Surficial Soil Types: sandy loam
fine sandy loam
loam

Shallow Soil Types: clay loam
clay
sandy clay

Deeper Soil Types: sandy loam

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
1	USGS2281983	0 - 1/8 Mile SW
2	USGS2281982	0 - 1/8 Mile ESE

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
3	USGS2281987	1/4 - 1/2 Mile NE
4	USGS2281970	1/4 - 1/2 Mile SSW
5	USGS2281992	1/4 - 1/2 Mile NE
6	USGS2281991	1/4 - 1/2 Mile NE
7	USGS2282001	1/2 - 1 Mile NE
A9	USGS2479067	1/2 - 1 Mile SSW
A10	USGS2281961	1/2 - 1 Mile SSW
A11	USGS2281962	1/2 - 1 Mile SSW

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

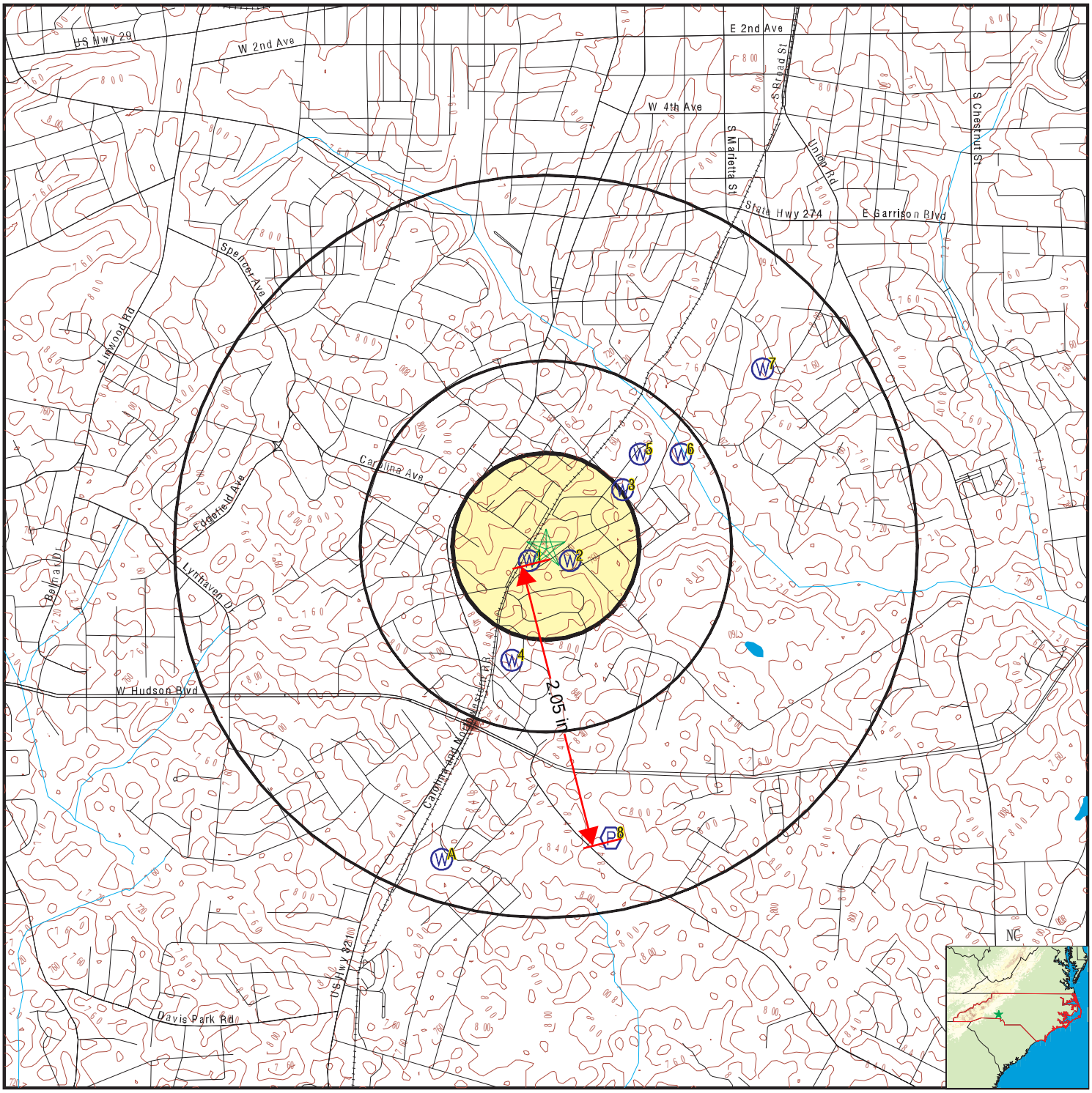
MAP ID	WELL ID	LOCATION FROM TP
8	NC0136696	1/2 - 1 Mile SSE

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No Wells Found		

PHYSICAL SETTING SOURCE MAP - 03358208.2r



County Boundary
Major Roads
Contour Lines
Earthquake epicenter, Richter 5 or greater
Water Wells
Public Water Supply Wells
Cluster of Multiple Icons

0 1/4 1/2 1 Miles

Groundwater Flow Direction
Indeterminate Groundwater Flow at Location
Groundwater Flow Varies at Location

2.64 in

Wildlife Areas
Natural Areas
Rare & Endangered Species

N

SITE NAME: Wix Filtration	CLIENT: WSP Environment & Energy
ADDRESS: 1525 S. Marietta Street Gastonia NC 28054	CONTACT: Frank Giles
LAT/LONG: 35.2407 / 81.1904	INQUIRY #: 03358208.2r
	DATE: July 03, 2012 1:08 pm

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Map ID Direction Distance Elevation	Database	EDR ID Number
1 **SW** **0 - 1/8 Mile** **Lower**	**FED USGS**	**USGS2281983**

Agency cd:	USGS	Site no:	351424081112901
Site name:	GS-176		
Latitude:	351424	EDR Site id:	USGS2281983
Longitude:	0811129	Dec lat:	35.24013777
Dec lon:	-81.19118922	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	37
State:	37	County:	071
Country:	US	Land net:	Not Reported
Location map:	Not Reported	Map scale:	Not Reported
Altitude:	Not Reported		
Altitude method:	Not Reported		
Altitude accuracy:	Not Reported		
Altitude datum:	Not Reported		
Hydrologic:	Not Reported		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	Not Reported
Date inventoried:	Not Reported	Mean greenwich time offset:	EST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	FELSIC METAIGNEOUS ROCK		
Well depth:	53.0	Hole depth:	Not Reported
Source of depth data:	reporting agency (generally USGS)		
Project number:	453709900		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1952-00-00	Ground water data end date:	1952-00-00
Ground water data count:	1		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1952	10	

2 **ESE** **0 - 1/8 Mile** **Lower**	**FED USGS**	**USGS2281982**

Agency cd:	USGS	Site no:	351424081112201
Site name:	GS-175		
Latitude:	351424	EDR Site id:	USGS2281982
Longitude:	0811122	Dec lat:	35.24013779
Dec lon:	-81.18924473	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	37
State:	37	County:	071
Country:	US	Land net:	Not Reported
Location map:	Not Reported	Map scale:	Not Reported
Altitude:	Not Reported		
Altitude method:	Not Reported		
Altitude accuracy:	Not Reported		
Altitude datum:	Not Reported		
Hydrologic:	Not Reported		
Topographic:	Upland draw		
Site type:	Ground-water other than Spring	Date construction:	Not Reported
Date inventoried:	Not Reported	Mean greenwich time offset:	EST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	FELSIC METAIGNEOUS ROCK		
Well depth:	185.0	Hole depth:	Not Reported
Source of depth data:	reporting agency (generally USGS)		
Project number:	453709900		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1952-00-00	Ground water data end date:	1952-00-00
Ground water data count:	1		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1952	15	

3
NE
1/4 - 1/2 Mile
Lower

FED USGS **USGS2281987**

Agency cd:	USGS	Site no:	351434081111301
Site name:	GS-173		
Latitude:	351434	EDR Site id:	USGS2281987
Longitude:	0811113	Dec lat:	35.2429156
Dec lon:	-81.18674473	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	37
State:	37	County:	071
Country:	US	Land net:	Not Reported
Location map:	Not Reported	Map scale:	Not Reported
Altitude:	Not Reported		
Altitude method:	Not Reported		
Altitude accuracy:	Not Reported		
Altitude datum:	Not Reported		
Hydrologic:	Not Reported		
Topographic:	Upland draw		
Site type:	Ground-water other than Spring	Date construction:	Not Reported
Date inventoried:	Not Reported	Mean greenwich time offset:	EST

Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	FELSIC METAIGNEOUS ROCK		
Well depth:	185.0	Hole depth:	Not Reported
Source of depth data:	reporting agency (generally USGS)		
Project number:	453709900		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1952-00-00	Ground water data end date:	1952-00-00
Ground water data count:	1		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1952	30	

4
SSW **FED USGS** **USGS2281970**
1/4 - 1/2 Mile
Lower

Agency cd:	USGS	Site no:	351410081113201
Site name:	GS-177		
Latitude:	351410	EDR Site id:	USGS2281970
Longitude:	0811132	Dec lat:	35.23624887
Dec lon:	-81.1920225	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	37
State:	37	County:	071
Country:	US	Land net:	Not Reported
Location map:	Not Reported	Map scale:	Not Reported
Altitude:	Not Reported		
Altitude method:	Not Reported		
Altitude accuracy:	Not Reported		
Altitude datum:	Not Reported		
Hydrologic:	Not Reported		
Topographic:	Flat surface		
Site type:	Ground-water other than Spring	Date construction:	Not Reported
Date inventoried:	Not Reported	Mean greenwich time offset:	EST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	FELSIC METAIGNEOUS ROCK		
Well depth:	135.0	Hole depth:	Not Reported
Source of depth data:	reporting agency (generally USGS)		
Project number:	453709900		
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported
Peak flow data count:	Not Reported	Water quality data begin date:	Not Reported
Water quality data end date:	Not Reported	Water quality data count:	Not Reported
Ground water data begin date:	Not Reported	Ground water data end date:	Not Reported
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

Map ID Direction Distance Elevation	Database	EDR ID Number
5 **NE** **1/4 - 1/2 Mile** **Lower**	**FED USGS**	**USGS2281992**

Agency cd:	USGS	Site no:	351439081111001
Site name:	GS-171		
Latitude:	351439	EDR Site id:	USGS2281992
Longitude:	0811110	Dec lat:	35.2443045
Dec lon:	-81.1859114	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	37
State:	37	County:	071
Country:	US	Land net:	Not Reported
Location map:	Not Reported	Map scale:	Not Reported
Altitude:	Not Reported		
Altitude method:	Not Reported		
Altitude accuracy:	Not Reported		
Altitude datum:	Not Reported		
Hydrologic:	Not Reported		
Topographic:	Upland draw		
Site type:	Ground-water other than Spring	Date construction:	Not Reported
Date inventoried:	Not Reported	Mean greenwich time offset:	EST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	FELSIC METAIGNEOUS ROCK		
Well depth:	135.0	Hole depth:	Not Reported
Source of depth data:	reporting agency (generally USGS)		
Project number:	453709900		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1952-00-00	Ground water data end date:	1952-00-00
Ground water data count:	1		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1952	30	

6 **NE** **1/4 - 1/2 Mile** **Lower**	**FED USGS**	**USGS2281991**

Agency cd:	USGS	Site no:	351439081110301
Site name:	GS-172		
Latitude:	351439	EDR Site id:	USGS2281991
Longitude:	0811103	Dec lat:	35.24430452
Dec lon:	-81.18396691	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	37
State:	37	County:	071
Country:	US	Land net:	Not Reported
Location map:	Not Reported	Map scale:	Not Reported
Altitude:	Not Reported		
Altitude method:	Not Reported		
Altitude accuracy:	Not Reported		
Altitude datum:	Not Reported		
Hydrologic:	Not Reported		
Topographic:	Upland draw		
Site type:	Ground-water other than Spring	Date construction:	Not Reported
Date inventoried:	Not Reported	Mean greenwich time offset:	EST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	FELSIC METAIGNEOUS ROCK		
Well depth:	185.0	Hole depth:	Not Reported
Source of depth data:	reporting agency (generally USGS)		
Project number:	453709900		
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported
Peak flow data count:	Not Reported	Water quality data begin date:	Not Reported
Water quality data end date:	Not Reported	Water quality data count:	Not Reported
Ground water data begin date:	Not Reported	Ground water data end date:	Not Reported
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

7
NE
1/2 - 1 Mile
Lower

FED USGS **USGS2282001**

Agency cd:	USGS	Site no:	351451081104901
Site name:	GS-170		
Latitude:	351451	EDR Site id:	USGS2282001
Longitude:	0811049	Dec lat:	35.2476379
Dec lon:	-81.18007799	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	37
State:	37	County:	071
Country:	US	Land net:	Not Reported
Location map:	Not Reported	Map scale:	Not Reported
Altitude:	Not Reported		
Altitude method:	Not Reported		
Altitude accuracy:	Not Reported		
Altitude datum:	Not Reported		
Hydrologic:	Not Reported		
Topographic:	Hillside (slope)		
Site type:	Ground-water other than Spring	Date construction:	Not Reported
Date inventoried:	Not Reported	Mean greenwich time offset:	EST

Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	FELSIC METAIGNEOUS ROCK		
Well depth:	120.0	Hole depth:	Not Reported
Source of depth data:	reporting agency (generally USGS)		
Project number:	453709900		
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported
Peak flow data count:	Not Reported	Water quality data begin date:	Not Reported
Water quality data end date:	Not Reported	Water quality data count:	Not Reported
Ground water data begin date:	Not Reported	Ground water data end date:	Not Reported
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

8
SSE **FRDS PWS** **NC0136696**
1/2 - 1 Mile
Lower

PWS ID:	NC0136696		
Date Initiated:	7706	Date Deactivated:	Not Reported
PWS Name:	SUNSET DRIVE IN GASTONIA, NC 28052		
Addressee / Facility:	System Owner/Responsible Party TROY ARMS OR MGR 1401 NEAL HAWKINS RD GASTONIA, NC 28052		
Addressee / Facility:	System Owner/Responsible Party F B GRIGG 1401 NEAL HAWKINS RD GASTONIA, NC 28052		
Facility Latitude:	35 13 45	Facility Longitude:	081 11 15
City Served:	GASTONIA		
Treatment Class:	Untreated	Population:	00000025

Violations information not reported.

A9
SSW **FED USGS** **USGS2479067**
1/2 - 1 Mile
Lower

Agency cd:	USGS	Site no:	351342081114403
Site name:	GS-180		
Latitude:	351342	EDR Site id:	USGS2479067
Longitude:	0811144	Dec lat:	35.22847104
Dec lon:	-81.19535575	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	37
State:	37	County:	071
Country:	US	Land net:	Not Reported
Location map:	Not Reported	Map scale:	Not Reported

Altitude:	Not Reported		
Altitude method:	Not Reported		
Altitude accuracy:	Not Reported		
Altitude datum:	Not Reported		
Hydrologic:	Not Reported		
Topographic:	Hilltop		
Site type:	Ground-water other than Spring	Date construction:	Not Reported
Date inventoried:	Not Reported	Mean greenwich time offset:	EST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	FELSIC METAIGNEOUS ROCK		
Well depth:	120.0	Hole depth:	Not Reported
Source of depth data:	reporting agency (generally USGS)		
Project number:	453709900		
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported
Peak flow data count:	Not Reported	Water quality data begin date:	Not Reported
Water quality data end date:	Not Reported	Water quality data count:	Not Reported
Ground water data begin date:	Not Reported	Ground water data end date:	Not Reported
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

A10
SSW
1/2 - 1 Mile
Lower

FED USGS **USGS2281961**

Agency cd:	USGS	Site no:	351342081114401
Site name:	GS-178		
Latitude:	351342	EDR Site id:	USGS2281961
Longitude:	0811144	Dec lat:	35.22847104
Dec lon:	-81.19535575	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	37
State:	37	County:	071
Country:	US	Land net:	Not Reported
Location map:	Not Reported	Map scale:	Not Reported
Altitude:	Not Reported		
Altitude method:	Not Reported		
Altitude accuracy:	Not Reported		
Altitude datum:	Not Reported		
Hydrologic:	Not Reported		
Topographic:	Flat surface		
Site type:	Ground-water other than Spring	Date construction:	Not Reported
Date inventoried:	Not Reported	Mean greenwich time offset:	EST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	FELSIC METAIGNEOUS ROCK		
Well depth:	110.0	Hole depth:	Not Reported
Source of depth data:	reporting agency (generally USGS)		
Project number:	453709900		
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported

Peak flow data count:	Not Reported	Water quality data begin date:	Not Reported
Water quality data end date:	Not Reported	Water quality data count:	Not Reported
Ground water data begin date:	Not Reported	Ground water data end date:	Not Reported
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

A11
SSW
1/2 - 1 Mile
Lower

FED USGS **USGS2281962**

Agency cd:	USGS	Site no:	351342081114402
Site name:	GS-179		
Latitude:	351342	EDR Site id:	USGS2281962
Longitude:	0811144	Dec lat:	35.22847104
Dec lon:	-81.19535575	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	37
State:	37	County:	071
Country:	US	Land net:	Not Reported
Location map:	Not Reported	Map scale:	Not Reported
Altitude:	Not Reported		
Altitude method:	Not Reported		
Altitude accuracy:	Not Reported		
Altitude datum:	Not Reported		
Hydrologic:	Not Reported		
Topographic:	Upland draw		
Site type:	Ground-water other than Spring	Date construction:	Not Reported
Date inventoried:	Not Reported	Mean greenwich time offset:	EST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	FELSIC METAIGNEOUS ROCK		
Well depth:	103.5	Hole depth:	Not Reported
Source of depth data:	reporting agency (generally USGS)		
Project number:	453709900		
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported
Peak flow data count:	Not Reported	Water quality data begin date:	Not Reported
Water quality data end date:	Not Reported	Water quality data count:	Not Reported
Ground water data begin date:	Not Reported	Ground water data end date:	Not Reported
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: NC Radon

Radon Test Results

Num Results	Avg pCi/L	Min pCi/L	Max pCi/L
2	2.00	1.5	2.5

Federal EPA Radon Zone for GASTON County: 2

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for Zip Code: 28054

Number of sites tested: 23

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.909 pCi/L	96%	4%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	2.960 pCi/L	80%	20%	0%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Scanned Digital USGS 7.5' Topographic Map (DRG)
Source: United States Geologic Survey
A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetlands Inventory
Source: Department of Environment & Natural Resources
Telephone: 919-733-2090

HYDROGEOLOGIC INFORMATION

AQUIFLOW[R] Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Services
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Services (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

North Carolina Public Water Supply Wells
Source: Department of Environmental Health
Telephone: 919-715-3243

OTHER STATE DATABASE INFORMATION

NC Natural Areas: Significant Natural Heritage Areas
Source: Center for Geographic Information and Analysis
Telephone: 919-733-2090
A polygon converage identifying sites (terrestrial or aquatic that have particular biodiversity significance. A site's significance may be due to the presenceof rare species, rare or hight quality natural communities, or other important ecological features.

NC Game Lands: Wildlife Resources Commission Game Lands
Source: Center for Geographic Information and Analysis
Telephone: 919-733-2090
All publicly owned game lands managed by the North Carolina Wildlife Resources Commission and as listed in Hunting and Fishing Maps.

NC Natural Heritage Sites: Natural Heritage Element Occurrence Sites
Source: Center for Geographic Information and Analysis
Telephone: 919-733-2090
A point coverage identifying locations of rare and endangered species, occurrences of exemplary or unique natural ecosystems (terrestrial or aquatic), and special animal habitats (e.g., colonial waterbird nesting sites).

RADON

State Database: NC Radon
Source: Department of Environment & Natural Resources
Telephone: 919-733-4984
Radon Statistical and Non Statiscal Data

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

STREET AND ADDRESS INFORMATION

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Appendix C – October 2012 Environmental Investigation

Boring Log: MW-1 (SB-4)

Project: Double Eagle - Dixon

Project No.: 32538

Location: Gastonia, North Carolina

Completion Date: 10/15/2012

Surface Elevation (feet AMSL*): 796.91

TOC Elevation (feet AMSL*): 796.83

Total Depth (feet): 40

Borehole Diameter (inches): 2

**AMSL = Above mean sea level*

Sample Data					Subsurface Profile		
Depth	Sample/Interval	PID/OVM (ppm)	Blow Count	% Recovery	Lithology	Description	Well Details
						Ground Surface	
						Asphalt.	
2		0		70		Topsoil, brown (10 YR 4/7), silt; firm; moist.	
4						***Silt (ML)*** Clayey silt, light brown (2.5 YR 6/4); firm; moist.	
6						***Silt (ML)*** Clayey silt, tan (2.5 YR 5/6), some fine-and medium-grained sand; firm; moist.	
8		0		100			
10							
12		0		100			
14							
16						***Silt (ML)*** Clayey silt, tan (2.5 YR 5/6); firm; friable; moist.	
18		0		100			
20							

Geologist(s): Michael J. Gelles

Subcontractor: Geo Lab

Driller/Operator: Robert Sullivan

Method: Direct Push

WSP Environment & Energy, LLC

11190 Sunrise Valley Drive, Suite 300

Reston, Virginia

(703) 706-6500

Boring Log: MW-1 (SB-4)

Project: Double Eagle - Dixon

Project No.: 32538

Location: Gastonia, North Carolina

Completion Date: 10/15/2012

Surface Elevation (feet AMSL*): 796.91

TOC Elevation (feet AMSL*): 796.83

Total Depth (feet): 40

Borehole Diameter (inches): 2

**AMSL = Above mean sea level*

Sample Data					Subsurface Profile		
Depth	Sample/Interval	PID/OVM (ppm)	Blow Count	% Recovery	Lithology	Description	Well Details
22–24		0		80		***Silt (ML)*** Clayey silt, tan (2.5 YR 5/6), weathered saprolite, some fine-and medium-grained sand; friable; moist to wet at 35.5 feet.	
26–28		0		100			
30–32		0		100			
34–36		0		100			
38–40							

Bottom of Boring at 40 feet

Geologist(s): Michael J. Gelles

Subcontractor: Geo Lab

Driller/Operator: Robert Sullivan

Method: Direct Push

WSP Environment & Energy, LLC
11190 Sunrise Valley Drive, Suite 300
Reston, Virginia
(703) 706-6500

Boring Log: MW-2 (SB-5)

Project: Double Eagle - Dixon

Project No.: 32538

Location: Gastonia, North Carolina

Completion Date: 10/16/2012

Surface Elevation (feet AMSL*): 793.06

TOC Elevation (feet AMSL*): 792.87

Total Depth (feet): 25

Borehole Diameter (inches): 2

**AMSL = Above mean sea level*

Sample Data					Subsurface Profile		
Depth	Sample/Interval	PID/OVM (ppm)	Blow Count	% Recovery	Lithology	Description	Well Details
						Ground Surface	
2, 4		0		60		Asphalt. ***Poorly-Graded Gravel (GP)*** Gravel. ***Silt (ML)*** Clayey silt, orangish brown (5 YR 6/8), weathered saprolite; friable; moist.	
6, 8		0		60			
10, 12, 14		0		80		***Silt (ML)*** Clayey silt, tan (2.5 YR 5/6), weathered saprolite; friable; moist to wet at 18 feet.	
16, 18, 20		0		80			

Geologist(s): Michael J. Gelles

Subcontractor: Geo Lab

Driller/Operator: Robert Sullivan

Method: Direct Push

WSP Environment & Energy, LLC
11190 Sunrise Valley Drive, Suite 300
Reston, Virginia
(703) 706-6500

Boring Log: MW-2 (SB-5)

Project: Double Eagle - Dixon

Project No.: 32538

Location: Gastonia, North Carolina

Completion Date: 10/16/2012

Surface Elevation (feet AMSL*): 793.06

TOC Elevation (feet AMSL*): 792.87

Total Depth (feet): 25

Borehole Diameter (inches): 2

**AMSL = Above mean sea level*

Sample Data					Subsurface Profile		
Depth	**Sample/Interval**	**PID/OVM (ppm)**	**Blow Count**	**% Recovery**	**Lithology**	**Description**	**Well Details**
22 24		0		90		***Silt (ML)*** Clayey silt, tan (2.5 YR 5/6), weathered saprolite; friable; moist to wet at 18 feet. *(continued)*	
26 28 30 32 34 36 38 40						Bottom of Boring at 25 feet	

Geologist(s): Michael J. Gelles
Subcontractor: Geo Lab
Driller/Operator: Robert Sullivan
Method: Direct Push

WSP Environment & Energy, LLC
11190 Sunrise Valley Drive, Suite 300
Reston, Virginia
(703) 706-6500

Boring Log: MW-3 (SB-6)

Project: Double Eagle - Dixon

Project No.: 32538

Location: Gastonia, North Carolina

Completion Date: 10/15/2012

Surface Elevation (feet AMSL*): 800.00

TOC Elevation (feet AMSL*): 799.85

Total Depth (feet): 58

Borehole Diameter (inches): 2

**AMSL = Above mean sea level*

Sample Data					Subsurface Profile		
Depth	Sample/Interval	PID/OVM (ppm)	Blow Count	% Recovery	Lithology	Description	Well Details
						Ground Surface	
						Asphalt.	
2		0		60		***Poorly-Graded Gravel (GP)*** Gravel.	
4						***Silt (ML)*** Clayey silt, orangish red (5 YR 5/8); firm; moist.	
						Poorly-Graded Gravel with Silt and Sand (GP-GM) Weathered saprolite, light gray (10 YR 7/1); loose; moist.	
6						***Silt (ML)*** Clayey silt, orangish red (5 YR 5/8); firm; moist.	
8		0		60		***Poorly-Graded Gravel with Silt and Sand (GP-GM)*** Weathered saprolite, tan (2.5 YR 5/6); loose; moist.	
10						***Poorly-Graded Gravel with Silt and Sand (GP-GM)*** Weathered saprolite, white (7.5 YR 8/1); loose; moist.	
12		0		60			
14						***Silt (ML)*** Clayey silt, tan (2.5 YR 5/6), weathered saprolite, mica; loose; moist.	
16							
18		0		70			
20							

Geologist(s): Michael J. Gelles

Subcontractor: Geo Lab

Driller/Operator: Robert Sullivan

Method: Direct Push

WSP Environment & Energy, LLC
11190 Sunrise Valley Drive, Suite 300
Reston, Virginia
(703) 706-6500

Boring Log: MW-3 (SB-6)

Project: Double Eagle - Dixon

Project No.: 32538

Location: Gastonia, North Carolina

Completion Date: 10/15/2012

Surface Elevation (feet AMSL*): 800.00

TOC Elevation (feet AMSL*): 799.85

Total Depth (feet): 58

Borehole Diameter (inches): 2

**AMSL = Above mean sea level*

Sample Data					Subsurface Profile		
Depth	Sample/Interval	PID/OVM (ppm)	Blow Count	% Recovery	Lithology	Description	Well Details
22 24		0		75		***Silt (ML)*** Clayey silt, tan (2.5 YR 5/6), weathered saprolite, mica; loose; moist. *(continued)*	
26 28 30		0		75		***Silt (ML)*** Clayey silt, yellow brown (10 YR 6/6), weathered saprolite, mica; loose; friable; moist.	
32 34		0		90			
36 38 40		0		90		***Silt (ML)*** Clayey silt, tan (2.5 YR 5/6), weathered saprolite, mica; loose; friable; moist to wet at 53. Refusal on weathered gneiss.	

Geologist(s): Michael J. Gelles

Subcontractor: Geo Lab

Driller/Operator: Robert Sullivan

Method: Direct Push

WSP Environment & Energy, LLC
11190 Sunrise Valley Drive, Suite 300
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TOC Elevation (feet AMSL*): 799.85

Total Depth (feet): 58

Borehole Diameter (inches): 2

**AMSL = Above mean sea level*

Sample Data					Subsurface Profile		
Depth	Sample/Interval	PID/OVM (ppm)	Blow Count	% Recovery	Lithology	Description	Well Details
42–44		0		90		***Silt (ML)*** Clayey silt, tan (2.5 YR 5/6), weathered saprolite, mica; loose; friable; moist to wet at 53. Refusal on weathered gneiss. *(continued)*	
46–48		0		85			
50–52		0		80			
54–56		0		70			
58–60						Bottom of Boring at 58 feet	

Geologist(s): Michael J. Gelles

Subcontractor: Geo Lab

Driller/Operator: Robert Sullivan

Method: Direct Push

WSP Environment & Energy, LLC
11190 Sunrise Valley Drive, Suite 300
Reston, Virginia
(703) 706-6500

Boring Log: MW-4 (SB-7)

Project: Double Eagle - Dixon

Project No.: 32538

Location: Gastonia, North Carolina

Completion Date: 10/16/2012

Surface Elevation (feet AMSL*): 786.92

TOC Elevation (feet AMSL*): 786.92

Total Depth (feet): 40

Borehole Diameter (inches): 2

**AMSL = Above mean sea level*

Sample Data					Subsurface Profile		
Depth	Sample/Interval	PID/OVM (ppm)	Blow Count	% Recovery	Lithology	Description	Well Details
						Ground Surface	
						Asphalt.	
2		0		50		***Silt (ML)*** Clayey silt, orangish brown (5 YR 6/8), weathered saprolite, mica; friable; moist.	
4							
6		0		75			
8							
10		0		65		***Silt (ML)*** Clayey silt, light gray (10 YR 7/1), fine- and medium-grained sand, weathered saprolite, mica; friable; moist.	
12							
14							
16		0		100			
18							
20							

Geologist(s): Michael J. Gelles

Subcontractor: Geo Lab

Driller/Operator: Robert Sullivan

Method: Direct Push

WSP Environment & Energy, LLC
11190 Sunrise Valley Drive, Suite 300
Reston, Virginia
(703) 706-6500

Boring Log: MW-4 (SB-7)

Project: Double Eagle - Dixon

Project No.: 32538

Location: Gastonia, North Carolina

Completion Date: 10/16/2012

Surface Elevation (feet AMSL*): 786.92

TOC Elevation (feet AMSL*): 786.92

Total Depth (feet): 40

Borehole Diameter (inches): 2

**AMSL = Above mean sea level*

Sample Data					Subsurface Profile		
Depth	Sample/Interval	PID/OVM (ppm)	Blow Count	% Recovery	Lithology	Description	Well Details
22–24		0		80		***Silt (ML)*** Clayey silt, light gray (10 YR 7/1), fine- and medium-grained sand, weathered saprolite, mica; friable; moist. *(continued)*	
26–28		0		80		***Silt (ML)*** Clayey silt, light brown gray (2.5 YR 6/4), fine- and medium-grained sand, weathered saprolite, mica; friable; moist to wet at 35 feet.	
30–32		0		65			
36–38		0		10			
40							

Bottom of Boring at 40 feet

Geologist(s): Michael J. Gelles

Subcontractor: Geo Lab

Driller/Operator: Robert Sullivan

Method: Direct Push

WSP Environment & Energy, LLC
11190 Sunrise Valley Drive, Suite 300
Reston, Virginia
(703) 706-6500

Boring Log: SB-1

Project: Double Eagle - Dixon

Project No.: 32538

Location: Gastonia, North Carolina

Completion Date: 10/15/2012

Surface Elevation (feet AMSL*): Not Determir

Total Depth (feet): 10

Borehole Diameter (inches): 2

**AMSL = Above mean sea level*

Sample Data					Subsurface Profile	
Depth	**Sample/Interval**	**PID/OVM (ppm)**	**Blow Count**	**% Recovery**	**Lithology**	**Description**
						Ground Surface
						Concrete.
2		0		60		***Lean Clay (CL)*** Silty Clay, brown (10 YR 4/7), gravel; loose; dry.
4						
6		0		100		
8						***Silt (ML)*** Silty Clay, brown (10 YR 4/7), wood; friable; moist.
10						Bottom of Boring at 10 feet
12						
14						
16						
18						
20						

Geologist(s): Michael J. Gelles
Subcontractor: Geo Lab
Driller/Operator: Robert Sullivan
Method: Direct Push

WSP Environment & Energy, LLC
11190 Sunrise Valley Drive, Suite 300
Reston, Virginia
(703) 706-6500

Boring Log: SB-2

Project: Double Eagle - Dixon

Project No.: 32538

Location: Gastonia, North Carolina

Completion Date: 10/16/2012

Surface Elevation (feet AMSL*): Not Determir

Total Depth (feet): 15

Borehole Diameter (inches): 2

**AMSL = Above mean sea level*

Sample Data					Subsurface Profile	
Depth	**Sample/Interval**	**PID/OVM (ppm)**	**Blow Count**	**% Recovery**	**Lithology**	**Description**
						Ground Surface
						Asphalt.
2		0		80		***Silt (ML)*** Silty Clay, brown (10 YR 4/7), gravel; soft; moist.
4						
6		0		95		***Silt (ML)*** Silty Clay, brown (10 YR 4/7); firm; moist.
8						
10		0		90		***Silt (ML)*** Silty Clay, brown (10 YR 4/7), weathered saprolite; firm; moist.
12						
14						
16						Bottom of Boring at 15 feet
18						
20						

Geologist(s): Michael J. Gelles
Subcontractor: Geo Lab
Driller/Operator: Robert Sullivan
Method: Direct Push

WSP Environment & Energy, LLC
11190 Sunrise Valley Drive, Suite 300
Reston, Virginia
(703) 706-6500

Boring Log: SB-3

Project: Double Eagle - Dixon

Project No.: 32538

Location: Gastonia, North Carolina

Completion Date: 10/16/2012

Surface Elevation (feet AMSL*): Not Determir

Total Depth (feet): 17

Borehole Diameter (inches): 2

**AMSL = Above mean sea level*

Sample Data					Subsurface Profile	
Depth	**Sample/Interval**	**PID/OVM (ppm)**	**Blow Count**	**% Recovery**	**Lithology**	**Description**
						Ground Surface
						Asphalt.
2		0		60		***Silt (ML)*** Silty Clay, brown (10 YR 4/7), gravel; soft; moist.
4						
6		0		70		***Silt (ML)*** Silty Clay, brown (10 YR 4/7); firm; moist.
8						
10		0		50		
12						
14						
16		0		100		***Poorly-Graded Gravel with Silt and Sand (GP-GM)*** Weathered saprolite, light gray (10 YR 7/1); loose, dry. Refusal at 17 feet.
18						Bottom of Boring at 17 feet
20						

Geologist(s): Michael J. Gelles
Subcontractor: Geo Lab
Driller/Operator: Robert Sullivan
Method: Direct Push

WSP Environment & Energy, LLC
11190 Sunrise Valley Drive, Suite 300
Reston, Virginia
(703) 706-6500

GASTON COUNTY HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH DIVISION
991 W. HUDSON BLVD., GASTONIA, N.C. 28052
704-853-5200

Permit Void After 60 Months

WELL INSTALLATION OR REPAIR PERMIT

PERMIT 11774

TO BE FILLED IN BY APPLICANT:

Owner or Builder WSP Environmental Energy **Date:** 10/12/12

Mailing Address: 750 Holiday Dr Suite 4101 **Phone:(H)** (412) 6041040 **(W)** (412) 2169856

Lot Area _____ **Subdivision/Park** Pittsburgh, Pa 15220 **Lot #** _____ **Block #** _____

PROPERTY LOCATION 1525 South Mirriella (Lix) Affinia Epic Hartley Gastonia, N.C.

Signature of applicant or authorized agent

Type _____ **Size** _____ **Depth** _____ **Casing Depth** _____

Grout _____ **Level** _____

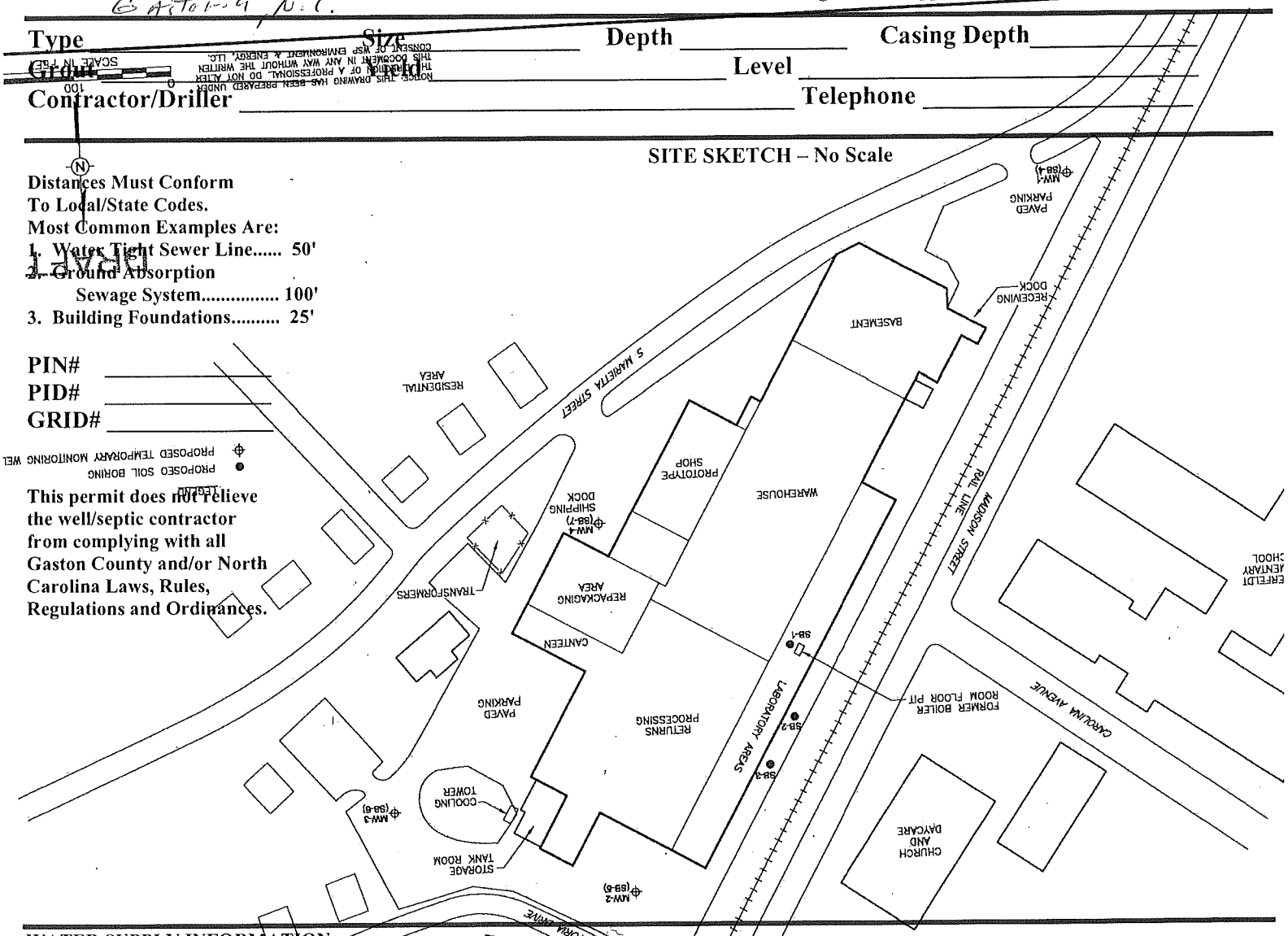
Contractor/Driller _____ **Telephone** _____

Distances Must Conform To Local/State Codes.
Most Common Examples Are:
1. Water Tight Sewer Line..... 50'
2. Ground Absorption Sewage System..... 100'
3. Building Foundations..... 25'

PIN# _____
PID# _____
GRID# _____

This permit does not relieve the well/septic contractor from complying with all Gaston County and/or North Carolina Laws, Rules, Regulations and Ordinances.

SITE SKETCH – No Scale



WATER SUPPLY INFORMATION:
Well location, installation and protection must meet state and local regulations, and must be inspected and approved by a representative of the Gaston County Health Department before any portion of the installation is put into use.

The siting of the well by the Health Department staff is to provide protection from KNOWN possible sources of contamination. No quantity and/or quality of water is guaranteed at any site by the Health Department.

After the well is in service, contact the Gaston County Environmental Health Section (704-853-5200) for a bacteriological and inorganic water sample.

DATE ISSUED 10/12/12 **EHS** _____
DATE APPROVED 10/12/12 **EHS** _____
FEE PAID $ 85 **DATE** 10 **RECEIPT #** _____ **IP#** N/A
DATE BACTERIOLOGICAL SAMPLE TAKEN N/A **DATE OF RESULTS** N/A **RESULTS** N/A
DATE INORGANIC SAMPLE TAKEN N/A **DATE RESULTS MAILED** N/A

Original White: Health Department **Pink: Inspection Dept.** **Yellow: Applicant Copy**

Enclosure B

Taylor Wiseman & Taylor
ENGINEERS / SURVEYORS / SCIENTISTS
700 Forest Point Circle, Suite 116, Charlotte, NC 28273
704-527-2535 phone 704-527-2537 fax
www.taylorwiseman.com

SITE NAME
Monitoring Well Survey

Surveyed by: Taylor Wiseman & Taylor
Project #: 03624.5011.00
Date of Survey: October 30, 2012
Horizontal Datum: NAD83 (NSRS 2011)
Vertical Datum: NAVD88 (Geoid 12)
Units: US Survey Feet

Site Location: 1525 S. Marietta Street, Gastonia, NC

CONTROL LINE

CONTROL	NORTHING	EASTING	ELEVATION
100	549538.447	1346117.822	786.48
101	550008.880	1346348.515	802.64

WELL TABLE

WELL ID	NORTHING	EASTING	TOP OF CASE ELEVATION	GROUND ELEVATION
MW-1	549395.160	1345639.369	796.83	796.91
MW-3	550016.593	1346393.523	799.85	800.00
MW-2	550124.177	1346135.325	792.87	793.06
MW-4	549524.913	1345975.323	786.92	786.92

Survey Notes:
All coordinates shown hereon are based upon the North Carolina State Plane Coordinate System, NAD83 (NSRS 2011), with NAVD88 (Geoid 12) elevations, per a GPS survey performed by Taylor Wiseman & Taylor on October 30, 2012. The two control points shown hereon were established utilizing global positioning systems (GPS) in conjunction with the North Carolina Geodetic Survey's Virtual Reference System (VRS), which is based upon the Continually Operating Reference Stations (CORS). A Trimble R8 receiver was utilized for the GPS survey. All wells were surveyed conventionally off of the control line with a Trimble S6 robotic total station. All coordinates are grid coordinates. The combined factor for the project is 0.99983959.

Survey Certification:
I, James M. Pearsall, hereby certify that the coordinates shown above are accurate to best of my knowledge, information and belief. Witness my seal and signature this 31st day of October, 2012 AD.

NORTH CAROLINA PROFESSIONAL SEAL L-4650 LAND SURVEYOR JAMES M. PEARSALL

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

October 25, 2012

Ms. Erin Huntley
WSP Environmental Strategies
750 Holiday Drive
Suite 410
Pittsburgh, PA 15220

RE: Project: 32538-5 DOUBLE EAGLE-DIXON
Pace Project No.: 92135391

Dear Ms. Huntley:
Enclosed are the analytical results for sample(s) received by the laboratory on October 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.

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

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

Sincerely,

Kevin Godwin

kevin.godwin@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: 32538-5 DOUBLE EAGLE-DIXON
Pace Project No.: 92135391

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

Asheville Certification IDs
2225 Riverside Dr., Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
West Virginia Certification #: 356
Virginia/VELAP Certification #: 460222

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

SAMPLE SUMMARY

Project: 32538-5 DOUBLE EAGLE-DIXON
Pace Project No.: 92135391

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92135391001	**SB-4-33.5-35.5**	Solid	10/15/12 11:45	10/16/12 15:15
92135391002	**SB-6-51-53**	Solid	10/15/12 14:55	10/16/12 15:15
92135391003	**SB-5-15-17**	Solid	10/16/12 11:00	10/16/12 15:15
92135391004	**SB-102-15-17**	Solid	10/16/12 11:10	10/16/12 15:15
92135391005	**SB-1-6-8**	Solid	10/15/12 18:15	10/16/12 15:15
92135391006	**SB-1-8-10**	Solid	10/15/12 18:20	10/16/12 15:15
92135391007	**SB-100-8-10**	Solid	10/15/12 18:25	10/16/12 15:15
92135391008	**SB-3-15-17**	Solid	10/16/12 09:00	10/16/12 15:15
92135391009	**SB-101-15-17**	Solid	10/16/12 09:10	10/16/12 15:15
92135391010	**SB-2-10-12**	Solid	10/16/12 09:50	10/16/12 15:15
92135391011	**TB 101512-1**	Solid	10/15/12 11:00	10/16/12 15:15

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SAMPLE ANALYTE COUNT

Project: 32538-5 DOUBLE EAGLE-DIXON
Pace Project No.: 92135391

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92135391001	**SB-4-33.5-35.5**	EPA 6010	JDA	7	PASI-A
		EPA 7471	SH1	1	PASI-A
		EPA 8270	PPM	21	PASI-C
		EPA 8260	DLK	71	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92135391002	**SB-6-51-53**	EPA 6010	JDA	7	PASI-A
		EPA 7471	SH1	1	PASI-A
		EPA 8270	PPM	21	PASI-C
		EPA 8260	DLK	71	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92135391003	**SB-5-15-17**	EPA 6010	JDA	7	PASI-A
		EPA 7471	SH1	1	PASI-A
		EPA 8270	PPM	21	PASI-C
		EPA 8260	DLK	71	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92135391004	**SB-102-15-17**	EPA 6010	JDA	7	PASI-A
		EPA 7471	SH1	1	PASI-A
		EPA 8270	PPM	21	PASI-C
		EPA 8260	DLK	71	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92135391005	**SB-1-6-8**	EPA 8082	MEJ	8	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92135391006	**SB-1-8-10**	EPA 8082	MEJ	8	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92135391007	**SB-100-8-10**	EPA 8082	MEJ	8	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92135391008	**SB-3-15-17**	EPA 8015 Modified	MEJ	2	PASI-C
		EPA 8015 Modified	RGF	2	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92135391009	**SB-101-15-17**	EPA 8015 Modified	MEJ	2	PASI-C
		EPA 8015 Modified	RGF	2	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92135391010	**SB-2-10-12**	EPA 8015 Modified	MEJ	2	PASI-C
		EPA 8015 Modified	RGF	2	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92135391011	**TB 101512-1**	EPA 8260	DLK	71	PASI-C

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PROJECT NARRATIVE

Project: 32538-5 DOUBLE EAGLE-DIXON
Pace Project No.: 92135391

Method: **EPA 8015 Modified**
Description: 8015 GCS THC-Diesel
Client: WSP Environmental Strategies
Date: October 25, 2012

General Information:
3 samples were analyzed for EPA 8015 Modified. All samples were received in acceptable condition with any exceptions noted below.

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

Sample Preparation:
The samples were prepared in accordance with EPA 3546 with any exceptions noted below.

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

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

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

QC Batch: OEXT/19341

S0: Surrogate recovery outside laboratory control limits.

- MSD (Lab ID: 854344)
  - n-Pentacosane (S)

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

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

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

QC Batch: OEXT/19341

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92135424008

M3: Matrix spike recovery was outside laboratory control limits due to matrix interferences.

- MSD (Lab ID: 854344)
  - Diesel Components

R2: RPD value was outside control limits due to matrix interference

- MSD (Lab ID: 854344)
  - Diesel Components

Additional Comments:

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(704)875-9092

PROJECT NARRATIVE

Project: 32538-5 DOUBLE EAGLE-DIXON
Pace Project No.: 92135391

Method: **EPA 8015 Modified**
Description: 8015 GCS THC-Diesel
Client: WSP Environmental Strategies
Date: October 25, 2012

Analyte Comments:

QC Batch: OEXT/19341

- MSD (Lab ID: 854344)
  - n-Pentacosane (S)

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

PROJECT NARRATIVE

Project: 32538-5 DOUBLE EAGLE-DIXON
Pace Project No.: 92135391

Method: **EPA 8082**
Description: 8082 GCS PCB
Client: WSP Environmental Strategies
Date: October 25, 2012

General Information:
3 samples were analyzed for EPA 8082. All samples were received in acceptable condition with any exceptions noted below.

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

Sample Preparation:
The samples were prepared in accordance with EPA 3546 with any exceptions noted below.

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

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

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

QC Batch: OEXT/19355

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

- SB-100-8-10 (Lab ID: 92135391007)
  - Decachlorobiphenyl (S)

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

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

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

QC Batch: OEXT/19355

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92135391005

M3: Matrix spike recovery was outside laboratory control limits due to matrix interferences.

- MSD (Lab ID: 854902)
  - PCB-1260 (Aroclor 1260)

Additional Comments:

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PROJECT NARRATIVE

Project: 32538-5 DOUBLE EAGLE-DIXON
Pace Project No.: 92135391

Method: **EPA 8015 Modified**
Description: Gasoline Range Organics
Client: WSP Environmental Strategies
Date: October 25, 2012

General Information:
3 samples were analyzed for EPA 8015 Modified. All samples were received in acceptable condition with any exceptions noted below.

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

Sample Preparation:
The samples were prepared in accordance with EPA 5035A/5030B with any exceptions noted below.

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

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

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

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

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

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

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

Additional Comments:

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PROJECT NARRATIVE

Project: 32538-5 DOUBLE EAGLE-DIXON
Pace Project No.: 92135391

Method: **EPA 6010**
Description: 6010 MET ICP
Client: WSP Environmental Strategies
Date: October 25, 2012

General Information:
4 samples were analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below.

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

Sample Preparation:
The samples were prepared in accordance with EPA 3050 with any exceptions noted below.

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

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

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

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

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

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

QC Batch: MPRP/11765

D6: The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.

- DUP (Lab ID: 856389)
  - Arsenic

Additional Comments:

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PROJECT NARRATIVE

Project: 32538-5 DOUBLE EAGLE-DIXON
Pace Project No.: 92135391

Method: **EPA 7471**
Description: 7471 Mercury
Client: WSP Environmental Strategies
Date: October 25, 2012

General Information:
4 samples were analyzed for EPA 7471. All samples were received in acceptable condition with any exceptions noted below.

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

Sample Preparation:
The samples were prepared in accordance with EPA 7471 with any exceptions noted below.

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

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

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

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

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

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

Additional Comments:

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PROJECT NARRATIVE

Project: 32538-5 DOUBLE EAGLE-DIXON
Pace Project No.: 92135391

Method: **EPA 8270**
Description: 8270 MSSV PAH Microwave
Client: WSP Environmental Strategies
Date: October 25, 2012

General Information:
4 samples were analyzed for EPA 8270. All samples were received in acceptable condition with any exceptions noted below.

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

Sample Preparation:
The samples were prepared in accordance with EPA 3546 with any exceptions noted below.

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

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

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

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

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

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

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

Additional Comments:

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PROJECT NARRATIVE

Project: 32538-5 DOUBLE EAGLE-DIXON
Pace Project No.: 92135391

Method: **EPA 8260**
Description: 8260/5035A Volatile Organics
Client: WSP Environmental Strategies
Date: October 25, 2012

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

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

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

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

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

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

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

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

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

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

Additional Comments:

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

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ANALYTICAL RESULTS

Project: 32538-5 DOUBLE EAGLE-DIXON
Pace Project No.: 92135391

Sample: SB-4-33.5-35.5 **Lab ID: 92135391001** Collected: 10/15/12 11:45 Received: 10/16/12 15:15 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	**1.7**	mg/kg	0.61	1	10/19/12 12:15	10/20/12 09:22	7440-38-2	
Barium	**47.2**	mg/kg	0.61	1	10/19/12 12:15	10/20/12 09:22	7440-39-3	
Cadmium	ND	mg/kg	0.12	1	10/19/12 12:15	10/20/12 09:22	7440-43-9	
Chromium	**1.4**	mg/kg	0.61	1	10/19/12 12:15	10/20/12 09:22	7440-47-3	
Lead	**9.7**	mg/kg	0.61	1	10/19/12 12:15	10/20/12 09:22	7439-92-1	
Selenium	**1.6**	mg/kg	1.2	1	10/19/12 12:15	10/20/12 09:22	7782-49-2	
Silver	ND	mg/kg	0.61	1	10/19/12 12:15	10/20/12 09:22	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	ND	mg/kg	0.0059	1	10/24/12 11:40	10/24/12 13:42	7439-97-6	
8270 MSSV PAH Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	426	1	10/17/12 09:20	10/20/12 15:00	83-32-9	
Acenaphthylene	ND	ug/kg	426	1	10/17/12 09:20	10/20/12 15:00	208-96-8	
Anthracene	ND	ug/kg	426	1	10/17/12 09:20	10/20/12 15:00	120-12-7	
Benzo(a)anthracene	ND	ug/kg	426	1	10/17/12 09:20	10/20/12 15:00	56-55-3	
Benzo(a)pyrene	ND	ug/kg	426	1	10/17/12 09:20	10/20/12 15:00	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	426	1	10/17/12 09:20	10/20/12 15:00	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	426	1	10/17/12 09:20	10/20/12 15:00	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	426	1	10/17/12 09:20	10/20/12 15:00	207-08-9	
Chrysene	ND	ug/kg	426	1	10/17/12 09:20	10/20/12 15:00	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	426	1	10/17/12 09:20	10/20/12 15:00	53-70-3	
Fluoranthene	ND	ug/kg	426	1	10/17/12 09:20	10/20/12 15:00	206-44-0	
Fluorene	ND	ug/kg	426	1	10/17/12 09:20	10/20/12 15:00	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	426	1	10/17/12 09:20	10/20/12 15:00	193-39-5	
1-Methylnaphthalene	ND	ug/kg	426	1	10/17/12 09:20	10/20/12 15:00	90-12-0	
2-Methylnaphthalene	ND	ug/kg	426	1	10/17/12 09:20	10/20/12 15:00	91-57-6	
Naphthalene	ND	ug/kg	426	1	10/17/12 09:20	10/20/12 15:00	91-20-3	
Phenanthrene	ND	ug/kg	426	1	10/17/12 09:20	10/20/12 15:00	85-01-8	
Pyrene	ND	ug/kg	426	1	10/17/12 09:20	10/20/12 15:00	129-00-0	
Surrogates								
Nitrobenzene-d5 (S)	65	%	23-110	1	10/17/12 09:20	10/20/12 15:00	4165-60-0	
2-Fluorobiphenyl (S)	58	%	30-110	1	10/17/12 09:20	10/20/12 15:00	321-60-8	
Terphenyl-d14 (S)	49	%	28-110	1	10/17/12 09:20	10/20/12 15:00	1718-51-0	
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	105	1		10/23/12 20:46	67-64-1	
Benzene	ND	ug/kg	5.3	1		10/23/12 20:46	71-43-2	
Bromobenzene	ND	ug/kg	5.3	1		10/23/12 20:46	108-86-1	
Bromochloromethane	ND	ug/kg	5.3	1		10/23/12 20:46	74-97-5	
Bromodichloromethane	ND	ug/kg	5.3	1		10/23/12 20:46	75-27-4	
Bromoform	ND	ug/kg	5.3	1		10/23/12 20:46	75-25-2	
Bromomethane	ND	ug/kg	10.5	1		10/23/12 20:46	74-83-9	
2-Butanone (MEK)	ND	ug/kg	105	1		10/23/12 20:46	78-93-3	
n-Butylbenzene	ND	ug/kg	5.3	1		10/23/12 20:46	104-51-8	

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ANALYTICAL RESULTS

Project: 32538-5 DOUBLE EAGLE-DIXON
Pace Project No.: 92135391

Sample: SB-4-33.5-35.5 **Lab ID: 92135391001** Collected: 10/15/12 11:45 Received: 10/16/12 15:15 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	5.3	1		10/23/12 20:46	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.3	1		10/23/12 20:46	98-06-6	
Carbon tetrachloride	ND	ug/kg	5.3	1		10/23/12 20:46	56-23-5	
Chlorobenzene	ND	ug/kg	5.3	1		10/23/12 20:46	108-90-7	
Chloroethane	ND	ug/kg	10.5	1		10/23/12 20:46	75-00-3	
Chloroform	ND	ug/kg	5.3	1		10/23/12 20:46	67-66-3	
Chloromethane	ND	ug/kg	10.5	1		10/23/12 20:46	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.3	1		10/23/12 20:46	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.3	1		10/23/12 20:46	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	5.3	1		10/23/12 20:46	96-12-8	
Dibromochloromethane	ND	ug/kg	5.3	1		10/23/12 20:46	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.3	1		10/23/12 20:46	106-93-4	
Dibromomethane	ND	ug/kg	5.3	1		10/23/12 20:46	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.3	1		10/23/12 20:46	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.3	1		10/23/12 20:46	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.3	1		10/23/12 20:46	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	10.5	1		10/23/12 20:46	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.3	1		10/23/12 20:46	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.3	1		10/23/12 20:46	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.3	1		10/23/12 20:46	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.3	1		10/23/12 20:46	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.3	1		10/23/12 20:46	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.3	1		10/23/12 20:46	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.3	1		10/23/12 20:46	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.3	1		10/23/12 20:46	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.3	1		10/23/12 20:46	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.3	1		10/23/12 20:46	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.3	1		10/23/12 20:46	10061-02-6	
Diisopropyl ether	ND	ug/kg	5.3	1		10/23/12 20:46	108-20-3	
Ethylbenzene	ND	ug/kg	5.3	1		10/23/12 20:46	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	5.3	1		10/23/12 20:46	87-68-3	
2-Hexanone	ND	ug/kg	52.6	1		10/23/12 20:46	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	5.3	1		10/23/12 20:46	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.3	1		10/23/12 20:46	99-87-6	
Methylene Chloride	ND	ug/kg	21.0	1		10/23/12 20:46	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	52.6	1		10/23/12 20:46	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.3	1		10/23/12 20:46	1634-04-4	
Naphthalene	ND	ug/kg	5.3	1		10/23/12 20:46	91-20-3	
n-Propylbenzene	ND	ug/kg	5.3	1		10/23/12 20:46	103-65-1	
Styrene	ND	ug/kg	5.3	1		10/23/12 20:46	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.3	1		10/23/12 20:46	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.3	1		10/23/12 20:46	79-34-5	
Tetrachloroethene	ND	ug/kg	5.3	1		10/23/12 20:46	127-18-4	
Toluene	ND	ug/kg	5.3	1		10/23/12 20:46	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.3	1		10/23/12 20:46	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.3	1		10/23/12 20:46	120-82-1	

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ANALYTICAL RESULTS

Project: 32538-5 DOUBLE EAGLE-DIXON
Pace Project No.: 92135391

Sample: SB-4-33.5-35.5 **Lab ID: 92135391001** Collected: 10/15/12 11:45 Received: 10/16/12 15:15 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							
1,1,1-Trichloroethane	ND	ug/kg	5.3	1		10/23/12 20:46	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.3	1		10/23/12 20:46	79-00-5	
Trichloroethene	ND	ug/kg	5.3	1		10/23/12 20:46	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.3	1		10/23/12 20:46	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.3	1		10/23/12 20:46	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.3	1		10/23/12 20:46	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.3	1		10/23/12 20:46	108-67-8	
Vinyl acetate	ND	ug/kg	52.6	1		10/23/12 20:46	108-05-4	
Vinyl chloride	ND	ug/kg	10.5	1		10/23/12 20:46	75-01-4	
Xylene (Total)	ND	ug/kg	10.5	1		10/23/12 20:46	1330-20-7	
m&p-Xylene	ND	ug/kg	10.5	1		10/23/12 20:46	179601-23-1	
o-Xylene	ND	ug/kg	5.3	1		10/23/12 20:46	95-47-6	
Surrogates								
Dibromofluoromethane (S)	103	%	70-130	1		10/23/12 20:46	1868-53-7	
Toluene-d8 (S)	99	%	70-130	1		10/23/12 20:46	2037-26-5	
4-Bromofluorobenzene (S)	97	%	70-130	1		10/23/12 20:46	460-00-4	
1,2-Dichloroethane-d4 (S)	110	%	70-132	1		10/23/12 20:46	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**22.5**	%	0.10	1		10/17/12 08:02		

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ANALYTICAL RESULTS

Project: 32538-5 DOUBLE EAGLE-DIXON
Pace Project No.: 92135391

Sample: SB-6-51-53 **Lab ID: 92135391002** Collected: 10/15/12 14:55 Received: 10/16/12 15:15 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	**2.8**	mg/kg	0.50	1	10/19/12 12:15	10/20/12 09:26	7440-38-2	
Barium	**154**	mg/kg	0.50	1	10/19/12 12:15	10/20/12 09:26	7440-39-3	
Cadmium	**0.61**	mg/kg	0.10	1	10/19/12 12:15	10/20/12 09:26	7440-43-9	
Chromium	**5.3**	mg/kg	0.50	1	10/19/12 12:15	10/20/12 09:26	7440-47-3	
Lead	**6.2**	mg/kg	0.50	1	10/19/12 12:15	10/20/12 09:26	7439-92-1	
Selenium	**2.9**	mg/kg	1.0	1	10/19/12 12:15	10/20/12 09:26	7782-49-2	
Silver	ND	mg/kg	0.50	1	10/19/12 12:15	10/20/12 09:26	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	ND	mg/kg	0.0039	1	10/24/12 11:40	10/24/12 13:47	7439-97-6	
8270 MSSV PAH Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	380	1	10/17/12 09:20	10/20/12 15:28	83-32-9	
Acenaphthylene	ND	ug/kg	380	1	10/17/12 09:20	10/20/12 15:28	208-96-8	
Anthracene	ND	ug/kg	380	1	10/17/12 09:20	10/20/12 15:28	120-12-7	
Benzo(a)anthracene	ND	ug/kg	380	1	10/17/12 09:20	10/20/12 15:28	56-55-3	
Benzo(a)pyrene	ND	ug/kg	380	1	10/17/12 09:20	10/20/12 15:28	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	380	1	10/17/12 09:20	10/20/12 15:28	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	380	1	10/17/12 09:20	10/20/12 15:28	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	380	1	10/17/12 09:20	10/20/12 15:28	207-08-9	
Chrysene	ND	ug/kg	380	1	10/17/12 09:20	10/20/12 15:28	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	380	1	10/17/12 09:20	10/20/12 15:28	53-70-3	
Fluoranthene	ND	ug/kg	380	1	10/17/12 09:20	10/20/12 15:28	206-44-0	
Fluorene	ND	ug/kg	380	1	10/17/12 09:20	10/20/12 15:28	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	380	1	10/17/12 09:20	10/20/12 15:28	193-39-5	
1-Methylnaphthalene	ND	ug/kg	380	1	10/17/12 09:20	10/20/12 15:28	90-12-0	
2-Methylnaphthalene	ND	ug/kg	380	1	10/17/12 09:20	10/20/12 15:28	91-57-6	
Naphthalene	ND	ug/kg	380	1	10/17/12 09:20	10/20/12 15:28	91-20-3	
Phenanthrene	ND	ug/kg	380	1	10/17/12 09:20	10/20/12 15:28	85-01-8	
Pyrene	ND	ug/kg	380	1	10/17/12 09:20	10/20/12 15:28	129-00-0	
Surrogates								
Nitrobenzene-d5 (S)	71	%	23-110	1	10/17/12 09:20	10/20/12 15:28	4165-60-0	
2-Fluorobiphenyl (S)	68	%	30-110	1	10/17/12 09:20	10/20/12 15:28	321-60-8	
Terphenyl-d14 (S)	66	%	28-110	1	10/17/12 09:20	10/20/12 15:28	1718-51-0	
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	107	1		10/23/12 21:04	67-64-1	
Benzene	ND	ug/kg	5.4	1		10/23/12 21:04	71-43-2	
Bromobenzene	ND	ug/kg	5.4	1		10/23/12 21:04	108-86-1	
Bromochloromethane	ND	ug/kg	5.4	1		10/23/12 21:04	74-97-5	
Bromodichloromethane	ND	ug/kg	5.4	1		10/23/12 21:04	75-27-4	
Bromoform	ND	ug/kg	5.4	1		10/23/12 21:04	75-25-2	
Bromomethane	ND	ug/kg	10.7	1		10/23/12 21:04	74-83-9	
2-Butanone (MEK)	ND	ug/kg	107	1		10/23/12 21:04	78-93-3	
n-Butylbenzene	ND	ug/kg	5.4	1		10/23/12 21:04	104-51-8	

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ANALYTICAL RESULTS

Project: 32538-5 DOUBLE EAGLE-DIXON
Pace Project No.: 92135391

Sample: SB-6-51-53 **Lab ID: 92135391002** Collected: 10/15/12 14:55 Received: 10/16/12 15:15 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	5.4	1		10/23/12 21:04	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.4	1		10/23/12 21:04	98-06-6	
Carbon tetrachloride	ND	ug/kg	5.4	1		10/23/12 21:04	56-23-5	
Chlorobenzene	ND	ug/kg	5.4	1		10/23/12 21:04	108-90-7	
Chloroethane	ND	ug/kg	10.7	1		10/23/12 21:04	75-00-3	
Chloroform	ND	ug/kg	5.4	1		10/23/12 21:04	67-66-3	
Chloromethane	ND	ug/kg	10.7	1		10/23/12 21:04	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.4	1		10/23/12 21:04	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.4	1		10/23/12 21:04	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	5.4	1		10/23/12 21:04	96-12-8	
Dibromochloromethane	ND	ug/kg	5.4	1		10/23/12 21:04	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.4	1		10/23/12 21:04	106-93-4	
Dibromomethane	ND	ug/kg	5.4	1		10/23/12 21:04	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.4	1		10/23/12 21:04	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.4	1		10/23/12 21:04	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.4	1		10/23/12 21:04	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	10.7	1		10/23/12 21:04	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.4	1		10/23/12 21:04	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.4	1		10/23/12 21:04	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.4	1		10/23/12 21:04	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.4	1		10/23/12 21:04	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.4	1		10/23/12 21:04	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.4	1		10/23/12 21:04	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.4	1		10/23/12 21:04	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.4	1		10/23/12 21:04	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.4	1		10/23/12 21:04	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.4	1		10/23/12 21:04	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.4	1		10/23/12 21:04	10061-02-6	
Diisopropyl ether	ND	ug/kg	5.4	1		10/23/12 21:04	108-20-3	
Ethylbenzene	ND	ug/kg	5.4	1		10/23/12 21:04	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	5.4	1		10/23/12 21:04	87-68-3	
2-Hexanone	ND	ug/kg	53.7	1		10/23/12 21:04	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	5.4	1		10/23/12 21:04	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.4	1		10/23/12 21:04	99-87-6	
Methylene Chloride	ND	ug/kg	21.5	1		10/23/12 21:04	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	53.7	1		10/23/12 21:04	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.4	1		10/23/12 21:04	1634-04-4	
Naphthalene	ND	ug/kg	5.4	1		10/23/12 21:04	91-20-3	
n-Propylbenzene	ND	ug/kg	5.4	1		10/23/12 21:04	103-65-1	
Styrene	ND	ug/kg	5.4	1		10/23/12 21:04	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.4	1		10/23/12 21:04	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.4	1		10/23/12 21:04	79-34-5	
Tetrachloroethene	ND	ug/kg	5.4	1		10/23/12 21:04	127-18-4	
Toluene	ND	ug/kg	5.4	1		10/23/12 21:04	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.4	1		10/23/12 21:04	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.4	1		10/23/12 21:04	120-82-1	

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ANALYTICAL RESULTS

Project: 32538-5 DOUBLE EAGLE-DIXON
Pace Project No.: 92135391

Sample: SB-6-51-53 **Lab ID: 92135391002** Collected: 10/15/12 14:55 Received: 10/16/12 15:15 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							
1,1,1-Trichloroethane	ND	ug/kg	5.4	1		10/23/12 21:04	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.4	1		10/23/12 21:04	79-00-5	
Trichloroethene	ND	ug/kg	5.4	1		10/23/12 21:04	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.4	1		10/23/12 21:04	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.4	1		10/23/12 21:04	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.4	1		10/23/12 21:04	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.4	1		10/23/12 21:04	108-67-8	
Vinyl acetate	ND	ug/kg	53.7	1		10/23/12 21:04	108-05-4	
Vinyl chloride	ND	ug/kg	10.7	1		10/23/12 21:04	75-01-4	
Xylene (Total)	ND	ug/kg	10.7	1		10/23/12 21:04	1330-20-7	
m&p-Xylene	ND	ug/kg	10.7	1		10/23/12 21:04	179601-23-1	
o-Xylene	ND	ug/kg	5.4	1		10/23/12 21:04	95-47-6	
Surrogates								
Dibromofluoromethane (S)	107	%	70-130	1		10/23/12 21:04	1868-53-7	
Toluene-d8 (S)	98	%	70-130	1		10/23/12 21:04	2037-26-5	
4-Bromofluorobenzene (S)	96	%	70-130	1		10/23/12 21:04	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	70-132	1		10/23/12 21:04	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**13.1**	%	0.10	1		10/17/12 08:03		

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ANALYTICAL RESULTS

Project: 32538-5 DOUBLE EAGLE-DIXON
Pace Project No.: 92135391

Sample: SB-5-15-17 **Lab ID: 92135391003** Collected: 10/16/12 11:00 Received: 10/16/12 15:15 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	**2.3**	mg/kg	0.52	1	10/19/12 12:15	10/20/12 09:30	7440-38-2	
Barium	**139**	mg/kg	0.52	1	10/19/12 12:15	10/20/12 09:30	7440-39-3	
Cadmium	**1.2**	mg/kg	0.10	1	10/19/12 12:15	10/20/12 09:30	7440-43-9	
Chromium	**6.2**	mg/kg	0.52	1	10/19/12 12:15	10/20/12 09:30	7440-47-3	
Lead	**16.0**	mg/kg	0.52	1	10/19/12 12:15	10/20/12 09:30	7439-92-1	
Selenium	**3.8**	mg/kg	1.0	1	10/19/12 12:15	10/20/12 09:30	7782-49-2	
Silver	ND	mg/kg	0.52	1	10/19/12 12:15	10/20/12 09:30	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	**0.021**	mg/kg	0.0043	1	10/24/12 11:40	10/24/12 13:53	7439-97-6	
8270 MSSV PAH Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	387	1	10/17/12 09:20	10/20/12 15:56	83-32-9	
Acenaphthylene	ND	ug/kg	387	1	10/17/12 09:20	10/20/12 15:56	208-96-8	
Anthracene	ND	ug/kg	387	1	10/17/12 09:20	10/20/12 15:56	120-12-7	
Benzo(a)anthracene	ND	ug/kg	387	1	10/17/12 09:20	10/20/12 15:56	56-55-3	
Benzo(a)pyrene	ND	ug/kg	387	1	10/17/12 09:20	10/20/12 15:56	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	387	1	10/17/12 09:20	10/20/12 15:56	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	387	1	10/17/12 09:20	10/20/12 15:56	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	387	1	10/17/12 09:20	10/20/12 15:56	207-08-9	
Chrysene	ND	ug/kg	387	1	10/17/12 09:20	10/20/12 15:56	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	387	1	10/17/12 09:20	10/20/12 15:56	53-70-3	
Fluoranthene	ND	ug/kg	387	1	10/17/12 09:20	10/20/12 15:56	206-44-0	
Fluorene	ND	ug/kg	387	1	10/17/12 09:20	10/20/12 15:56	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	387	1	10/17/12 09:20	10/20/12 15:56	193-39-5	
1-Methylnaphthalene	ND	ug/kg	387	1	10/17/12 09:20	10/20/12 15:56	90-12-0	
2-Methylnaphthalene	ND	ug/kg	387	1	10/17/12 09:20	10/20/12 15:56	91-57-6	
Naphthalene	ND	ug/kg	387	1	10/17/12 09:20	10/20/12 15:56	91-20-3	
Phenanthrene	ND	ug/kg	387	1	10/17/12 09:20	10/20/12 15:56	85-01-8	
Pyrene	ND	ug/kg	387	1	10/17/12 09:20	10/20/12 15:56	129-00-0	
Surrogates								
Nitrobenzene-d5 (S)	70	%	23-110	1	10/17/12 09:20	10/20/12 15:56	4165-60-0	
2-Fluorobiphenyl (S)	62	%	30-110	1	10/17/12 09:20	10/20/12 15:56	321-60-8	
Terphenyl-d14 (S)	53	%	28-110	1	10/17/12 09:20	10/20/12 15:56	1718-51-0	
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	116	1		10/23/12 21:22	67-64-1	
Benzene	ND	ug/kg	5.8	1		10/23/12 21:22	71-43-2	
Bromobenzene	ND	ug/kg	5.8	1		10/23/12 21:22	108-86-1	
Bromochloromethane	ND	ug/kg	5.8	1		10/23/12 21:22	74-97-5	
Bromodichloromethane	ND	ug/kg	5.8	1		10/23/12 21:22	75-27-4	
Bromoform	ND	ug/kg	5.8	1		10/23/12 21:22	75-25-2	
Bromomethane	ND	ug/kg	11.6	1		10/23/12 21:22	74-83-9	
2-Butanone (MEK)	ND	ug/kg	116	1		10/23/12 21:22	78-93-3	
n-Butylbenzene	ND	ug/kg	5.8	1		10/23/12 21:22	104-51-8	

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ANALYTICAL RESULTS

Project: 32538-5 DOUBLE EAGLE-DIXON
Pace Project No.: 92135391

Sample: SB-5-15-17 **Lab ID: 92135391003** Collected: 10/16/12 11:00 Received: 10/16/12 15:15 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	5.8	1		10/23/12 21:22	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.8	1		10/23/12 21:22	98-06-6	
Carbon tetrachloride	ND	ug/kg	5.8	1		10/23/12 21:22	56-23-5	
Chlorobenzene	ND	ug/kg	5.8	1		10/23/12 21:22	108-90-7	
Chloroethane	ND	ug/kg	11.6	1		10/23/12 21:22	75-00-3	
Chloroform	ND	ug/kg	5.8	1		10/23/12 21:22	67-66-3	
Chloromethane	ND	ug/kg	11.6	1		10/23/12 21:22	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.8	1		10/23/12 21:22	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.8	1		10/23/12 21:22	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	5.8	1		10/23/12 21:22	96-12-8	
Dibromochloromethane	ND	ug/kg	5.8	1		10/23/12 21:22	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.8	1		10/23/12 21:22	106-93-4	
Dibromomethane	ND	ug/kg	5.8	1		10/23/12 21:22	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.8	1		10/23/12 21:22	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.8	1		10/23/12 21:22	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.8	1		10/23/12 21:22	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	11.6	1		10/23/12 21:22	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.8	1		10/23/12 21:22	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.8	1		10/23/12 21:22	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.8	1		10/23/12 21:22	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.8	1		10/23/12 21:22	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.8	1		10/23/12 21:22	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.8	1		10/23/12 21:22	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.8	1		10/23/12 21:22	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.8	1		10/23/12 21:22	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.8	1		10/23/12 21:22	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.8	1		10/23/12 21:22	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.8	1		10/23/12 21:22	10061-02-6	
Diisopropyl ether	ND	ug/kg	5.8	1		10/23/12 21:22	108-20-3	
Ethylbenzene	ND	ug/kg	5.8	1		10/23/12 21:22	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	5.8	1		10/23/12 21:22	87-68-3	
2-Hexanone	ND	ug/kg	57.8	1		10/23/12 21:22	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	5.8	1		10/23/12 21:22	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.8	1		10/23/12 21:22	99-87-6	
Methylene Chloride	ND	ug/kg	23.1	1		10/23/12 21:22	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	57.8	1		10/23/12 21:22	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.8	1		10/23/12 21:22	1634-04-4	
Naphthalene	ND	ug/kg	5.8	1		10/23/12 21:22	91-20-3	
n-Propylbenzene	ND	ug/kg	5.8	1		10/23/12 21:22	103-65-1	
Styrene	ND	ug/kg	5.8	1		10/23/12 21:22	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.8	1		10/23/12 21:22	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.8	1		10/23/12 21:22	79-34-5	
Tetrachloroethene	ND	ug/kg	5.8	1		10/23/12 21:22	127-18-4	
Toluene	ND	ug/kg	5.8	1		10/23/12 21:22	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.8	1		10/23/12 21:22	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.8	1		10/23/12 21:22	120-82-1	

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ANALYTICAL RESULTS

Project: 32538-5 DOUBLE EAGLE-DIXON
Pace Project No.: 92135391

Sample: SB-5-15-17 **Lab ID: 92135391003** Collected: 10/16/12 11:00 Received: 10/16/12 15:15 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							
1,1,1-Trichloroethane	ND	ug/kg	5.8	1		10/23/12 21:22	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.8	1		10/23/12 21:22	79-00-5	
Trichloroethene	ND	ug/kg	5.8	1		10/23/12 21:22	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.8	1		10/23/12 21:22	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.8	1		10/23/12 21:22	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.8	1		10/23/12 21:22	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.8	1		10/23/12 21:22	108-67-8	
Vinyl acetate	ND	ug/kg	57.8	1		10/23/12 21:22	108-05-4	
Vinyl chloride	ND	ug/kg	11.6	1		10/23/12 21:22	75-01-4	
Xylene (Total)	ND	ug/kg	11.6	1		10/23/12 21:22	1330-20-7	
m&p-Xylene	ND	ug/kg	11.6	1		10/23/12 21:22	179601-23-1	
o-Xylene	ND	ug/kg	5.8	1		10/23/12 21:22	95-47-6	
Surrogates								
Dibromofluoromethane (S)	107	%	70-130	1		10/23/12 21:22	1868-53-7	
Toluene-d8 (S)	98	%	70-130	1		10/23/12 21:22	2037-26-5	
4-Bromofluorobenzene (S)	96	%	70-130	1		10/23/12 21:22	460-00-4	
1,2-Dichloroethane-d4 (S)	119	%	70-132	1		10/23/12 21:22	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**14.8**	%	0.10	1		10/17/12 08:03		

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ANALYTICAL RESULTS

Project: 32538-5 DOUBLE EAGLE-DIXON
Pace Project No.: 92135391

Sample: SB-102-15-17 **Lab ID: 92135391004** Collected: 10/16/12 11:10 Received: 10/16/12 15:15 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	**2.5**	mg/kg	0.54	1	10/19/12 12:15	10/20/12 09:34	7440-38-2	
Barium	**175**	mg/kg	0.54	1	10/19/12 12:15	10/20/12 09:34	7440-39-3	
Cadmium	**0.60**	mg/kg	0.11	1	10/19/12 12:15	10/20/12 09:34	7440-43-9	
Chromium	**3.9**	mg/kg	0.54	1	10/19/12 12:15	10/20/12 09:34	7440-47-3	
Lead	**18.1**	mg/kg	0.54	1	10/19/12 12:15	10/20/12 09:34	7439-92-1	
Selenium	**2.8**	mg/kg	1.1	1	10/19/12 12:15	10/20/12 09:34	7782-49-2	
Silver	ND	mg/kg	0.54	1	10/19/12 12:15	10/20/12 09:34	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	**0.020**	mg/kg	0.0056	1	10/24/12 11:40	10/24/12 13:55	7439-97-6	
8270 MSSV PAH Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	385	1	10/17/12 09:20	10/20/12 16:23	83-32-9	
Acenaphthylene	ND	ug/kg	385	1	10/17/12 09:20	10/20/12 16:23	208-96-8	
Anthracene	ND	ug/kg	385	1	10/17/12 09:20	10/20/12 16:23	120-12-7	
Benzo(a)anthracene	ND	ug/kg	385	1	10/17/12 09:20	10/20/12 16:23	56-55-3	
Benzo(a)pyrene	ND	ug/kg	385	1	10/17/12 09:20	10/20/12 16:23	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	385	1	10/17/12 09:20	10/20/12 16:23	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	385	1	10/17/12 09:20	10/20/12 16:23	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	385	1	10/17/12 09:20	10/20/12 16:23	207-08-9	
Chrysene	ND	ug/kg	385	1	10/17/12 09:20	10/20/12 16:23	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	385	1	10/17/12 09:20	10/20/12 16:23	53-70-3	
Fluoranthene	ND	ug/kg	385	1	10/17/12 09:20	10/20/12 16:23	206-44-0	
Fluorene	ND	ug/kg	385	1	10/17/12 09:20	10/20/12 16:23	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	385	1	10/17/12 09:20	10/20/12 16:23	193-39-5	
1-Methylnaphthalene	ND	ug/kg	385	1	10/17/12 09:20	10/20/12 16:23	90-12-0	
2-Methylnaphthalene	ND	ug/kg	385	1	10/17/12 09:20	10/20/12 16:23	91-57-6	
Naphthalene	ND	ug/kg	385	1	10/17/12 09:20	10/20/12 16:23	91-20-3	
Phenanthrene	ND	ug/kg	385	1	10/17/12 09:20	10/20/12 16:23	85-01-8	
Pyrene	ND	ug/kg	385	1	10/17/12 09:20	10/20/12 16:23	129-00-0	
Surrogates								
Nitrobenzene-d5 (S)	80	%	23-110	1	10/17/12 09:20	10/20/12 16:23	4165-60-0	
2-Fluorobiphenyl (S)	72	%	30-110	1	10/17/12 09:20	10/20/12 16:23	321-60-8	
Terphenyl-d14 (S)	55	%	28-110	1	10/17/12 09:20	10/20/12 16:23	1718-51-0	
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	118	1		10/25/12 12:38	67-64-1	
Benzene	ND	ug/kg	5.9	1		10/25/12 12:38	71-43-2	
Bromobenzene	ND	ug/kg	5.9	1		10/25/12 12:38	108-86-1	
Bromochloromethane	ND	ug/kg	5.9	1		10/25/12 12:38	74-97-5	
Bromodichloromethane	ND	ug/kg	5.9	1		10/25/12 12:38	75-27-4	
Bromoform	ND	ug/kg	5.9	1		10/25/12 12:38	75-25-2	
Bromomethane	ND	ug/kg	11.8	1		10/25/12 12:38	74-83-9	
2-Butanone (MEK)	ND	ug/kg	118	1		10/25/12 12:38	78-93-3	
n-Butylbenzene	ND	ug/kg	5.9	1		10/25/12 12:38	104-51-8	

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ANALYTICAL RESULTS

Project: 32538-5 DOUBLE EAGLE-DIXON
Pace Project No.: 92135391

Sample: SB-102-15-17 **Lab ID: 92135391004** Collected: 10/16/12 11:10 Received: 10/16/12 15:15 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	5.9	1		10/25/12 12:38	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.9	1		10/25/12 12:38	98-06-6	
Carbon tetrachloride	ND	ug/kg	5.9	1		10/25/12 12:38	56-23-5	
Chlorobenzene	ND	ug/kg	5.9	1		10/25/12 12:38	108-90-7	
Chloroethane	ND	ug/kg	11.8	1		10/25/12 12:38	75-00-3	
Chloroform	ND	ug/kg	5.9	1		10/25/12 12:38	67-66-3	
Chloromethane	ND	ug/kg	11.8	1		10/25/12 12:38	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.9	1		10/25/12 12:38	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.9	1		10/25/12 12:38	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	5.9	1		10/25/12 12:38	96-12-8	
Dibromochloromethane	ND	ug/kg	5.9	1		10/25/12 12:38	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.9	1		10/25/12 12:38	106-93-4	
Dibromomethane	ND	ug/kg	5.9	1		10/25/12 12:38	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.9	1		10/25/12 12:38	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.9	1		10/25/12 12:38	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.9	1		10/25/12 12:38	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	11.8	1		10/25/12 12:38	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.9	1		10/25/12 12:38	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.9	1		10/25/12 12:38	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.9	1		10/25/12 12:38	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.9	1		10/25/12 12:38	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.9	1		10/25/12 12:38	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.9	1		10/25/12 12:38	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.9	1		10/25/12 12:38	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.9	1		10/25/12 12:38	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.9	1		10/25/12 12:38	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.9	1		10/25/12 12:38	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.9	1		10/25/12 12:38	10061-02-6	
Diisopropyl ether	ND	ug/kg	5.9	1		10/25/12 12:38	108-20-3	
Ethylbenzene	ND	ug/kg	5.9	1		10/25/12 12:38	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	5.9	1		10/25/12 12:38	87-68-3	
2-Hexanone	ND	ug/kg	59.2	1		10/25/12 12:38	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	5.9	1		10/25/12 12:38	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.9	1		10/25/12 12:38	99-87-6	
Methylene Chloride	ND	ug/kg	23.7	1		10/25/12 12:38	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	59.2	1		10/25/12 12:38	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.9	1		10/25/12 12:38	1634-04-4	
Naphthalene	ND	ug/kg	5.9	1		10/25/12 12:38	91-20-3	
n-Propylbenzene	ND	ug/kg	5.9	1		10/25/12 12:38	103-65-1	
Styrene	ND	ug/kg	5.9	1		10/25/12 12:38	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.9	1		10/25/12 12:38	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.9	1		10/25/12 12:38	79-34-5	
Tetrachloroethene	ND	ug/kg	5.9	1		10/25/12 12:38	127-18-4	
Toluene	ND	ug/kg	5.9	1		10/25/12 12:38	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.9	1		10/25/12 12:38	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.9	1		10/25/12 12:38	120-82-1	

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ANALYTICAL RESULTS

Project: 32538-5 DOUBLE EAGLE-DIXON
Pace Project No.: 92135391

Sample: SB-102-15-17 **Lab ID: 92135391004** Collected: 10/16/12 11:10 Received: 10/16/12 15:15 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							
1,1,1-Trichloroethane	ND	ug/kg	5.9	1		10/25/12 12:38	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.9	1		10/25/12 12:38	79-00-5	
Trichloroethene	ND	ug/kg	5.9	1		10/25/12 12:38	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.9	1		10/25/12 12:38	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.9	1		10/25/12 12:38	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.9	1		10/25/12 12:38	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.9	1		10/25/12 12:38	108-67-8	
Vinyl acetate	ND	ug/kg	59.2	1		10/25/12 12:38	108-05-4	
Vinyl chloride	ND	ug/kg	11.8	1		10/25/12 12:38	75-01-4	
Xylene (Total)	ND	ug/kg	11.8	1		10/25/12 12:38	1330-20-7	
m&p-Xylene	ND	ug/kg	11.8	1		10/25/12 12:38	179601-23-1	
o-Xylene	ND	ug/kg	5.9	1		10/25/12 12:38	95-47-6	
Surrogates								
Dibromofluoromethane (S)	104	%	70-130	1		10/25/12 12:38	1868-53-7	
Toluene-d8 (S)	99	%	70-130	1		10/25/12 12:38	2037-26-5	
4-Bromofluorobenzene (S)	95	%	70-130	1		10/25/12 12:38	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-132	1		10/25/12 12:38	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**14.3**	%	0.10	1		10/17/12 08:03		

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ANALYTICAL RESULTS

Project: 32538-5 DOUBLE EAGLE-DIXON
Pace Project No.: 92135391

Sample: SB-1-6-8 **Lab ID: 92135391005** Collected: 10/15/12 18:15 Received: 10/16/12 15:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546							
PCB-1016 (Aroclor 1016)	ND	ug/kg	33.3	1	10/17/12 15:25	10/19/12 16:18	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	33.3	1	10/17/12 15:25	10/19/12 16:18	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	33.3	1	10/17/12 15:25	10/19/12 16:18	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	33.3	1	10/17/12 15:25	10/19/12 16:18	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	33.3	1	10/17/12 15:25	10/19/12 16:18	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	33.3	1	10/17/12 15:25	10/19/12 16:18	11097-69-1	
PCB-1260 (Aroclor 1260)	**368**	ug/kg	33.3	1	10/17/12 15:25	10/19/12 16:18	11096-82-5	
Surrogates								
Decachlorobiphenyl (S)	73	%	21-132	1	10/17/12 15:25	10/19/12 16:18	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**1.0**	%	0.10	1		10/17/12 08:03		

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ANALYTICAL RESULTS

Project: 32538-5 DOUBLE EAGLE-DIXON
Pace Project No.: 92135391

Sample: SB-1-8-10 **Lab ID: 92135391006** Collected: 10/15/12 18:20 Received: 10/16/12 15:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546							
PCB-1016 (Aroclor 1016)	ND	ug/kg	41.0	1	10/17/12 15:25	10/19/12 17:17	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	41.0	1	10/17/12 15:25	10/19/12 17:17	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	41.0	1	10/17/12 15:25	10/19/12 17:17	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	41.0	1	10/17/12 15:25	10/19/12 17:17	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	41.0	1	10/17/12 15:25	10/19/12 17:17	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	41.0	1	10/17/12 15:25	10/19/12 17:17	11097-69-1	
PCB-1260 (Aroclor 1260)	**529**	ug/kg	41.0	1	10/17/12 15:25	10/19/12 17:17	11096-82-5	
Surrogates								
Decachlorobiphenyl (S)	59	%	21-132	1	10/17/12 15:25	10/19/12 17:17	2051-24-3	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**19.5**	%	0.10	1		10/17/12 08:03		

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ANALYTICAL RESULTS

Project: 32538-5 DOUBLE EAGLE-DIXON
Pace Project No.: 92135391

Sample: SB-100-8-10 **Lab ID: 92135391007** Collected: 10/15/12 18:25 Received: 10/16/12 15:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546							
PCB-1016 (Aroclor 1016)	ND	ug/kg	203	5	10/17/12 15:25	10/24/12 21:53	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	203	5	10/17/12 15:25	10/24/12 21:53	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	203	5	10/17/12 15:25	10/24/12 21:53	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	203	5	10/17/12 15:25	10/24/12 21:53	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	203	5	10/17/12 15:25	10/24/12 21:53	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	203	5	10/17/12 15:25	10/24/12 21:53	11097-69-1	
PCB-1260 (Aroclor 1260)	**1260**	ug/kg	203	5	10/17/12 15:25	10/24/12 21:53	11096-82-5	
Surrogates								
Decachlorobiphenyl (S)	0	%	21-132	5	10/17/12 15:25	10/24/12 21:53	2051-24-3	S4
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**18.9**	%	0.10	1		10/17/12 08:03		

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ANALYTICAL RESULTS

Project: 32538-5 DOUBLE EAGLE-DIXON
Pace Project No.: 92135391

Sample: SB-3-15-17 **Lab ID: 92135391008** Collected: 10/16/12 09:00 Received: 10/16/12 15:15 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 Components	ND	mg/kg	6.4	1	10/17/12 08:30	10/17/12 22:15	68334-30-5	
Surrogates								
n-Pentacosane (S)	79	%	41-119	1	10/17/12 08:30	10/17/12 22:15	629-99-2	
Gasoline Range Organics	Analytical Method: EPA 8015 Modified		Preparation Method: EPA 5035A/5030B					
Gasoline Range Organics	ND	mg/kg	8.6	1	10/17/12 17:41	10/18/12 18:39	8006-61-9	
Surrogates								
4-Bromofluorobenzene (S)	88	%	70-167	1	10/17/12 17:41	10/18/12 18:39	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**21.7**	%	0.10	1		10/17/12 08:04		

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ANALYTICAL RESULTS

Project: 32538-5 DOUBLE EAGLE-DIXON
Pace Project No.: 92135391

Sample: SB-101-15-17 **Lab ID: 92135391009** Collected: 10/16/12 09:10 Received: 10/16/12 15:15 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 Components	ND	mg/kg	6.2	1	10/17/12 08:30	10/17/12 22:45	68334-30-5	
Surrogates								
n-Pentacosane (S)	71	%	41-119	1	10/17/12 08:30	10/17/12 22:45	629-99-2	
Gasoline Range Organics	Analytical Method: EPA 8015 Modified		Preparation Method: EPA 5035A/5030B					
Gasoline Range Organics	ND	mg/kg	8.2	1	10/17/12 17:41	10/18/12 19:01	8006-61-9	
Surrogates								
4-Bromofluorobenzene (S)	91	%	70-167	1	10/17/12 17:41	10/18/12 19:01	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**19.5**	%	0.10	1		10/17/12 08:04		

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ANALYTICAL RESULTS

Project: 32538-5 DOUBLE EAGLE-DIXON
Pace Project No.: 92135391

Sample: SB-2-10-12 **Lab ID: 92135391010** Collected: 10/16/12 09:50 Received: 10/16/12 15:15 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 Components	ND	mg/kg	6.3	1	10/17/12 08:30	10/17/12 22:45	68334-30-5	
Surrogates								
n-Pentacosane (S)	74	%	41-119	1	10/17/12 08:30	10/17/12 22:45	629-99-2	
Gasoline Range Organics	Analytical Method: EPA 8015 Modified		Preparation Method: EPA 5035A/5030B					
Gasoline Range Organics	ND	mg/kg	6.9	1	10/17/12 17:41	10/18/12 19:25	8006-61-9	
Surrogates								
4-Bromofluorobenzene (S)	88	%	70-167	1	10/17/12 17:41	10/18/12 19:25	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**21.2**	%	0.10	1		10/17/12 08:04		

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ANALYTICAL RESULTS

Project: 32538-5 DOUBLE EAGLE-DIXON
Pace Project No.: 92135391

Sample: TB 101512-1 **Lab ID: 92135391011** Collected: 10/15/12 11:00 Received: 10/16/12 15:15 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		10/24/12 18:06	67-64-1	
Benzene	ND	ug/kg	5.0	1		10/24/12 18:06	71-43-2	
Bromobenzene	ND	ug/kg	5.0	1		10/24/12 18:06	108-86-1	
Bromochloromethane	ND	ug/kg	5.0	1		10/24/12 18:06	74-97-5	
Bromodichloromethane	ND	ug/kg	5.0	1		10/24/12 18:06	75-27-4	
Bromoform	ND	ug/kg	5.0	1		10/24/12 18:06	75-25-2	
Bromomethane	ND	ug/kg	10.0	1		10/24/12 18:06	74-83-9	
2-Butanone (MEK)	ND	ug/kg	100	1		10/24/12 18:06	78-93-3	
n-Butylbenzene	ND	ug/kg	5.0	1		10/24/12 18:06	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.0	1		10/24/12 18:06	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.0	1		10/24/12 18:06	98-06-6	
Carbon tetrachloride	ND	ug/kg	5.0	1		10/24/12 18:06	56-23-5	
Chlorobenzene	ND	ug/kg	5.0	1		10/24/12 18:06	108-90-7	
Chloroethane	ND	ug/kg	10.0	1		10/24/12 18:06	75-00-3	
Chloroform	ND	ug/kg	5.0	1		10/24/12 18:06	67-66-3	
Chloromethane	ND	ug/kg	10.0	1		10/24/12 18:06	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.0	1		10/24/12 18:06	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.0	1		10/24/12 18:06	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	5.0	1		10/24/12 18:06	96-12-8	
Dibromochloromethane	ND	ug/kg	5.0	1		10/24/12 18:06	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.0	1		10/24/12 18:06	106-93-4	
Dibromomethane	ND	ug/kg	5.0	1		10/24/12 18:06	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.0	1		10/24/12 18:06	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.0	1		10/24/12 18:06	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.0	1		10/24/12 18:06	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	10.0	1		10/24/12 18:06	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.0	1		10/24/12 18:06	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.0	1		10/24/12 18:06	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.0	1		10/24/12 18:06	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.0	1		10/24/12 18:06	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.0	1		10/24/12 18:06	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.0	1		10/24/12 18:06	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.0	1		10/24/12 18:06	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.0	1		10/24/12 18:06	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.0	1		10/24/12 18:06	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.0	1		10/24/12 18:06	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.0	1		10/24/12 18:06	10061-02-6	
Diisopropyl ether	ND	ug/kg	5.0	1		10/24/12 18:06	108-20-3	
Ethylbenzene	ND	ug/kg	5.0	1		10/24/12 18:06	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	5.0	1		10/24/12 18:06	87-68-3	
2-Hexanone	ND	ug/kg	50.0	1		10/24/12 18:06	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	5.0	1		10/24/12 18:06	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.0	1		10/24/12 18:06	99-87-6	
Methylene Chloride	ND	ug/kg	20.0	1		10/24/12 18:06	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	50.0	1		10/24/12 18:06	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.0	1		10/24/12 18:06	1634-04-4	

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ANALYTICAL RESULTS

Project: 32538-5 DOUBLE EAGLE-DIXON
Pace Project No.: 92135391

Sample: TB 101512-1 **Lab ID: 92135391011** Collected: 10/15/12 11:00 Received: 10/16/12 15:15 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							
Naphthalene	ND	ug/kg	5.0	1		10/24/12 18:06	91-20-3	
n-Propylbenzene	ND	ug/kg	5.0	1		10/24/12 18:06	103-65-1	
Styrene	ND	ug/kg	5.0	1		10/24/12 18:06	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.0	1		10/24/12 18:06	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.0	1		10/24/12 18:06	79-34-5	
Tetrachloroethene	ND	ug/kg	5.0	1		10/24/12 18:06	127-18-4	
Toluene	ND	ug/kg	5.0	1		10/24/12 18:06	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.0	1		10/24/12 18:06	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.0	1		10/24/12 18:06	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.0	1		10/24/12 18:06	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.0	1		10/24/12 18:06	79-00-5	
Trichloroethene	ND	ug/kg	5.0	1		10/24/12 18:06	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.0	1		10/24/12 18:06	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.0	1		10/24/12 18:06	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.0	1		10/24/12 18:06	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.0	1		10/24/12 18:06	108-67-8	
Vinyl acetate	ND	ug/kg	50.0	1		10/24/12 18:06	108-05-4	
Vinyl chloride	ND	ug/kg	10.0	1		10/24/12 18:06	75-01-4	
Xylene (Total)	ND	ug/kg	10.0	1		10/24/12 18:06	1330-20-7	
m&p-Xylene	ND	ug/kg	10.0	1		10/24/12 18:06	179601-23-1	
o-Xylene	ND	ug/kg	5.0	1		10/24/12 18:06	95-47-6	
Surrogates								
Dibromofluoromethane (S)	99	%	70-130	1		10/24/12 18:06	1868-53-7	
Toluene-d8 (S)	99	%	70-130	1		10/24/12 18:06	2037-26-5	
4-Bromofluorobenzene (S)	95	%	70-130	1		10/24/12 18:06	460-00-4	
1,2-Dichloroethane-d4 (S)	92	%	70-132	1		10/24/12 18:06	17060-07-0	

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QUALITY CONTROL DATA

Project: 32538-5 DOUBLE EAGLE-DIXON
Pace Project No.: 92135391

QC Batch: GCV/6340 — Analysis Method: EPA 8015 Modified
QC Batch Method: EPA 5035A/5030B — Analysis Description: Gasoline Range Organics
Associated Lab Samples: 92135391008, 92135391009, 92135391010

METHOD BLANK: 854837 — Matrix: Solid
Associated Lab Samples: 92135391008, 92135391009, 92135391010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	mg/kg	ND	5.7	10/18/12 12:54	
4-Bromofluorobenzene (S)	%	91	70-167	10/18/12 12:54	

LABORATORY CONTROL SAMPLE: 854838

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	mg/kg	23.8	25.2	106	70-165	
4-Bromofluorobenzene (S)	%			86	70-167	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 854839 854840

Parameter	Units	92135403001 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	29.4	29.4	32.8	32.4	109	107	47-187	1	30	
4-Bromofluorobenzene (S)	%						89	91	70-167			

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QUALITY CONTROL DATA

Project: 32538-5 DOUBLE EAGLE-DIXON
Pace Project No.: 92135391

QC Batch: MERP/4614 Analysis Method: EPA 7471
QC Batch Method: EPA 7471 Analysis Description: 7471 Mercury
Associated Lab Samples: 92135391001, 92135391002, 92135391003, 92135391004

METHOD BLANK: 858234 Matrix: Solid
Associated Lab Samples: 92135391001, 92135391002, 92135391003, 92135391004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	ND	0.0050	10/24/12 13:37	

LABORATORY CONTROL SAMPLE: 858235

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	.067	0.065	98	80-120	

MATRIX SPIKE SAMPLE: 858236

Parameter	Units	92135391001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	ND	.08	0.069	85	75-125	

SAMPLE DUPLICATE: 858237

Parameter	Units	92135391002 Result	Dup Result	RPD	Max RPD	Qualifiers
Mercury	mg/kg	ND	.00025J		20	

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QUALITY CONTROL DATA

Project: 32538-5 DOUBLE EAGLE-DIXON
Pace Project No.: 92135391

QC Batch: MPRP/11765 Analysis Method: EPA 6010
QC Batch Method: EPA 3050 Analysis Description: 6010 MET
Associated Lab Samples: 92135391001, 92135391002, 92135391003, 92135391004

METHOD BLANK: 856386 Matrix: Solid
Associated Lab Samples: 92135391001, 92135391002, 92135391003, 92135391004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/kg	ND	0.50	10/19/12 22:34	
Barium	mg/kg	ND	0.50	10/19/12 22:34	
Cadmium	mg/kg	ND	0.10	10/19/12 22:34	
Chromium	mg/kg	ND	0.50	10/19/12 22:34	
Lead	mg/kg	ND	0.50	10/19/12 22:34	
Selenium	mg/kg	ND	1.0	10/20/12 18:53	
Silver	mg/kg	ND	0.50	10/19/12 22:34	

LABORATORY CONTROL SAMPLE: 856387

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	50	49.1	98	80-120	
Barium	mg/kg	50	49.0	98	80-120	
Cadmium	mg/kg	50	49.9	100	80-120	
Chromium	mg/kg	50	50.8	102	80-120	
Lead	mg/kg	50	49.2	98	80-120	
Selenium	mg/kg	50	49.4	99	80-120	
Silver	mg/kg	25	24.5	98	80-120	

MATRIX SPIKE SAMPLE: 856388

Parameter	Units	92134683022 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	17.2	58.6	78.5	105	75-125	
Barium	mg/kg	11.5	58.6	71.0	102	75-125	
Cadmium	mg/kg	ND	58.6	57.2	98	75-125	
Chromium	mg/kg	8.1	58.6	72.2	109	75-125	
Lead	mg/kg	12.4	58.6	66.5	92	75-125	
Selenium	mg/kg	0.96J	58.6	58.6	98	75-125	
Silver	mg/kg	0.061J	29.3	30.2	103	75-125	

SAMPLE DUPLICATE: 856389

Parameter	Units	92134683023 Result	Dup Result	RPD	Max RPD	Qualifiers
Arsenic	mg/kg	9.4	7.7	21	20	D6
Barium	mg/kg	8.7	8.7	0	20	
Cadmium	mg/kg	ND	ND		20	
Chromium	mg/kg	0.84	ND		20	
Lead	mg/kg	18.9	18.5	2	20	

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QUALITY CONTROL DATA

Project: 32538-5 DOUBLE EAGLE-DIXON
Pace Project No.: 92135391

SAMPLE DUPLICATE: 856389

Parameter	Units	92134683023 Result	Dup Result	RPD	Max RPD	Qualifiers
Selenium	mg/kg	0.91J	.95J		20	
Silver	mg/kg	ND	ND		20	

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QUALITY CONTROL DATA

Project: 32538-5 DOUBLE EAGLE-DIXON
Pace Project No.: 92135391

QC Batch: MSV/20811 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 92135391001, 92135391002, 92135391003

METHOD BLANK: 857803 Matrix: Solid
Associated Lab Samples: 92135391001, 92135391002, 92135391003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	6.2	10/23/12 10:47	
1,1,1-Trichloroethane	ug/kg	ND	6.2	10/23/12 10:47	
1,1,2,2-Tetrachloroethane	ug/kg	ND	6.2	10/23/12 10:47	
1,1,2-Trichloroethane	ug/kg	ND	6.2	10/23/12 10:47	
1,1-Dichloroethane	ug/kg	ND	6.2	10/23/12 10:47	
1,1-Dichloroethene	ug/kg	ND	6.2	10/23/12 10:47	
1,1-Dichloropropene	ug/kg	ND	6.2	10/23/12 10:47	
1,2,3-Trichlorobenzene	ug/kg	ND	6.2	10/23/12 10:47	
1,2,3-Trichloropropane	ug/kg	ND	6.2	10/23/12 10:47	
1,2,4-Trichlorobenzene	ug/kg	ND	6.2	10/23/12 10:47	
1,2,4-Trimethylbenzene	ug/kg	ND	6.2	10/23/12 10:47	
1,2-Dibromo-3-chloropropane	ug/kg	ND	6.2	10/23/12 10:47	
1,2-Dibromoethane (EDB)	ug/kg	ND	6.2	10/23/12 10:47	
1,2-Dichlorobenzene	ug/kg	ND	6.2	10/23/12 10:47	
1,2-Dichloroethane	ug/kg	ND	6.2	10/23/12 10:47	
1,2-Dichloropropane	ug/kg	ND	6.2	10/23/12 10:47	
1,3,5-Trimethylbenzene	ug/kg	ND	6.2	10/23/12 10:47	
1,3-Dichlorobenzene	ug/kg	ND	6.2	10/23/12 10:47	
1,3-Dichloropropane	ug/kg	ND	6.2	10/23/12 10:47	
1,4-Dichlorobenzene	ug/kg	ND	6.2	10/23/12 10:47	
2,2-Dichloropropane	ug/kg	ND	6.2	10/23/12 10:47	
2-Butanone (MEK)	ug/kg	ND	124	10/23/12 10:47	
2-Chlorotoluene	ug/kg	ND	6.2	10/23/12 10:47	
2-Hexanone	ug/kg	ND	61.9	10/23/12 10:47	
4-Chlorotoluene	ug/kg	ND	6.2	10/23/12 10:47	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	61.9	10/23/12 10:47	
Acetone	ug/kg	ND	124	10/23/12 10:47	
Benzene	ug/kg	ND	6.2	10/23/12 10:47	
Bromobenzene	ug/kg	ND	6.2	10/23/12 10:47	
Bromochloromethane	ug/kg	ND	6.2	10/23/12 10:47	
Bromodichloromethane	ug/kg	ND	6.2	10/23/12 10:47	
Bromoform	ug/kg	ND	6.2	10/23/12 10:47	
Bromomethane	ug/kg	ND	12.4	10/23/12 10:47	
Carbon tetrachloride	ug/kg	ND	6.2	10/23/12 10:47	
Chlorobenzene	ug/kg	ND	6.2	10/23/12 10:47	
Chloroethane	ug/kg	ND	12.4	10/23/12 10:47	
Chloroform	ug/kg	ND	6.2	10/23/12 10:47	
Chloromethane	ug/kg	ND	12.4	10/23/12 10:47	
cis-1,2-Dichloroethene	ug/kg	ND	6.2	10/23/12 10:47	
cis-1,3-Dichloropropene	ug/kg	ND	6.2	10/23/12 10:47	
Dibromochloromethane	ug/kg	ND	6.2	10/23/12 10:47	
Dibromomethane	ug/kg	ND	6.2	10/23/12 10:47	
Dichlorodifluoromethane	ug/kg	ND	12.4	10/23/12 10:47	

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QUALITY CONTROL DATA

Project: 32538-5 DOUBLE EAGLE-DIXON
Pace Project No.: 92135391

METHOD BLANK: 857803 Matrix: Solid

Associated Lab Samples: 92135391001, 92135391002, 92135391003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diisopropyl ether	ug/kg	ND	6.2	10/23/12 10:47	
Ethylbenzene	ug/kg	ND	6.2	10/23/12 10:47	
Hexachloro-1,3-butadiene	ug/kg	ND	6.2	10/23/12 10:47	
Isopropylbenzene (Cumene)	ug/kg	ND	6.2	10/23/12 10:47	
m&p-Xylene	ug/kg	ND	12.4	10/23/12 10:47	
Methyl-tert-butyl ether	ug/kg	ND	6.2	10/23/12 10:47	
Methylene Chloride	ug/kg	ND	24.8	10/23/12 10:47	
n-Butylbenzene	ug/kg	ND	6.2	10/23/12 10:47	
n-Propylbenzene	ug/kg	ND	6.2	10/23/12 10:47	
Naphthalene	ug/kg	ND	6.2	10/23/12 10:47	
o-Xylene	ug/kg	ND	6.2	10/23/12 10:47	
p-Isopropyltoluene	ug/kg	ND	6.2	10/23/12 10:47	
sec-Butylbenzene	ug/kg	ND	6.2	10/23/12 10:47	
Styrene	ug/kg	ND	6.2	10/23/12 10:47	
tert-Butylbenzene	ug/kg	ND	6.2	10/23/12 10:47	
Tetrachloroethene	ug/kg	ND	6.2	10/23/12 10:47	
Toluene	ug/kg	ND	6.2	10/23/12 10:47	
trans-1,2-Dichloroethene	ug/kg	ND	6.2	10/23/12 10:47	
trans-1,3-Dichloropropene	ug/kg	ND	6.2	10/23/12 10:47	
Trichloroethene	ug/kg	ND	6.2	10/23/12 10:47	
Trichlorofluoromethane	ug/kg	ND	6.2	10/23/12 10:47	
Vinyl acetate	ug/kg	ND	61.9	10/23/12 10:47	
Vinyl chloride	ug/kg	ND	12.4	10/23/12 10:47	
Xylene (Total)	ug/kg	ND	12.4	10/23/12 10:47	
1,2-Dichloroethane-d4 (S)	%	103	70-132	10/23/12 10:47	
4-Bromofluorobenzene (S)	%	98	70-130	10/23/12 10:47	
Dibromofluoromethane (S)	%	99	70-130	10/23/12 10:47	
Toluene-d8 (S)	%	100	70-130	10/23/12 10:47	

LABORATORY CONTROL SAMPLE: 857804

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	55.8	56.6	101	70-131	
1,1,1-Trichloroethane	ug/kg	55.8	59.8	107	70-141	
1,1,2,2-Tetrachloroethane	ug/kg	55.8	52.1	93	70-130	
1,1,2-Trichloroethane	ug/kg	55.8	54.8	98	70-132	
1,1-Dichloroethane	ug/kg	55.8	53.4	96	70-143	
1,1-Dichloroethene	ug/kg	55.8	51.2	92	70-137	
1,1-Dichloropropene	ug/kg	55.8	59.8	107	70-135	
1,2,3-Trichlorobenzene	ug/kg	55.8	59.6	107	69-153	
1,2,3-Trichloropropane	ug/kg	55.8	50.8	91	70-130	
1,2,4-Trichlorobenzene	ug/kg	55.8	58.9	106	55-171	
1,2,4-Trimethylbenzene	ug/kg	55.8	56.6	102	70-149	
1,2-Dibromo-3-chloropropane	ug/kg	55.8	57.1	102	68-141	
1,2-Dibromoethane (EDB)	ug/kg	55.8	58.3	105	70-130	

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QUALITY CONTROL DATA

Project: 32538-5 DOUBLE EAGLE-DIXON
Pace Project No.: 92135391

LABORATORY CONTROL SAMPLE: 857804

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichlorobenzene	ug/kg	55.8	55.2	99	70-140	
1,2-Dichloroethane	ug/kg	55.8	51.2	92	70-137	
1,2-Dichloropropane	ug/kg	55.8	58.9	106	70-133	
1,3,5-Trimethylbenzene	ug/kg	55.8	57.0	102	70-143	
1,3-Dichlorobenzene	ug/kg	55.8	54.9	98	70-144	
1,3-Dichloropropane	ug/kg	55.8	58.8	105	70-132	
1,4-Dichlorobenzene	ug/kg	55.8	54.5	98	70-142	
2,2-Dichloropropane	ug/kg	55.8	58.0	104	68-152	
2-Butanone (MEK)	ug/kg	112	95.2J	85	70-149	
2-Chlorotoluene	ug/kg	55.8	57.9	104	70-141	
2-Hexanone	ug/kg	112	120	108	70-149	
4-Chlorotoluene	ug/kg	55.8	57.3	103	70-149	
4-Methyl-2-pentanone (MIBK)	ug/kg	112	110	99	70-153	
Acetone	ug/kg	112	108J	97	70-157	
Benzene	ug/kg	55.8	59.1	106	70-130	
Bromobenzene	ug/kg	55.8	59.2	106	70-141	
Bromochloromethane	ug/kg	55.8	50.2	90	70-149	
Bromodichloromethane	ug/kg	55.8	56.9	102	70-130	
Bromoform	ug/kg	55.8	57.2	103	70-131	
Bromomethane	ug/kg	55.8	52.5	94	64-136	
Carbon tetrachloride	ug/kg	55.8	62.5	112	70-154	
Chlorobenzene	ug/kg	55.8	54.8	98	70-135	
Chloroethane	ug/kg	55.8	51.5	92	68-151	
Chloroform	ug/kg	55.8	51.7	93	70-130	
Chloromethane	ug/kg	55.8	52.2	94	70-132	
cis-1,2-Dichloroethene	ug/kg	55.8	52.2	94	70-140	
cis-1,3-Dichloropropene	ug/kg	55.8	61.8	111	70-137	
Dibromochloromethane	ug/kg	55.8	63.6	114	70-130	
Dibromomethane	ug/kg	55.8	50.1	90	70-136	
Dichlorodifluoromethane	ug/kg	55.8	45.6	82	36-148	
Diisopropyl ether	ug/kg	55.8	55.6	100	70-139	
Ethylbenzene	ug/kg	55.8	56.4	101	70-137	
Hexachloro-1,3-butadiene	ug/kg	55.8	57.5	103	70-145	
Isopropylbenzene (Cumene)	ug/kg	55.8	55.2	99	70-141	
m&p-Xylene	ug/kg	112	111	99	70-140	
Methyl-tert-butyl ether	ug/kg	55.8	55.6	100	45-150	
Methylene Chloride	ug/kg	55.8	47.9	86	70-133	
n-Butylbenzene	ug/kg	55.8	57.7	103	65-155	
n-Propylbenzene	ug/kg	55.8	58.4	105	70-148	
Naphthalene	ug/kg	55.8	57.9	104	70-148	
o-Xylene	ug/kg	55.8	52.8	95	70-141	
p-Isopropyltoluene	ug/kg	55.8	58.6	105	70-148	
sec-Butylbenzene	ug/kg	55.8	58.1	104	70-145	
Styrene	ug/kg	55.8	54.1	97	70-138	
tert-Butylbenzene	ug/kg	55.8	58.3	105	70-143	
Tetrachloroethene	ug/kg	55.8	59.3	106	70-140	
Toluene	ug/kg	55.8	51.2	92	70-130	
trans-1,2-Dichloroethene	ug/kg	55.8	53.0	95	70-136	

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QUALITY CONTROL DATA

Project: 32538-5 DOUBLE EAGLE-DIXON
Pace Project No.: 92135391

LABORATORY CONTROL SAMPLE: 857804

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
trans-1,3-Dichloropropene	ug/kg	55.8	61.8	111	70-138	
Trichloroethene	ug/kg	55.8	60.0	108	70-132	
Trichlorofluoromethane	ug/kg	55.8	62.5	112	69-134	
Vinyl acetate	ug/kg	112	130	116	24-161	
Vinyl chloride	ug/kg	55.8	45.3	81	55-140	
Xylene (Total)	ug/kg	167	164	98	70-141	
1,2-Dichloroethane-d4 (S)	%			95	70-132	
4-Bromofluorobenzene (S)	%			95	70-130	
Dibromofluoromethane (S)	%			93	70-130	
Toluene-d8 (S)	%			96	70-130	

MATRIX SPIKE SAMPLE: 859569

Parameter	Units	92135391001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/kg	ND	57	64.7	114	49-180	
Benzene	ug/kg	ND	57	57.2	100	50-166	
Chlorobenzene	ug/kg	ND	57	71.3	125	43-169	
Toluene	ug/kg	ND	57	70.9	124	52-163	
Trichloroethene	ug/kg	ND	57	68.2	120	49-167	
1,2-Dichloroethane-d4 (S)	%				103	70-132	
4-Bromofluorobenzene (S)	%				99	70-130	
Dibromofluoromethane (S)	%				100	70-130	
Toluene-d8 (S)	%				101	70-130	

SAMPLE DUPLICATE: 859568

Parameter	Units	92135342003 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	ND		30	
1,1,1-Trichloroethane	ug/kg	ND	ND		30	
1,1,2,2-Tetrachloroethane	ug/kg	ND	ND		30	
1,1,2-Trichloroethane	ug/kg	ND	ND		30	
1,1-Dichloroethane	ug/kg	ND	ND		30	
1,1-Dichloroethene	ug/kg	ND	ND		30	
1,1-Dichloropropene	ug/kg	ND	ND		30	
1,2,3-Trichlorobenzene	ug/kg	ND	ND		30	
1,2,3-Trichloropropane	ug/kg	ND	ND		30	
1,2,4-Trichlorobenzene	ug/kg	ND	ND		30	
1,2,4-Trimethylbenzene	ug/kg	ND	ND		30	
1,2-Dibromo-3-chloropropane	ug/kg	ND	ND		30	
1,2-Dibromoethane (EDB)	ug/kg	ND	ND		30	
1,2-Dichlorobenzene	ug/kg	ND	ND		30	
1,2-Dichloroethane	ug/kg	ND	ND		30	
1,2-Dichloropropane	ug/kg	ND	ND		30	
1,3,5-Trimethylbenzene	ug/kg	ND	ND		30	
1,3-Dichlorobenzene	ug/kg	ND	ND		30	

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QUALITY CONTROL DATA

Project: 32538-5 DOUBLE EAGLE-DIXON
Pace Project No.: 92135391

SAMPLE DUPLICATE: 859568

Parameter	Units	92135342003 Result	Dup Result	RPD	Max RPD	Qualifiers
1,3-Dichloropropane	ug/kg	ND	ND		30	
1,4-Dichlorobenzene	ug/kg	ND	ND		30	
2,2-Dichloropropane	ug/kg	ND	ND		30	
2-Butanone (MEK)	ug/kg	ND	ND		30	
2-Chlorotoluene	ug/kg	ND	ND		30	
2-Hexanone	ug/kg	ND	ND		30	
4-Chlorotoluene	ug/kg	ND	ND		30	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	ND		30	
Acetone	ug/kg	ND	ND		30	
Benzene	ug/kg	ND	ND		30	
Bromobenzene	ug/kg	ND	ND		30	
Bromochloromethane	ug/kg	ND	ND		30	
Bromodichloromethane	ug/kg	ND	ND		30	
Bromoform	ug/kg	ND	ND		30	
Bromomethane	ug/kg	ND	ND		30	
Carbon tetrachloride	ug/kg	ND	ND		30	
Chlorobenzene	ug/kg	ND	ND		30	
Chloroethane	ug/kg	ND	ND		30	
Chloroform	ug/kg	ND	ND		30	
Chloromethane	ug/kg	ND	ND		30	
cis-1,2-Dichloroethene	ug/kg	ND	ND		30	
cis-1,3-Dichloropropene	ug/kg	ND	ND		30	
Dibromochloromethane	ug/kg	ND	ND		30	
Dibromomethane	ug/kg	ND	ND		30	
Dichlorodifluoromethane	ug/kg	ND	ND		30	
Diisopropyl ether	ug/kg	ND	ND		30	
Ethylbenzene	ug/kg	ND	ND		30	
Hexachloro-1,3-butadiene	ug/kg	ND	ND		30	
Isopropylbenzene (Cumene)	ug/kg	ND	ND		30	
m&p-Xylene	ug/kg	ND	ND		30	
Methyl-tert-butyl ether	ug/kg	ND	ND		30	
Methylene Chloride	ug/kg	ND	ND		30	
n-Butylbenzene	ug/kg	ND	ND		30	
n-Propylbenzene	ug/kg	ND	ND		30	
Naphthalene	ug/kg	ND	4.6J		30	
o-Xylene	ug/kg	ND	ND		30	
p-Isopropyltoluene	ug/kg	ND	ND		30	
sec-Butylbenzene	ug/kg	ND	ND		30	
Styrene	ug/kg	ND	ND		30	
tert-Butylbenzene	ug/kg	ND	ND		30	
Tetrachloroethene	ug/kg	ND	ND		30	
Toluene	ug/kg	ND	ND		30	
trans-1,2-Dichloroethene	ug/kg	ND	ND		30	
trans-1,3-Dichloropropene	ug/kg	ND	ND		30	
Trichloroethene	ug/kg	ND	ND		30	
Trichlorofluoromethane	ug/kg	ND	ND		30	
Vinyl acetate	ug/kg	ND	ND		30	
Vinyl chloride	ug/kg	ND	ND		30	

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QUALITY CONTROL DATA

Project: 32538-5 DOUBLE EAGLE-DIXON
Pace Project No.: 92135391

SAMPLE DUPLICATE: 859568

Parameter	Units	92135342003 Result	Dup Result	RPD	Max RPD	Qualifiers
Xylene (Total)	ug/kg	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	105	100	23		
4-Bromofluorobenzene (S)	%	94	99	33		
Dibromofluoromethane (S)	%	103	107	32		
Toluene-d8 (S)	%	100	99	27		

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QUALITY CONTROL DATA

Project: 32538-5 DOUBLE EAGLE-DIXON
Pace Project No.: 92135391

QC Batch: MSV/20830
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 92135391011

METHOD BLANK: 859041
Matrix: Solid
Associated Lab Samples: 92135391011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	6.4	10/24/12 17:47	
1,1,1-Trichloroethane	ug/kg	ND	6.4	10/24/12 17:47	
1,1,2,2-Tetrachloroethane	ug/kg	ND	6.4	10/24/12 17:47	
1,1,2-Trichloroethane	ug/kg	ND	6.4	10/24/12 17:47	
1,1-Dichloroethane	ug/kg	ND	6.4	10/24/12 17:47	
1,1-Dichloroethene	ug/kg	ND	6.4	10/24/12 17:47	
1,1-Dichloropropene	ug/kg	ND	6.4	10/24/12 17:47	
1,2,3-Trichlorobenzene	ug/kg	ND	6.4	10/24/12 17:47	
1,2,3-Trichloropropane	ug/kg	ND	6.4	10/24/12 17:47	
1,2,4-Trichlorobenzene	ug/kg	ND	6.4	10/24/12 17:47	
1,2,4-Trimethylbenzene	ug/kg	ND	6.4	10/24/12 17:47	
1,2-Dibromo-3-chloropropane	ug/kg	ND	6.4	10/24/12 17:47	
1,2-Dibromoethane (EDB)	ug/kg	ND	6.4	10/24/12 17:47	
1,2-Dichlorobenzene	ug/kg	ND	6.4	10/24/12 17:47	
1,2-Dichloroethane	ug/kg	ND	6.4	10/24/12 17:47	
1,2-Dichloropropane	ug/kg	ND	6.4	10/24/12 17:47	
1,3,5-Trimethylbenzene	ug/kg	ND	6.4	10/24/12 17:47	
1,3-Dichlorobenzene	ug/kg	ND	6.4	10/24/12 17:47	
1,3-Dichloropropane	ug/kg	ND	6.4	10/24/12 17:47	
1,4-Dichlorobenzene	ug/kg	ND	6.4	10/24/12 17:47	
2,2-Dichloropropane	ug/kg	ND	6.4	10/24/12 17:47	
2-Butanone (MEK)	ug/kg	ND	128	10/24/12 17:47	
2-Chlorotoluene	ug/kg	ND	6.4	10/24/12 17:47	
2-Hexanone	ug/kg	ND	64.1	10/24/12 17:47	
4-Chlorotoluene	ug/kg	ND	6.4	10/24/12 17:47	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	64.1	10/24/12 17:47	
Acetone	ug/kg	ND	128	10/24/12 17:47	
Benzene	ug/kg	ND	6.4	10/24/12 17:47	
Bromobenzene	ug/kg	ND	6.4	10/24/12 17:47	
Bromochloromethane	ug/kg	ND	6.4	10/24/12 17:47	
Bromodichloromethane	ug/kg	ND	6.4	10/24/12 17:47	
Bromoform	ug/kg	ND	6.4	10/24/12 17:47	
Bromomethane	ug/kg	ND	12.8	10/24/12 17:47	
Carbon tetrachloride	ug/kg	ND	6.4	10/24/12 17:47	
Chlorobenzene	ug/kg	ND	6.4	10/24/12 17:47	
Chloroethane	ug/kg	ND	12.8	10/24/12 17:47	
Chloroform	ug/kg	ND	6.4	10/24/12 17:47	
Chloromethane	ug/kg	ND	12.8	10/24/12 17:47	
cis-1,2-Dichloroethene	ug/kg	ND	6.4	10/24/12 17:47	
cis-1,3-Dichloropropene	ug/kg	ND	6.4	10/24/12 17:47	
Dibromochloromethane	ug/kg	ND	6.4	10/24/12 17:47	
Dibromomethane	ug/kg	ND	6.4	10/24/12 17:47	
Dichlorodifluoromethane	ug/kg	ND	12.8	10/24/12 17:47	

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QUALITY CONTROL DATA

Project: 32538-5 DOUBLE EAGLE-DIXON
Pace Project No.: 92135391

METHOD BLANK: 859041 Matrix: Solid

Associated Lab Samples: 92135391011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diisopropyl ether	ug/kg	ND	6.4	10/24/12 17:47	
Ethylbenzene	ug/kg	ND	6.4	10/24/12 17:47	
Hexachloro-1,3-butadiene	ug/kg	ND	6.4	10/24/12 17:47	
Isopropylbenzene (Cumene)	ug/kg	ND	6.4	10/24/12 17:47	
m&p-Xylene	ug/kg	ND	12.8	10/24/12 17:47	
Methyl-tert-butyl ether	ug/kg	ND	6.4	10/24/12 17:47	
Methylene Chloride	ug/kg	ND	25.6	10/24/12 17:47	
n-Butylbenzene	ug/kg	ND	6.4	10/24/12 17:47	
n-Propylbenzene	ug/kg	ND	6.4	10/24/12 17:47	
Naphthalene	ug/kg	ND	6.4	10/24/12 17:47	
o-Xylene	ug/kg	ND	6.4	10/24/12 17:47	
p-Isopropyltoluene	ug/kg	ND	6.4	10/24/12 17:47	
sec-Butylbenzene	ug/kg	ND	6.4	10/24/12 17:47	
Styrene	ug/kg	ND	6.4	10/24/12 17:47	
tert-Butylbenzene	ug/kg	ND	6.4	10/24/12 17:47	
Tetrachloroethene	ug/kg	ND	6.4	10/24/12 17:47	
Toluene	ug/kg	ND	6.4	10/24/12 17:47	
trans-1,2-Dichloroethene	ug/kg	ND	6.4	10/24/12 17:47	
trans-1,3-Dichloropropene	ug/kg	ND	6.4	10/24/12 17:47	
Trichloroethene	ug/kg	ND	6.4	10/24/12 17:47	
Trichlorofluoromethane	ug/kg	ND	6.4	10/24/12 17:47	
Vinyl acetate	ug/kg	ND	64.1	10/24/12 17:47	
Vinyl chloride	ug/kg	ND	12.8	10/24/12 17:47	
Xylene (Total)	ug/kg	ND	12.8	10/24/12 17:47	
1,2-Dichloroethane-d4 (S)	%	102	70-132	10/24/12 17:47	
4-Bromofluorobenzene (S)	%	93	70-130	10/24/12 17:47	
Dibromofluoromethane (S)	%	96	70-130	10/24/12 17:47	
Toluene-d8 (S)	%	97	70-130	10/24/12 17:47	

LABORATORY CONTROL SAMPLE: 859042

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	57.2	54.6	96	70-131	
1,1,1-Trichloroethane	ug/kg	57.2	62.8	110	70-141	
1,1,2,2-Tetrachloroethane	ug/kg	57.2	52.9	92	70-130	
1,1,2-Trichloroethane	ug/kg	57.2	53.5	93	70-132	
1,1-Dichloroethane	ug/kg	57.2	56.7	99	70-143	
1,1-Dichloroethene	ug/kg	57.2	54.5	95	70-137	
1,1-Dichloropropene	ug/kg	57.2	54.7	96	70-135	
1,2,3-Trichlorobenzene	ug/kg	57.2	59.6	104	69-153	
1,2,3-Trichloropropane	ug/kg	57.2	52.9	93	70-130	
1,2,4-Trichlorobenzene	ug/kg	57.2	59.2	103	55-171	
1,2,4-Trimethylbenzene	ug/kg	57.2	57.7	101	70-149	
1,2-Dibromo-3-chloropropane	ug/kg	57.2	57.8	101	68-141	
1,2-Dibromoethane (EDB)	ug/kg	57.2	55.7	97	70-130	

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QUALITY CONTROL DATA

Project: 32538-5 DOUBLE EAGLE-DIXON
Pace Project No.: 92135391

LABORATORY CONTROL SAMPLE: 859042

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichlorobenzene	ug/kg	57.2	57.0	100	70-140	
1,2-Dichloroethane	ug/kg	57.2	55.7	97	70-137	
1,2-Dichloropropane	ug/kg	57.2	54.2	95	70-133	
1,3,5-Trimethylbenzene	ug/kg	57.2	57.1	100	70-143	
1,3-Dichlorobenzene	ug/kg	57.2	55.8	97	70-144	
1,3-Dichloropropane	ug/kg	57.2	56.4	99	70-132	
1,4-Dichlorobenzene	ug/kg	57.2	54.4	95	70-142	
2,2-Dichloropropane	ug/kg	57.2	60.1	105	68-152	
2-Butanone (MEK)	ug/kg	114	99.5J	87	70-149	
2-Chlorotoluene	ug/kg	57.2	57.6	101	70-141	
2-Hexanone	ug/kg	114	126	110	70-149	
4-Chlorotoluene	ug/kg	57.2	58.4	102	70-149	
4-Methyl-2-pentanone (MIBK)	ug/kg	114	114	99	70-153	
Acetone	ug/kg	114	106J	93	70-157	
Benzene	ug/kg	57.2	54.2	95	70-130	
Bromobenzene	ug/kg	57.2	58.6	102	70-141	
Bromochloromethane	ug/kg	57.2	51.1	89	70-149	
Bromodichloromethane	ug/kg	57.2	57.8	101	70-130	
Bromoform	ug/kg	57.2	56.0	98	70-131	
Bromomethane	ug/kg	57.2	48.3	84	64-136	
Carbon tetrachloride	ug/kg	57.2	62.4	109	70-154	
Chlorobenzene	ug/kg	57.2	54.1	95	70-135	
Chloroethane	ug/kg	57.2	49.9	87	68-151	
Chloroform	ug/kg	57.2	57.2	100	70-130	
Chloromethane	ug/kg	57.2	50.0	87	70-132	
cis-1,2-Dichloroethene	ug/kg	57.2	59.2	103	70-140	
cis-1,3-Dichloropropene	ug/kg	57.2	58.3	102	70-137	
Dibromochloromethane	ug/kg	57.2	59.7	104	70-130	
Dibromomethane	ug/kg	57.2	53.2	93	70-136	
Dichlorodifluoromethane	ug/kg	57.2	49.5	86	36-148	
Diisopropyl ether	ug/kg	57.2	55.1	96	70-139	
Ethylbenzene	ug/kg	57.2	56.1	98	70-137	
Hexachloro-1,3-butadiene	ug/kg	57.2	56.7	99	70-145	
Isopropylbenzene (Cumene)	ug/kg	57.2	56.9	99	70-141	
m&p-Xylene	ug/kg	114	113	99	70-140	
Methyl-tert-butyl ether	ug/kg	57.2	60.1	105	45-150	
Methylene Chloride	ug/kg	57.2	48.0	84	70-133	
n-Butylbenzene	ug/kg	57.2	57.9	101	65-155	
n-Propylbenzene	ug/kg	57.2	57.4	100	70-148	
Naphthalene	ug/kg	57.2	60.7	106	70-148	
o-Xylene	ug/kg	57.2	56.2	98	70-141	
p-Isopropyltoluene	ug/kg	57.2	58.0	101	70-148	
sec-Butylbenzene	ug/kg	57.2	58.2	102	70-145	
Styrene	ug/kg	57.2	56.3	98	70-138	
tert-Butylbenzene	ug/kg	57.2	58.2	102	70-143	
Tetrachloroethene	ug/kg	57.2	54.6	95	70-140	
Toluene	ug/kg	57.2	50.9	89	70-130	
trans-1,2-Dichloroethene	ug/kg	57.2	56.7	99	70-136	

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QUALITY CONTROL DATA

Project: 32538-5 DOUBLE EAGLE-DIXON
Pace Project No.: 92135391

LABORATORY CONTROL SAMPLE: 859042

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
trans-1,3-Dichloropropene	ug/kg	57.2	57.0	100	70-138	
Trichloroethene	ug/kg	57.2	53.7	94	70-132	
Trichlorofluoromethane	ug/kg	57.2	57.7	101	69-134	
Vinyl acetate	ug/kg	114	114	100	24-161	
Vinyl chloride	ug/kg	57.2	43.3	76	55-140	
Xylene (Total)	ug/kg	172	169	99	70-141	
1,2-Dichloroethane-d4 (S)	%			103	70-132	
4-Bromofluorobenzene (S)	%			95	70-130	
Dibromofluoromethane (S)	%			104	70-130	
Toluene-d8 (S)	%			98	70-130	

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QUALITY CONTROL DATA

Project: 32538-5 DOUBLE EAGLE-DIXON
Pace Project No.: 92135391

QC Batch: MSV/20838
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 92135391004

METHOD BLANK: 859800
Matrix: Solid
Associated Lab Samples: 92135391004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	6.3	10/25/12 11:06	
1,1,1-Trichloroethane	ug/kg	ND	6.3	10/25/12 11:06	
1,1,2,2-Tetrachloroethane	ug/kg	ND	6.3	10/25/12 11:06	
1,1,2-Trichloroethane	ug/kg	ND	6.3	10/25/12 11:06	
1,1-Dichloroethane	ug/kg	ND	6.3	10/25/12 11:06	
1,1-Dichloroethene	ug/kg	ND	6.3	10/25/12 11:06	
1,1-Dichloropropene	ug/kg	ND	6.3	10/25/12 11:06	
1,2,3-Trichlorobenzene	ug/kg	ND	6.3	10/25/12 11:06	
1,2,3-Trichloropropane	ug/kg	ND	6.3	10/25/12 11:06	
1,2,4-Trichlorobenzene	ug/kg	ND	6.3	10/25/12 11:06	
1,2,4-Trimethylbenzene	ug/kg	ND	6.3	10/25/12 11:06	
1,2-Dibromo-3-chloropropane	ug/kg	ND	6.3	10/25/12 11:06	
1,2-Dibromoethane (EDB)	ug/kg	ND	6.3	10/25/12 11:06	
1,2-Dichlorobenzene	ug/kg	ND	6.3	10/25/12 11:06	
1,2-Dichloroethane	ug/kg	ND	6.3	10/25/12 11:06	
1,2-Dichloropropane	ug/kg	ND	6.3	10/25/12 11:06	
1,3,5-Trimethylbenzene	ug/kg	ND	6.3	10/25/12 11:06	
1,3-Dichlorobenzene	ug/kg	ND	6.3	10/25/12 11:06	
1,3-Dichloropropane	ug/kg	ND	6.3	10/25/12 11:06	
1,4-Dichlorobenzene	ug/kg	ND	6.3	10/25/12 11:06	
2,2-Dichloropropane	ug/kg	ND	6.3	10/25/12 11:06	
2-Butanone (MEK)	ug/kg	ND	126	10/25/12 11:06	
2-Chlorotoluene	ug/kg	ND	6.3	10/25/12 11:06	
2-Hexanone	ug/kg	ND	63.0	10/25/12 11:06	
4-Chlorotoluene	ug/kg	ND	6.3	10/25/12 11:06	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	63.0	10/25/12 11:06	
Acetone	ug/kg	ND	126	10/25/12 11:06	
Benzene	ug/kg	ND	6.3	10/25/12 11:06	
Bromobenzene	ug/kg	ND	6.3	10/25/12 11:06	
Bromochloromethane	ug/kg	ND	6.3	10/25/12 11:06	
Bromodichloromethane	ug/kg	ND	6.3	10/25/12 11:06	
Bromoform	ug/kg	ND	6.3	10/25/12 11:06	
Bromomethane	ug/kg	ND	12.6	10/25/12 11:06	
Carbon tetrachloride	ug/kg	ND	6.3	10/25/12 11:06	
Chlorobenzene	ug/kg	ND	6.3	10/25/12 11:06	
Chloroethane	ug/kg	ND	12.6	10/25/12 11:06	
Chloroform	ug/kg	ND	6.3	10/25/12 11:06	
Chloromethane	ug/kg	ND	12.6	10/25/12 11:06	
cis-1,2-Dichloroethene	ug/kg	ND	6.3	10/25/12 11:06	
cis-1,3-Dichloropropene	ug/kg	ND	6.3	10/25/12 11:06	
Dibromochloromethane	ug/kg	ND	6.3	10/25/12 11:06	
Dibromomethane	ug/kg	ND	6.3	10/25/12 11:06	
Dichlorodifluoromethane	ug/kg	ND	12.6	10/25/12 11:06	

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QUALITY CONTROL DATA

Project: 32538-5 DOUBLE EAGLE-DIXON
Pace Project No.: 92135391

METHOD BLANK: 859800 Matrix: Solid

Associated Lab Samples: 92135391004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diisopropyl ether	ug/kg	ND	6.3	10/25/12 11:06	
Ethylbenzene	ug/kg	ND	6.3	10/25/12 11:06	
Hexachloro-1,3-butadiene	ug/kg	ND	6.3	10/25/12 11:06	
Isopropylbenzene (Cumene)	ug/kg	ND	6.3	10/25/12 11:06	
m&p-Xylene	ug/kg	ND	12.6	10/25/12 11:06	
Methyl-tert-butyl ether	ug/kg	ND	6.3	10/25/12 11:06	
Methylene Chloride	ug/kg	ND	25.2	10/25/12 11:06	
n-Butylbenzene	ug/kg	ND	6.3	10/25/12 11:06	
n-Propylbenzene	ug/kg	ND	6.3	10/25/12 11:06	
Naphthalene	ug/kg	ND	6.3	10/25/12 11:06	
o-Xylene	ug/kg	ND	6.3	10/25/12 11:06	
p-Isopropyltoluene	ug/kg	ND	6.3	10/25/12 11:06	
sec-Butylbenzene	ug/kg	ND	6.3	10/25/12 11:06	
Styrene	ug/kg	ND	6.3	10/25/12 11:06	
tert-Butylbenzene	ug/kg	ND	6.3	10/25/12 11:06	
Tetrachloroethene	ug/kg	ND	6.3	10/25/12 11:06	
Toluene	ug/kg	ND	6.3	10/25/12 11:06	
trans-1,2-Dichloroethene	ug/kg	ND	6.3	10/25/12 11:06	
trans-1,3-Dichloropropene	ug/kg	ND	6.3	10/25/12 11:06	
Trichloroethene	ug/kg	ND	6.3	10/25/12 11:06	
Trichlorofluoromethane	ug/kg	ND	6.3	10/25/12 11:06	
Vinyl acetate	ug/kg	ND	63.0	10/25/12 11:06	
Vinyl chloride	ug/kg	ND	12.6	10/25/12 11:06	
Xylene (Total)	ug/kg	ND	12.6	10/25/12 11:06	
1,2-Dichloroethane-d4 (S)	%	99	70-132	10/25/12 11:06	
4-Bromofluorobenzene (S)	%	100	70-130	10/25/12 11:06	
Dibromofluoromethane (S)	%	108	70-130	10/25/12 11:06	
Toluene-d8 (S)	%	101	70-130	10/25/12 11:06	

LABORATORY CONTROL SAMPLE: 859801

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	56.7	55.4	98	70-131	
1,1,1-Trichloroethane	ug/kg	56.7	55.2	97	70-141	
1,1,2,2-Tetrachloroethane	ug/kg	56.7	54.5	96	70-130	
1,1,2-Trichloroethane	ug/kg	56.7	56.3	99	70-132	
1,1-Dichloroethane	ug/kg	56.7	56.4	99	70-143	
1,1-Dichloroethene	ug/kg	56.7	59.6	105	70-137	
1,1-Dichloropropene	ug/kg	56.7	47.9	84	70-135	
1,2,3-Trichlorobenzene	ug/kg	56.7	58.2	103	69-153	
1,2,3-Trichloropropane	ug/kg	56.7	56.8	100	70-130	
1,2,4-Trichlorobenzene	ug/kg	56.7	58.0	102	55-171	
1,2,4-Trimethylbenzene	ug/kg	56.7	57.8	102	70-149	
1,2-Dibromo-3-chloropropane	ug/kg	56.7	56.7	100	68-141	
1,2-Dibromoethane (EDB)	ug/kg	56.7	57.0	101	70-130	

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QUALITY CONTROL DATA

Project: 32538-5 DOUBLE EAGLE-DIXON
Pace Project No.: 92135391

LABORATORY CONTROL SAMPLE: 859801

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichlorobenzene	ug/kg	56.7	58.7	104	70-140	
1,2-Dichloroethane	ug/kg	56.7	50.0	88	70-137	
1,2-Dichloropropane	ug/kg	56.7	52.1	92	70-133	
1,3,5-Trimethylbenzene	ug/kg	56.7	57.6	102	70-143	
1,3-Dichlorobenzene	ug/kg	56.7	56.7	100	70-144	
1,3-Dichloropropane	ug/kg	56.7	52.9	93	70-132	
1,4-Dichlorobenzene	ug/kg	56.7	56.3	99	70-142	
2,2-Dichloropropane	ug/kg	56.7	54.3	96	68-152	
2-Butanone (MEK)	ug/kg	113	98.8J	87	70-149	
2-Chlorotoluene	ug/kg	56.7	56.9	100	70-141	
2-Hexanone	ug/kg	113	113	100	70-149	
4-Chlorotoluene	ug/kg	56.7	58.5	103	70-149	
4-Methyl-2-pentanone (MIBK)	ug/kg	113	117	103	70-153	
Acetone	ug/kg	113	92.6J	82	70-157	
Benzene	ug/kg	56.7	57.3	101	70-130	
Bromobenzene	ug/kg	56.7	56.7	100	70-141	
Bromochloromethane	ug/kg	56.7	57.5	101	70-149	
Bromodichloromethane	ug/kg	56.7	57.0	101	70-130	
Bromoform	ug/kg	56.7	59.7	105	70-131	
Bromomethane	ug/kg	56.7	64.4	114	64-136	
Carbon tetrachloride	ug/kg	56.7	54.0	95	70-154	
Chlorobenzene	ug/kg	56.7	57.6	102	70-135	
Chloroethane	ug/kg	56.7	61.8	109	68-151	
Chloroform	ug/kg	56.7	55.9	99	70-130	
Chloromethane	ug/kg	56.7	67.3	119	70-132	
cis-1,2-Dichloroethene	ug/kg	56.7	59.1	104	70-140	
cis-1,3-Dichloropropene	ug/kg	56.7	56.6	100	70-137	
Dibromochloromethane	ug/kg	56.7	56.7	100	70-130	
Dibromomethane	ug/kg	56.7	57.7	102	70-136	
Dichlorodifluoromethane	ug/kg	56.7	77.8	137	36-148	
Diisopropyl ether	ug/kg	56.7	53.2	94	70-139	
Ethylbenzene	ug/kg	56.7	58.7	103	70-137	
Hexachloro-1,3-butadiene	ug/kg	56.7	56.4	99	70-145	
Isopropylbenzene (Cumene)	ug/kg	56.7	60.6	107	70-141	
m&p-Xylene	ug/kg	113	121	107	70-140	
Methyl-tert-butyl ether	ug/kg	56.7	54.8	97	45-150	
Methylene Chloride	ug/kg	56.7	52.3	92	70-133	
n-Butylbenzene	ug/kg	56.7	57.2	101	65-155	
n-Propylbenzene	ug/kg	56.7	57.1	101	70-148	
Naphthalene	ug/kg	56.7	59.6	105	70-148	
o-Xylene	ug/kg	56.7	57.9	102	70-141	
p-Isopropyltoluene	ug/kg	56.7	58.6	103	70-148	
sec-Butylbenzene	ug/kg	56.7	57.4	101	70-145	
Styrene	ug/kg	56.7	61.7	109	70-138	
tert-Butylbenzene	ug/kg	56.7	57.4	101	70-143	
Tetrachloroethene	ug/kg	56.7	56.2	99	70-140	
Toluene	ug/kg	56.7	58.1	103	70-130	
trans-1,2-Dichloroethene	ug/kg	56.7	58.5	103	70-136	

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QUALITY CONTROL DATA

Project: 32538-5 DOUBLE EAGLE-DIXON
Pace Project No.: 92135391

LABORATORY CONTROL SAMPLE: 859801

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
trans-1,3-Dichloropropene	ug/kg	56.7	60.8	107	70-138	
Trichloroethene	ug/kg	56.7	55.4	98	70-132	
Trichlorofluoromethane	ug/kg	56.7	62.5	110	69-134	
Vinyl acetate	ug/kg	113	108	96	24-161	
Vinyl chloride	ug/kg	56.7	58.5	103	55-140	
Xylene (Total)	ug/kg	170	179	105	70-141	
1,2-Dichloroethane-d4 (S)	%			94	70-132	
4-Bromofluorobenzene (S)	%			103	70-130	
Dibromofluoromethane (S)	%			101	70-130	
Toluene-d8 (S)	%			102	70-130	

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QUALITY CONTROL DATA

Project: 32538-5 DOUBLE EAGLE-DIXON
Pace Project No.: 92135391

QC Batch: OEXT/19341 — Analysis Method: EPA 8015 Modified
QC Batch Method: EPA 3546 — Analysis Description: 8015 Solid GCSV
Associated Lab Samples: 92135391008, 92135391009, 92135391010

METHOD BLANK: 854341 — Matrix: Solid
Associated Lab Samples: 92135391008, 92135391009, 92135391010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diesel Components	mg/kg	ND	5.0	10/17/12 21:45	
n-Pentacosane (S)	%	88	41-119	10/17/12 21:45	

LABORATORY CONTROL SAMPLE: 854342

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Diesel Components	mg/kg	66.7	43.0	65	49-113	
n-Pentacosane (S)	%			85	41-119	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 854343 854344

Parameter	Units	92135424008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Diesel Components	mg/kg	46.5	75.1	75.1	99.5	163	71	155	10-146	48	30	M3,R2
n-Pentacosane (S)	%						100	125	41-119			S0

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QUALITY CONTROL DATA

Project: 32538-5 DOUBLE EAGLE-DIXON
Pace Project No.: 92135391

QC Batch: OEXT/19355 Analysis Method: EPA 8082
QC Batch Method: EPA 3546 Analysis Description: 8082 GCS PCB
Associated Lab Samples: 92135391005, 92135391006, 92135391007

METHOD BLANK: 854899 Matrix: Solid
Associated Lab Samples: 92135391005, 92135391006, 92135391007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	ND	33.0	10/19/12 15:38	
PCB-1221 (Aroclor 1221)	ug/kg	ND	33.0	10/19/12 15:38	
PCB-1232 (Aroclor 1232)	ug/kg	ND	33.0	10/19/12 15:38	
PCB-1242 (Aroclor 1242)	ug/kg	ND	33.0	10/19/12 15:38	
PCB-1248 (Aroclor 1248)	ug/kg	ND	33.0	10/19/12 15:38	
PCB-1254 (Aroclor 1254)	ug/kg	ND	33.0	10/19/12 15:38	
PCB-1260 (Aroclor 1260)	ug/kg	ND	33.0	10/19/12 15:38	
Decachlorobiphenyl (S)	%	73	21-132	10/19/12 15:38	

LABORATORY CONTROL SAMPLE: 854900

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	167	122	73	49-110	
PCB-1260 (Aroclor 1260)	ug/kg	167	138	83	50-110	
Decachlorobiphenyl (S)	%			79	21-132	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 854901 854902

Parameter	Units	92135391005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
PCB-1016 (Aroclor 1016)	ug/kg	ND	169	169	118	127	70	75	49-150	7	30	
PCB-1260 (Aroclor 1260)	ug/kg	368	169	169	470	348	61	-12	50-150	30	30	M3
Decachlorobiphenyl (S)	%						75	77	21-132			

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QUALITY CONTROL DATA

Project: 32538-5 DOUBLE EAGLE-DIXON
Pace Project No.: 92135391

QC Batch: OEXT/19343 Analysis Method: EPA 8270
QC Batch Method: EPA 3546 Analysis Description: 8270 Solid MSSV Microwave PAH
Associated Lab Samples: 92135391001, 92135391002, 92135391003, 92135391004

METHOD BLANK: 854370 Matrix: Solid
Associated Lab Samples: 92135391001, 92135391002, 92135391003, 92135391004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/kg	ND	330	10/18/12 17:45	
2-Methylnaphthalene	ug/kg	ND	330	10/18/12 17:45	
Acenaphthene	ug/kg	ND	330	10/18/12 17:45	
Acenaphthylene	ug/kg	ND	330	10/18/12 17:45	
Anthracene	ug/kg	ND	330	10/18/12 17:45	
Benzo(a)anthracene	ug/kg	ND	330	10/18/12 17:45	
Benzo(a)pyrene	ug/kg	ND	330	10/18/12 17:45	
Benzo(b)fluoranthene	ug/kg	ND	330	10/18/12 17:45	
Benzo(g,h,i)perylene	ug/kg	ND	330	10/18/12 17:45	
Benzo(k)fluoranthene	ug/kg	ND	330	10/18/12 17:45	
Chrysene	ug/kg	ND	330	10/18/12 17:45	
Dibenz(a,h)anthracene	ug/kg	ND	330	10/18/12 17:45	
Fluoranthene	ug/kg	ND	330	10/18/12 17:45	
Fluorene	ug/kg	ND	330	10/18/12 17:45	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	330	10/18/12 17:45	
Naphthalene	ug/kg	ND	330	10/18/12 17:45	
Phenanthrene	ug/kg	ND	330	10/18/12 17:45	
Pyrene	ug/kg	ND	330	10/18/12 17:45	
2-Fluorobiphenyl (S)	%	75	30-110	10/18/12 17:45	
Nitrobenzene-d5 (S)	%	73	23-110	10/18/12 17:45	
Terphenyl-d14 (S)	%	81	28-110	10/18/12 17:45	

LABORATORY CONTROL SAMPLE: 854371

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/kg	1670	1260	76	45-105	
2-Methylnaphthalene	ug/kg	1670	1250	75	39-112	
Acenaphthene	ug/kg	1670	1340	80	38-117	
Acenaphthylene	ug/kg	1670	1310	79	46-107	
Anthracene	ug/kg	1670	1410	85	50-110	
Benzo(a)anthracene	ug/kg	1670	1500	90	47-116	
Benzo(a)pyrene	ug/kg	1670	1540	92	47-106	
Benzo(b)fluoranthene	ug/kg	1670	1500	90	47-109	
Benzo(g,h,i)perylene	ug/kg	1670	1450	87	39-115	
Benzo(k)fluoranthene	ug/kg	1670	1440	86	45-117	
Chrysene	ug/kg	1670	1460	87	49-110	
Dibenz(a,h)anthracene	ug/kg	1670	1480	89	43-116	
Fluoranthene	ug/kg	1670	1510	91	50-114	
Fluorene	ug/kg	1670	1360	82	46-114	
Indeno(1,2,3-cd)pyrene	ug/kg	1670	1500	90	42-115	
Naphthalene	ug/kg	1670	1250	75	41-110	

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QUALITY CONTROL DATA

Project: 32538-5 DOUBLE EAGLE-DIXON
Pace Project No.: 92135391

LABORATORY CONTROL SAMPLE: 854371

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenanthrene	ug/kg	1670	1390	83	50-110	
Pyrene	ug/kg	1670	1430	86	45-114	
2-Fluorobiphenyl (S)	%			74	30-110	
Nitrobenzene-d5 (S)	%			73	23-110	
Terphenyl-d14 (S)	%			74	28-110	

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QUALITY CONTROL DATA

Project: 32538-5 DOUBLE EAGLE-DIXON
Pace Project No.: 92135391

QC Batch: PMST/5061 — Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 — Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 92135391001, 92135391002, 92135391003, 92135391004, 92135391005, 92135391006, 92135391007, 92135391008, 92135391009, 92135391010

SAMPLE DUPLICATE: 854241

Parameter	Units	3570988001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	36.6	35.8	2	25	

SAMPLE DUPLICATE: 854246

Parameter	Units	92135391010 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	21.2	20.0	6	25	

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QUALIFIERS

Project: 32538-5 DOUBLE EAGLE-DIXON
Pace Project No.: 92135391

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.

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

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

TNI - The NELAC Institute.

LABORATORIES

PASI-A	Pace Analytical Services - Asheville
PASI-C	Pace Analytical Services - Charlotte

ANALYTE QUALIFIERS

D6	The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.
M3	Matrix spike recovery was outside laboratory control limits due to matrix interferences.
R2	RPD value was outside control limits due to matrix interference
S0	Surrogate recovery outside laboratory control limits.
S4	Surrogate recovery not evaluated against control limits due to sample dilution.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 32538-5 DOUBLE EAGLE-DIXON
Pace Project No.: 92135391

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92135391008	**SB-3-15-17**	EPA 3546	OEXT/19341	EPA 8015 Modified	GCSV/13101
92135391009	**SB-101-15-17**	EPA 3546	OEXT/19341	EPA 8015 Modified	GCSV/13101
92135391010	**SB-2-10-12**	EPA 3546	OEXT/19341	EPA 8015 Modified	GCSV/13101
92135391005	**SB-1-6-8**	EPA 3546	OEXT/19355	EPA 8082	GCSV/13126
92135391006	**SB-1-8-10**	EPA 3546	OEXT/19355	EPA 8082	GCSV/13126
92135391007	**SB-100-8-10**	EPA 3546	OEXT/19355	EPA 8082	GCSV/13126
92135391008	**SB-3-15-17**	EPA 5035A/5030B	GCV/6340	EPA 8015 Modified	GCV/6341
92135391009	**SB-101-15-17**	EPA 5035A/5030B	GCV/6340	EPA 8015 Modified	GCV/6341
92135391010	**SB-2-10-12**	EPA 5035A/5030B	GCV/6340	EPA 8015 Modified	GCV/6341
92135391001	**SB-4-33.5-35.5**	EPA 3050	MPRP/11765	EPA 6010	ICP/10774
92135391002	**SB-6-51-53**	EPA 3050	MPRP/11765	EPA 6010	ICP/10774
92135391003	**SB-5-15-17**	EPA 3050	MPRP/11765	EPA 6010	ICP/10774
92135391004	**SB-102-15-17**	EPA 3050	MPRP/11765	EPA 6010	ICP/10774
92135391001	**SB-4-33.5-35.5**	EPA 7471	MERP/4614	EPA 7471	MERC/4518
92135391002	**SB-6-51-53**	EPA 7471	MERP/4614	EPA 7471	MERC/4518
92135391003	**SB-5-15-17**	EPA 7471	MERP/4614	EPA 7471	MERC/4518
92135391004	**SB-102-15-17**	EPA 7471	MERP/4614	EPA 7471	MERC/4518
92135391001	**SB-4-33.5-35.5**	EPA 3546	OEXT/19343	EPA 8270	MSSV/6877
92135391002	**SB-6-51-53**	EPA 3546	OEXT/19343	EPA 8270	MSSV/6877
92135391003	**SB-5-15-17**	EPA 3546	OEXT/19343	EPA 8270	MSSV/6877
92135391004	**SB-102-15-17**	EPA 3546	OEXT/19343	EPA 8270	MSSV/6877
92135391001	**SB-4-33.5-35.5**	EPA 8260	MSV/20811		
92135391002	**SB-6-51-53**	EPA 8260	MSV/20811		
92135391003	**SB-5-15-17**	EPA 8260	MSV/20811		
92135391004	**SB-102-15-17**	EPA 8260	MSV/20838		
92135391011	**TB 101512-1**	EPA 8260	MSV/20830		
92135391001	**SB-4-33.5-35.5**	ASTM D2974-87	PMST/5061		
92135391002	**SB-6-51-53**	ASTM D2974-87	PMST/5061		
92135391003	**SB-5-15-17**	ASTM D2974-87	PMST/5061		
92135391004	**SB-102-15-17**	ASTM D2974-87	PMST/5061		
92135391005	**SB-1-6-8**	ASTM D2974-87	PMST/5061		
92135391006	**SB-1-8-10**	ASTM D2974-87	PMST/5061		
92135391007	**SB-100-8-10**	ASTM D2974-87	PMST/5061		
92135391008	**SB-3-15-17**	ASTM D2974-87	PMST/5061		
92135391009	**SB-101-15-17**	ASTM D2974-87	PMST/5061		
92135391010	**SB-2-10-12**	ASTM D2974-87	PMST/5061		

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October 30, 2012

Ms. Erin Huntley
WSP Environmental Strategies
750 Holiday Drive
Suite 410
Pittsburgh, PA 15220

RE: Project: 32538-5 Double Eagle-Dixon
Pace Project No.: 92135830

Dear Ms. Huntley:
Enclosed are the analytical results for sample(s) received by the laboratory on October 19, 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.

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

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

Sincerely,

Kevin Godwin

kevin.godwin@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: 32538-5 Double Eagle-Dixon
Pace Project No.: 92135830

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

Asheville Certification IDs
2225 Riverside Dr., Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
West Virginia Certification #: 356
Virginia/VELAP Certification #: 460222

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SAMPLE SUMMARY

Project: 32538-5 Double Eagle-Dixon
Pace Project No.: 92135830

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92135830001	**TB101612-1**	Solid	10/16/12 14:00	10/19/12 08:25
92135830002	**SB-7-31-33**	Solid	10/16/12 14:55	10/19/12 08:25
92135830003	**EB101612-1**	Water	10/16/12 15:30	10/19/12 08:25
92135830004	**TB101812-1**	Water	10/16/12 12:00	10/19/12 08:25
92135830005	**MW-3**	Water	10/18/12 13:00	10/19/12 08:25
92135830006	**MW-1**	Water	10/18/12 16:00	10/19/12 08:25
92135830007	**MW-4**	Water	10/18/12 17:30	10/19/12 08:25
92135830008	**MW-100**	Water	10/18/12 17:45	10/19/12 08:25
92135830009	**EB101812-1**	Water	10/18/12 18:00	10/19/12 08:25

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SAMPLE ANALYTE COUNT

Project: 32538-5 Double Eagle-Dixon
Pace Project No.: 92135830

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92135830001	**TB101612-1**	EPA 8260	DLK	71	PASI-C
92135830002	**SB-7-31-33**	EPA 6010	JMW	7	PASI-A
		EPA 7471	SH1	1	PASI-A
		EPA 8270	PPM	21	PASI-C
		EPA 8260	DLK	71	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92135830003	**EB101612-1**	EPA 6010	SH1	7	PASI-A
		EPA 7470	SH1	1	PASI-A
		EPA 8270	PPM	21	PASI-C
		EPA 8260	KJM	63	PASI-C
92135830004	**TB101812-1**	EPA 8260	KJM	63	PASI-C
92135830005	**MW-3**	EPA 6010	SH1	7	PASI-A
		EPA 7470	SH1	1	PASI-A
		EPA 8270	PPM	21	PASI-C
		EPA 8260	KJM	64	PASI-C
92135830006	**MW-1**	EPA 6010	SH1	7	PASI-A
		EPA 7470	SH1	1	PASI-A
		EPA 8270	PPM	21	PASI-C
		EPA 8260	KJM	64	PASI-C
92135830007	**MW-4**	EPA 6010	SH1	7	PASI-A
		EPA 7470	SH1	1	PASI-A
		EPA 8270	PPM	21	PASI-C
		EPA 8260	KJM	64	PASI-C
92135830008	**MW-100**	EPA 6010	SH1	7	PASI-A
		EPA 7470	SH1	1	PASI-A
		EPA 8270	PPM	21	PASI-C
		EPA 8260	KJM	63	PASI-C
92135830009	**EB101812-1**	EPA 6010	SH1	7	PASI-A
		EPA 7470	SH1	1	PASI-A
		EPA 8270	PPM	21	PASI-C
		EPA 8260	KJM	63	PASI-C

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PROJECT NARRATIVE

Project: 32538-5 Double Eagle-Dixon
Pace Project No.: 92135830

Method: **EPA 6010**
Description: 6010 MET ICP
Client: WSP Environmental Strategies
Date: October 30, 2012

General Information:
7 samples were analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below.

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

Sample Preparation:
The samples were prepared in accordance with EPA 3010 with any exceptions noted below.
The samples were prepared in accordance with EPA 3050 with any exceptions noted below.

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

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

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

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

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

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

QC Batch: MPRP/11796

D6: The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.

- DUP (Lab ID: 858669)
  - Cadmium

Additional Comments:

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PROJECT NARRATIVE

Project: 32538-5 Double Eagle-Dixon
Pace Project No.: 92135830

Method: **EPA 7470**
Description: 7470 Mercury
Client: WSP Environmental Strategies
Date: October 30, 2012

General Information:
6 samples were analyzed for EPA 7470. All samples were received in acceptable condition with any exceptions noted below.

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

Sample Preparation:
The samples were prepared in accordance with EPA 7470 with any exceptions noted below.

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

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

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

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

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

Additional Comments:

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PROJECT NARRATIVE

Project: 32538-5 Double Eagle-Dixon
Pace Project No.: 92135830

Method: **EPA 7471**
Description: 7471 Mercury
Client: WSP Environmental Strategies
Date: October 30, 2012

General Information:
1 sample was analyzed for EPA 7471. All samples were received in acceptable condition with any exceptions noted below.

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

Sample Preparation:
The samples were prepared in accordance with EPA 7471 with any exceptions noted below.

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

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

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

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

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

QC Batch: MERP/4616

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92136018001

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

- MS (Lab ID: 859193)
  - Mercury

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

Additional Comments:

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PROJECT NARRATIVE

Project: 32538-5 Double Eagle-Dixon
Pace Project No.: 92135830

Method: **EPA 8270**
Description: 8270 MSSV PAH Microwave
Client: WSP Environmental Strategies
Date: October 30, 2012

General Information:
1 sample was analyzed for EPA 8270. All samples were received in acceptable condition with any exceptions noted below.

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

Sample Preparation:
The samples were prepared in accordance with EPA 3546 with any exceptions noted below.

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

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

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

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

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

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

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

Additional Comments:

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PROJECT NARRATIVE

Project: 32538-5 Double Eagle-Dixon
Pace Project No.: 92135830

Method: **EPA 8270**
Description: 8270 MSSV Semivolatile Organic
Client: WSP Environmental Strategies
Date: October 30, 2012

General Information:
6 samples were analyzed for EPA 8270. All samples were received in acceptable condition with any exceptions noted below.

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

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

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

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

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

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

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

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

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

Additional Comments:

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PROJECT NARRATIVE

Project: 32538-5 Double Eagle-Dixon
Pace Project No.: 92135830

Method: **EPA 8260**
Description: 8260 MSV Low Level
Client: WSP Environmental Strategies
Date: October 30, 2012

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

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

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

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

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

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

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

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

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

QC Batch: MSV/20833

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92135605008

D6: The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.

- MSD (Lab ID: 859654)
  - 1,1-Dichloroethene
  - Benzene
  - Chlorobenzene
  - Toluene
  - Trichloroethene

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

- MSD (Lab ID: 859654)
  - 1,1-Dichloroethene
  - Benzene
  - Chlorobenzene
  - Toluene
  - Trichloroethene

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PROJECT NARRATIVE

Project: 32538-5 Double Eagle-Dixon
Pace Project No.: 92135830

Method: **EPA 8260**
Description: 8260 MSV Low Level
Client: WSP Environmental Strategies
Date: October 30, 2012

Additional Comments:

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PROJECT NARRATIVE

Project: 32538-5 Double Eagle-Dixon
Pace Project No.: 92135830

Method: **EPA 8260**
Description: 8260/5035A Volatile Organics
Client: WSP Environmental Strategies
Date: October 30, 2012

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

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

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

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

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

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

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

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

QC Batch: MSV/20888

L0: Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

- LCS (Lab ID: 861896)
  - 1,1-Dichloropropene
  - Carbon tetrachloride

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

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

Additional Comments:

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

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ANALYTICAL RESULTS

Project: 32538-5 Double Eagle-Dixon
Pace Project No.: 92135830

Sample: TB101612-1 **Lab ID: 92135830001** Collected: 10/16/12 14:00 Received: 10/19/12 08:25 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		10/29/12 12:00	67-64-1	
Benzene	ND	ug/kg	5.0	1		10/29/12 12:00	71-43-2	
Bromobenzene	ND	ug/kg	5.0	1		10/29/12 12:00	108-86-1	
Bromochloromethane	ND	ug/kg	5.0	1		10/29/12 12:00	74-97-5	
Bromodichloromethane	ND	ug/kg	5.0	1		10/29/12 12:00	75-27-4	
Bromoform	ND	ug/kg	5.0	1		10/29/12 12:00	75-25-2	
Bromomethane	ND	ug/kg	10.0	1		10/29/12 12:00	74-83-9	
2-Butanone (MEK)	ND	ug/kg	100	1		10/29/12 12:00	78-93-3	
n-Butylbenzene	ND	ug/kg	5.0	1		10/29/12 12:00	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.0	1		10/29/12 12:00	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.0	1		10/29/12 12:00	98-06-6	
Carbon tetrachloride	ND	ug/kg	5.0	1		10/29/12 12:00	56-23-5	
Chlorobenzene	ND	ug/kg	5.0	1		10/29/12 12:00	108-90-7	
Chloroethane	ND	ug/kg	10.0	1		10/29/12 12:00	75-00-3	
Chloroform	ND	ug/kg	5.0	1		10/29/12 12:00	67-66-3	
Chloromethane	ND	ug/kg	10.0	1		10/29/12 12:00	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.0	1		10/29/12 12:00	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.0	1		10/29/12 12:00	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	5.0	1		10/29/12 12:00	96-12-8	
Dibromochloromethane	ND	ug/kg	5.0	1		10/29/12 12:00	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.0	1		10/29/12 12:00	106-93-4	
Dibromomethane	ND	ug/kg	5.0	1		10/29/12 12:00	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.0	1		10/29/12 12:00	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.0	1		10/29/12 12:00	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.0	1		10/29/12 12:00	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	10.0	1		10/29/12 12:00	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.0	1		10/29/12 12:00	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.0	1		10/29/12 12:00	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.0	1		10/29/12 12:00	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.0	1		10/29/12 12:00	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.0	1		10/29/12 12:00	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.0	1		10/29/12 12:00	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.0	1		10/29/12 12:00	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.0	1		10/29/12 12:00	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.0	1		10/29/12 12:00	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.0	1		10/29/12 12:00	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.0	1		10/29/12 12:00	10061-02-6	
Diisopropyl ether	ND	ug/kg	5.0	1		10/29/12 12:00	108-20-3	
Ethylbenzene	ND	ug/kg	5.0	1		10/29/12 12:00	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	5.0	1		10/29/12 12:00	87-68-3	
2-Hexanone	ND	ug/kg	50.0	1		10/29/12 12:00	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	5.0	1		10/29/12 12:00	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.0	1		10/29/12 12:00	99-87-6	
Methylene Chloride	ND	ug/kg	20.0	1		10/29/12 12:00	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	50.0	1		10/29/12 12:00	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.0	1		10/29/12 12:00	1634-04-4	

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ANALYTICAL RESULTS

Project: 32538-5 Double Eagle-Dixon
Pace Project No.: 92135830

Sample: TB101612-1 **Lab ID: 92135830001** Collected: 10/16/12 14:00 Received: 10/19/12 08:25 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							
Naphthalene	ND	ug/kg	5.0	1		10/29/12 12:00	91-20-3	
n-Propylbenzene	ND	ug/kg	5.0	1		10/29/12 12:00	103-65-1	
Styrene	ND	ug/kg	5.0	1		10/29/12 12:00	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.0	1		10/29/12 12:00	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.0	1		10/29/12 12:00	79-34-5	
Tetrachloroethene	ND	ug/kg	5.0	1		10/29/12 12:00	127-18-4	
Toluene	ND	ug/kg	5.0	1		10/29/12 12:00	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.0	1		10/29/12 12:00	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.0	1		10/29/12 12:00	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.0	1		10/29/12 12:00	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.0	1		10/29/12 12:00	79-00-5	
Trichloroethene	ND	ug/kg	5.0	1		10/29/12 12:00	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.0	1		10/29/12 12:00	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.0	1		10/29/12 12:00	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.0	1		10/29/12 12:00	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.0	1		10/29/12 12:00	108-67-8	
Vinyl acetate	ND	ug/kg	50.0	1		10/29/12 12:00	108-05-4	
Vinyl chloride	ND	ug/kg	10.0	1		10/29/12 12:00	75-01-4	
Xylene (Total)	ND	ug/kg	10.0	1		10/29/12 12:00	1330-20-7	
m&p-Xylene	ND	ug/kg	10.0	1		10/29/12 12:00	179601-23-1	
o-Xylene	ND	ug/kg	5.0	1		10/29/12 12:00	95-47-6	
Surrogates								
Dibromofluoromethane (S)	110	%	70-130	1		10/29/12 12:00	1868-53-7	
Toluene-d8 (S)	99	%	70-130	1		10/29/12 12:00	2037-26-5	
4-Bromofluorobenzene (S)	99	%	70-130	1		10/29/12 12:00	460-00-4	
1,2-Dichloroethane-d4 (S)	113	%	70-132	1		10/29/12 12:00	17060-07-0	

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ANALYTICAL RESULTS

Project: 32538-5 Double Eagle-Dixon
Pace Project No.: 92135830

Sample: SB-7-31-33 **Lab ID: 92135830002** Collected: 10/16/12 14:55 Received: 10/19/12 08:25 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	**1.9**	mg/kg	0.57	1	10/24/12 12:30	10/25/12 02:27	7440-38-2	
Barium	**220**	mg/kg	0.57	1	10/24/12 12:30	10/25/12 02:27	7440-39-3	
Cadmium	**0.80**	mg/kg	0.11	1	10/24/12 12:30	10/25/12 02:27	7440-43-9	
Chromium	**6.4**	mg/kg	0.57	1	10/24/12 12:30	10/25/12 02:27	7440-47-3	
Lead	**5.9**	mg/kg	0.57	1	10/24/12 12:30	10/25/12 02:27	7439-92-1	
Selenium	ND	mg/kg	1.1	1	10/24/12 12:30	10/25/12 02:27	7782-49-2	
Silver	ND	mg/kg	0.57	1	10/24/12 12:30	10/25/12 02:27	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	ND	mg/kg	0.0046	1	10/25/12 12:15	10/25/12 16:03	7439-97-6	
8270 MSSV PAH Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	394	1	10/21/12 16:30	10/23/12 14:47	83-32-9	
Acenaphthylene	ND	ug/kg	394	1	10/21/12 16:30	10/23/12 14:47	208-96-8	
Anthracene	ND	ug/kg	394	1	10/21/12 16:30	10/23/12 14:47	120-12-7	
Benzo(a)anthracene	ND	ug/kg	394	1	10/21/12 16:30	10/23/12 14:47	56-55-3	
Benzo(a)pyrene	ND	ug/kg	394	1	10/21/12 16:30	10/23/12 14:47	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	394	1	10/21/12 16:30	10/23/12 14:47	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	394	1	10/21/12 16:30	10/23/12 14:47	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	394	1	10/21/12 16:30	10/23/12 14:47	207-08-9	
Chrysene	ND	ug/kg	394	1	10/21/12 16:30	10/23/12 14:47	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	394	1	10/21/12 16:30	10/23/12 14:47	53-70-3	
Fluoranthene	ND	ug/kg	394	1	10/21/12 16:30	10/23/12 14:47	206-44-0	
Fluorene	ND	ug/kg	394	1	10/21/12 16:30	10/23/12 14:47	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	394	1	10/21/12 16:30	10/23/12 14:47	193-39-5	
1-Methylnaphthalene	ND	ug/kg	394	1	10/21/12 16:30	10/23/12 14:47	90-12-0	
2-Methylnaphthalene	ND	ug/kg	394	1	10/21/12 16:30	10/23/12 14:47	91-57-6	
Naphthalene	ND	ug/kg	394	1	10/21/12 16:30	10/23/12 14:47	91-20-3	
Phenanthrene	ND	ug/kg	394	1	10/21/12 16:30	10/23/12 14:47	85-01-8	
Pyrene	ND	ug/kg	394	1	10/21/12 16:30	10/23/12 14:47	129-00-0	
Surrogates								
Nitrobenzene-d5 (S)	79	%	23-110	1	10/21/12 16:30	10/23/12 14:47	4165-60-0	
2-Fluorobiphenyl (S)	74	%	30-110	1	10/21/12 16:30	10/23/12 14:47	321-60-8	
Terphenyl-d14 (S)	82	%	28-110	1	10/21/12 16:30	10/23/12 14:47	1718-51-0	
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	149	1		10/29/12 12:19	67-64-1	
Benzene	ND	ug/kg	7.5	1		10/29/12 12:19	71-43-2	
Bromobenzene	ND	ug/kg	7.5	1		10/29/12 12:19	108-86-1	
Bromochloromethane	ND	ug/kg	7.5	1		10/29/12 12:19	74-97-5	
Bromodichloromethane	ND	ug/kg	7.5	1		10/29/12 12:19	75-27-4	
Bromoform	ND	ug/kg	7.5	1		10/29/12 12:19	75-25-2	
Bromomethane	ND	ug/kg	14.9	1		10/29/12 12:19	74-83-9	
2-Butanone (MEK)	ND	ug/kg	149	1		10/29/12 12:19	78-93-3	
n-Butylbenzene	ND	ug/kg	7.5	1		10/29/12 12:19	104-51-8	

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ANALYTICAL RESULTS

Project: 32538-5 Double Eagle-Dixon
Pace Project No.: 92135830

Sample: SB-7-31-33 **Lab ID: 92135830002** Collected: 10/16/12 14:55 Received: 10/19/12 08:25 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	7.5	1		10/29/12 12:19	135-98-8	
tert-Butylbenzene	ND	ug/kg	7.5	1		10/29/12 12:19	98-06-6	
Carbon tetrachloride	ND	ug/kg	7.5	1		10/29/12 12:19	56-23-5	
Chlorobenzene	ND	ug/kg	7.5	1		10/29/12 12:19	108-90-7	
Chloroethane	ND	ug/kg	14.9	1		10/29/12 12:19	75-00-3	
Chloroform	ND	ug/kg	7.5	1		10/29/12 12:19	67-66-3	
Chloromethane	ND	ug/kg	14.9	1		10/29/12 12:19	74-87-3	
2-Chlorotoluene	ND	ug/kg	7.5	1		10/29/12 12:19	95-49-8	
4-Chlorotoluene	ND	ug/kg	7.5	1		10/29/12 12:19	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	7.5	1		10/29/12 12:19	96-12-8	
Dibromochloromethane	ND	ug/kg	7.5	1		10/29/12 12:19	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	7.5	1		10/29/12 12:19	106-93-4	
Dibromomethane	ND	ug/kg	7.5	1		10/29/12 12:19	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	7.5	1		10/29/12 12:19	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	7.5	1		10/29/12 12:19	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	7.5	1		10/29/12 12:19	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	14.9	1		10/29/12 12:19	75-71-8	
1,1-Dichloroethane	ND	ug/kg	7.5	1		10/29/12 12:19	75-34-3	
1,2-Dichloroethane	ND	ug/kg	7.5	1		10/29/12 12:19	107-06-2	
1,1-Dichloroethene	ND	ug/kg	7.5	1		10/29/12 12:19	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	7.5	1		10/29/12 12:19	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	7.5	1		10/29/12 12:19	156-60-5	
1,2-Dichloropropane	ND	ug/kg	7.5	1		10/29/12 12:19	78-87-5	
1,3-Dichloropropane	ND	ug/kg	7.5	1		10/29/12 12:19	142-28-9	
2,2-Dichloropropane	ND	ug/kg	7.5	1		10/29/12 12:19	594-20-7	
1,1-Dichloropropene	ND	ug/kg	7.5	1		10/29/12 12:19	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	7.5	1		10/29/12 12:19	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	7.5	1		10/29/12 12:19	10061-02-6	
Diisopropyl ether	ND	ug/kg	7.5	1		10/29/12 12:19	108-20-3	
Ethylbenzene	ND	ug/kg	7.5	1		10/29/12 12:19	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	7.5	1		10/29/12 12:19	87-68-3	
2-Hexanone	ND	ug/kg	74.5	1		10/29/12 12:19	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	7.5	1		10/29/12 12:19	98-82-8	
p-Isopropyltoluene	ND	ug/kg	7.5	1		10/29/12 12:19	99-87-6	
Methylene Chloride	ND	ug/kg	29.8	1		10/29/12 12:19	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	74.5	1		10/29/12 12:19	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	7.5	1		10/29/12 12:19	1634-04-4	
Naphthalene	ND	ug/kg	7.5	1		10/29/12 12:19	91-20-3	
n-Propylbenzene	ND	ug/kg	7.5	1		10/29/12 12:19	103-65-1	
Styrene	ND	ug/kg	7.5	1		10/29/12 12:19	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	7.5	1		10/29/12 12:19	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	7.5	1		10/29/12 12:19	79-34-5	
Tetrachloroethene	ND	ug/kg	7.5	1		10/29/12 12:19	127-18-4	
Toluene	ND	ug/kg	7.5	1		10/29/12 12:19	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	7.5	1		10/29/12 12:19	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	7.5	1		10/29/12 12:19	120-82-1	

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ANALYTICAL RESULTS

Project: 32538-5 Double Eagle-Dixon
Pace Project No.: 92135830

Sample: SB-7-31-33 **Lab ID: 92135830002** Collected: 10/16/12 14:55 Received: 10/19/12 08:25 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							
1,1,1-Trichloroethane	ND	ug/kg	7.5	1		10/29/12 12:19	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	7.5	1		10/29/12 12:19	79-00-5	
Trichloroethene	ND	ug/kg	7.5	1		10/29/12 12:19	79-01-6	
Trichlorofluoromethane	ND	ug/kg	7.5	1		10/29/12 12:19	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	7.5	1		10/29/12 12:19	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	7.5	1		10/29/12 12:19	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	7.5	1		10/29/12 12:19	108-67-8	
Vinyl acetate	ND	ug/kg	74.5	1		10/29/12 12:19	108-05-4	
Vinyl chloride	ND	ug/kg	14.9	1		10/29/12 12:19	75-01-4	
Xylene (Total)	ND	ug/kg	14.9	1		10/29/12 12:19	1330-20-7	
m&p-Xylene	ND	ug/kg	14.9	1		10/29/12 12:19	179601-23-1	
o-Xylene	ND	ug/kg	7.5	1		10/29/12 12:19	95-47-6	
Surrogates								
Dibromofluoromethane (S)	109	%	70-130	1		10/29/12 12:19	1868-53-7	
Toluene-d8 (S)	101	%	70-130	1		10/29/12 12:19	2037-26-5	
4-Bromofluorobenzene (S)	99	%	70-130	1		10/29/12 12:19	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	70-132	1		10/29/12 12:19	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**16.2**	%	0.10	1		10/20/12 10:47		

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ANALYTICAL RESULTS

Project: 32538-5 Double Eagle-Dixon
Pace Project No.: 92135830

Sample: EB101612-1 **Lab ID: 92135830003** Collected: 10/16/12 15:30 Received: 10/19/12 08:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Arsenic	ND	ug/L	5.0	1	10/20/12 12:50	10/22/12 19:24	7440-38-2	
Barium	ND	ug/L	5.0	1	10/20/12 12:50	10/22/12 19:24	7440-39-3	
Cadmium	ND	ug/L	1.0	1	10/20/12 12:50	10/22/12 19:24	7440-43-9	
Chromium	ND	ug/L	5.0	1	10/20/12 12:50	10/22/12 19:24	7440-47-3	
Lead	ND	ug/L	5.0	1	10/20/12 12:50	10/22/12 19:24	7439-92-1	
Selenium	ND	ug/L	10.0	1	10/20/12 12:50	10/22/12 19:24	7782-49-2	
Silver	ND	ug/L	5.0	1	10/20/12 12:50	10/22/12 19:24	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	10/26/12 13:10	10/26/12 17:41	7439-97-6	
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	10.0	1	10/21/12 16:30	10/23/12 16:30	83-32-9	
Acenaphthylene	ND	ug/L	10.0	1	10/21/12 16:30	10/23/12 16:30	208-96-8	
Anthracene	ND	ug/L	10.0	1	10/21/12 16:30	10/23/12 16:30	120-12-7	
Benzo(a)anthracene	ND	ug/L	10.0	1	10/21/12 16:30	10/23/12 16:30	56-55-3	
Benzo(a)pyrene	ND	ug/L	10.0	1	10/21/12 16:30	10/23/12 16:30	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	10.0	1	10/21/12 16:30	10/23/12 16:30	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	10.0	1	10/21/12 16:30	10/23/12 16:30	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	10.0	1	10/21/12 16:30	10/23/12 16:30	207-08-9	
Chrysene	ND	ug/L	10.0	1	10/21/12 16:30	10/23/12 16:30	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	10.0	1	10/21/12 16:30	10/23/12 16:30	53-70-3	
Fluoranthene	ND	ug/L	10.0	1	10/21/12 16:30	10/23/12 16:30	206-44-0	
Fluorene	ND	ug/L	10.0	1	10/21/12 16:30	10/23/12 16:30	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	10.0	1	10/21/12 16:30	10/23/12 16:30	193-39-5	
1-Methylnaphthalene	ND	ug/L	10.0	1	10/21/12 16:30	10/23/12 16:30	90-12-0	
2-Methylnaphthalene	ND	ug/L	10.0	1	10/21/12 16:30	10/23/12 16:30	91-57-6	
Naphthalene	ND	ug/L	10.0	1	10/21/12 16:30	10/23/12 16:30	91-20-3	
Phenanthrene	ND	ug/L	10.0	1	10/21/12 16:30	10/23/12 16:30	85-01-8	
Pyrene	ND	ug/L	10.0	1	10/21/12 16:30	10/23/12 16:30	129-00-0	
Surrogates								
Nitrobenzene-d5 (S)	72	%	21-110	1	10/21/12 16:30	10/23/12 16:30	4165-60-0	
2-Fluorobiphenyl (S)	75	%	27-110	1	10/21/12 16:30	10/23/12 16:30	321-60-8	
Terphenyl-d14 (S)	72	%	31-107	1	10/21/12 16:30	10/23/12 16:30	1718-51-0	
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		10/24/12 19:12	67-64-1	
Benzene	ND	ug/L	1.0	1		10/24/12 19:12	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		10/24/12 19:12	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		10/24/12 19:12	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		10/24/12 19:12	75-27-4	
Bromoform	ND	ug/L	1.0	1		10/24/12 19:12	75-25-2	
Bromomethane	ND	ug/L	2.0	1		10/24/12 19:12	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		10/24/12 19:12	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		10/24/12 19:12	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		10/24/12 19:12	108-90-7	

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ANALYTICAL RESULTS

Project: 32538-5 Double Eagle-Dixon
Pace Project No.: 92135830

Sample: EB101612-1 **Lab ID: 92135830003** Collected: 10/16/12 15:30 Received: 10/19/12 08:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Chloroethane	ND	ug/L	1.0	1		10/24/12 19:12	75-00-3	
Chloroform	**1.1**	ug/L	1.0	1		10/24/12 19:12	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/24/12 19:12	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		10/24/12 19:12	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		10/24/12 19:12	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		10/24/12 19:12	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		10/24/12 19:12	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		10/24/12 19:12	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		10/24/12 19:12	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		10/24/12 19:12	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		10/24/12 19:12	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		10/24/12 19:12	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		10/24/12 19:12	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		10/24/12 19:12	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		10/24/12 19:12	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		10/24/12 19:12	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		10/24/12 19:12	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		10/24/12 19:12	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		10/24/12 19:12	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		10/24/12 19:12	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		10/24/12 19:12	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		10/24/12 19:12	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		10/24/12 19:12	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		10/24/12 19:12	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		10/24/12 19:12	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		10/24/12 19:12	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		10/24/12 19:12	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		10/24/12 19:12	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		10/24/12 19:12	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		10/24/12 19:12	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		10/24/12 19:12	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		10/24/12 19:12	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		10/24/12 19:12	91-20-3	
Styrene	ND	ug/L	1.0	1		10/24/12 19:12	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		10/24/12 19:12	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		10/24/12 19:12	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		10/24/12 19:12	127-18-4	
Toluene	ND	ug/L	1.0	1		10/24/12 19:12	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		10/24/12 19:12	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		10/24/12 19:12	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		10/24/12 19:12	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		10/24/12 19:12	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		10/24/12 19:12	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/24/12 19:12	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		10/24/12 19:12	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		10/24/12 19:12	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		10/24/12 19:12	75-01-4	

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ANALYTICAL RESULTS

Project: 32538-5 Double Eagle-Dixon
Pace Project No.: 92135830

Sample: EB101612-1 **Lab ID: 92135830003** Collected: 10/16/12 15:30 Received: 10/19/12 08:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
m&p-Xylene	ND	ug/L	2.0	1		10/24/12 19:12	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		10/24/12 19:12	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	99	%	70-130	1		10/24/12 19:12	460-00-4	
Dibromofluoromethane (S)	106	%	70-130	1		10/24/12 19:12	1868-53-7	
1,2-Dichloroethane-d4 (S)	109	%	70-130	1		10/24/12 19:12	17060-07-0	
Toluene-d8 (S)	98	%	70-130	1		10/24/12 19:12	2037-26-5	

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ANALYTICAL RESULTS

Project: 32538-5 Double Eagle-Dixon
Pace Project No.: 92135830

Sample: TB101812-1 **Lab ID: 92135830004** Collected: 10/16/12 12:00 Received: 10/19/12 08:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		10/24/12 19:31	67-64-1	
Benzene	ND	ug/L	1.0	1		10/24/12 19:31	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		10/24/12 19:31	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		10/24/12 19:31	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		10/24/12 19:31	75-27-4	
Bromoform	ND	ug/L	1.0	1		10/24/12 19:31	75-25-2	
Bromomethane	ND	ug/L	2.0	1		10/24/12 19:31	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		10/24/12 19:31	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		10/24/12 19:31	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		10/24/12 19:31	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/24/12 19:31	75-00-3	
Chloroform	ND	ug/L	1.0	1		10/24/12 19:31	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/24/12 19:31	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		10/24/12 19:31	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		10/24/12 19:31	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		10/24/12 19:31	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		10/24/12 19:31	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		10/24/12 19:31	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		10/24/12 19:31	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		10/24/12 19:31	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		10/24/12 19:31	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		10/24/12 19:31	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		10/24/12 19:31	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		10/24/12 19:31	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		10/24/12 19:31	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		10/24/12 19:31	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		10/24/12 19:31	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		10/24/12 19:31	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		10/24/12 19:31	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		10/24/12 19:31	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		10/24/12 19:31	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		10/24/12 19:31	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		10/24/12 19:31	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		10/24/12 19:31	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		10/24/12 19:31	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		10/24/12 19:31	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		10/24/12 19:31	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		10/24/12 19:31	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		10/24/12 19:31	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		10/24/12 19:31	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		10/24/12 19:31	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		10/24/12 19:31	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		10/24/12 19:31	91-20-3	
Styrene	ND	ug/L	1.0	1		10/24/12 19:31	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		10/24/12 19:31	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		10/24/12 19:31	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		10/24/12 19:31	127-18-4	

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ANALYTICAL RESULTS

Project: 32538-5 Double Eagle-Dixon
Pace Project No.: 92135830

Sample: TB101812-1 **Lab ID: 92135830004** Collected: 10/16/12 12:00 Received: 10/19/12 08:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Toluene	ND	ug/L	1.0	1		10/24/12 19:31	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		10/24/12 19:31	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		10/24/12 19:31	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		10/24/12 19:31	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		10/24/12 19:31	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		10/24/12 19:31	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/24/12 19:31	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		10/24/12 19:31	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		10/24/12 19:31	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		10/24/12 19:31	75-01-4	
m&p-Xylene	ND	ug/L	2.0	1		10/24/12 19:31	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		10/24/12 19:31	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	98	%	70-130	1		10/24/12 19:31	460-00-4	
Dibromofluoromethane (S)	105	%	70-130	1		10/24/12 19:31	1868-53-7	
1,2-Dichloroethane-d4 (S)	109	%	70-130	1		10/24/12 19:31	17060-07-0	
Toluene-d8 (S)	99	%	70-130	1		10/24/12 19:31	2037-26-5	

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ANALYTICAL RESULTS

Project: 32538-5 Double Eagle-Dixon
Pace Project No.: 92135830

Sample: MW-3 **Lab ID: 92135830005** Collected: 10/18/12 13:00 Received: 10/19/12 08:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Arsenic	ND	ug/L	5.0	1	10/20/12 12:50	10/22/12 19:27	7440-38-2	
Barium	**51.5**	ug/L	5.0	1	10/20/12 12:50	10/22/12 19:27	7440-39-3	
Cadmium	ND	ug/L	1.0	1	10/20/12 12:50	10/22/12 19:27	7440-43-9	
Chromium	ND	ug/L	5.0	1	10/20/12 12:50	10/22/12 19:27	7440-47-3	
Lead	ND	ug/L	5.0	1	10/20/12 12:50	10/22/12 19:27	7439-92-1	
Selenium	ND	ug/L	10.0	1	10/20/12 12:50	10/22/12 19:27	7782-49-2	
Silver	ND	ug/L	5.0	1	10/20/12 12:50	10/22/12 19:27	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	10/26/12 13:10	10/26/12 17:43	7439-97-6	
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	10.0	1	10/21/12 16:30	10/23/12 17:03	83-32-9	
Acenaphthylene	ND	ug/L	10.0	1	10/21/12 16:30	10/23/12 17:03	208-96-8	
Anthracene	ND	ug/L	10.0	1	10/21/12 16:30	10/23/12 17:03	120-12-7	
Benzo(a)anthracene	ND	ug/L	10.0	1	10/21/12 16:30	10/23/12 17:03	56-55-3	
Benzo(a)pyrene	ND	ug/L	10.0	1	10/21/12 16:30	10/23/12 17:03	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	10.0	1	10/21/12 16:30	10/23/12 17:03	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	10.0	1	10/21/12 16:30	10/23/12 17:03	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	10.0	1	10/21/12 16:30	10/23/12 17:03	207-08-9	
Chrysene	ND	ug/L	10.0	1	10/21/12 16:30	10/23/12 17:03	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	10.0	1	10/21/12 16:30	10/23/12 17:03	53-70-3	
Fluoranthene	ND	ug/L	10.0	1	10/21/12 16:30	10/23/12 17:03	206-44-0	
Fluorene	ND	ug/L	10.0	1	10/21/12 16:30	10/23/12 17:03	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	10.0	1	10/21/12 16:30	10/23/12 17:03	193-39-5	
1-Methylnaphthalene	ND	ug/L	10.0	1	10/21/12 16:30	10/23/12 17:03	90-12-0	
2-Methylnaphthalene	ND	ug/L	10.0	1	10/21/12 16:30	10/23/12 17:03	91-57-6	
Naphthalene	ND	ug/L	10.0	1	10/21/12 16:30	10/23/12 17:03	91-20-3	
Phenanthrene	ND	ug/L	10.0	1	10/21/12 16:30	10/23/12 17:03	85-01-8	
Pyrene	ND	ug/L	10.0	1	10/21/12 16:30	10/23/12 17:03	129-00-0	
Surrogates								
Nitrobenzene-d5 (S)	42	%	21-110	1	10/21/12 16:30	10/23/12 17:03	4165-60-0	
2-Fluorobiphenyl (S)	44	%	27-110	1	10/21/12 16:30	10/23/12 17:03	321-60-8	
Terphenyl-d14 (S)	71	%	31-107	1	10/21/12 16:30	10/23/12 17:03	1718-51-0	
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		10/25/12 22:56	67-64-1	
Benzene	ND	ug/L	1.0	1		10/25/12 22:56	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		10/25/12 22:56	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		10/25/12 22:56	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		10/25/12 22:56	75-27-4	
Bromoform	ND	ug/L	1.0	1		10/25/12 22:56	75-25-2	
Bromomethane	ND	ug/L	2.0	1		10/25/12 22:56	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		10/25/12 22:56	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		10/25/12 22:56	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		10/25/12 22:56	108-90-7	

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ANALYTICAL RESULTS

Project: 32538-5 Double Eagle-Dixon
Pace Project No.: 92135830

Sample: MW-3 **Lab ID: 92135830005** Collected: 10/18/12 13:00 Received: 10/19/12 08:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Chloroethane	ND	ug/L	1.0	1		10/25/12 22:56	75-00-3	
Chloroform	ND	ug/L	1.0	1		10/25/12 22:56	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/25/12 22:56	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		10/25/12 22:56	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		10/25/12 22:56	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		10/25/12 22:56	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		10/25/12 22:56	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		10/25/12 22:56	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		10/25/12 22:56	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		10/25/12 22:56	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		10/25/12 22:56	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		10/25/12 22:56	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		10/25/12 22:56	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		10/25/12 22:56	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		10/25/12 22:56	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		10/25/12 22:56	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		10/25/12 22:56	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		10/25/12 22:56	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		10/25/12 22:56	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		10/25/12 22:56	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		10/25/12 22:56	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		10/25/12 22:56	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		10/25/12 22:56	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		10/25/12 22:56	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		10/25/12 22:56	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		10/25/12 22:56	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		10/25/12 22:56	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		10/25/12 22:56	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		10/25/12 22:56	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		10/25/12 22:56	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		10/25/12 22:56	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		10/25/12 22:56	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		10/25/12 22:56	91-20-3	
Styrene	ND	ug/L	1.0	1		10/25/12 22:56	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		10/25/12 22:56	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		10/25/12 22:56	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		10/25/12 22:56	127-18-4	
Toluene	ND	ug/L	1.0	1		10/25/12 22:56	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		10/25/12 22:56	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		10/25/12 22:56	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		10/25/12 22:56	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		10/25/12 22:56	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		10/25/12 22:56	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/25/12 22:56	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		10/25/12 22:56	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		10/25/12 22:56	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		10/25/12 22:56	75-01-4	

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ANALYTICAL RESULTS

Project: 32538-5 Double Eagle-Dixon
Pace Project No.: 92135830

Sample: MW-3 **Lab ID: 92135830005** Collected: 10/18/12 13:00 Received: 10/19/12 08:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Xylene (Total)	ND	ug/L	2.0	1		10/25/12 22:56	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		10/25/12 22:56	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		10/25/12 22:56	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	96	%	70-130	1		10/25/12 22:56	460-00-4	
Dibromofluoromethane (S)	107	%	70-130	1		10/25/12 22:56	1868-53-7	
1,2-Dichloroethane-d4 (S)	109	%	70-130	1		10/25/12 22:56	17060-07-0	
Toluene-d8 (S)	100	%	70-130	1		10/25/12 22:56	2037-26-5	

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ANALYTICAL RESULTS

Project: 32538-5 Double Eagle-Dixon
Pace Project No.: 92135830

Sample: MW-1 **Lab ID: 92135830006** Collected: 10/18/12 16:00 Received: 10/19/12 08:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Arsenic	ND	ug/L	5.0	1	10/20/12 12:50	10/22/12 19:30	7440-38-2	
Barium	**85.9**	ug/L	5.0	1	10/20/12 12:50	10/22/12 19:30	7440-39-3	
Cadmium	ND	ug/L	1.0	1	10/20/12 12:50	10/22/12 19:30	7440-43-9	
Chromium	ND	ug/L	5.0	1	10/20/12 12:50	10/22/12 19:30	7440-47-3	
Lead	ND	ug/L	5.0	1	10/20/12 12:50	10/22/12 19:30	7439-92-1	
Selenium	ND	ug/L	10.0	1	10/20/12 12:50	10/22/12 19:30	7782-49-2	
Silver	ND	ug/L	5.0	1	10/20/12 12:50	10/22/12 19:30	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	10/26/12 13:10	10/26/12 17:46	7439-97-6	
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	10.0	1	10/21/12 16:30	10/23/12 17:35	83-32-9	
Acenaphthylene	ND	ug/L	10.0	1	10/21/12 16:30	10/23/12 17:35	208-96-8	
Anthracene	ND	ug/L	10.0	1	10/21/12 16:30	10/23/12 17:35	120-12-7	
Benzo(a)anthracene	ND	ug/L	10.0	1	10/21/12 16:30	10/23/12 17:35	56-55-3	
Benzo(a)pyrene	ND	ug/L	10.0	1	10/21/12 16:30	10/23/12 17:35	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	10.0	1	10/21/12 16:30	10/23/12 17:35	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	10.0	1	10/21/12 16:30	10/23/12 17:35	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	10.0	1	10/21/12 16:30	10/23/12 17:35	207-08-9	
Chrysene	ND	ug/L	10.0	1	10/21/12 16:30	10/23/12 17:35	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	10.0	1	10/21/12 16:30	10/23/12 17:35	53-70-3	
Fluoranthene	ND	ug/L	10.0	1	10/21/12 16:30	10/23/12 17:35	206-44-0	
Fluorene	ND	ug/L	10.0	1	10/21/12 16:30	10/23/12 17:35	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	10.0	1	10/21/12 16:30	10/23/12 17:35	193-39-5	
1-Methylnaphthalene	ND	ug/L	10.0	1	10/21/12 16:30	10/23/12 17:35	90-12-0	
2-Methylnaphthalene	ND	ug/L	10.0	1	10/21/12 16:30	10/23/12 17:35	91-57-6	
Naphthalene	ND	ug/L	10.0	1	10/21/12 16:30	10/23/12 17:35	91-20-3	
Phenanthrene	ND	ug/L	10.0	1	10/21/12 16:30	10/23/12 17:35	85-01-8	
Pyrene	ND	ug/L	10.0	1	10/21/12 16:30	10/23/12 17:35	129-00-0	
Surrogates								
Nitrobenzene-d5 (S)	50	%	21-110	1	10/21/12 16:30	10/23/12 17:35	4165-60-0	
2-Fluorobiphenyl (S)	50	%	27-110	1	10/21/12 16:30	10/23/12 17:35	321-60-8	
Terphenyl-d14 (S)	74	%	31-107	1	10/21/12 16:30	10/23/12 17:35	1718-51-0	
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		10/25/12 23:14	67-64-1	
Benzene	ND	ug/L	1.0	1		10/25/12 23:14	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		10/25/12 23:14	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		10/25/12 23:14	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		10/25/12 23:14	75-27-4	
Bromoform	ND	ug/L	1.0	1		10/25/12 23:14	75-25-2	
Bromomethane	ND	ug/L	2.0	1		10/25/12 23:14	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		10/25/12 23:14	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		10/25/12 23:14	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		10/25/12 23:14	108-90-7	

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ANALYTICAL RESULTS

Project: 32538-5 Double Eagle-Dixon
Pace Project No.: 92135830

Sample: MW-1 **Lab ID: 92135830006** Collected: 10/18/12 16:00 Received: 10/19/12 08:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Chloroethane	ND	ug/L	1.0	1		10/25/12 23:14	75-00-3	
Chloroform	ND	ug/L	1.0	1		10/25/12 23:14	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/25/12 23:14	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		10/25/12 23:14	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		10/25/12 23:14	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		10/25/12 23:14	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		10/25/12 23:14	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		10/25/12 23:14	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		10/25/12 23:14	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		10/25/12 23:14	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		10/25/12 23:14	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		10/25/12 23:14	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		10/25/12 23:14	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		10/25/12 23:14	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		10/25/12 23:14	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		10/25/12 23:14	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		10/25/12 23:14	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		10/25/12 23:14	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		10/25/12 23:14	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		10/25/12 23:14	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		10/25/12 23:14	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		10/25/12 23:14	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		10/25/12 23:14	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		10/25/12 23:14	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		10/25/12 23:14	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		10/25/12 23:14	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		10/25/12 23:14	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		10/25/12 23:14	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		10/25/12 23:14	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		10/25/12 23:14	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		10/25/12 23:14	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		10/25/12 23:14	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		10/25/12 23:14	91-20-3	
Styrene	ND	ug/L	1.0	1		10/25/12 23:14	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		10/25/12 23:14	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		10/25/12 23:14	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		10/25/12 23:14	127-18-4	
Toluene	ND	ug/L	1.0	1		10/25/12 23:14	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		10/25/12 23:14	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		10/25/12 23:14	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		10/25/12 23:14	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		10/25/12 23:14	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		10/25/12 23:14	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/25/12 23:14	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		10/25/12 23:14	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		10/25/12 23:14	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		10/25/12 23:14	75-01-4	

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ANALYTICAL RESULTS

Project: 32538-5 Double Eagle-Dixon
Pace Project No.: 92135830

Sample: MW-1 **Lab ID: 92135830006** Collected: 10/18/12 16:00 Received: 10/19/12 08:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Xylene (Total)	ND	ug/L	2.0	1		10/25/12 23:14	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		10/25/12 23:14	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		10/25/12 23:14	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	96	%	70-130	1		10/25/12 23:14	460-00-4	
Dibromofluoromethane (S)	108	%	70-130	1		10/25/12 23:14	1868-53-7	
1,2-Dichloroethane-d4 (S)	109	%	70-130	1		10/25/12 23:14	17060-07-0	
Toluene-d8 (S)	100	%	70-130	1		10/25/12 23:14	2037-26-5	

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ANALYTICAL RESULTS

Project: 32538-5 Double Eagle-Dixon
Pace Project No.: 92135830

Sample: MW-4 **Lab ID: 92135830007** Collected: 10/18/12 17:30 Received: 10/19/12 08:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Arsenic	ND	ug/L	5.0	1	10/20/12 12:50	10/22/12 19:33	7440-38-2	
Barium	**70.3**	ug/L	5.0	1	10/20/12 12:50	10/22/12 19:33	7440-39-3	
Cadmium	ND	ug/L	1.0	1	10/20/12 12:50	10/22/12 19:33	7440-43-9	
Chromium	ND	ug/L	5.0	1	10/20/12 12:50	10/22/12 19:33	7440-47-3	
Lead	ND	ug/L	5.0	1	10/20/12 12:50	10/22/12 19:33	7439-92-1	
Selenium	ND	ug/L	10.0	1	10/20/12 12:50	10/22/12 19:33	7782-49-2	
Silver	ND	ug/L	5.0	1	10/20/12 12:50	10/22/12 19:33	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	10/26/12 13:10	10/26/12 17:49	7439-97-6	
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	10.0	1	10/21/12 16:30	10/23/12 18:07	83-32-9	
Acenaphthylene	ND	ug/L	10.0	1	10/21/12 16:30	10/23/12 18:07	208-96-8	
Anthracene	ND	ug/L	10.0	1	10/21/12 16:30	10/23/12 18:07	120-12-7	
Benzo(a)anthracene	ND	ug/L	10.0	1	10/21/12 16:30	10/23/12 18:07	56-55-3	
Benzo(a)pyrene	ND	ug/L	10.0	1	10/21/12 16:30	10/23/12 18:07	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	10.0	1	10/21/12 16:30	10/23/12 18:07	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	10.0	1	10/21/12 16:30	10/23/12 18:07	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	10.0	1	10/21/12 16:30	10/23/12 18:07	207-08-9	
Chrysene	ND	ug/L	10.0	1	10/21/12 16:30	10/23/12 18:07	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	10.0	1	10/21/12 16:30	10/23/12 18:07	53-70-3	
Fluoranthene	ND	ug/L	10.0	1	10/21/12 16:30	10/23/12 18:07	206-44-0	
Fluorene	ND	ug/L	10.0	1	10/21/12 16:30	10/23/12 18:07	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	10.0	1	10/21/12 16:30	10/23/12 18:07	193-39-5	
1-Methylnaphthalene	ND	ug/L	10.0	1	10/21/12 16:30	10/23/12 18:07	90-12-0	
2-Methylnaphthalene	ND	ug/L	10.0	1	10/21/12 16:30	10/23/12 18:07	91-57-6	
Naphthalene	ND	ug/L	10.0	1	10/21/12 16:30	10/23/12 18:07	91-20-3	
Phenanthrene	ND	ug/L	10.0	1	10/21/12 16:30	10/23/12 18:07	85-01-8	
Pyrene	ND	ug/L	10.0	1	10/21/12 16:30	10/23/12 18:07	129-00-0	
Surrogates								
Nitrobenzene-d5 (S)	46	%	21-110	1	10/21/12 16:30	10/23/12 18:07	4165-60-0	
2-Fluorobiphenyl (S)	47	%	27-110	1	10/21/12 16:30	10/23/12 18:07	321-60-8	
Terphenyl-d14 (S)	80	%	31-107	1	10/21/12 16:30	10/23/12 18:07	1718-51-0	
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		10/25/12 23:33	67-64-1	
Benzene	ND	ug/L	1.0	1		10/25/12 23:33	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		10/25/12 23:33	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		10/25/12 23:33	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		10/25/12 23:33	75-27-4	
Bromoform	ND	ug/L	1.0	1		10/25/12 23:33	75-25-2	
Bromomethane	ND	ug/L	2.0	1		10/25/12 23:33	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		10/25/12 23:33	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		10/25/12 23:33	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		10/25/12 23:33	108-90-7	

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ANALYTICAL RESULTS

Project: 32538-5 Double Eagle-Dixon
Pace Project No.: 92135830

Sample: MW-4 **Lab ID: 92135830007** Collected: 10/18/12 17:30 Received: 10/19/12 08:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Chloroethane	ND	ug/L	1.0	1		10/25/12 23:33	75-00-3	
Chloroform	ND	ug/L	1.0	1		10/25/12 23:33	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/25/12 23:33	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		10/25/12 23:33	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		10/25/12 23:33	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		10/25/12 23:33	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		10/25/12 23:33	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		10/25/12 23:33	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		10/25/12 23:33	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		10/25/12 23:33	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		10/25/12 23:33	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		10/25/12 23:33	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		10/25/12 23:33	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		10/25/12 23:33	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		10/25/12 23:33	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		10/25/12 23:33	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		10/25/12 23:33	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		10/25/12 23:33	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		10/25/12 23:33	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		10/25/12 23:33	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		10/25/12 23:33	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		10/25/12 23:33	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		10/25/12 23:33	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		10/25/12 23:33	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		10/25/12 23:33	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		10/25/12 23:33	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		10/25/12 23:33	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		10/25/12 23:33	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		10/25/12 23:33	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		10/25/12 23:33	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		10/25/12 23:33	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		10/25/12 23:33	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		10/25/12 23:33	91-20-3	
Styrene	ND	ug/L	1.0	1		10/25/12 23:33	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		10/25/12 23:33	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		10/25/12 23:33	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		10/25/12 23:33	127-18-4	
Toluene	ND	ug/L	1.0	1		10/25/12 23:33	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		10/25/12 23:33	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		10/25/12 23:33	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		10/25/12 23:33	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		10/25/12 23:33	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		10/25/12 23:33	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/25/12 23:33	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		10/25/12 23:33	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		10/25/12 23:33	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		10/25/12 23:33	75-01-4	

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ANALYTICAL RESULTS

Project: 32538-5 Double Eagle-Dixon
Pace Project No.: 92135830

Sample: MW-4 **Lab ID: 92135830007** Collected: 10/18/12 17:30 Received: 10/19/12 08:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Xylene (Total)	ND	ug/L	2.0	1		10/25/12 23:33	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		10/25/12 23:33	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		10/25/12 23:33	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	94	%	70-130	1		10/25/12 23:33	460-00-4	
Dibromofluoromethane (S)	109	%	70-130	1		10/25/12 23:33	1868-53-7	
1,2-Dichloroethane-d4 (S)	111	%	70-130	1		10/25/12 23:33	17060-07-0	
Toluene-d8 (S)	101	%	70-130	1		10/25/12 23:33	2037-26-5	

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ANALYTICAL RESULTS

Project: 32538-5 Double Eagle-Dixon
Pace Project No.: 92135830

Sample: MW-100 **Lab ID: 92135830008** Collected: 10/18/12 17:45 Received: 10/19/12 08:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Arsenic	ND	ug/L	5.0	1	10/20/12 12:50	10/22/12 19:36	7440-38-2	
Barium	**85.3**	ug/L	5.0	1	10/20/12 12:50	10/22/12 19:36	7440-39-3	
Cadmium	ND	ug/L	1.0	1	10/20/12 12:50	10/22/12 19:36	7440-43-9	
Chromium	ND	ug/L	5.0	1	10/20/12 12:50	10/22/12 19:36	7440-47-3	
Lead	ND	ug/L	5.0	1	10/20/12 12:50	10/22/12 19:36	7439-92-1	
Selenium	ND	ug/L	10.0	1	10/20/12 12:50	10/22/12 19:36	7782-49-2	
Silver	ND	ug/L	5.0	1	10/20/12 12:50	10/22/12 19:36	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	10/26/12 13:10	10/26/12 17:51	7439-97-6	
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	10.0	1	10/21/12 16:30	10/23/12 18:39	83-32-9	
Acenaphthylene	ND	ug/L	10.0	1	10/21/12 16:30	10/23/12 18:39	208-96-8	
Anthracene	ND	ug/L	10.0	1	10/21/12 16:30	10/23/12 18:39	120-12-7	
Benzo(a)anthracene	ND	ug/L	10.0	1	10/21/12 16:30	10/23/12 18:39	56-55-3	
Benzo(a)pyrene	ND	ug/L	10.0	1	10/21/12 16:30	10/23/12 18:39	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	10.0	1	10/21/12 16:30	10/23/12 18:39	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	10.0	1	10/21/12 16:30	10/23/12 18:39	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	10.0	1	10/21/12 16:30	10/23/12 18:39	207-08-9	
Chrysene	ND	ug/L	10.0	1	10/21/12 16:30	10/23/12 18:39	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	10.0	1	10/21/12 16:30	10/23/12 18:39	53-70-3	
Fluoranthene	ND	ug/L	10.0	1	10/21/12 16:30	10/23/12 18:39	206-44-0	
Fluorene	ND	ug/L	10.0	1	10/21/12 16:30	10/23/12 18:39	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	10.0	1	10/21/12 16:30	10/23/12 18:39	193-39-5	
1-Methylnaphthalene	ND	ug/L	10.0	1	10/21/12 16:30	10/23/12 18:39	90-12-0	
2-Methylnaphthalene	ND	ug/L	10.0	1	10/21/12 16:30	10/23/12 18:39	91-57-6	
Naphthalene	ND	ug/L	10.0	1	10/21/12 16:30	10/23/12 18:39	91-20-3	
Phenanthrene	ND	ug/L	10.0	1	10/21/12 16:30	10/23/12 18:39	85-01-8	
Pyrene	ND	ug/L	10.0	1	10/21/12 16:30	10/23/12 18:39	129-00-0	
Surrogates								
Nitrobenzene-d5 (S)	36	%	21-110	1	10/21/12 16:30	10/23/12 18:39	4165-60-0	
2-Fluorobiphenyl (S)	37	%	27-110	1	10/21/12 16:30	10/23/12 18:39	321-60-8	
Terphenyl-d14 (S)	64	%	31-107	1	10/21/12 16:30	10/23/12 18:39	1718-51-0	
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		10/25/12 02:54	67-64-1	
Benzene	ND	ug/L	1.0	1		10/25/12 02:54	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		10/25/12 02:54	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		10/25/12 02:54	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		10/25/12 02:54	75-27-4	
Bromoform	ND	ug/L	1.0	1		10/25/12 02:54	75-25-2	
Bromomethane	ND	ug/L	2.0	1		10/25/12 02:54	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		10/25/12 02:54	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		10/25/12 02:54	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		10/25/12 02:54	108-90-7	

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ANALYTICAL RESULTS

Project: 32538-5 Double Eagle-Dixon
Pace Project No.: 92135830

Sample: MW-100 **Lab ID: 92135830008** Collected: 10/18/12 17:45 Received: 10/19/12 08:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Chloroethane	ND	ug/L	1.0	1		10/25/12 02:54	75-00-3	
Chloroform	ND	ug/L	1.0	1		10/25/12 02:54	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/25/12 02:54	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		10/25/12 02:54	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		10/25/12 02:54	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		10/25/12 02:54	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		10/25/12 02:54	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		10/25/12 02:54	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		10/25/12 02:54	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		10/25/12 02:54	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		10/25/12 02:54	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		10/25/12 02:54	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		10/25/12 02:54	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		10/25/12 02:54	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		10/25/12 02:54	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		10/25/12 02:54	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		10/25/12 02:54	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		10/25/12 02:54	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		10/25/12 02:54	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		10/25/12 02:54	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		10/25/12 02:54	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		10/25/12 02:54	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		10/25/12 02:54	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		10/25/12 02:54	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		10/25/12 02:54	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		10/25/12 02:54	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		10/25/12 02:54	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		10/25/12 02:54	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		10/25/12 02:54	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		10/25/12 02:54	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		10/25/12 02:54	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		10/25/12 02:54	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		10/25/12 02:54	91-20-3	
Styrene	ND	ug/L	1.0	1		10/25/12 02:54	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		10/25/12 02:54	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		10/25/12 02:54	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		10/25/12 02:54	127-18-4	
Toluene	ND	ug/L	1.0	1		10/25/12 02:54	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		10/25/12 02:54	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		10/25/12 02:54	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		10/25/12 02:54	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		10/25/12 02:54	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		10/25/12 02:54	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/25/12 02:54	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		10/25/12 02:54	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		10/25/12 02:54	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		10/25/12 02:54	75-01-4	

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ANALYTICAL RESULTS

Project: 32538-5 Double Eagle-Dixon
Pace Project No.: 92135830

Sample: MW-100 **Lab ID: 92135830008** Collected: 10/18/12 17:45 Received: 10/19/12 08:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
m&p-Xylene	ND	ug/L	2.0	1		10/25/12 02:54	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		10/25/12 02:54	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	98	%	70-130	1		10/25/12 02:54	460-00-4	
Dibromofluoromethane (S)	107	%	70-130	1		10/25/12 02:54	1868-53-7	
1,2-Dichloroethane-d4 (S)	113	%	70-130	1		10/25/12 02:54	17060-07-0	
Toluene-d8 (S)	100	%	70-130	1		10/25/12 02:54	2037-26-5	

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ANALYTICAL RESULTS

Project: 32538-5 Double Eagle-Dixon
Pace Project No.: 92135830

Sample: EB101812-1 **Lab ID: 92135830009** Collected: 10/18/12 18:00 Received: 10/19/12 08:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Arsenic	ND	ug/L	5.0	1	10/20/12 12:50	10/22/12 19:39	7440-38-2	
Barium	ND	ug/L	5.0	1	10/20/12 12:50	10/22/12 19:39	7440-39-3	
Cadmium	ND	ug/L	1.0	1	10/20/12 12:50	10/22/12 19:39	7440-43-9	
Chromium	ND	ug/L	5.0	1	10/20/12 12:50	10/22/12 19:39	7440-47-3	
Lead	ND	ug/L	5.0	1	10/20/12 12:50	10/22/12 19:39	7439-92-1	
Selenium	ND	ug/L	10.0	1	10/20/12 12:50	10/22/12 19:39	7782-49-2	
Silver	ND	ug/L	5.0	1	10/20/12 12:50	10/22/12 19:39	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	10/26/12 13:10	10/26/12 17:54	7439-97-6	
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	10.0	1	10/21/12 16:30	10/23/12 19:11	83-32-9	
Acenaphthylene	ND	ug/L	10.0	1	10/21/12 16:30	10/23/12 19:11	208-96-8	
Anthracene	ND	ug/L	10.0	1	10/21/12 16:30	10/23/12 19:11	120-12-7	
Benzo(a)anthracene	ND	ug/L	10.0	1	10/21/12 16:30	10/23/12 19:11	56-55-3	
Benzo(a)pyrene	ND	ug/L	10.0	1	10/21/12 16:30	10/23/12 19:11	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	10.0	1	10/21/12 16:30	10/23/12 19:11	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	10.0	1	10/21/12 16:30	10/23/12 19:11	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	10.0	1	10/21/12 16:30	10/23/12 19:11	207-08-9	
Chrysene	ND	ug/L	10.0	1	10/21/12 16:30	10/23/12 19:11	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	10.0	1	10/21/12 16:30	10/23/12 19:11	53-70-3	
Fluoranthene	ND	ug/L	10.0	1	10/21/12 16:30	10/23/12 19:11	206-44-0	
Fluorene	ND	ug/L	10.0	1	10/21/12 16:30	10/23/12 19:11	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	10.0	1	10/21/12 16:30	10/23/12 19:11	193-39-5	
1-Methylnaphthalene	ND	ug/L	10.0	1	10/21/12 16:30	10/23/12 19:11	90-12-0	
2-Methylnaphthalene	ND	ug/L	10.0	1	10/21/12 16:30	10/23/12 19:11	91-57-6	
Naphthalene	ND	ug/L	10.0	1	10/21/12 16:30	10/23/12 19:11	91-20-3	
Phenanthrene	ND	ug/L	10.0	1	10/21/12 16:30	10/23/12 19:11	85-01-8	
Pyrene	ND	ug/L	10.0	1	10/21/12 16:30	10/23/12 19:11	129-00-0	
Surrogates								
Nitrobenzene-d5 (S)	80	%	21-110	1	10/21/12 16:30	10/23/12 19:11	4165-60-0	
2-Fluorobiphenyl (S)	84	%	27-110	1	10/21/12 16:30	10/23/12 19:11	321-60-8	
Terphenyl-d14 (S)	85	%	31-107	1	10/21/12 16:30	10/23/12 19:11	1718-51-0	
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		10/25/12 03:13	67-64-1	
Benzene	ND	ug/L	1.0	1		10/25/12 03:13	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		10/25/12 03:13	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		10/25/12 03:13	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		10/25/12 03:13	75-27-4	
Bromoform	ND	ug/L	1.0	1		10/25/12 03:13	75-25-2	
Bromomethane	ND	ug/L	2.0	1		10/25/12 03:13	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		10/25/12 03:13	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		10/25/12 03:13	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		10/25/12 03:13	108-90-7	

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ANALYTICAL RESULTS

Project: 32538-5 Double Eagle-Dixon
Pace Project No.: 92135830

Sample: EB101812-1 **Lab ID: 92135830009** Collected: 10/18/12 18:00 Received: 10/19/12 08:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Chloroethane	ND	ug/L	1.0	1		10/25/12 03:13	75-00-3	
Chloroform	**1.1**	ug/L	1.0	1		10/25/12 03:13	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/25/12 03:13	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		10/25/12 03:13	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		10/25/12 03:13	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		10/25/12 03:13	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		10/25/12 03:13	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		10/25/12 03:13	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		10/25/12 03:13	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		10/25/12 03:13	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		10/25/12 03:13	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		10/25/12 03:13	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		10/25/12 03:13	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		10/25/12 03:13	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		10/25/12 03:13	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		10/25/12 03:13	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		10/25/12 03:13	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		10/25/12 03:13	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		10/25/12 03:13	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		10/25/12 03:13	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		10/25/12 03:13	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		10/25/12 03:13	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		10/25/12 03:13	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		10/25/12 03:13	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		10/25/12 03:13	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		10/25/12 03:13	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		10/25/12 03:13	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		10/25/12 03:13	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		10/25/12 03:13	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		10/25/12 03:13	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		10/25/12 03:13	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		10/25/12 03:13	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		10/25/12 03:13	91-20-3	
Styrene	ND	ug/L	1.0	1		10/25/12 03:13	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		10/25/12 03:13	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		10/25/12 03:13	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		10/25/12 03:13	127-18-4	
Toluene	ND	ug/L	1.0	1		10/25/12 03:13	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		10/25/12 03:13	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		10/25/12 03:13	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		10/25/12 03:13	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		10/25/12 03:13	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		10/25/12 03:13	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/25/12 03:13	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		10/25/12 03:13	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		10/25/12 03:13	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		10/25/12 03:13	75-01-4	

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ANALYTICAL RESULTS

Project: 32538-5 Double Eagle-Dixon
Pace Project No.: 92135830

Sample: EB101812-1 **Lab ID: 92135830009** Collected: 10/18/12 18:00 Received: 10/19/12 08:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
m&p-Xylene	ND	ug/L	2.0	1		10/25/12 03:13	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		10/25/12 03:13	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	98	%	70-130	1		10/25/12 03:13	460-00-4	
Dibromofluoromethane (S)	107	%	70-130	1		10/25/12 03:13	1868-53-7	
1,2-Dichloroethane-d4 (S)	111	%	70-130	1		10/25/12 03:13	17060-07-0	
Toluene-d8 (S)	101	%	70-130	1		10/25/12 03:13	2037-26-5	

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QUALITY CONTROL DATA

Project: 32538-5 Double Eagle-Dixon
Pace Project No.: 92135830

QC Batch: MERP/4620 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury
Associated Lab Samples: 92135830003, 92135830005, 92135830006, 92135830007, 92135830008, 92135830009

METHOD BLANK: 860228 Matrix: Water
Associated Lab Samples: 92135830003, 92135830005, 92135830006, 92135830007, 92135830008, 92135830009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	10/26/12 17:01	

LABORATORY CONTROL SAMPLE: 860229

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2.5	2.7	109	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 860230 860231

Parameter	Units	92135629004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	2.5	2.5	2.5	2.5	98	100	75-125	2	25	

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QUALITY CONTROL DATA

Project: 32538-5 Double Eagle-Dixon
Pace Project No.: 92135830

QC Batch: MERP/4616
QC Batch Method: EPA 7471
Analysis Method: EPA 7471
Analysis Description: 7471 Mercury
Associated Lab Samples: 92135830002

METHOD BLANK: 859191
Matrix: Solid
Associated Lab Samples: 92135830002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	ND	0.0050	10/25/12 14:26	

LABORATORY CONTROL SAMPLE: 859192

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	.067	0.061	91	80-120	

MATRIX SPIKE SAMPLE: 859193

Parameter	Units	92136018001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	0.0093	.052	0.024	29	75-125	M1

SAMPLE DUPLICATE: 859194

Parameter	Units	92136021001 Result	Dup Result	RPD	Max RPD	Qualifiers
Mercury	mg/kg	ND	ND		20	

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QUALITY CONTROL DATA

Project: 32538-5 Double Eagle-Dixon
Pace Project No.: 92135830

QC Batch: MPRP/11796
QC Batch Method: EPA 3050
Analysis Method: EPA 6010
Analysis Description: 6010 MET
Associated Lab Samples: 92135830002

METHOD BLANK: 858666
Matrix: Solid
Associated Lab Samples: 92135830002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/kg	ND	0.50	10/25/12 01:00	
Barium	mg/kg	ND	0.50	10/25/12 01:00	
Cadmium	mg/kg	ND	0.10	10/25/12 01:00	
Chromium	mg/kg	ND	0.50	10/25/12 01:00	
Lead	mg/kg	ND	0.50	10/25/12 01:00	
Selenium	mg/kg	ND	1.0	10/25/12 01:00	
Silver	mg/kg	ND	0.50	10/25/12 01:00	

LABORATORY CONTROL SAMPLE: 858667

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	50	50.9	102	80-120	
Barium	mg/kg	50	47.1	94	80-120	
Cadmium	mg/kg	50	53.7	107	80-120	
Chromium	mg/kg	50	53.6	107	80-120	
Lead	mg/kg	50	51.1	102	80-120	
Selenium	mg/kg	50	50.8	102	80-120	
Silver	mg/kg	25	25.0	100	80-120	

MATRIX SPIKE SAMPLE: 858668

Parameter	Units	92135451004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	ND	43.9	51.8	118	75-125	
Barium	mg/kg	ND	43.9	40.2	91	75-125	
Cadmium	mg/kg	ND	43.9	41.8	95	75-125	
Chromium	mg/kg	0.47	43.9	44.6	101	75-125	
Lead	mg/kg	ND	43.9	39.0	88	75-125	
Selenium	mg/kg	ND	43.9	46.5	106	75-125	
Silver	mg/kg	ND	21.9	26.4	120	75-125	

SAMPLE DUPLICATE: 858669

Parameter	Units	92135451005 Result	Dup Result	RPD	Max RPD	Qualifiers
Arsenic	mg/kg	ND	ND		20	
Barium	mg/kg	ND	.19J		20	
Cadmium	mg/kg	2.6	3.7	33	20	D6
Chromium	mg/kg	ND	0.42		20	
Lead	mg/kg	ND	ND		20	

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QUALITY CONTROL DATA

Project: 32538-5 Double Eagle-Dixon
Pace Project No.: 92135830

SAMPLE DUPLICATE: 858669

Parameter	Units	92135451005 Result	Dup Result	RPD	Max RPD	Qualifiers
Selenium	mg/kg	ND	ND		20	
Silver	mg/kg	ND	ND		20	

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QUALITY CONTROL DATA

Project: 32538-5 Double Eagle-Dixon
Pace Project No.: 92135830

QC Batch: MPRP/11784 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Associated Lab Samples: 92135830003, 92135830005, 92135830006, 92135830007, 92135830008, 92135830009

METHOD BLANK: 857137 Matrix: Water
Associated Lab Samples: 92135830003, 92135830005, 92135830006, 92135830007, 92135830008, 92135830009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	ug/L	ND	5.0	10/22/12 18:12	
Barium	ug/L	ND	5.0	10/22/12 18:12	
Cadmium	ug/L	ND	1.0	10/22/12 18:12	
Chromium	ug/L	ND	5.0	10/22/12 18:12	
Lead	ug/L	ND	5.0	10/22/12 18:12	
Selenium	ug/L	ND	10.0	10/22/12 18:12	
Silver	ug/L	ND	5.0	10/22/12 18:12	

LABORATORY CONTROL SAMPLE: 857138

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	500	472	94	80-120	
Barium	ug/L	500	480	96	80-120	
Cadmium	ug/L	500	491	98	80-120	
Chromium	ug/L	500	491	98	80-120	
Lead	ug/L	500	483	97	80-120	
Selenium	ug/L	500	478	96	80-120	
Silver	ug/L	250	242	97	80-120	

MATRIX SPIKE SAMPLE: 857139

Parameter	Units	92135845001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	ND	500	480	96	75-125	
Barium	ug/L	135	500	606	94	75-125	
Cadmium	ug/L	ND	500	481	96	75-125	
Chromium	ug/L	ND	500	490	98	75-125	
Lead	ug/L	ND	500	466	93	75-125	
Selenium	ug/L	ND	500	433	87	75-125	
Silver	ug/L	ND	250	241	96	75-125	

SAMPLE DUPLICATE: 857140

Parameter	Units	92135845002 Result	Dup Result	RPD	Max RPD	Qualifiers
Arsenic	ug/L	ND	ND		20	
Barium	ug/L	1660	1670	1	20	
Cadmium	ug/L	ND	ND		20	
Chromium	ug/L	ND	ND		20	
Lead	ug/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: 32538-5 Double Eagle-Dixon
Pace Project No.: 92135830

SAMPLE DUPLICATE: 857140

Parameter	Units	92135845002 Result	Dup Result	RPD	Max RPD	Qualifiers
Selenium	ug/L	ND	ND		20	
Silver	ug/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: 32538-5 Double Eagle-Dixon
Pace Project No.: 92135830

QC Batch: MSV/20824
Analysis Method: EPA 8260
QC Batch Method: EPA 8260
Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92135830003, 92135830004

METHOD BLANK: 858837
Matrix: Water
Associated Lab Samples: 92135830003, 92135830004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	10/24/12 17:42	
1,1,1-Trichloroethane	ug/L	ND	1.0	10/24/12 17:42	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	10/24/12 17:42	
1,1,2-Trichloroethane	ug/L	ND	1.0	10/24/12 17:42	
1,1-Dichloroethane	ug/L	ND	1.0	10/24/12 17:42	
1,1-Dichloroethene	ug/L	ND	1.0	10/24/12 17:42	
1,1-Dichloropropene	ug/L	ND	1.0	10/24/12 17:42	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	10/24/12 17:42	
1,2,3-Trichloropropane	ug/L	ND	1.0	10/24/12 17:42	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	10/24/12 17:42	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.0	10/24/12 17:42	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	10/24/12 17:42	
1,2-Dichlorobenzene	ug/L	ND	1.0	10/24/12 17:42	
1,2-Dichloroethane	ug/L	ND	1.0	10/24/12 17:42	
1,2-Dichloropropane	ug/L	ND	1.0	10/24/12 17:42	
1,3-Dichlorobenzene	ug/L	ND	1.0	10/24/12 17:42	
1,3-Dichloropropane	ug/L	ND	1.0	10/24/12 17:42	
1,4-Dichlorobenzene	ug/L	ND	1.0	10/24/12 17:42	
2,2-Dichloropropane	ug/L	ND	1.0	10/24/12 17:42	
2-Butanone (MEK)	ug/L	ND	5.0	10/24/12 17:42	
2-Chlorotoluene	ug/L	ND	1.0	10/24/12 17:42	
2-Hexanone	ug/L	ND	5.0	10/24/12 17:42	
4-Chlorotoluene	ug/L	ND	1.0	10/24/12 17:42	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	10/24/12 17:42	
Acetone	ug/L	ND	25.0	10/24/12 17:42	
Benzene	ug/L	ND	1.0	10/24/12 17:42	
Bromobenzene	ug/L	ND	1.0	10/24/12 17:42	
Bromochloromethane	ug/L	ND	1.0	10/24/12 17:42	
Bromodichloromethane	ug/L	ND	1.0	10/24/12 17:42	
Bromoform	ug/L	ND	1.0	10/24/12 17:42	
Bromomethane	ug/L	ND	2.0	10/24/12 17:42	
Carbon tetrachloride	ug/L	ND	1.0	10/24/12 17:42	
Chlorobenzene	ug/L	ND	1.0	10/24/12 17:42	
Chloroethane	ug/L	ND	1.0	10/24/12 17:42	
Chloroform	ug/L	ND	1.0	10/24/12 17:42	
Chloromethane	ug/L	ND	1.0	10/24/12 17:42	
cis-1,2-Dichloroethene	ug/L	ND	1.0	10/24/12 17:42	
cis-1,3-Dichloropropene	ug/L	ND	1.0	10/24/12 17:42	
Dibromochloromethane	ug/L	ND	1.0	10/24/12 17:42	
Dibromomethane	ug/L	ND	1.0	10/24/12 17:42	
Dichlorodifluoromethane	ug/L	ND	1.0	10/24/12 17:42	
Diisopropyl ether	ug/L	ND	1.0	10/24/12 17:42	
Ethylbenzene	ug/L	ND	1.0	10/24/12 17:42	

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QUALITY CONTROL DATA

Project: 32538-5 Double Eagle-Dixon
Pace Project No.: 92135830

METHOD BLANK: 858837 Matrix: Water

Associated Lab Samples: 92135830003, 92135830004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/L	ND	1.0	10/24/12 17:42	
m&p-Xylene	ug/L	ND	2.0	10/24/12 17:42	
Methyl-tert-butyl ether	ug/L	ND	1.0	10/24/12 17:42	
Methylene Chloride	ug/L	ND	2.0	10/24/12 17:42	
Naphthalene	ug/L	ND	1.0	10/24/12 17:42	
o-Xylene	ug/L	ND	1.0	10/24/12 17:42	
p-Isopropyltoluene	ug/L	ND	1.0	10/24/12 17:42	
Styrene	ug/L	ND	1.0	10/24/12 17:42	
Tetrachloroethene	ug/L	ND	1.0	10/24/12 17:42	
Toluene	ug/L	ND	1.0	10/24/12 17:42	
trans-1,2-Dichloroethene	ug/L	ND	1.0	10/24/12 17:42	
trans-1,3-Dichloropropene	ug/L	ND	1.0	10/24/12 17:42	
Trichloroethene	ug/L	ND	1.0	10/24/12 17:42	
Trichlorofluoromethane	ug/L	ND	1.0	10/24/12 17:42	
Vinyl acetate	ug/L	ND	2.0	10/24/12 17:42	
Vinyl chloride	ug/L	ND	1.0	10/24/12 17:42	
1,2-Dichloroethane-d4 (S)	%	106	70-130	10/24/12 17:42	
4-Bromofluorobenzene (S)	%	99	70-130	10/24/12 17:42	
Dibromofluoromethane (S)	%	103	70-130	10/24/12 17:42	
Toluene-d8 (S)	%	101	70-130	10/24/12 17:42	

LABORATORY CONTROL SAMPLE: 858838

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	47.4	95	70-130	
1,1,1-Trichloroethane	ug/L	50	46.2	92	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	44.7	89	70-130	
1,1,2-Trichloroethane	ug/L	50	47.2	94	70-130	
1,1-Dichloroethane	ug/L	50	44.7	89	70-130	
1,1-Dichloroethene	ug/L	50	42.8	86	70-132	
1,1-Dichloropropene	ug/L	50	42.8	86	70-130	
1,2,3-Trichlorobenzene	ug/L	50	52.0	104	70-135	
1,2,3-Trichloropropane	ug/L	50	45.8	92	70-130	
1,2,4-Trichlorobenzene	ug/L	50	53.5	107	70-134	
1,2-Dibromo-3-chloropropane	ug/L	50	47.9	96	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	50.3	101	70-130	
1,2-Dichlorobenzene	ug/L	50	47.9	96	70-130	
1,2-Dichloroethane	ug/L	50	43.2	86	70-130	
1,2-Dichloropropane	ug/L	50	44.1	88	70-130	
1,3-Dichlorobenzene	ug/L	50	46.8	94	70-130	
1,3-Dichloropropane	ug/L	50	46.7	93	70-130	
1,4-Dichlorobenzene	ug/L	50	45.0	90	70-130	
2,2-Dichloropropane	ug/L	50	45.5	91	58-145	
2-Butanone (MEK)	ug/L	100	94.6	95	70-145	
2-Chlorotoluene	ug/L	50	47.3	95	70-130	

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QUALITY CONTROL DATA

Project: 32538-5 Double Eagle-Dixon
Pace Project No.: 92135830

LABORATORY CONTROL SAMPLE: 858838

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Hexanone	ug/L	100	105	105	70-144	
4-Chlorotoluene	ug/L	50	47.0	94	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	104	104	70-140	
Acetone	ug/L	100	85.5	86	50-175	
Benzene	ug/L	50	44.6	89	70-130	
Bromobenzene	ug/L	50	45.9	92	70-130	
Bromochloromethane	ug/L	50	44.7	89	70-130	
Bromodichloromethane	ug/L	50	44.5	89	70-130	
Bromoform	ug/L	50	38.6	77	70-130	
Bromomethane	ug/L	50	43.1	86	54-130	
Carbon tetrachloride	ug/L	50	42.2	84	70-132	
Chlorobenzene	ug/L	50	45.0	90	70-130	
Chloroethane	ug/L	50	43.2	86	64-134	
Chloroform	ug/L	50	45.0	90	70-130	
Chloromethane	ug/L	50	44.8	90	64-130	
cis-1,2-Dichloroethene	ug/L	50	46.9	94	70-131	
cis-1,3-Dichloropropene	ug/L	50	47.3	95	70-130	
Dibromochloromethane	ug/L	50	43.6	87	70-130	
Dibromomethane	ug/L	50	46.9	94	70-131	
Dichlorodifluoromethane	ug/L	50	50.5	101	56-130	
Diisopropyl ether	ug/L	50	47.1	94	70-130	
Ethylbenzene	ug/L	50	46.5	93	70-130	
Hexachloro-1,3-butadiene	ug/L	50	47.7	95	70-130	
m&p-Xylene	ug/L	100	96.7	97	70-130	
Methyl-tert-butyl ether	ug/L	50	47.7	95	70-130	
Methylene Chloride	ug/L	50	42.3	85	63-130	
Naphthalene	ug/L	50	55.4	111	70-138	
o-Xylene	ug/L	50	49.6	99	70-130	
p-Isopropyltoluene	ug/L	50	50.2	100	70-130	
Styrene	ug/L	50	47.9	96	70-130	
Tetrachloroethene	ug/L	50	45.9	92	70-130	
Toluene	ug/L	50	44.9	90	70-130	
trans-1,2-Dichloroethene	ug/L	50	40.8	82	70-130	
trans-1,3-Dichloropropene	ug/L	50	51.1	102	70-132	
Trichloroethene	ug/L	50	45.2	90	70-130	
Trichlorofluoromethane	ug/L	50	48.0	96	62-133	
Vinyl acetate	ug/L	100	101	101	66-157	
Vinyl chloride	ug/L	50	42.2	84	69-130	
1,2-Dichloroethane-d4 (S)	%			95	70-130	
4-Bromofluorobenzene (S)	%			102	70-130	
Dibromofluoromethane (S)	%			97	70-130	
Toluene-d8 (S)	%			101	70-130	

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QUALITY CONTROL DATA

Project: 32538-5 Double Eagle-Dixon
Pace Project No.: 92135830

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 858839 858840

Parameter	Units	92135845002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1-Dichloroethene	ug/L	ND	50	50	38.6	44.6	77	89	70-166	14	30	
Benzene	ug/L	ND	50	50	34.9	41.9	70	84	70-148	18	30	
Chlorobenzene	ug/L	ND	50	50	41.7	50.2	83	100	70-146	18	30	
Toluene	ug/L	ND	50	50	41.4	49.8	83	100	70-155	18	30	
Trichloroethene	ug/L	ND	50	50	41.4	50.1	83	100	69-151	19	30	
1,2-Dichloroethane-d4 (S)	%						98	97	70-130			
4-Bromofluorobenzene (S)	%						97	99	70-130			
Dibromofluoromethane (S)	%						98	98	70-130			
Toluene-d8 (S)	%						98	97	70-130			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 858846 858847

Parameter	Units	92135665001 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	49.6	49.9	99	100	70-130	0	30	
1,1,1-Trichloroethane	ug/L	ND	50	50	53.0	53.9	106	108	70-130	2	30	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	50	46.0	45.7	92	91	70-130	1	30	
1,1,2-Trichloroethane	ug/L	ND	50	50	49.2	50.2	98	100	70-130	2	30	
1,1-Dichloroethane	ug/L	ND	50	50	49.7	50.8	99	102	70-130	2	30	
1,1-Dichloroethene	ug/L	ND	50	50	50.1	52.1	100	104	70-166	4	30	
1,1-Dichloropropene	ug/L	ND	50	50	49.0	52.2	98	104	70-130	6	30	
1,2,3-Trichlorobenzene	ug/L	ND	50	50	52.9	54.1	106	108	70-130	2	30	
1,2,3-Trichloropropane	ug/L	ND	50	50	47.4	47.8	95	96	70-130	1	30	
1,2,4-Trichlorobenzene	ug/L	ND	50	50	55.9	57.2	112	114	70-130	2	30	
1,2-Dibromo-3-chloropropane	ug/L	ND	50	50	47.9	52.1	96	104	70-130	8	30	
1,2-Dibromoethane (EDB)	ug/L	ND	50	50	52.5	53.1	105	106	70-130	1	30	
1,2-Dichlorobenzene	ug/L	ND	50	50	50.4	51.8	101	104	70-130	3	30	
1,2-Dichloroethane	ug/L	ND	50	50	44.9	46.3	90	93	70-130	3	30	
1,2-Dichloropropane	ug/L	ND	50	50	47.9	48.6	96	97	70-130	1	30	
1,3-Dichlorobenzene	ug/L	ND	50	50	49.8	51.3	100	103	70-130	3	30	
1,3-Dichloropropane	ug/L	ND	50	50	49.1	49.6	98	99	70-130	1	30	
1,4-Dichlorobenzene	ug/L	ND	50	50	47.7	49.0	95	98	70-130	3	30	
2,2-Dichloropropane	ug/L	ND	50	50	52.4	53.2	105	106	70-130	2	30	
2-Butanone (MEK)	ug/L	ND	100	100	95.7	95.2	96	95	70-130	1	30	
2-Chlorotoluene	ug/L	ND	50	50	51.7	52.4	103	105	70-130	1	30	
2-Hexanone	ug/L	ND	100	100	104	105	104	105	70-130	0	30	
4-Chlorotoluene	ug/L	ND	50	50	51.4	52.4	103	105	70-130	2	30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	100	104	103	104	103	70-130	1	30	
Acetone	ug/L	ND	100	100	82.1	82.5	82	83	70-130	1	30	
Benzene	ug/L	ND	50	50	49.1	49.4	98	99	70-148	0	30	
Bromobenzene	ug/L	ND	50	50	49.7	50.4	99	101	70-130	1	30	
Bromochloromethane	ug/L	ND	50	50	47.6	48.8	95	98	70-130	2	30	
Bromodichloromethane	ug/L	ND	50	50	47.9	49.1	96	98	70-130	3	30	
Bromoform	ug/L	ND	50	50	43.4	49.4	87	99	70-130	13	30	
Bromomethane	ug/L	ND	50	50	48.6	52.0	97	104	70-130	7	30	
Carbon tetrachloride	ug/L	ND	50	50	49.0	48.9	98	98	70-130	0	30	

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QUALITY CONTROL DATA

Project: 32538-5 Double Eagle-Dixon
Pace Project No.: 92135830

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 858846 858847

Parameter	Units	92135665001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chlorobenzene	ug/L	ND	50	50	49.6	50.6	99	101	70-146	2	30	
Chloroethane	ug/L	ND	50	50	48.9	51.3	98	103	70-130	5	30	
Chloroform	ug/L	ND	50	50	50.0	50.6	100	101	70-130	1	30	
Chloromethane	ug/L	ND	50	50	52.8	57.7	106	115	70-130	9	30	
cis-1,2-Dichloroethene	ug/L	ND	50	50	51.7	54.1	103	108	70-130	5	30	
cis-1,3-Dichloropropene	ug/L	ND	50	50	49.8	50.4	100	101	70-130	1	30	
Dibromochloromethane	ug/L	ND	50	50	47.2	51.3	94	103	70-130	8	30	
Dibromomethane	ug/L	ND	50	50	49.1	48.6	98	97	70-130	1	30	
Dichlorodifluoromethane	ug/L	ND	50	50	57.6	59.4	115	119	70-130	3	30	
Diisopropyl ether	ug/L	ND	50	50	50.9	52.1	102	104	70-130	2	30	
Ethylbenzene	ug/L	ND	50	50	52.3	53.5	105	107	70-130	2	30	
Hexachloro-1,3-butadiene	ug/L	ND	50	50	53.4	56.1	107	112	70-130	5	30	
m&p-Xylene	ug/L	ND	100	100	108	111	108	111	70-130	3	30	
Methyl-tert-butyl ether	ug/L	ND	50	50	49.4	50.7	99	101	70-130	3	30	
Methylene Chloride	ug/L	ND	50	50	45.1	47.0	90	94	70-130	4	30	
Naphthalene	ug/L	ND	50	50	54.9	55.8	110	112	70-130	2	30	
o-Xylene	ug/L	ND	50	50	55.1	56.8	110	114	70-130	3	30	
p-Isopropyltoluene	ug/L	ND	50	50	55.9	57.8	112	116	70-130	3	30	
Styrene	ug/L	ND	50	50	51.3	53.2	103	106	70-130	4	30	
Tetrachloroethene	ug/L	ND	50	50	53.3	54.8	107	110	70-130	3	30	
Toluene	ug/L	ND	50	50	50.9	51.3	102	103	70-155	1	30	
trans-1,2-Dichloroethene	ug/L	ND	50	50	46.3	47.7	93	95	70-130	3	30	
trans-1,3-Dichloropropene	ug/L	ND	50	50	53.2	54.5	106	109	70-130	2	30	
Trichloroethene	ug/L	ND	50	50	50.8	50.5	102	101	69-151	1	30	
Trichlorofluoromethane	ug/L	ND	50	50	54.8	56.2	110	112	70-130	3	30	
Vinyl acetate	ug/L	ND	100	100	96.6	99.5	97	100	70-130	3	30	
Vinyl chloride	ug/L	ND	50	50	49.5	51.8	99	104	70-130	5	30	
1,2-Dichloroethane-d4 (S)	%						95	96	70-130			
4-Bromofluorobenzene (S)	%						103	102	70-130			
Dibromofluoromethane (S)	%						98	99	70-130			
Toluene-d8 (S)	%						100	100	70-130			

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QUALITY CONTROL DATA

Project: 32538-5 Double Eagle-Dixon
Pace Project No.: 92135830

QC Batch: MSV/20825
Analysis Method: EPA 8260
QC Batch Method: EPA 8260
Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92135830008, 92135830009

METHOD BLANK: 858844
Matrix: Water
Associated Lab Samples: 92135830008, 92135830009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	10/24/12 18:00	
1,1,1-Trichloroethane	ug/L	ND	1.0	10/24/12 18:00	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	10/24/12 18:00	
1,1,2-Trichloroethane	ug/L	ND	1.0	10/24/12 18:00	
1,1-Dichloroethane	ug/L	ND	1.0	10/24/12 18:00	
1,1-Dichloroethene	ug/L	ND	1.0	10/24/12 18:00	
1,1-Dichloropropene	ug/L	ND	1.0	10/24/12 18:00	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	10/24/12 18:00	
1,2,3-Trichloropropane	ug/L	ND	1.0	10/24/12 18:00	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	10/24/12 18:00	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.0	10/24/12 18:00	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	10/24/12 18:00	
1,2-Dichlorobenzene	ug/L	ND	1.0	10/24/12 18:00	
1,2-Dichloroethane	ug/L	ND	1.0	10/24/12 18:00	
1,2-Dichloropropane	ug/L	ND	1.0	10/24/12 18:00	
1,3-Dichlorobenzene	ug/L	ND	1.0	10/24/12 18:00	
1,3-Dichloropropane	ug/L	ND	1.0	10/24/12 18:00	
1,4-Dichlorobenzene	ug/L	ND	1.0	10/24/12 18:00	
2,2-Dichloropropane	ug/L	ND	1.0	10/24/12 18:00	
2-Butanone (MEK)	ug/L	ND	5.0	10/24/12 18:00	
2-Chlorotoluene	ug/L	ND	1.0	10/24/12 18:00	
2-Hexanone	ug/L	ND	5.0	10/24/12 18:00	
4-Chlorotoluene	ug/L	ND	1.0	10/24/12 18:00	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	10/24/12 18:00	
Acetone	ug/L	ND	25.0	10/24/12 18:00	
Benzene	ug/L	ND	1.0	10/24/12 18:00	
Bromobenzene	ug/L	ND	1.0	10/24/12 18:00	
Bromochloromethane	ug/L	ND	1.0	10/24/12 18:00	
Bromodichloromethane	ug/L	ND	1.0	10/24/12 18:00	
Bromoform	ug/L	ND	1.0	10/24/12 18:00	
Bromomethane	ug/L	ND	2.0	10/24/12 18:00	
Carbon tetrachloride	ug/L	ND	1.0	10/24/12 18:00	
Chlorobenzene	ug/L	ND	1.0	10/24/12 18:00	
Chloroethane	ug/L	ND	1.0	10/24/12 18:00	
Chloroform	ug/L	ND	1.0	10/24/12 18:00	
Chloromethane	ug/L	ND	1.0	10/24/12 18:00	
cis-1,2-Dichloroethene	ug/L	ND	1.0	10/24/12 18:00	
cis-1,3-Dichloropropene	ug/L	ND	1.0	10/24/12 18:00	
Dibromochloromethane	ug/L	ND	1.0	10/24/12 18:00	
Dibromomethane	ug/L	ND	1.0	10/24/12 18:00	
Dichlorodifluoromethane	ug/L	ND	1.0	10/24/12 18:00	
Diisopropyl ether	ug/L	ND	1.0	10/24/12 18:00	
Ethylbenzene	ug/L	ND	1.0	10/24/12 18:00	

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QUALITY CONTROL DATA

Project: 32538-5 Double Eagle-Dixon
Pace Project No.: 92135830

METHOD BLANK: 858844 Matrix: Water

Associated Lab Samples: 92135830008, 92135830009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/L	ND	1.0	10/24/12 18:00	
m&p-Xylene	ug/L	ND	2.0	10/24/12 18:00	
Methyl-tert-butyl ether	ug/L	ND	1.0	10/24/12 18:00	
Methylene Chloride	ug/L	ND	2.0	10/24/12 18:00	
Naphthalene	ug/L	ND	1.0	10/24/12 18:00	
o-Xylene	ug/L	ND	1.0	10/24/12 18:00	
p-Isopropyltoluene	ug/L	ND	1.0	10/24/12 18:00	
Styrene	ug/L	ND	1.0	10/24/12 18:00	
Tetrachloroethene	ug/L	ND	1.0	10/24/12 18:00	
Toluene	ug/L	ND	1.0	10/24/12 18:00	
trans-1,2-Dichloroethene	ug/L	ND	1.0	10/24/12 18:00	
trans-1,3-Dichloropropene	ug/L	ND	1.0	10/24/12 18:00	
Trichloroethene	ug/L	ND	1.0	10/24/12 18:00	
Trichlorofluoromethane	ug/L	ND	1.0	10/24/12 18:00	
Vinyl acetate	ug/L	ND	2.0	10/24/12 18:00	
Vinyl chloride	ug/L	ND	1.0	10/24/12 18:00	
1,2-Dichloroethane-d4 (S)	%	106	70-130	10/24/12 18:00	
4-Bromofluorobenzene (S)	%	98	70-130	10/24/12 18:00	
Dibromofluoromethane (S)	%	103	70-130	10/24/12 18:00	
Toluene-d8 (S)	%	100	70-130	10/24/12 18:00	

LABORATORY CONTROL SAMPLE: 858845

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	49.1	98	70-130	
1,1,1-Trichloroethane	ug/L	50	51.0	102	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	46.0	92	70-130	
1,1,2-Trichloroethane	ug/L	50	50.1	100	70-130	
1,1-Dichloroethane	ug/L	50	50.1	100	70-130	
1,1-Dichloroethene	ug/L	50	48.0	96	70-132	
1,1-Dichloropropene	ug/L	50	47.8	96	70-130	
1,2,3-Trichlorobenzene	ug/L	50	54.8	110	70-135	
1,2,3-Trichloropropane	ug/L	50	47.8	96	70-130	
1,2,4-Trichlorobenzene	ug/L	50	58.6	117	70-134	
1,2-Dibromo-3-chloropropane	ug/L	50	50.3	101	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	51.7	103	70-130	
1,2-Dichlorobenzene	ug/L	50	51.6	103	70-130	
1,2-Dichloroethane	ug/L	50	45.8	92	70-130	
1,2-Dichloropropane	ug/L	50	47.9	96	70-130	
1,3-Dichlorobenzene	ug/L	50	50.8	102	70-130	
1,3-Dichloropropane	ug/L	50	49.2	98	70-130	
1,4-Dichlorobenzene	ug/L	50	48.0	96	70-130	
2,2-Dichloropropane	ug/L	50	49.9	100	58-145	
2-Butanone (MEK)	ug/L	100	100	100	70-145	
2-Chlorotoluene	ug/L	50	51.2	102	70-130	

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QUALITY CONTROL DATA

Project: 32538-5 Double Eagle-Dixon
Pace Project No.: 92135830

LABORATORY CONTROL SAMPLE: 858845

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Hexanone	ug/L	100	111	111	70-144	
4-Chlorotoluene	ug/L	50	51.4	103	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	108	108	70-140	
Acetone	ug/L	100	89.1	89	50-175	
Benzene	ug/L	50	48.6	97	70-130	
Bromobenzene	ug/L	50	49.5	99	70-130	
Bromochloromethane	ug/L	50	47.8	96	70-130	
Bromodichloromethane	ug/L	50	47.4	95	70-130	
Bromoform	ug/L	50	40.7	81	70-130	
Bromomethane	ug/L	50	48.4	97	54-130	
Carbon tetrachloride	ug/L	50	47.1	94	70-132	
Chlorobenzene	ug/L	50	48.7	97	70-130	
Chloroethane	ug/L	50	48.3	97	64-134	
Chloroform	ug/L	50	49.0	98	70-130	
Chloromethane	ug/L	50	52.0	104	64-130	
cis-1,2-Dichloroethene	ug/L	50	51.0	102	70-131	
cis-1,3-Dichloropropene	ug/L	50	51.6	103	70-130	
Dibromochloromethane	ug/L	50	46.9	94	70-130	
Dibromomethane	ug/L	50	49.7	99	70-131	
Dichlorodifluoromethane	ug/L	50	55.6	111	56-130	
Diisopropyl ether	ug/L	50	48.6	97	70-130	
Ethylbenzene	ug/L	50	51.1	102	70-130	
Hexachloro-1,3-butadiene	ug/L	50	53.2	106	70-130	
m&p-Xylene	ug/L	100	104	104	70-130	
Methyl-tert-butyl ether	ug/L	50	49.7	99	70-130	
Methylene Chloride	ug/L	50	45.0	90	63-130	
Naphthalene	ug/L	50	59.2	118	70-138	
o-Xylene	ug/L	50	54.0	108	70-130	
p-Isopropyltoluene	ug/L	50	55.0	110	70-130	
Styrene	ug/L	50	51.8	104	70-130	
Tetrachloroethene	ug/L	50	51.3	103	70-130	
Toluene	ug/L	50	49.6	99	70-130	
trans-1,2-Dichloroethene	ug/L	50	44.6	89	70-130	
trans-1,3-Dichloropropene	ug/L	50	54.0	108	70-132	
Trichloroethene	ug/L	50	49.1	98	70-130	
Trichlorofluoromethane	ug/L	50	52.2	104	62-133	
Vinyl acetate	ug/L	100	104	104	66-157	
Vinyl chloride	ug/L	50	48.1	96	69-130	
1,2-Dichloroethane-d4 (S)	%			96	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Dibromofluoromethane (S)	%			98	70-130	
Toluene-d8 (S)	%			101	70-130	

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QUALITY CONTROL DATA

Project: 32538-5 Double Eagle-Dixon
Pace Project No.: 92135830

QC Batch: MSV/20833 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92135830005, 92135830006, 92135830007

METHOD BLANK: 859651 Matrix: Water
Associated Lab Samples: 92135830005, 92135830006, 92135830007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	10/25/12 21:43	
1,1,1-Trichloroethane	ug/L	ND	1.0	10/25/12 21:43	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	10/25/12 21:43	
1,1,2-Trichloroethane	ug/L	ND	1.0	10/25/12 21:43	
1,1-Dichloroethane	ug/L	ND	1.0	10/25/12 21:43	
1,1-Dichloroethene	ug/L	ND	1.0	10/25/12 21:43	
1,1-Dichloropropene	ug/L	ND	1.0	10/25/12 21:43	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	10/25/12 21:43	
1,2,3-Trichloropropane	ug/L	ND	1.0	10/25/12 21:43	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	10/25/12 21:43	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.0	10/25/12 21:43	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	10/25/12 21:43	
1,2-Dichlorobenzene	ug/L	ND	1.0	10/25/12 21:43	
1,2-Dichloroethane	ug/L	ND	1.0	10/25/12 21:43	
1,2-Dichloropropane	ug/L	ND	1.0	10/25/12 21:43	
1,3-Dichlorobenzene	ug/L	ND	1.0	10/25/12 21:43	
1,3-Dichloropropane	ug/L	ND	1.0	10/25/12 21:43	
1,4-Dichlorobenzene	ug/L	ND	1.0	10/25/12 21:43	
2,2-Dichloropropane	ug/L	ND	1.0	10/25/12 21:43	
2-Butanone (MEK)	ug/L	ND	5.0	10/25/12 21:43	
2-Chlorotoluene	ug/L	ND	1.0	10/25/12 21:43	
2-Hexanone	ug/L	ND	5.0	10/25/12 21:43	
4-Chlorotoluene	ug/L	ND	1.0	10/25/12 21:43	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	10/25/12 21:43	
Acetone	ug/L	ND	25.0	10/25/12 21:43	
Benzene	ug/L	ND	1.0	10/25/12 21:43	
Bromobenzene	ug/L	ND	1.0	10/25/12 21:43	
Bromochloromethane	ug/L	ND	1.0	10/25/12 21:43	
Bromodichloromethane	ug/L	ND	1.0	10/25/12 21:43	
Bromoform	ug/L	ND	1.0	10/25/12 21:43	
Bromomethane	ug/L	ND	2.0	10/25/12 21:43	
Carbon tetrachloride	ug/L	ND	1.0	10/25/12 21:43	
Chlorobenzene	ug/L	ND	1.0	10/25/12 21:43	
Chloroethane	ug/L	ND	1.0	10/25/12 21:43	
Chloroform	ug/L	ND	1.0	10/25/12 21:43	
Chloromethane	ug/L	ND	1.0	10/25/12 21:43	
cis-1,2-Dichloroethene	ug/L	ND	1.0	10/25/12 21:43	
cis-1,3-Dichloropropene	ug/L	ND	1.0	10/25/12 21:43	
Dibromochloromethane	ug/L	ND	1.0	10/25/12 21:43	
Dibromomethane	ug/L	ND	1.0	10/25/12 21:43	
Dichlorodifluoromethane	ug/L	ND	1.0	10/25/12 21:43	
Diisopropyl ether	ug/L	ND	1.0	10/25/12 21:43	
Ethylbenzene	ug/L	ND	1.0	10/25/12 21:43	

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QUALITY CONTROL DATA

Project: 32538-5 Double Eagle-Dixon
Pace Project No.: 92135830

METHOD BLANK: 859651 Matrix: Water

Associated Lab Samples: 92135830005, 92135830006, 92135830007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/L	ND	1.0	10/25/12 21:43	
m&p-Xylene	ug/L	ND	2.0	10/25/12 21:43	
Methyl-tert-butyl ether	ug/L	ND	1.0	10/25/12 21:43	
Methylene Chloride	ug/L	ND	2.0	10/25/12 21:43	
Naphthalene	ug/L	ND	1.0	10/25/12 21:43	
o-Xylene	ug/L	ND	1.0	10/25/12 21:43	
p-Isopropyltoluene	ug/L	ND	1.0	10/25/12 21:43	
Styrene	ug/L	ND	1.0	10/25/12 21:43	
Tetrachloroethene	ug/L	ND	1.0	10/25/12 21:43	
Toluene	ug/L	ND	1.0	10/25/12 21:43	
trans-1,2-Dichloroethene	ug/L	ND	1.0	10/25/12 21:43	
trans-1,3-Dichloropropene	ug/L	ND	1.0	10/25/12 21:43	
Trichloroethene	ug/L	ND	1.0	10/25/12 21:43	
Trichlorofluoromethane	ug/L	ND	1.0	10/25/12 21:43	
Vinyl acetate	ug/L	ND	2.0	10/25/12 21:43	
Vinyl chloride	ug/L	ND	1.0	10/25/12 21:43	
Xylene (Total)	ug/L	ND	2.0	10/25/12 21:43	
1,2-Dichloroethane-d4 (S)	%	105	70-130	10/25/12 21:43	
4-Bromofluorobenzene (S)	%	96	70-130	10/25/12 21:43	
Dibromofluoromethane (S)	%	106	70-130	10/25/12 21:43	
Toluene-d8 (S)	%	99	70-130	10/25/12 21:43	

LABORATORY CONTROL SAMPLE: 859652

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	47.1	94	70-130	
1,1,1-Trichloroethane	ug/L	50	52.2	104	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	45.7	91	70-130	
1,1,2-Trichloroethane	ug/L	50	46.7	93	70-130	
1,1-Dichloroethane	ug/L	50	51.2	102	70-130	
1,1-Dichloroethene	ug/L	50	53.0	106	70-132	
1,1-Dichloropropene	ug/L	50	49.7	99	70-130	
1,2,3-Trichlorobenzene	ug/L	50	55.0	110	70-135	
1,2,3-Trichloropropane	ug/L	50	45.2	90	70-130	
1,2,4-Trichlorobenzene	ug/L	50	58.1	116	70-134	
1,2-Dibromo-3-chloropropane	ug/L	50	54.5	109	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	49.9	100	70-130	
1,2-Dichlorobenzene	ug/L	50	50.3	101	70-130	
1,2-Dichloroethane	ug/L	50	46.6	93	70-130	
1,2-Dichloropropane	ug/L	50	47.7	95	70-130	
1,3-Dichlorobenzene	ug/L	50	49.0	98	70-130	
1,3-Dichloropropane	ug/L	50	48.0	96	70-130	
1,4-Dichlorobenzene	ug/L	50	47.9	96	70-130	
2,2-Dichloropropane	ug/L	50	52.1	104	58-145	
2-Butanone (MEK)	ug/L	100	102	102	70-145	

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QUALITY CONTROL DATA

Project: 32538-5 Double Eagle-Dixon
Pace Project No.: 92135830

LABORATORY CONTROL SAMPLE: 859652

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Chlorotoluene	ug/L	50	51.7	103	70-130	
2-Hexanone	ug/L	100	103	103	70-144	
4-Chlorotoluene	ug/L	50	51.0	102	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	107	107	70-140	
Acetone	ug/L	100	94.9	95	50-175	
Benzene	ug/L	50	48.8	98	70-130	
Bromobenzene	ug/L	50	50.0	100	70-130	
Bromochloromethane	ug/L	50	49.5	99	70-130	
Bromodichloromethane	ug/L	50	48.8	98	70-130	
Bromoform	ug/L	50	53.3	107	70-130	
Bromomethane	ug/L	50	50.0	100	54-130	
Carbon tetrachloride	ug/L	50	47.1	94	70-132	
Chlorobenzene	ug/L	50	48.6	97	70-130	
Chloroethane	ug/L	50	56.4	113	64-134	
Chloroform	ug/L	50	51.2	102	70-130	
Chloromethane	ug/L	50	57.1	114	64-130	
cis-1,2-Dichloroethene	ug/L	50	52.8	106	70-131	
cis-1,3-Dichloropropene	ug/L	50	51.3	103	70-130	
Dibromochloromethane	ug/L	50	51.6	103	70-130	
Dibromomethane	ug/L	50	47.4	95	70-131	
Dichlorodifluoromethane	ug/L	50	57.2	114	56-130	
Diisopropyl ether	ug/L	50	44.9	90	70-130	
Ethylbenzene	ug/L	50	50.4	101	70-130	
Hexachloro-1,3-butadiene	ug/L	50	53.1	106	70-130	
m&p-Xylene	ug/L	100	104	104	70-130	
Methyl-tert-butyl ether	ug/L	50	53.0	106	70-130	
Methylene Chloride	ug/L	50	50.9	102	63-130	
Naphthalene	ug/L	50	56.9	114	70-138	
o-Xylene	ug/L	50	53.8	108	70-130	
p-Isopropyltoluene	ug/L	50	55.1	110	70-130	
Styrene	ug/L	50	50.9	102	70-130	
Tetrachloroethene	ug/L	50	52.5	105	70-130	
Toluene	ug/L	50	48.7	97	70-130	
trans-1,2-Dichloroethene	ug/L	50	50.8	102	70-130	
trans-1,3-Dichloropropene	ug/L	50	53.4	107	70-132	
Trichloroethene	ug/L	50	48.6	97	70-130	
Trichlorofluoromethane	ug/L	50	52.3	105	62-133	
Vinyl acetate	ug/L	100	116	116	66-157	
Vinyl chloride	ug/L	50	52.2	104	69-130	
Xylene (Total)	ug/L	150	158	105	70-130	
1,2-Dichloroethane-d4 (S)	%			98	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Dibromofluoromethane (S)	%			101	70-130	
Toluene-d8 (S)	%			100	70-130	

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QUALITY CONTROL DATA

Project: 32538-5 Double Eagle-Dixon
Pace Project No.: 92135830

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 859653 859654

Parameter	Units	92135605008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1-Dichloroethene	ug/L	0.81J	50	50	53.2	27.3	105	53	70-166	64	30	D6,M1
Benzene	ug/L	ND	50	50	40.8	20.1	82	40	70-148	68	30	D6,M1
Chlorobenzene	ug/L	ND	50	50	50.2	24.3	100	49	70-146	70	30	D6,M1
Toluene	ug/L	ND	50	50	47.6	23.2	95	46	70-155	69	30	D6,M1
Trichloroethene	ug/L	22.5	50	50	69.9	34.5	95	24	69-151	68	30	D6,M1
1,2-Dichloroethane-d4 (S)	%						114	117	70-130			
4-Bromofluorobenzene (S)	%						86	86	70-130			
Dibromofluoromethane (S)	%						110	111	70-130			
Toluene-d8 (S)	%						95	96	70-130			

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QUALITY CONTROL DATA

Project: 32538-5 Double Eagle-Dixon
Pace Project No.: 92135830

QC Batch: MSV/20888
Analysis Method: EPA 8260
QC Batch Method: EPA 8260
Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 92135830001, 92135830002

METHOD BLANK: 861895
Matrix: Solid
Associated Lab Samples: 92135830001, 92135830002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.4	10/29/12 10:09	
1,1,1-Trichloroethane	ug/kg	ND	5.4	10/29/12 10:09	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.4	10/29/12 10:09	
1,1,2-Trichloroethane	ug/kg	ND	5.4	10/29/12 10:09	
1,1-Dichloroethane	ug/kg	ND	5.4	10/29/12 10:09	
1,1-Dichloroethene	ug/kg	ND	5.4	10/29/12 10:09	
1,1-Dichloropropene	ug/kg	ND	5.4	10/29/12 10:09	
1,2,3-Trichlorobenzene	ug/kg	ND	5.4	10/29/12 10:09	
1,2,3-Trichloropropane	ug/kg	ND	5.4	10/29/12 10:09	
1,2,4-Trichlorobenzene	ug/kg	ND	5.4	10/29/12 10:09	
1,2,4-Trimethylbenzene	ug/kg	ND	5.4	10/29/12 10:09	
1,2-Dibromo-3-chloropropane	ug/kg	ND	5.4	10/29/12 10:09	
1,2-Dibromoethane (EDB)	ug/kg	ND	5.4	10/29/12 10:09	
1,2-Dichlorobenzene	ug/kg	ND	5.4	10/29/12 10:09	
1,2-Dichloroethane	ug/kg	ND	5.4	10/29/12 10:09	
1,2-Dichloropropane	ug/kg	ND	5.4	10/29/12 10:09	
1,3,5-Trimethylbenzene	ug/kg	ND	5.4	10/29/12 10:09	
1,3-Dichlorobenzene	ug/kg	ND	5.4	10/29/12 10:09	
1,3-Dichloropropane	ug/kg	ND	5.4	10/29/12 10:09	
1,4-Dichlorobenzene	ug/kg	ND	5.4	10/29/12 10:09	
2,2-Dichloropropane	ug/kg	ND	5.4	10/29/12 10:09	
2-Butanone (MEK)	ug/kg	ND	108	10/29/12 10:09	
2-Chlorotoluene	ug/kg	ND	5.4	10/29/12 10:09	
2-Hexanone	ug/kg	ND	54.2	10/29/12 10:09	
4-Chlorotoluene	ug/kg	ND	5.4	10/29/12 10:09	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	54.2	10/29/12 10:09	
Acetone	ug/kg	ND	108	10/29/12 10:09	
Benzene	ug/kg	ND	5.4	10/29/12 10:09	
Bromobenzene	ug/kg	ND	5.4	10/29/12 10:09	
Bromochloromethane	ug/kg	ND	5.4	10/29/12 10:09	
Bromodichloromethane	ug/kg	ND	5.4	10/29/12 10:09	
Bromoform	ug/kg	ND	5.4	10/29/12 10:09	
Bromomethane	ug/kg	ND	10.8	10/29/12 10:09	
Carbon tetrachloride	ug/kg	ND	5.4	10/29/12 10:09	
Chlorobenzene	ug/kg	ND	5.4	10/29/12 10:09	
Chloroethane	ug/kg	ND	10.8	10/29/12 10:09	
Chloroform	ug/kg	ND	5.4	10/29/12 10:09	
Chloromethane	ug/kg	ND	10.8	10/29/12 10:09	
cis-1,2-Dichloroethene	ug/kg	ND	5.4	10/29/12 10:09	
cis-1,3-Dichloropropene	ug/kg	ND	5.4	10/29/12 10:09	
Dibromochloromethane	ug/kg	ND	5.4	10/29/12 10:09	
Dibromomethane	ug/kg	ND	5.4	10/29/12 10:09	
Dichlorodifluoromethane	ug/kg	ND	10.8	10/29/12 10:09	

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QUALITY CONTROL DATA

Project: 32538-5 Double Eagle-Dixon
Pace Project No.: 92135830

METHOD BLANK: 861895 Matrix: Solid

Associated Lab Samples: 92135830001, 92135830002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diisopropyl ether	ug/kg	ND	5.4	10/29/12 10:09	
Ethylbenzene	ug/kg	ND	5.4	10/29/12 10:09	
Hexachloro-1,3-butadiene	ug/kg	ND	5.4	10/29/12 10:09	
Isopropylbenzene (Cumene)	ug/kg	ND	5.4	10/29/12 10:09	
m&p-Xylene	ug/kg	ND	10.8	10/29/12 10:09	
Methyl-tert-butyl ether	ug/kg	ND	5.4	10/29/12 10:09	
Methylene Chloride	ug/kg	ND	21.7	10/29/12 10:09	
n-Butylbenzene	ug/kg	ND	5.4	10/29/12 10:09	
n-Propylbenzene	ug/kg	ND	5.4	10/29/12 10:09	
Naphthalene	ug/kg	ND	5.4	10/29/12 10:09	
o-Xylene	ug/kg	ND	5.4	10/29/12 10:09	
p-Isopropyltoluene	ug/kg	ND	5.4	10/29/12 10:09	
sec-Butylbenzene	ug/kg	ND	5.4	10/29/12 10:09	
Styrene	ug/kg	ND	5.4	10/29/12 10:09	
tert-Butylbenzene	ug/kg	ND	5.4	10/29/12 10:09	
Tetrachloroethene	ug/kg	ND	5.4	10/29/12 10:09	
Toluene	ug/kg	ND	5.4	10/29/12 10:09	
trans-1,2-Dichloroethene	ug/kg	ND	5.4	10/29/12 10:09	
trans-1,3-Dichloropropene	ug/kg	ND	5.4	10/29/12 10:09	
Trichloroethene	ug/kg	ND	5.4	10/29/12 10:09	
Trichlorofluoromethane	ug/kg	ND	5.4	10/29/12 10:09	
Vinyl acetate	ug/kg	ND	54.2	10/29/12 10:09	
Vinyl chloride	ug/kg	ND	10.8	10/29/12 10:09	
Xylene (Total)	ug/kg	ND	10.8	10/29/12 10:09	
1,2-Dichloroethane-d4 (S)	%	108	70-132	10/29/12 10:09	
4-Bromofluorobenzene (S)	%	104	70-130	10/29/12 10:09	
Dibromofluoromethane (S)	%	106	70-130	10/29/12 10:09	
Toluene-d8 (S)	%	102	70-130	10/29/12 10:09	

LABORATORY CONTROL SAMPLE: 861896

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	58.7	54.5	93	70-131	
1,1,1-Trichloroethane	ug/kg	58.7	42.2	72	70-141	
1,1,2,2-Tetrachloroethane	ug/kg	58.7	56.5	96	70-130	
1,1,2-Trichloroethane	ug/kg	58.7	58.1	99	70-132	
1,1-Dichloroethane	ug/kg	58.7	55.3	94	70-143	
1,1-Dichloroethene	ug/kg	58.7	55.0	94	70-137	
1,1-Dichloropropene	ug/kg	58.7	39.5	67	70-135	L0
1,2,3-Trichlorobenzene	ug/kg	58.7	59.6	102	69-153	
1,2,3-Trichloropropane	ug/kg	58.7	58.1	99	70-130	
1,2,4-Trichlorobenzene	ug/kg	58.7	58.9	100	55-171	
1,2,4-Trimethylbenzene	ug/kg	58.7	56.6	96	70-149	
1,2-Dibromo-3-chloropropane	ug/kg	58.7	59.8	102	68-141	
1,2-Dibromoethane (EDB)	ug/kg	58.7	56.5	96	70-130	

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QUALITY CONTROL DATA

Project: 32538-5 Double Eagle-Dixon
Pace Project No.: 92135830

LABORATORY CONTROL SAMPLE: 861896

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichlorobenzene	ug/kg	58.7	54.4	93	70-140	
1,2-Dichloroethane	ug/kg	58.7	57.7	98	70-137	
1,2-Dichloropropane	ug/kg	58.7	49.3	84	70-133	
1,3,5-Trimethylbenzene	ug/kg	58.7	56.3	96	70-143	
1,3-Dichlorobenzene	ug/kg	58.7	54.4	93	70-144	
1,3-Dichloropropane	ug/kg	58.7	51.3	87	70-132	
1,4-Dichlorobenzene	ug/kg	58.7	54.4	93	70-142	
2,2-Dichloropropane	ug/kg	58.7	43.0	73	68-152	
2-Butanone (MEK)	ug/kg	117	111J	94	70-149	
2-Chlorotoluene	ug/kg	58.7	54.2	92	70-141	
2-Hexanone	ug/kg	117	133	114	70-149	
4-Chlorotoluene	ug/kg	58.7	55.6	95	70-149	
4-Methyl-2-pentanone (MIBK)	ug/kg	117	136	116	70-153	
Acetone	ug/kg	117	107J	91	70-157	
Benzene	ug/kg	58.7	55.8	95	70-130	
Bromobenzene	ug/kg	58.7	54.6	93	70-141	
Bromochloromethane	ug/kg	58.7	48.2	82	70-149	
Bromodichloromethane	ug/kg	58.7	53.2	91	70-130	
Bromoform	ug/kg	58.7	62.2	106	70-131	
Bromomethane	ug/kg	58.7	46.6	79	64-136	
Carbon tetrachloride	ug/kg	58.7	40.7	69	70-154	L0
Chlorobenzene	ug/kg	58.7	55.5	95	70-135	
Chloroethane	ug/kg	58.7	66.6	114	68-151	
Chloroform	ug/kg	58.7	47.4	81	70-130	
Chloromethane	ug/kg	58.7	73.6	125	70-132	
cis-1,2-Dichloroethene	ug/kg	58.7	47.9	82	70-140	
cis-1,3-Dichloropropene	ug/kg	58.7	55.2	94	70-137	
Dibromochloromethane	ug/kg	58.7	54.1	92	70-130	
Dibromomethane	ug/kg	58.7	54.9	93	70-136	
Dichlorodifluoromethane	ug/kg	58.7	61.6	105	36-148	
Diisopropyl ether	ug/kg	58.7	52.7	90	70-139	
Ethylbenzene	ug/kg	58.7	56.2	96	70-137	
Hexachloro-1,3-butadiene	ug/kg	58.7	53.9	92	70-145	
Isopropylbenzene (Cumene)	ug/kg	58.7	58.1	99	70-141	
m&p-Xylene	ug/kg	117	117	100	70-140	
Methyl-tert-butyl ether	ug/kg	58.7	50.3	86	45-150	
Methylene Chloride	ug/kg	58.7	53.4	91	70-133	
n-Butylbenzene	ug/kg	58.7	57.4	98	65-155	
n-Propylbenzene	ug/kg	58.7	54.2	92	70-148	
Naphthalene	ug/kg	58.7	59.4	101	70-148	
o-Xylene	ug/kg	58.7	58.0	99	70-141	
p-Isopropyltoluene	ug/kg	58.7	56.5	96	70-148	
sec-Butylbenzene	ug/kg	58.7	55.3	94	70-145	
Styrene	ug/kg	58.7	60.0	102	70-138	
tert-Butylbenzene	ug/kg	58.7	54.6	93	70-143	
Tetrachloroethene	ug/kg	58.7	52.9	90	70-140	
Toluene	ug/kg	58.7	56.6	96	70-130	
trans-1,2-Dichloroethene	ug/kg	58.7	48.6	83	70-136	

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QUALITY CONTROL DATA

Project: 32538-5 Double Eagle-Dixon
Pace Project No.: 92135830

LABORATORY CONTROL SAMPLE: 861896

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
trans-1,3-Dichloropropene	ug/kg	58.7	60.8	104	70-138	
Trichloroethene	ug/kg	58.7	48.4	83	70-132	
Trichlorofluoromethane	ug/kg	58.7	62.1	106	69-134	
Vinyl acetate	ug/kg	117	139	118	24-161	
Vinyl chloride	ug/kg	58.7	61.4	105	55-140	
Xylene (Total)	ug/kg	176	175	99	70-141	
1,2-Dichloroethane-d4 (S)	%			109	70-132	
4-Bromofluorobenzene (S)	%			107	70-130	
Dibromofluoromethane (S)	%			91	70-130	
Toluene-d8 (S)	%			102	70-130	

MATRIX SPIKE SAMPLE: 862095

Parameter	Units	92136638001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/kg	<2.0	65.6	54.6	83	49-180	
Benzene	ug/kg	<1.8	65.6	51.3	78	50-166	
Chlorobenzene	ug/kg	<2.1	65.6	64.5	98	43-169	
Toluene	ug/kg	<2.0	65.6	61.6	94	52-163	
Trichloroethene	ug/kg	<2.4	65.6	61.1	93	49-167	
1,2-Dichloroethane-d4 (S)	%				103	70-132	
4-Bromofluorobenzene (S)	%				86	70-130	
Dibromofluoromethane (S)	%				101	70-130	
Toluene-d8 (S)	%				92	70-130	

SAMPLE DUPLICATE: 862094

Parameter	Units	92136136001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	ND		30	
1,1,1-Trichloroethane	ug/kg	ND	ND		30	
1,1,2,2-Tetrachloroethane	ug/kg	ND	ND		30	
1,1,2-Trichloroethane	ug/kg	ND	ND		30	
1,1-Dichloroethane	ug/kg	ND	ND		30	
1,1-Dichloroethene	ug/kg	ND	ND		30	
1,1-Dichloropropene	ug/kg	ND	ND		30	
1,2,3-Trichlorobenzene	ug/kg	ND	ND		30	
1,2,3-Trichloropropane	ug/kg	ND	ND		30	
1,2,4-Trichlorobenzene	ug/kg	ND	ND		30	
1,2,4-Trimethylbenzene	ug/kg	ND	ND		30	
1,2-Dibromo-3-chloropropane	ug/kg	ND	ND		30	
1,2-Dibromoethane (EDB)	ug/kg	ND	ND		30	
1,2-Dichlorobenzene	ug/kg	ND	ND		30	
1,2-Dichloroethane	ug/kg	ND	ND		30	
1,2-Dichloropropane	ug/kg	ND	ND		30	
1,3,5-Trimethylbenzene	ug/kg	ND	ND		30	
1,3-Dichlorobenzene	ug/kg	ND	ND		30	

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QUALITY CONTROL DATA

Project: 32538-5 Double Eagle-Dixon
Pace Project No.: 92135830

SAMPLE DUPLICATE: 862094

Parameter	Units	92136136001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,3-Dichloropropane	ug/kg	ND	ND		30	
1,4-Dichlorobenzene	ug/kg	ND	ND		30	
2,2-Dichloropropane	ug/kg	ND	ND		30	
2-Butanone (MEK)	ug/kg	ND	ND		30	
2-Chlorotoluene	ug/kg	ND	ND		30	
2-Hexanone	ug/kg	ND	ND		30	
4-Chlorotoluene	ug/kg	ND	ND		30	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	ND		30	
Acetone	ug/kg	ND	71.2J		30	
Benzene	ug/kg	ND	ND		30	
Bromobenzene	ug/kg	ND	ND		30	
Bromochloromethane	ug/kg	ND	ND		30	
Bromodichloromethane	ug/kg	ND	ND		30	
Bromoform	ug/kg	ND	ND		30	
Bromomethane	ug/kg	ND	ND		30	
Carbon tetrachloride	ug/kg	ND	ND		30	
Chlorobenzene	ug/kg	ND	ND		30	
Chloroethane	ug/kg	ND	ND		30	
Chloroform	ug/kg	ND	ND		30	
Chloromethane	ug/kg	ND	ND		30	
cis-1,2-Dichloroethene	ug/kg	ND	ND		30	
cis-1,3-Dichloropropene	ug/kg	ND	ND		30	
Dibromochloromethane	ug/kg	ND	ND		30	
Dibromomethane	ug/kg	ND	ND		30	
Dichlorodifluoromethane	ug/kg	ND	ND		30	
Diisopropyl ether	ug/kg	ND	ND		30	
Ethylbenzene	ug/kg	ND	ND		30	
Hexachloro-1,3-butadiene	ug/kg	ND	ND		30	
Isopropylbenzene (Cumene)	ug/kg	ND	ND		30	
m&p-Xylene	ug/kg	ND	ND		30	
Methyl-tert-butyl ether	ug/kg	ND	ND		30	
Methylene Chloride	ug/kg	ND	ND		30	
n-Butylbenzene	ug/kg	ND	ND		30	
n-Propylbenzene	ug/kg	ND	ND		30	
Naphthalene	ug/kg	ND	ND		30	
o-Xylene	ug/kg	ND	ND		30	
p-Isopropyltoluene	ug/kg	ND	ND		30	
sec-Butylbenzene	ug/kg	ND	ND		30	
Styrene	ug/kg	ND	ND		30	
tert-Butylbenzene	ug/kg	ND	ND		30	
Tetrachloroethene	ug/kg	ND	ND		30	
Toluene	ug/kg	ND	ND		30	
trans-1,2-Dichloroethene	ug/kg	ND	ND		30	
trans-1,3-Dichloropropene	ug/kg	ND	ND		30	
Trichloroethene	ug/kg	ND	ND		30	
Trichlorofluoromethane	ug/kg	ND	ND		30	
Vinyl acetate	ug/kg	ND	ND		30	
Vinyl chloride	ug/kg	ND	ND		30	

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QUALITY CONTROL DATA

Project: 32538-5 Double Eagle-Dixon
Pace Project No.: 92135830

SAMPLE DUPLICATE: 862094

Parameter	Units	92136136001 Result	Dup Result	RPD	Max RPD	Qualifiers
Xylene (Total)	ug/kg	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	110	114	26		
4-Bromofluorobenzene (S)	%	91	86	16		
Dibromofluoromethane (S)	%	99	119	40		
Toluene-d8 (S)	%	98	100	24		

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QUALITY CONTROL DATA

Project: 32538-5 Double Eagle-Dixon
Pace Project No.: 92135830

QC Batch: OEXT/19398
QC Batch Method: EPA 3546
Analysis Method: EPA 8270
Analysis Description: 8270 Solid MSSV Microwave PAH
Associated Lab Samples: 92135830002

METHOD BLANK: 857260
Matrix: Solid
Associated Lab Samples: 92135830002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/kg	ND	330	10/23/12 13:51	
2-Methylnaphthalene	ug/kg	ND	330	10/23/12 13:51	
Acenaphthene	ug/kg	ND	330	10/23/12 13:51	
Acenaphthylene	ug/kg	ND	330	10/23/12 13:51	
Anthracene	ug/kg	ND	330	10/23/12 13:51	
Benzo(a)anthracene	ug/kg	ND	330	10/23/12 13:51	
Benzo(a)pyrene	ug/kg	ND	330	10/23/12 13:51	
Benzo(b)fluoranthene	ug/kg	ND	330	10/23/12 13:51	
Benzo(g,h,i)perylene	ug/kg	ND	330	10/23/12 13:51	
Benzo(k)fluoranthene	ug/kg	ND	330	10/23/12 13:51	
Chrysene	ug/kg	ND	330	10/23/12 13:51	
Dibenz(a,h)anthracene	ug/kg	ND	330	10/23/12 13:51	
Fluoranthene	ug/kg	ND	330	10/23/12 13:51	
Fluorene	ug/kg	ND	330	10/23/12 13:51	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	330	10/23/12 13:51	
Naphthalene	ug/kg	ND	330	10/23/12 13:51	
Phenanthrene	ug/kg	ND	330	10/23/12 13:51	
Pyrene	ug/kg	ND	330	10/23/12 13:51	
2-Fluorobiphenyl (S)	%	76	30-110	10/23/12 13:51	
Nitrobenzene-d5 (S)	%	81	23-110	10/23/12 13:51	
Terphenyl-d14 (S)	%	86	28-110	10/23/12 13:51	

LABORATORY CONTROL SAMPLE: 857261

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/kg	1670	1450	87	45-105	
2-Methylnaphthalene	ug/kg	1670	1440	86	39-112	
Acenaphthene	ug/kg	1670	1450	87	38-117	
Acenaphthylene	ug/kg	1670	1440	86	46-107	
Anthracene	ug/kg	1670	1410	85	50-110	
Benzo(a)anthracene	ug/kg	1670	1560	94	47-116	
Benzo(a)pyrene	ug/kg	1670	1600	96	47-106	
Benzo(b)fluoranthene	ug/kg	1670	1550	93	47-109	
Benzo(g,h,i)perylene	ug/kg	1670	1570	94	39-115	
Benzo(k)fluoranthene	ug/kg	1670	1500	90	45-117	
Chrysene	ug/kg	1670	1520	91	49-110	
Dibenz(a,h)anthracene	ug/kg	1670	1610	96	43-116	
Fluoranthene	ug/kg	1670	1540	93	50-114	
Fluorene	ug/kg	1670	1480	89	46-114	
Indeno(1,2,3-cd)pyrene	ug/kg	1670	1610	96	42-115	
Naphthalene	ug/kg	1670	1400	84	41-110	

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QUALITY CONTROL DATA

Project: 32538-5 Double Eagle-Dixon
Pace Project No.: 92135830

LABORATORY CONTROL SAMPLE: 857261

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenanthrene	ug/kg	1670	1390	83	50-110	
Pyrene	ug/kg	1670	1490	89	45-114	
2-Fluorobiphenyl (S)	%			83	30-110	
Nitrobenzene-d5 (S)	%			90	23-110	
Terphenyl-d14 (S)	%			85	28-110	

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QUALITY CONTROL DATA

Project: 32538-5 Double Eagle-Dixon
Pace Project No.: 92135830

QC Batch: OEXT/19395 Analysis Method: EPA 8270
QC Batch Method: EPA 3510 Analysis Description: 8270 Water MSSV
Associated Lab Samples: 92135830003, 92135830005, 92135830006, 92135830007, 92135830008, 92135830009

METHOD BLANK: 857250 Matrix: Water
Associated Lab Samples: 92135830003, 92135830005, 92135830006, 92135830007, 92135830008, 92135830009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	ND	10.0	10/23/12 14:53	
2-Methylnaphthalene	ug/L	ND	10.0	10/23/12 14:53	
Acenaphthene	ug/L	ND	10.0	10/23/12 14:53	
Acenaphthylene	ug/L	ND	10.0	10/23/12 14:53	
Anthracene	ug/L	ND	10.0	10/23/12 14:53	
Benzo(a)anthracene	ug/L	ND	10.0	10/23/12 14:53	
Benzo(a)pyrene	ug/L	ND	10.0	10/23/12 14:53	
Benzo(b)fluoranthene	ug/L	ND	10.0	10/23/12 14:53	
Benzo(g,h,i)perylene	ug/L	ND	10.0	10/23/12 14:53	
Benzo(k)fluoranthene	ug/L	ND	10.0	10/23/12 14:53	
Chrysene	ug/L	ND	10.0	10/23/12 14:53	
Dibenz(a,h)anthracene	ug/L	ND	10.0	10/23/12 14:53	
Fluoranthene	ug/L	ND	10.0	10/23/12 14:53	
Fluorene	ug/L	ND	10.0	10/23/12 14:53	
Indeno(1,2,3-cd)pyrene	ug/L	ND	10.0	10/23/12 14:53	
Naphthalene	ug/L	ND	10.0	10/23/12 14:53	
Phenanthrene	ug/L	ND	10.0	10/23/12 14:53	
Pyrene	ug/L	ND	10.0	10/23/12 14:53	
2-Fluorobiphenyl (S)	%	80	27-110	10/23/12 14:53	
Nitrobenzene-d5 (S)	%	75	21-110	10/23/12 14:53	
Terphenyl-d14 (S)	%	87	31-107	10/23/12 14:53	

LABORATORY CONTROL SAMPLE & LCSD: 857251 857252

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1-Methylnaphthalene	ug/L	50	36.4	38.1	73	76	21-110	5	30	
2-Methylnaphthalene	ug/L	50	36.4	37.7	73	75	16-110	4	30	
Acenaphthene	ug/L	50	39.0	41.3	78	83	20-105	6	30	
Acenaphthylene	ug/L	50	37.3	40.1	75	80	23-106	7	30	
Anthracene	ug/L	50	38.7	42.0	77	84	25-120	8	30	
Benzo(a)anthracene	ug/L	50	38.1	40.6	76	81	21-128	6	30	
Benzo(a)pyrene	ug/L	50	40.1	42.4	80	85	25-116	6	30	
Benzo(b)fluoranthene	ug/L	50	38.4	40.9	77	82	23-117	6	30	
Benzo(g,h,i)perylene	ug/L	50	38.6	41.3	77	83	17-128	7	30	
Benzo(k)fluoranthene	ug/L	50	37.9	41.3	76	83	25-127	8	30	
Chrysene	ug/L	50	37.8	40.5	76	81	24-125	7	30	
Dibenz(a,h)anthracene	ug/L	50	38.4	40.0	77	80	18-131	4	30	
Fluoranthene	ug/L	50	39.3	39.6	79	79	24-125	1	30	
Fluorene	ug/L	50	38.7	39.9	77	80	24-114	3	30	
Indeno(1,2,3-cd)pyrene	ug/L	50	39.7	41.7	79	83	18-130	5	30	
Naphthalene	ug/L	50	36.3	38.1	73	76	14-110	5	30	

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QUALITY CONTROL DATA

Project: 32538-5 Double Eagle-Dixon
Pace Project No.: 92135830

LABORATORY CONTROL SAMPLE & LCSD: 857251 857252

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Phenanthrene	ug/L	50	38.0	41.3	76	83	25-119	8	30	
Pyrene	ug/L	50	38.4	43.9	77	88	22-127	13	30	
2-Fluorobiphenyl (S)	%				77	78	27-110			
Nitrobenzene-d5 (S)	%				76	77	21-110			
Terphenyl-d14 (S)	%				70	69	31-107			

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QUALITY CONTROL DATA

Project: 32538-5 Double Eagle-Dixon
Pace Project No.: 92135830

QC Batch: PMST/5071
QC Batch Method: ASTM D2974-87
Analysis Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 92135830002

SAMPLE DUPLICATE: 856968

Parameter	Units	92135728001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	15.4	16.1	5	25	

SAMPLE DUPLICATE: 856969

Parameter	Units	92135901009 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	16.0	16.1	0	25	

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QUALIFIERS

Project: 32538-5 Double Eagle-Dixon
Pace Project No.: 92135830

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.

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

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

TNI - The NELAC Institute.

LABORATORIES

PASI-A	Pace Analytical Services - Asheville
PASI-C	Pace Analytical Services - Charlotte

ANALYTE QUALIFIERS

D6	The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.
L0	Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 32538-5 Double Eagle-Dixon
Pace Project No.: 92135830

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92135830002	**SB-7-31-33**	EPA 3050	MPRP/11796	EPA 6010	ICP/10799
92135830003	**EB101612-1**	EPA 3010	MPRP/11784	EPA 6010	ICP/10788
92135830005	**MW-3**	EPA 3010	MPRP/11784	EPA 6010	ICP/10788
92135830006	**MW-1**	EPA 3010	MPRP/11784	EPA 6010	ICP/10788
92135830007	**MW-4**	EPA 3010	MPRP/11784	EPA 6010	ICP/10788
92135830008	**MW-100**	EPA 3010	MPRP/11784	EPA 6010	ICP/10788
92135830009	**EB101812-1**	EPA 3010	MPRP/11784	EPA 6010	ICP/10788
92135830003	**EB101612-1**	EPA 7470	MERP/4620	EPA 7470	MERC/4526
92135830005	**MW-3**	EPA 7470	MERP/4620	EPA 7470	MERC/4526
92135830006	**MW-1**	EPA 7470	MERP/4620	EPA 7470	MERC/4526
92135830007	**MW-4**	EPA 7470	MERP/4620	EPA 7470	MERC/4526
92135830008	**MW-100**	EPA 7470	MERP/4620	EPA 7470	MERC/4526
92135830009	**EB101812-1**	EPA 7470	MERP/4620	EPA 7470	MERC/4526
92135830002	**SB-7-31-33**	EPA 7471	MERP/4616	EPA 7471	MERC/4520
92135830002	**SB-7-31-33**	EPA 3546	OEXT/19398	EPA 8270	MSSV/6903
92135830003	**EB101612-1**	EPA 3510	OEXT/19395	EPA 8270	MSSV/6905
92135830005	**MW-3**	EPA 3510	OEXT/19395	EPA 8270	MSSV/6905
92135830006	**MW-1**	EPA 3510	OEXT/19395	EPA 8270	MSSV/6905
92135830007	**MW-4**	EPA 3510	OEXT/19395	EPA 8270	MSSV/6905
92135830008	**MW-100**	EPA 3510	OEXT/19395	EPA 8270	MSSV/6905
92135830009	**EB101812-1**	EPA 3510	OEXT/19395	EPA 8270	MSSV/6905
92135830003	**EB101612-1**	EPA 8260	MSV/20824		
92135830004	**TB101812-1**	EPA 8260	MSV/20824		
92135830005	**MW-3**	EPA 8260	MSV/20833		
92135830006	**MW-1**	EPA 8260	MSV/20833		
92135830007	**MW-4**	EPA 8260	MSV/20833		
92135830008	**MW-100**	EPA 8260	MSV/20825		
92135830009	**EB101812-1**	EPA 8260	MSV/20825		
92135830001	**TB101612-1**	EPA 8260	MSV/20888		
92135830002	**SB-7-31-33**	EPA 8260	MSV/20888		
92135830002	**SB-7-31-33**	ASTM D2974-87	PMST/5071		

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Appendix D – Standard Operating Procedures

FIELD STANDARD OPERATING PROCEDURE #1

NOTE TAKING AND FIELD BOOK ENTRIES PROCEDURE

The field book is a record of the day's activities that serves as a reference for future reporting and analyses. The field book is also a legal record for projects and may be included during litigation proceedings. It is of the utmost importance that all notes are complete and comprehensive. The user is advised to read the entire standard operating procedure (SOP) and review the site health and safety plan (HASP) before beginning any onsite activities.

1.1 ACRONYMS AND ABBREVIATIONS

HASP	health and safety plan
IDW	investigation-derived waste
SOP	standard operating procedure

1.2 MATERIALS

- Permanently-bound waterproof field book (e.g., Rite-in-the-Rain® #550, or equivalent)
- Black or blue ballpoint pen (waterproof ink recommended; do not use felt-tip pens)

1.3 PRECONDITIONS AND BACKGROUND

This SOP has been prepared as part of the company's Environmental Quality Management Plan and is designed to provide detailed procedures for common field practices. Compliance with the methods presented in this document is mandatory for all field personnel and will ensure that the tasks are performed in a safe and consistent manner, are in accordance with federal and state guidance, and are technically defensible.

This SOP is written for the sole use of company employees and will be revised periodically to reflect updates to company policies, work practices, and the applicable state and/or federal guidance. Employees must verify that this document is the most recent version of the company SOPs. Employees are also strongly advised to review relevant state and/or federal guidance, which may stipulate program-specific procedures, in advance of task implementation.

The purpose of the field book is to provide a written log of all of field events and conditions. The notes must include sufficient detail (i.e., who, what, when, where, why, and how) to enable others to reconstruct the day's activities for analysis, reporting, or litigation. It is important to be objective, factual, and thorough. Language must be free of personal comments or terminology that might prove inappropriate. Additional data logs or worksheets, such as low flow groundwater sampling sheets, may be used as a supplement; however, under no circumstances should the data sheets be used as a substitute for the daily record of events to be recorded in the field book.

The field book forms the foundation upon which most of the project work (reports, subsequent work plans, etc.) is based. It is critical that the field book's chain of custody be maintained at all times.

1.4 SET-UP PROCEDURES

The first step in setting up a new field book is to add the information necessary for you to identify the field book in the future and for others to return the book to the project manager, should it be lost. On the first page of the field book (or, for some field books, the inside cover), place a "Return for Reward" notice. Include the following information:

- An "If Found – Return for Reward" notice in bold letters
- Our company name

- Our company address (usually the office where the project is being managed)
- Our company phone number

Reserve the second page of the field book for project-specific information, such as:

- The project name and number
- The project manager's name
- The site telephone number, address, and onsite contact (if appropriate)
- The names and telephone numbers for all key (onsite) personnel
- The emergency telephone numbers including the police, fire, and ambulance (found in the HASP)

Business cards from individuals who visit the site, (including the person in charge of the field book) can be affixed to the inside back cover.

1.5 FIELD BOOK ENTRIES

Start each day on a new page. Include the following information in the header of the first page (and all subsequent pages):

- The date
- The project name
- The page number (often pre-printed in Rite-in-the-Rain® style field books)

Precede field book entries by the time entered along the left margin of the page using a 24-hour or military clock (e.g., 1330 for 1:30 PM). The first entry of the day must include your and your subcontractor's arrival time at the site, a description of the planned activities, key onsite personnel (including subcontractors), and the weather forecast. The first entry must also detail the tailgate review of the site-specific HASP with the onsite personnel. Be sure that field book entries are LEGIBLE and contain factual, accurate, and inclusive documentation of project field activities. Do not leave blank lines between field book entries. If a mistake is made in an entry, cross out the mistake with a single line and place your initials at the end of the line. Any acronyms written in the field book (including your initials) must be spelled out prior to the first use. If the field book is not pre-numbered, record your initials, date, and page number at the bottom of each page.

Subsequent log entries must document the day's activities in sequence and must be completed throughout the day as events occur (i.e., do not wait until the end of the work day to complete the notes); should notes need to be entered out of sequence, please identify using a footnote or by clearly indicating "Late Entry." Notes must be descriptive and provide location information or diagrams (if appropriate) of the work area or sample locations. Note any changes in the weather and document all deviations from the work plan. Arrival and departure times of all personnel, and operational periods of standby, decontamination, and specific activities must be recorded.

Include the following information in entries describing field activities:

- The equipment, materials and methods used by subcontractors, if appropriate (e.g., drill rig type, boring diameters, well casing materials, etc.)
- The equipment, materials and methods used to obtain samples (e.g., split-spoon sampler, polyethylene bailer, pump types, geochemical, water or air monitoring equipment, low-flow purging procedures, etc.)
- The sample identification, which should include the location and depth, as appropriate
- The sample location, including a description of the approximate location as measured from a known point (e.g., 50 feet north of the building entrance; for points not yet surveyed)

- Any air or water monitoring equipment used, associated calibration activities, and measurements
- The sample collection time
- The sample identification of associated quality assurance/quality control samples (e.g., blind duplicate)
- The sample media and analyses to be performed; sizes, numbers, and types of containers; preservation (if any), and any resulting reactions (e.g., effervescence)
- If supplemental data recording logs (digital or hard copy) are used, such as groundwater sampling logs, chains-of-custody, and shipping records, the above information must be entered in the field book and the supplemental records cross-referenced
- The decontamination and disposal procedures for all equipment, samples, and personal protective equipment
- An inventory of the investigation-derived waste (IDW) materials generated during the site activities
- A description of the IDW labeling procedures and the onsite staging information; other sampling-specific information to be included in the IDW log is provided in SOP 5

Maintain a sequential log if the sample locations and areas of interest are photographed (strongly recommended). The photographic log must include:

- The date and time of the photograph
- The sequential number of the photograph (e.g., photograph-1, photograph-2, etc.)
- The general direction faced when the photograph was made
- A description of the subject in the image

1.6 CLOSING NOTES

The last entry of the day must include a brief wrap up of the work accomplished, a description of how the site is being secured, and a description of any near hits, accidents, and incidents that occurred during the day's work. Draw a line through the remainder of the page from the row of text diagonally through any blank lines and initial at the end of the diagonal line.

FIELD STANDARD OPERATING PROCEDURE #2
UTILITY LOCATING PROCEDURE

The purpose of this procedure is to ensure that all required and appropriate procedures are followed to locate and mark subsurface utilities (e.g., electrical lines, natural gas lines, communication lines) before initiating any intrusive field activities (e.g., drilling, test pits, trenching, excavation). The company's preference, as indicated in our standard and remediation subcontractor agreement templates, is for our Contractors to be responsible for both public and private utility mark-outs; this includes contacting the public authority and obtaining a subcontractor for private utility locating services, if needed. Guidance for Contractor's to follow to conduct utility clearance is provided in our Request for Proposal (RFP) template and must be included in all RFP's for intrusive field activities. **In certain extraordinary circumstances, the company may choose to be responsible for clearing utilities, this will require a change in the template language of our subcontractor agreement and the revised agreement requires the approval and signature of a member of the Environmental Leadership Team (ELT).**

For projects where the company will be responsible for clearing utilities, compliance with this procedure is mandatory. **ALL** deviations from this standard operating procedure (SOP) **MUST** be approved by the project manager and a member of the ELT **BEFORE** beginning intrusive work.

Field personnel have the authority and responsibility to postpone intrusive activities if a Contractor has not completed utility clearances to the company's satisfaction; if sufficient information, as stipulated in this SOP, is not available; or if onsite reconnaissance identifies inconsistencies in the findings of utility locators. In these instances, field personnel must notify the project manager or the health and safety officer, or their designee, before proceeding with the proposed work; approval from a member of the ELT is required before the work commences.

The user is advised to read the entire SOP and review the site health and safety plan (HASP) before beginning any onsite activities.

2.1 ACRONYMS AND ABBREVIATIONS

HASP	health and safety plan
ELT	Environmental Leadership Team
RFP	Request for Proposal
SOP	standard operating procedure

2.2 MATERIALS

- Utility Locating Form (Attachment 1)
- Field book
- Wood stakes
- Spray paint
- Flagging tape
- As-built drawings for sub grade utilities (if available)
- Hand auger or post-hole digger

2.3 PRECONDITIONS AND BACKGROUND

This SOP has been prepared as part of the company's Environmental Quality Management Plan and is designed to provide detailed procedures for common field practices. Compliance with the methods presented in this

document is mandatory for all field personnel and will ensure that the tasks are performed in a safe and consistent manner, are in accordance with federal and state guidance, and are technically defensible.

This SOP is written for the sole use of company employees and will be revised periodically to reflect updates to company policies, work practices, and the applicable state and/or federal guidance. Employees must verify that this document is the most recent version of the company SOPs. Employees are also strongly advised to review relevant state and/or federal guidance, which may stipulate program-specific procedures, in advance of task implementation.

This procedure is intended to allow the work to proceed safely and minimize the potential for damaging underground and aboveground utilities. Intrusive work includes all activities that require WSP's employees or its subcontractors to penetrate the ground surface. Examples of intrusive work include, but are not limited to, hand augering, probing, drilling, injections, test pit excavations, trenching, and remedial excavations.

This SOP assumes the user is familiar with basic field procedures, such as recording field notes (SOP 1).

2.4 PRE-FIELD MOBILIZATION PROCEDURES

Regardless of who is responsible for completing these activities (company or a Contractor), public rights-of-way and private property must be cleared of potential buried utilities before any intrusive work can begin. The first step in this process is notifying the state public utility locating service of the planned work. These services provide a link between the entities performing the work and the various utility operators (e.g., the water company, the electric company, etc.). All of the public utility locating service call centers in the United States have been streamlined under a single "Call Before You Dig" phone number: 811.

Please note, some state laws have changed such that the person who will actually be conducting the intrusive work must be the person who places the call to the public utility locating service. This means that the company cannot make this call on the Contractor's behalf; the Contractor must place the call in those states where required. The Common Ground Alliance has established a web site that includes state-specific information to assist in making this determination (http://www.call811.com/state-specific.aspx) for sites in the US and some parts of Canada. If there is any doubt about the requirements for the state where a project is located, the relevant state authority must be contacted.

When the call center is contacted, information regarding the site (e.g., location, nearest cross street, township, etc.) and work activity (e.g., drilling, excavation) will need to be provided to the operator to aid in locating the likely utilities at the work site. The information provided on the Utility Locating Form (Attachment 1) must be recorded (by the Contractor or the company) and a completed copy of this form must be maintained as part of the project file. Be aware that several states, including California, require that the proposed drilling locations be marked with white spray paint before contacting the locating services.

The following information must accompany the field team at all times during the field project:

- The utility clearance ticket number
- The ticket's legal dig date
- The ticket's expiration date
- Utility providers that were contacted

The ticket number serves as a point of reference for both the utility service providers and for the company or Contractor personnel should follow up (e.g., renewing the ticket) with the locating service be required. The legal dig and expiration dates reflect the times when it will be legal to perform the proposed work. The legal dig date reflects the lead time necessary, typically between 48 and 72 hours after you call, for the utility service providers to mark the utilities in you work area. Be sure to include this delay when planning your work. Most utility clearance tickets expire about 2 weeks after the legal dig date. If your work is delayed beyond the expiration date, 811 will

need to be called again and the ticket renewed. The renewed ticket will have a new legal dig date that incorporates the same lead-time as the original ticket.

The locating service will also provide the caller with a list of utility companies that will be notified. Compare this list with utilities generally expected at all sites (e.g., sewer, water, gas, communication, and electric). Some utilities (e.g., sewer, water, cable TV) may not be included. If any expected utilities are absent from the contact list, you **MUST** contact the utilities directly for clearance before the start of intrusive activities. Record all contacts on the Utility Locating Form.

2.4.1 PRIVATE UTILITY LOCATORS AND OTHER SOURCES

Public utility service providers will generally mark their underground lines within the public right-of-way up to the private property boundary. You can request that the utility companies locate their utilities in work areas on private property; however, be aware that most service providers will not mark their utilities on private property. If your work is to be conducted on private property, you **MUST** use a private utility locating service. These companies typically use a variety of methods (e.g., electromagnetic detectors, ground-penetrating radar, acoustic plastic pipe locator, trace wire, etc.) to locate buried utilities in both inside and outside locations (witching is not an acceptable method).

For all operating facilities and the extent possible for closed facilities, identify a site contact familiar with the utilities on the property (e.g., plant manager, facility engineer, maintenance supervisor), and provide this individual with a site plan showing the proposed locations of all soil borings, monitoring wells, test pits, and other areas where intrusive activities will be conducted. These individuals often have knowledge of buried structures or process-specific utilities that may not be identified by the private utility locator. This is particularly important for work performed inside industrial buildings where reinforced concrete and other metallic components of the structure may interfere with the scanning devices used by the private utility locator. You should ask the site contact for all drawings concerning underground utilities in the proposed work areas for future reference.

Keep in mind that no intrusive work may be done before the legal dig date provided by the state utility locating service and no digging, drilling, or other ground-breaking activities may be begin until all utilities on the list have been marked and visually verified in the work area (see below). It is **NOT ACCEPTABLE** to rely solely on as-built drawings or verbal utility clearances from the site contact (these should be used as guides only). A private locator may not be necessary in rare instances; however, nonconformity with the private locate requirement must be approved by the project manager **AND** a member of the ELT before work proceeds.

2.5 SITE MOBILIZATION PROCEDURES

Upon arrival, the first step in determining if you are clear of buried and overhead utilities is to locate all of the proposed drilling and trenching locations and mark them with spray paint, stakes, or other appropriate markers. This will help you judge distances from marked utilities and minimizes any potential misunderstandings regarding the locations between you, the subcontractors (drillers, excavators, private utility locator), and the site contact.

Once you have the proposed work areas marked, verify that ALL utility companies listed by the state public utility locating service, and any contacted directly by the company or the Contractor, have either marked the underground lines in the specified work areas or have responded (via telephone, facsimile, or e-mail) with “no conflict.” Document on the Utility Locating Form (Attachment 1) and in the field book as each utility mark is visually confirmed. When receiving verbal clearances by telephone from utility companies, or their subcontractors, it is imperative that you verify which utilities are being cleared, particularly when dealing with subcontractors that may be marking more than one utility.

Review all available as-built utility diagrams and plans and conduct a site walk to identify potential areas where underground lines may be present; include the site contact in these activities. It is a good idea to survey your surroundings during the walk to identify any features that may indicate the presence of underground utilities, such as linear depressions in the ground, old road cuts, catch basins, or manholes. Keep in mind that many sewer lines can be offset from catch basins. The presence of aboveground utilities, such as parking lot lights or pad-mounted

transformers, is also a good indicator of buried electrical lines. Check these items against the Utility Locating Form checklist and discuss the locations with the private utility locating service.

2.5.1 SAFE WORKING DISTANCES AND HAND CLEARING

A minimum of 4 feet clearance must exist between utilities and proposed drilling locations, and a minimum of 6 feet between utilities and proposed trenching locations. Be aware that some states and localities (e.g., New York City, Long Island) may require greater minimum working distances, depending on the utility (e.g., for high pressure gas mains). A minimum distance of 15 feet must be maintained by heavy equipment (e.g., excavator buckets, drill rig towers and rods) from overhead power lines and a safe distance of 25 feet must be maintained from high-tension overhead power lines. In the event that work must be conducted within 25 feet of high tension wires, the lines must be wrapped and insulated by the local utilities. Increase these minimum distances whenever possible to offer additional assurance that buried or overhead utilities will not be encountered.

If a utility conflict is identified within the minimum safe clearance distance, adjust the proposed location(s) using the criteria given above. It is a good idea to have the private utility locator sweep a relatively large area (e.g., a 20-foot circle around a proposed drilling location) to provide room for adjustment should the proposed drilling or excavation area need to be moved to avoid a buried utility.

Uncertainty may exist in some circumstances (inside a building, for example) even after the area has been swept for utilities. In these cases, advance the first few feet of a soil boring (or probe the area for excavation) using a hand auger or post-hole digger. If hand digging is unable to penetrate the subsurface soils, soft dig or air knife equipment service providers are often retained to clear the location. This equipment applies high pressure air to penetrate, loosen, and extract subsurface soils in the borehole, thereby safely exposing any utilities. If using either hand digging or soft digging, the probe hole should be advanced a minimum of 5 feet below ground surface at each proposed drilling or excavation location. Complete a sufficient number of probe holes so that the area is cleared for the proposed intrusive activity (i.e., use several holes for a proposed excavation). The use of hand digging or soft digging methods **does not** replace the need for state and private utility locating services.

2.5.2 EXPANDED WORK AREAS AND TICKET RENEWAL

Many projects begin with well-defined work areas only to expand quickly as the investigation or remediation progresses. If the scope of the intrusive activity locations changes, the scope of intrusion expands or includes new onsite or offsite area(s), you will need to review the existing ticket and work performed by the private utility locator to determine whether work can progress into the new area safely. It may be necessary, depending on the scope, to contact (or for the Contractor to contact) the state locating service and request another clearance for the new area(s) of investigation and retain a private locating service. Remember, the new request will provide a new legal dig date before which NO INTRUSIVE WORK CAN BEGIN. Additionally, if a clearance ticket will expire while the work is ongoing (typically after 14 days), a new clearance must be requested before the first ticket expires so that work can continue uninterrupted. Refer to the Utility Locating Form (Attachment 1) for the legal dig date time frame required by the state locating service.

2.5.3 UTILITY DAMAGE

It is possible, even if you followed all of the procedures outlined in this SOP, to damage an underground or overhead utility. Assuming it can be done safely, quickly turn off the drilling or excavating equipment, or move the equipment from the damaged line. Avoid contact with escaping liquids, live wires, and open flames. Abandon the equipment, evacuate the personnel from the area, and maintain a safe perimeter if there are any concerns about safety. If a fiber optic cable is damaged, do not handle the cable or look into the end of the cable as serious eye damage may occur. Once personnel are in a secure location, immediately notify the facility operator or site contact, 811, and the company's project manager. If the damaged utility has the potential to cause, or is causing, dangerous conditions, immediately notify the local emergency response number listed in your HASP.

** This form is mandatory for all intrusive work performed by WSP or a WSP subcontractor, regardless of who is responsible for the public and/or private locate.

Utility Locating Form

Project Name	Project No. and Task	Work being done for (Company or Individual Name)	Project Manager

Office Address	Office Phone	Field Contact	Field Contact Phone

Project Location: Street Address	City/Township	County	State

Nearest Intersecting Street

Description of Work Area (street working on, which side of street, how far in which direction from nearest intersecting street; etc.)

Type of Work	Explosives (Y/N)	Directional Borings (Y/N)	Dig Locations Marked (Y/N)	Mark Type (e.g., stake)

Scheduled Work Start (Date & Time)	Estimated Work Stop Date	One-call Phone Number/Website Address	One-call Service Name

Call/Web Notification Made By (Name, Title and Company)	Date & Time of Call/Web Notification	Operator Name

Ticket No.	Legal Dig Date	Ticket Expiration Date	Ticket Renewal Date

Utilities Notified		Complete After Receiving Notification (e.g., e-mail, facsimile) from Utilities or Subcontractor		
		Utilities Present (Y/N)	Onsite Meeting (Y/N; if "Y" Date & Time)	Contact Name and Phone
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				

Form Completed By (Signature)	
	(e-mail completed page 1 to Project Manager)

** This form is mandatory for all intrusive work, regardless of who is responsible for the public and/or private locate.

Private Utility Locator Information			
Company	**Contact Name**	**Phone**	**E-mail**
Who Contracted Locator?		**Scheduled Start (Date & Time)**	**Contract Executed (Y/N/NA)**

Onsite Visual Confirmation of Utilities Marking Color	Utility Type and Visual Clues	Cleared or Marked (Y/N)	No Markings - Comments
Blue	Potable water: fire hydrant, manholes; water meter, ASTs, interior connections, hose bib, valve box		
Yellow	Gas, oil steam, petroleum: gas meter, manholes; yellow bollards, interior connections, valve box		
Red	Electric power lines, lighting cables, parking lot lights, overhead lines (telephone poles), conduits: interior connections, underground vaults, manholes, transformers/switchgear, conduit on buildings		
Green	Sewer and drain lines: underground vaults, manholes, drain grates, leach field, sand mound, no evidence of sanitary sewer (for septic system)		
Orange	Communication, alarm or signal lines, cables or conduits: red/orange bollards, telephone poles, interior connections; manholes; conduit on buildings		
Purple	Reclaimed water, irrigation, and slurry lines: sprinkler heads, hose bibs		
Pink	Survey markings		
White	Proposed locations for excavation and drilling		

Project Manager Notified of any Conflicts? (Y/N)

Notes:

Marks Verified By (Signature)	
	(scan and save to client file)

FIELD STANDARD OPERATING PROCEDURE #4

SAMPLE COLLECTION AND QUALITY ASSURANCE PROCEDURE

The purpose of this procedure is to assure that sample volumes and preservatives are sufficient for analytical services required under U.S. Environmental Protection Agency (EPA) or other agency approved protocols. This operating procedure describes sample identification procedures, sampling order for select analytes, quality control and quality assurance (QA/QC) sampling procedures, and custody documentation for environmental sampling. The user is advised to read the entire standard operating procedure (SOP) and review the site health and safety plan (HASP) before beginning any onsite activities. In accordance with the HASP, proper personal protective equipment (PPE) must be selected and used appropriately.

4.1 ACRONYMS AND ABBREVIATIONS

ºC	degrees Celsius
COC	chain-of–custody [form]
DI	deionized water
DOT	U.S. Department of Transportation
EDD	electronic data deliverable
EPA	U.S. Environmental Protection Agency
HASP	health and safety plan
ID	Identification [number]
MS/MSD	matrix spike and matrix spike duplicate
MSA	Master Services Agreement
PPE	personal protective equipment
QA	quality assurance
QA/QC	quality assurance/quality control
QAPP	quality assurance project plan
SOP	standard operating procedure
VOCs	volatile organic compounds

4.2 MATERIALS

- Field book
- Indelible (waterproof) markers or pens
- PPE
- Sample containers
- Sample labels
- Clear tape
- Deionized (DI) water
- Cleaned or dedicated sampling equipment

4.3 PRECONDITIONS AND BACKGROUND

This SOP has been prepared as part of the company's Environmental Quality Management Plan and is designed to provide detailed procedures for common field practices. Compliance with the methods presented in this document is mandatory for all field personnel and will ensure that the tasks are performed in a safe and consistent manner, are in accordance with federal and state guidance, and are technically defensible.

This SOP is written for the sole use of company employees and will be revised periodically to reflect updates to company policies, work practices, and the applicable state and/or federal guidance. Employees must verify that

this document is the most recent version of the company SOPs. Employees are also strongly advised to review relevant state and/or federal guidance, which may stipulate program-specific procedures, in advance of task implementation.

This SOP is designed to provide the user with a general outline for collecting environmental and quality assurance samples and assumes the user is familiar with basic field procedures, such as recording field notes (SOP 1), sample shipment procedures (SOP 3), investigation derived waste management procedures (SOP 5), and equipment decontamination (SOP 6). This SOP does not cover investigation planning, nor does it cover the analysis of the analytical results. These topics are more appropriately addressed in a site-specific work plan or a dedicated quality assurance project plan (QAPP).

4.4 SAMPLE IDENTIFICATION PROCEDURES

Information on the sample container labels must include the site/project name, project/task number, unique alpha-numeric sample identification (ID) number, sample collection date, time of collection using the military or 24-hour clock system (i.e., 0000 to 2400 hours), analytical parameters, preservative, and the initials of the sampling personnel. Employees are advised to use pre-printed waterproof mailing labels (e.g., Avery® 5xxx-series Waterproof Address Labels) for all sample identification; templates for the labels are available.

The sample identification (ID) number must, unless otherwise approved by your project manager or specified in your site-specific work plan, comply with the following naming protocol. This protocol was developed to aid in determining the type of sample collected (e.g., soil, groundwater, vapor, etc.), the sample location, and, where appropriate, the sample depth. The protocol was also designed to ensure consistency across the company.

Construct sample IDs in the following format:

SB-10A (4-6)

Where, in this example:

SB = the first two or three characters will define the sample type (see list of approved prefixes below); in this case, a soil boring

10A = the next two or three alpha-numeric digits (separated by a dash from the sample type identifier) indicate the location of the boring on the site; in this case, boring number 10A

(4-6) = the depth the sample was collected, with the first number (including decimals, if necessary) indicating the top of the sample interval (in feet) and the second number indicating the bottom of the sample interval (in feet); not all sample types will include depth information.

Additional label information may be added after the last character of the sample ID number (e.g., sample date, underground storage tank number, area of concern number, “Area” number, client identifier, etc.). Separate any additional information from the required portion of the sample name by dash(es).

Sample Prefix	**Permitted Use**
AA -	Ambient outdoor air sample
CC -	Concrete core/chip sample
CS -	Confirmation/verification soil sample collected from an excavation
HA -	Soil sample collected with a hand auger
IAB -	Indoor air sample – basement
IAC -	Indoor air sample – crawl space
IAF -	Indoor air sample – first floor
MW -	Soil sample collected from a monitoring well borehole or a groundwater sample collected from a monitoring well
PZ -	Groundwater sample collected from a piezometer
SB -	Soil sample collected from boreholes that will not be converted to monitoring wells
SED -	Sediment sample

Sample Prefix	Permitted Use
SG -	Soil gas sample other than a sub-slab sample (e.g., sample collected from a temporary or permanent polyvinyl chloride sample point or stainless steel screen implant)
SL -	Sludge sample
SS -	Surface soil sample collected using hand tools (e.g., trowel, spoon, etc.) and typically at depths less than 2 feet below ground surface
SSV -	Sub-slab vapor sample
SW -	Surface water sample
TC -	Tree core sample
TP -	Soil sample collected from a test pit
WC -	Waste characterization sample
WP -	Wipe sample

4.5 SAMPLE CONTAINERS, PRESERVATIVES, AND HOLDING TIMES

The first step in sample collection is to verify that the analytical laboratory has provided the correct number and type of sample containers and each contains the appropriate preservatives for the proposed project (i.e., check against the sampling plan requirements outlined in the site-specific QAPP or, for those projects without a site-specific QAPP, the laboratory Task Order). Inspect all containers and lids for flaws (cracks, chips, etc.) before use. Do not use any container with visible defects or discoloration. Report any discrepancies, or non-receipt, of specific types of sample containers to the team leader or project manager immediately. Make arrangements with the laboratory to immediately ship missing or additional sampling containers.

Precautions must be taken to prevent cross-contamination and contamination of the environment when collecting samples. Wear a clean pair of new, disposable gloves each time a different sample is collected and don the gloves immediately prior to sampling. The gloves must not come in contact with the medium being sampled and must be changed any time during sample collection when their cleanliness is compromised. Sample collection must follow all appropriate SOPs, state and federal regulations, or guidance, for the collection of environmental samples; the recommended order of sample collection is:

- Geochemical measurements (e.g., temperature, pH, specific conductance)
- Volatile organic compounds (VOCs)
- Extractable organics, petroleum hydrocarbons, aggregate organics, and oil and grease
- Total metals
- Dissolved metals
- Inorganic non-metallic and physical and aggregate properties
- Microbiological samples
- Radionuclides

Collected samples that require thermal preservation must be immediately (within 15 minutes) placed in a cooler with wet ice and maintained at a preservation temperature of 4° Celsius (ºC).

4.6 FIELD QUALITY ASSURANCE/QUALITY CONTROL SAMPLES

Field quality assurance/quality control (QA/QC) samples include equipment blanks, trip blanks, duplicates, and split samples. The project manager or QAPP must specify the type and frequency of QA/QC sample collection. The QA/QC sample identification number must, unless otherwise approved by your project manager or specified in your site-specific work plan, follow the naming protocol as discussed in the sections below. QA/QC samples must be clearly identified on the COC form and in the field book. Failure to properly collect and submit required

QA/QC samples can result in invalidation of an entire sampling event. Collect, preserve, transport and document split samples using the same protocols as the related samples.

4.6.1 EQUIPMENT BLANKS

Equipment blanks are used to document contamination attributable to using non-dedicated equipment (i.e., equipment that must be decontaminated after each use). Collect equipment blanks in the field at a rate of one per type of sampling equipment per day, unless otherwise specified. If the site-specific work plan or QAPP indicates that an equipment blank is to be collected from dedicated sampling equipment, collect the equipment blank in the field before sampling begins. If field decontamination of sampling equipment is required, prepare the equipment blanks after the equipment has been used and field-decontaminated at least once. Prepare equipment blanks by filling or rinsing the pre-cleaned equipment with laboratory-provided analyte-free water and collecting the rinsate in the appropriate sample containers. The samples must be labeled, preserved, and filtered (if required) in the same manner as the environmental samples. Record the type of sampling equipment used to prepare the blank. Have the equipment blanks analyzed for all the analytes for which the environmental samples are being analyzed, unless otherwise specified. Decontamination of the equipment following equipment blank procurement is not required. If laboratory-grade DI water is unavailable, store-grade distilled water can be used to prepare these blanks. If store-grade distilled water is used, be sure to record the source and lot number in the field book. Designate equipment blanks using “EB”, followed by the date, and in the order of equipment blanks collected that day. For example, the first equipment blank collected on July 4, 2015, would be designated EB070415-1.

4.6.2 TRIP BLANKS

Trip blanks are used to document VOC contamination attributable to shipping and field handling procedures. Trip blanks are only required when analyzing samples for VOCs. Trip blank(s) are prepared by the laboratory and sent to the facility along with sample containers. Never open trip blank sample bottles; label them in the field and return them to the laboratory in the same shipping container in which the trip blank sample bottles arrived at the site. Keep the trip blank sample bottles in the same shipping container used to ship and store VOC sample bottles during the sampling event. Unless more stringent project requirements are in place, submit one trip blank in each shipping container of VOC samples. To minimize the number of trip blanks needed per shipment, if possible, ship all of the VOC samples in the same shipping container with the trip blank. If laboratory-provided trip blanks are not available, DI water, or store-grade distilled water and clean, empty VOC sample bottles can be used to prepare additional trip blanks. If store-grade distilled water is used, be sure to record the source and lot number in the field book. Identify trip blanks using “TB”, followed by the date. For example, the trip blank shipped with a cooler of samples on July 4, 2015, would be designated TB070415-1. If a second trip blank is needed on that same day, the designation would be TB070415-2.

4.6.3 TEMPERATURE BLANK

Temperature blanks are used to determine if proper sample thermal preservation has been maintained by measuring the temperature of the sample container upon arrival at the laboratory. A temperature blank should be included in each sample cooler used to ship and store the sample bottles during the sampling event. If laboratory-provided temperature blanks are not available, fill a clean, unpreserved sample bottle with potable, DI, or store-grade distilled water and identify the bottle as a temperature blank.

4.6.4 DUPLICATES

Duplicates are useful for measuring the variability and documenting the precision of the sampling process. Unless more stringent project requirements are in place, collect duplicate samples at a rate of at least 1 per 20 samples collected. Under no circumstances can equipment or trip blanks be used as duplicates. Sample locations where sufficient sample volume is available and where expected contamination is present should be selected for sample duplication.

Collect each duplicate sample at the same time, from the same sample aliquot and in the same order as the corresponding field environmental sample. When collecting aqueous duplicate samples, alternately fill sample bottle sets (i.e., the actual sample bottle and the bottle to be used for the duplicate) with aqueous samples from the same sampling device. If the sampling device does not hold enough volume to fill the sample containers, fill the first container with equal portions of the sample, and pour the remaining sample into the next sample containers. Obtain additional sample volume and pour the first portion into the last sample container, and pour the remaining portions into the first containers. Continue with these steps until all containers have been filled.

Duplicate samples will be assigned arbitrary sample ID and a false collection time so that they are not identified as duplicates by the laboratory (i.e., submit the samples blind to the lab). The blind duplicate sample "location designation" will be left up to the project manager; however, in no case will "Dup" be allowed to appear in the sample name. Have the duplicate samples analyzed for the same analytes as the original sample. Be sure to record the duplicate sample ID, the false time, and the actual time of collection in the field notebook. The duplicate should also be indicated on the company's carbon copy of the chain-of-custody.

4.6.5 MATRIX SPIKE AND MATRIX SPIKE DUPLICATES

Matrix spike and matrix spike duplicate samples, known as MS/MSD samples, are used to determine the bias (accuracy) and precision of a method for a specific sample matrix. Many of the company's projects require the collection of MS/MSD samples; however, laboratory generated MS/MSD samples are sufficient for some projects. As required by your QAPP or site-specific work plan, collect MS/MSD samples at the required ratio; if the sampling ratio is not specified by your QAPP or site-specific work plan, collect MS/MSD samples at a rate of 1 for every 20 samples. Clearly convey the MS/MSD identity to the laboratory by adding "MS" or "MSD" after the sample name (e.g., MW 01MS) or in the comments section of the chain-of-custody. Under no circumstances can equipment or trip blanks be used as MS/MSD samples.

4.6.6 SPLIT SAMPLES

Split samples may be collected as a means of determining compliance or as an added measure of quality control. Unlike duplicate samples that measure the variability of both the sample collection and laboratory procedures, split samples measure only the variability between laboratories. Therefore, the laboratory samples must be subsamples of the same parent sample and every attempt must be made to ensure sample homogeneity. Collect aqueous split samples in the same manner as a duplicate sample.

Collecting split samples of soil, sediment, waste, and sludge is not recommended because the homogenization necessary for a true split sample in these matrices is not possible and the resulting laboratory results would not be comparable.

Spilt samples should have the same sample location designation (e.g., MW-01, SB-03 (4-6), but are differentiated from each other by inserting the laboratory analyzing or the agency/consultant collecting the sample after the sample location (e.g., MW-01-WSP and MW-01-EPA).

4.7 CUSTODY DOCUMENTATION

Sample custody protocols are used to demonstrate that the samples and sample containers were handled and transferred in such a manner as to prevent tampering. Legal chain of custody (COC) begins when the pre-cleaned sample containers are dispatched to the field from the laboratory and continues through sample analysis and eventual disposal of the sample and sample containers. Maintaining custody requires that samples must be in the actual possession or view of a person who is authorized to handle the samples (e.g., sample collector, laboratory technician), secured by the same person to prevent tampering, or stored in a designated secure area.

It is a good idea to limit, to the extent possible, the number of individuals who physically handle the samples. Samples must be placed in locked storage (e.g., locked vehicle, locked storeroom, etc.) at all times when not in the possession or view of authorized personnel. Do not leave samples in unoccupied motel or hotel rooms or

other areas where access cannot be controlled by the person(s) responsible for custody without first securing samples and shipping or storage containers with tamper-indicating evidence tape or custody seals

The COC form is used to trace sample possession from the time of collection to receipt at the laboratory. Although laboratories commonly supply their own COC form, it is recommended that the company's COC be used to ensure that all necessary data are recorded. Unless more stringent project requirements are in place, submit one COC form per sample shipment. At a minimum, the COC needs to have a unique COC number, accompany all the samples, and include the following information:

- Project number, name, and location
- Sampler's printed name(s) and signature(s)
- Sample identification number
- Date and time (military time) of collection
- Sample matrix
- Total number of containers per sample
- Parameters requested for analysis including number of containers per analyte
- Remarks (e.g., irreducible headspace, field filtered sample, expected concentration range, specific turn-around time requested, etc.)
- Signatures of all persons involved in the chain of possession in chronological order
- Requested turn-around-time
- Name and location of analytical laboratory
- Custody seal numbers
- Shipping courier name and tracking information
- Internal temperature of shipping container upon shipment to laboratory, as needed
- Internal temperature of shipping container upon delivery to laboratory
- Company contact information

Affix tamper-indicating evidence tape or seals to all storage and shipping container closures when transferring or shipping sample container kits or samples to an off-property party. Place the seal so that the closure cannot be opened without breaking the seal. Record the time, calendar date and signatures of responsible personnel affixing and breaking all seals for each sample container and shipping container. Affix new seals every time a seal is broken until continuation of evidentiary custody is no longer required.

FIELD STANDARD OPERATING PROCEDURE #16

SURFACE MATERIAL SAMPLING PROCEDURE

Surface material sampling procedures outlined in this Standard Operating Procedure (SOP) are designed to ensure that surface samples are representative of the surfaces from which they were collected and that they have not been altered or contaminated by the sampling and handling methods. Potential surface sample media include porous surfaces (e.g., concrete or painted surfaces) for chip samples, dust or sweep samples, and concrete core or powder samples, and non-porous surfaces (e.g., metal) for wipe samples. Surface samples may be collected for onsite screening or for offsite laboratory analysis. The user is advised to read the entire SOP and review the site health and safety plan (HASP) before beginning any onsite activities. In accordance with the HASP, proper personal protective equipment (PPE) must be selected and used appropriately.

16.1 ACRONYMS AND ABBREVIATIONS

GFCI	ground fault circuit interrupter
HASP	health and safety plan
IDW	investigation derived waste
PID	photoionization detector
PPE	personal protective equipment
QA/QC	quality assurance/quality control
QAPP	Quality Assurance Project Plan
SOP	standard operating procedure

16.2 MATERIALS

- Field book
- PPE
- Air quality monitoring equipment
- Utility knife
- Aluminum foil or heavy-duty zipper-style plastic bags (quart size)
- Plastic sheeting
- Expanding ruler or tape measure
- Sampling containers and labeling/shipping supplies
- Chip sampling method specific materials:
    - Rubber mallet
    - Steel chisel, or equivalent
    - Dustpan
    - Clean medium-sized, bristle brush
    - Digital scale
    - Aluminum foil or weighing pans
    - Stainless steel spatulas
- Wipe sampling method specific materials:
    - Sterile wrapped gauze pad (e.g., 3 inches by 3 inches)
    - Clean medium-sized, bristle brush

  - Appropriate type and grade solvent
  - Sample area template (10 centimeters [cm] by 10 cm; typical)
  - Marking chalk
  - Tweezers or forceps
- Concrete core or powder method specific materials:
  - Concrete corer and drill, or impact hammer drill, with power supply
  - Ground fault circuit interrupter (GFCI)
  - Sandpaper or grinder with power supply, as necessary
  - Steel chisel or sharp cutting knife
  - Rubber mallet
  - Brush and cloths to clean area
  - Digital scale
  - Aluminum foil and/or aluminum weigh pans
  - Stainless steel spatulas
- Water or water supply, as necessary
- Wet/dry vacuum
  - GFCI
- Decontamination supplies

16.3 PRECONDITIONS AND BACKGROUND

This SOP has been prepared as part of the company's Environmental Quality Management Plan and is designed to provide detailed procedures for common field practices. Compliance with the methods presented in this document is mandatory for all field personnel and will ensure that the tasks are performed in a safe and consistent manner, are in accordance with federal and state guidance, and are technically defensible.

This SOP is written for the sole use of company employees and will be revised periodically to reflect updates to company policies, work practices, and the applicable state and/or federal guidance. Employees must verify that this document is the most recent version of the company SOPs. Employees are also strongly advised to review relevant state and/or federal guidance, which may stipulate program-specific procedures, in advance of task implementation.

This SOP is designed to provide the user with a general outline for conducting surface sampling and assumes the user is familiar with basic field procedures, such as recording field notes (SOP 1), utility location (SOP 2), sample shipment procedures (SOP 3), sample collection and quality assurance procedures (SOP 4), IDW management procedures (SOP 5), equipment decontamination (SOP 6), and use and calibration of all sampling and monitoring equipment (SOPs 7 and 8). This SOP does not cover investigation planning, nor does it cover the analysis of the analytical results. These topics are more appropriately addressed in a project-specific work plan. Additionally, this SOP does not provide site-specific health and safety procedures that are required for each site where samples are collected; refer to the site-specific HASP for these procedures and safe work practices. Before sampling, be sure to review the project-specific work plan or Quality Assurance Project Plan (QAPP) and any applicable state and federal guidelines or sampling procedures.

All sampling and monitoring references must be available for consultation in the field, including:

- Company SOPs

- Applicable state and federal guidelines or sampling procedures
- Manufacturer's manuals
- Project-specific work plan and HASP
- QAPP

16.4 GENERAL SURFACE SAMPLING PROCEDURES

The procedures and equipment that are used to accomplish surface sampling are project-specific and should be discussed by the project team before arriving onsite. All types of surface sampling, regardless of the equipment used, share common handling and management procedures that are designed to ensure the integrity of the samples collected. These procedures include:

- The use of new, disposable or decontaminated sampling equipment
- The use, changing, and disposal of the appropriate PPE
- Selection of a suitable sampling location and staging area

Wear a clean pair of new, disposable gloves each time a different sample is collected and don the gloves immediately prior to collection. This limits the possibility of cross-contamination from accidental contact. The gloves must not come in contact with the medium being sampled and must be changed any time during sample collection when their cleanliness is compromised.

If possible, find a suitable sampling location by selecting an area that is away from any sources of cross-contamination that could compromise the integrity of the samples. This includes positioning the sample collection area away from fuel-powered equipment, such as drill rigs or excavators, and upwind of other site activities (e.g., purging, sampling, decontamination) that could influence the sample.

16.4.1 EQUIPMENT SELECTION

Collect all samples using either new, disposable equipment, or properly decontaminated sampling equipment. The equipment should be constructed of non-reactive, non-leachable materials (e.g., stainless steel, Teflon®, Teflon®-coated steel, polyethylene, polypropylene, etc.) which are compatible with the chemical constituents at the site.

Select the decontamination procedures based on the types of sampling to be performed and decontamination may require multiple steps or differing cleaning methods, depending on the sampling goals (see SOP 6 for decontamination procedures). In no case should disposable, single use materials be used to collect more than one sample.

16.4.2 SAMPLING CONSIDERATIONS

As the following steps are completed, note all observations and measurements in the field book.

- Verify sampling locations and analytes.
- Record the approximate ambient air temperature, precipitation, wind, tidal conditions, and other field conditions the field book. In addition, any site-specific conditions or situations that could potentially alter the surface samples should be recorded.
- The sampling location should be described.
- Survey the ambient air around the sampling location with a photoionization detector (PID), as necessary.
- Clear the sampling area of utilities especially if following the concrete core and powder collection procedures below.

- As necessary, follow the procedures in the HASP to monitor and mitigate fugitive dust.
- Determine sample size based on the detection limit desired and the amount of sample requested by the laboratory.
- Tailor sampling methods to suit each sample location, recognizing that surface situations vary widely. In all instances, the procedures employed must be documented in the field book.
- Mark sampling locations with a stake or flag them for future reference. Record locations with respect to a permanent feature, if available.

If approved by the appropriate regulatory agency and specified in the project-specific work plan, composite samples can be collected to minimize the number of samples to be analyzed when sampling highly contaminated areas. Using the appropriate sampling technique, collect equal aliquots (same sample size) from each location and combine the aliquots of the sample directly in the sample container with no pre-mixing. Notify the laboratory that the sample is an unmixed composite sample, and request that the sample be thoroughly mixed before sample preparation or analysis.

16.5 SURFACE SAMPLE COLLECTION PROCEDURES

16.5.1 CHIP SAMPLE COLLECTION PROCEDURES

Chip sampling is conducted on porous surfaces and is generally accomplished with a hammer and a chisel. Measure the sample area. Using a clean chisel, or equivalent, chip the sample area vertically, then horizontally to achieve an even depth of approximately 1/8 inch across the measured area. Collect the chip fragments using a clean dustpan and bristle brush or spatula and transfer the sample directly into an appropriately prepared sample container. Weigh the sample using a digital scale record the sample weight in the field book.

Collect quality assurance/ quality control (QA/QC) samples in accordance with SOP 4 and the project-specific work plan. Decontaminate all non-disposable equipment before and after each use in accordance with SOP 6 and the project-specific work plan.

16.5.2 SWEEP SAMPLE COLLECTION PROCEDURES

Sweep sampling is used to collect dust or residue from porous or non-porous surfaces. Sweep the sample area using a dedicated brush or spatula and collect the sample with a clean dustpan or aluminum foil. Weigh the sample using a digital scale and place in an appropriately prepared sample container; record the sample weight in the field book.

Collect QA/QC samples in accordance with SOP 4 and the project-specific work plan. Decontaminate all non-disposable equipment before and after each use in accordance with SOP 6 and the project-specific work plan.

16.5.3 CONCRETE CORE AND POWDER SAMPLE COLLECTION PROCEDURES

Concrete core and concrete powder samples are normally collected from concrete surfaces to determine whether or not they are contaminated or to evaluate the effectiveness of decontamination procedures.

Remove any debris from the sample area with a clean brush or cloth prior to drilling. Move the concrete coring drill or impact hammer drill into position and, following the manufacturer's specifications, drill a hole to the depth specified in the project-specific work plan.

For core samples, remove the core from the hole using clean forceps (or similar). Measure the total length and width of the core and record the dimensions in the field book. Wrap the core in aluminum foil and place it in an appropriately prepared sample container.

For powder samples, remove the powder from the hole using a clean spatula and place on aluminum foil or weighing pan and homogenize the concrete powder. Weigh the sample using a digital scale and place in an appropriately prepared sample container; record the sample weight in the field book.

Collect QA/QC samples in accordance with SOP 4 and the project-specific work plan. Decontaminate all non-disposable equipment before and after each use in accordance with SOP 6 and the project-specific work plan.

16.5.4 WIPE SAMPLE COLLECTION PROCEDURES

Wipe samples are normally collected from non-porous, smooth surfaces, such as unpainted metal surfaces to determine whether or not they are contaminated or to evaluate the effectiveness of decontamination procedures. Wipe sampling is accomplished by using a gauze pad (or alternate absorbent material) saturated with a solvent (e.g., hexane) then thoroughly wiping a premeasured sample area. A standard wipe test, as specified in 40 CFR 761.123, uses a 10 centimeter (cm) by 10 cm template to outline the sample area. Typically, the analytical laboratory will provide the prepared saturated gauze pad in a vial with a Teflon-lined cap.

Mark the sample area using the template or ruler and marking chalk. Remove the saturated gauze from the sample vial with forceps and immediately begin applying the gauze, with pressure, to the marked area from left to right and then top to bottom; wipe the area twice. Let the gauze air dry and return to the vial.

Collect QA/QC samples in accordance with SOP 4 and the project-specific work plan. Decontaminate all non-disposable equipment before and after each use in accordance with SOP 6 and the project-specific work plan.

16.5.5 SAMPLE LABELING AND PREPARATION FOR SHIPMENT

Once collected, prepare the groundwater samples for offsite laboratory analysis:

- Cleaning the outside of the sample container
- Affixing a sample tag or label to each sample container and complete all required information (sample number, date, time, sampler's initials, analysis, preservatives, place of collection)
- Placing clear tape over the tag or label (if non-waterproof labels are used)
- Preserving samples immediately after collection by placing them into an insulated cooler filled with bagged wet ice to maintain a temperature of approximately 4°Celcius
- Recording the sample designation, date, time, and the sampler's initials in the field book and on a sample tracking form, if appropriate
- Completing the chain-of-custody forms with appropriate sampling information
- Securing the sample packing and shipping in accordance with proper procedures

Do not ship hazardous waste samples without first consulting a company compliance professional.

16.6 CLOSING NOTES

Once sampling is completed, secure the sampling locations in accordance with the project-specific project work plan. Decontaminate all equipment prior to departure and properly manage all PPE and investigation-derived wastes in conformance with applicable regulations.

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