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TETRA TECH, INC.

3R430
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Albuquerque, NM 87110
(505) 237-8440

August 9, 2010

Mr. Glen von Gonten
State of New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

RE: ConocoPhillips Company, Wilmuth No. 1 - Groundwater Monitor Well Installation and
Groundwater Monitoring Report, San Juan County, New Mexico

Dear Mr. von Gonten:

Enclosed please find one copy of the above-referenced document as compiled by Tetra Tech, Inc., for this San Juan County site.

Please do not hesitate to contact me at (505) 237-8440 if you have any questions or require additional information.

Sincerely,

Kelly E. Blanchard
Project Manager/Geologist

Enclosures (1)

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MONITORING WELL INSTALLATION AND GROUNDWATER MONITORING REPORT

CONOCOPHILLIPS COMPANY WILMUTH NO. 1 PRODUCTION FACILITY SAN JUAN COUNTY, NEW MEXICO

OCD Order # _____

API # 30-045-10370

Prepared for:



Risk Management and Remediation
420 South Keeler Avenue
Bartlesville, OK 74004

Prepared by:



TETRA TECH, INC.

6121 Indian School Rd. NE, Suite 200
Albuquerque, NM 87110
Tetra Tech Project No. 114-690113

August 2010

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MONITORING WELL INSTALLATION AND GROUNDWATER MONITORING REPORT FOR APRIL AND JUNE 2010 WILMUTH NO. 1, SAN JUAN COUNTY, NEW MEXICO

1.0 INTRODUCTION

This report discusses the installation of four groundwater monitor wells by Tetra Tech, Inc. (Tetra Tech) in April 2010 at the ConocoPhillips Company (ConocoPhillips) Wilmuth No. 1 site located outside of Aztec, New Mexico (Site), and also presents the results of the baseline and second quarterly groundwater monitoring events conducted at the Site by Tetra Tech in April and June 2010.

The Site is located on private land leased to ConocoPhillips and is situated in Section 26, Township 31N, Range 11W, of San Juan County, New Mexico (**Figure 1**). A Site detail map is included as **Figure 2**.

1.1 Site Background

The Wilmuth No. 1 natural gas production well was spudded in 1958 by El Paso Natural Gas Company. Meridian Oil, Inc., a subsidiary of Burlington Resources, Inc. (Burlington), took over operation of the well on November 1, 1986. ConocoPhillips acquired Burlington on March 31, 2006.

A release of approximately 22 barrels (bbls) of produced water occurred within the bermed area around the produced water tank on May 17, 2001. Twenty bbls were later recovered. A release of condensate occurred on December 17, 2002 from a corrosion hole in the condensate tank. Burlington excavated a total of 85 cubic yards of impacted soil and disposed of it at JFJ landfarm, located in Aztec, NM.

During December, 2009, ConocoPhillips personnel notified the New Mexico Oil Conservation Division (NMOCD) of groundwater seeping into two separate areas under going excavation due to staining discovered during line tie in procedures. Four groundwater monitoring wells were subsequently installed under the supervision of Tetra Tech in April, 2010. Tetra Tech began quarterly sampling immediately following development of the wells by collecting a baseline round of groundwater samples on April 8, 2010. The most recent sampling event took place on June 9, 2010, and represents the second round of sampling conducted by Tetra Tech at the Site. The historical timeline is also presented in **Table 1**.

1.2 Groundwater Monitor Well Installation

Between April 5 and April 7, 2010, Enviro-Drill Inc. of Albuquerque, New Mexico (EnviroDrill) installed four groundwater monitor wells at the Site under the supervision of Tetra Tech: MW-1, MW-2, MW-3, and MW-4. All wells were drilled using a CME-75 drill rig, hollow stem augers, and split-spoon sampling techniques; 25 feet of .010 polyvinylchloride (PVC) slotted screen was placed in each well. MW-1, MW-2 were installed

on April 6, 2010 to a total depth of 30 feet bgs. The depth to water was recorded at 5.21 and 6.48 feet below top of casing (TOC), respectively, during the first groundwater monitoring event. The screened interval was placed from 4.5 to 29.5 feet bgs in both MW-1 and MW-2. MW-4 was also installed on April 6, 2010 to a total depth of 35 feet bgs with depth to water recorded at 9.68 feet below TOC during groundwater monitoring conducted on April 8, 2010. The Screened interval was placed from 9.5 to 34.5 feet bgs in MW-4. Monitoring Well MW-3 was installed on April 7, 2010 to a total depth of 30 feet bgs with depth to water recorded at 6.37 feet below TOC. The screened interval was placed from 4.5 to 29.5 feet bgs in MW-3. Wells were constructed using 2-inch PVC casing, and were all above-ground completions set in three foot by three foot concrete pads with the exception of MW-1 which was installed flush with the ground surface. Monitor wells were installed with longer screen intervals and set deeper than most wells are typically completed to allow for possible collection of additional groundwater chemistry data, if necessary.

After installation, each monitor well was developed using a 1.5-inch diameter, polyethylene disposable bailer and/or a 1.5-inch diameter submersible poly-vinyl chloride purge pump. Approximately 50 gallons of water were purged from Monitor Wells MW-1, MW-2, and MW-4. Monitor Well MW-3 was purged of approximately 55 gallons. Purge water was contained in properly labeled 55 gallon drums on-Site and later disposed of on April 16, 2010 by Envirotech Inc at the Industrial Ecosystems Inc. (IEI) landfarm. Soil boring logs and well completion forms are included as **Appendix A**. A generalized geologic cross section for the Site is presented in **Figure 3**.

During soil boring activities conducted April 5 through 7, 2010, soil samples were collected from the soil borings for all four site monitoring wells. Soil samples were collected from MW-1 at depths of 7 to 9 feet bgs and from 11 to 13 feet bgs; MW-2 at depths of 1.5 to 3.0 feet bgs and from 9 to 11 feet bgs; MW-3 at depths of 1.5 to 3.0 feet bgs, 3.0 to 4.5 feet bgs and from 9 to 11 feet bgs; and from MW-4 at depths of 0 to 1.5 feet bgs, 1.5 to 3.0 feet bgs and from 9 to 11 feet bgs. Each soil sample was analyzed for major ions by EPA Method 300.0; for total mercury by EPA Method 7471A; dissolved metals by EPA Method 6010B; semivolatile organic compounds (SVOCs) by EPA Method 8270C; volatile organic compounds (VOCs) by EPA Method 8260B; and TPH by EPA Method 8015B. None of the soil analytes were detected in concentrations above OCD recommended action levels. Results of the soil analysis are shown in **Table 2** and **Appendix B**.

2.0 MONITORING SUMMARY, SAMPLING METHODOLOGY AND RESULTS

2.1 Monitoring Summary

A baseline groundwater quality monitoring event at the site was conducted on April 8, 2010. Prior to collection of groundwater samples from Monitor Wells MW-1, MW-2, MW-3 and MW-4, depth to groundwater in each well was determined. Results are displayed in **Table 3**.

The casings for Site monitoring wells were surveyed on April 8, 2010 using an arbitrary reference-elevation of 100 feet above mean sea level (amsl). The data obtained from the Site survey and from the April 2010

sampling event were used to create a groundwater elevation contour map for the Site (**Figure 4**). Using these data, it was determined that the groundwater flow direction at the Site is to the south/southwest at a gradient of 0.0124 feet per foot (ft/ft). A second groundwater elevation contour map was also prepared using data obtained June 9, 2010 during the second quarterly monitoring event at the site and can be seen as **Figure 5**. Groundwater elevation data obtained during June 2010 also indicates a groundwater flow to the south/southwest. Numerical groundwater elevation information from June 2010 is also included in **Table 3**.

2.2 Groundwater Sampling Methodology

During the baseline groundwater monitoring event, Site monitor wells were purged of at least 3 casing volumes of groundwater using a 1.5-inch diameter, polyethylene dedicated bailer. While bailing each well, groundwater parameter data such as temperature, pH, conductivity, total dissolved solids (TDS), oxidation-reduction potential (ORP) and dissolved oxygen (DO) were collected using a YSI 556 multi-parameter sonde and results were recorded on a Tetra Tech Water Sampling Field Form (**Appendix C**). Collected groundwater samples were placed in laboratory prepared bottles, packed on ice, and shipped with chain-of-custody documentation. Analysis of all groundwater samples collected during the April 2010 groundwater monitoring event were performed by Southern Petroleum Laboratory (SPL) of Houston, Texas.

During the April 2010 groundwater monitoring event, each groundwater sample collected was analyzed for major ions by EPA Method 300.0; SVOCs by EPA Method 8270C; VOCs by EPA Method 8260B; general chemistry (alkalinity, hardness, total dissolved solids, and pH by various methods); New Mexico Water Quality Control Commission dissolved metals by EPA Method 6010B; and TPH diesel range organics (DRO) and gasoline range organics (GRO) by EPA Method 8015B. Results of the April 2010 analyses are displayed in **Table 4**.

The second quarterly groundwater monitoring event at the Wilmuth No. 1 site was conducted on June 9, 2010. All site monitoring wells were again purged of 3 casing volumes, groundwater parameters were collected, samples were placed in laboratory prepared bottles, packed on ice and shipped with chain-of-custody documentation to SPL of Houston, Texas. Samples collected during the June 2010 sampling event were analyzed for benzene, toluene, ethylbenzene, total xylenes (BTEX) by EPA Method 8260B; chloride and sulfate by EPA Method 300.0; and dissolved manganese by EPA Method 6010B. This list of constituents was determined based on the analytical results from the groundwater baseline and initial site groundwater concerns. Results of the April 2010 and June 2010 groundwater monitoring events are summarized in **Table 5** and discussed in more detail in the following section.

2.3 Groundwater Sampling Analytical Results

The New Mexico Water Quality Control Commission (NMWQCC) mandates that groundwater quality in New Mexico be protected, and has issued groundwater quality standards in Title 20, Chapter 6, Part 2, Section 3103 of the New Mexico Administrative Code (20.6.2.3103 NMAC). Groundwater quality standards have been set for the protection of human health, domestic water supply, and irrigation use. Exceedences of NMWQCC groundwater quality standards in Site monitor wells are discussed below.

- **Dissolved Manganese**

- The groundwater quality standard for dissolved manganese is 0.2 micrograms per liter (mg/L). Groundwater collected from all site monitoring wells was found to be above standard for dissolved manganese during both April and June, 2010. Results can be seen summarized in Table 5.

- **Total Dissolved Solids**

- The groundwater quality standard for TDS is 1,000 mg/L. Groundwater collected from MW-1, MW-2 and MW-4, was found to contain TDS at concentrations greater than 1,000 mg/L during both the April 2010 baseline and June 2010 quarterly sampling events. Results were 1,780 mg/L, 1,120 mg/L and 1,900, respectively, during April of 2010 and 1,190 mg/L, 1,070 mg/L and 1,380 mg/L, respectively, during June 2010.

- **Sulfate**

- The groundwater quality standard for sulfate is 600 mg/L. Groundwater collected from MW-1 and MW-4 was found to be above standard for Sulfate during the baseline analyses in April of 2010 with results of 879 mg/L and 918 mg/L respectively. Sulfate concentrations were below standard in all site monitoring wells during the June 2010 monitoring event.

No other analyzed constituents, including BTEX, were found above NMWQCC groundwater quality standards in Site monitor wells during the April and June 2010 monitoring events.

The corresponding laboratory analytical reports for the April and June 2010 groundwater sampling events, including quality control summaries, are included in **Appendix D**.

3.0 CONCLUSIONS AND RECOMMENDATIONS

Tetra Tech has installed four groundwater monitoring wells at the Site and has conducted the baseline and second quarterly groundwater monitoring events at the Site. The groundwater monitoring wells will be sampled on a quarterly monitoring schedule, and the next groundwater monitoring event at the Site is scheduled for September 2010. The groundwater flow direction at the Site was determined to be to the south/southwest as of June 2010. Tetra Tech will continue to monitor the groundwater flow direction at the Site and will note any changes should they occur.

As a result of the suite of chemical analyses conducted on all groundwater monitor wells at the Site during April 2010, continued groundwater quality monitoring beyond BTEX analysis is recommended. In order to move toward Site closure, Tetra Tech will continue to monitor for BTEX, chloride, sulfate, TDS and dissolved manganese. Tetra Tech recommends the continuation of quarterly groundwater monitoring until sulfate, TDS, and dissolved manganese concentrations are also below NMWQCC standards, appear stable or reach regional background levels. Please contact Kelly Blanchard at 505-237-8440 or kelly.blanchard@tetrattech.com if you have any questions or require additional information.

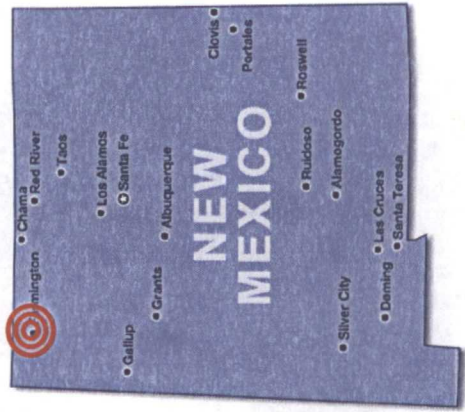
FIGURES



FIGURE 1.

Site Location Map

ConocoPhillips Company
Wilmuth No. 1
Aztec, NM



ConocoPhillips Company
Wilmuth No. 1 Site
Location

Latitude: 36.864630° N
Longitude: -107.963910° W



ConocoPhillips



TETRA TECH, INC.

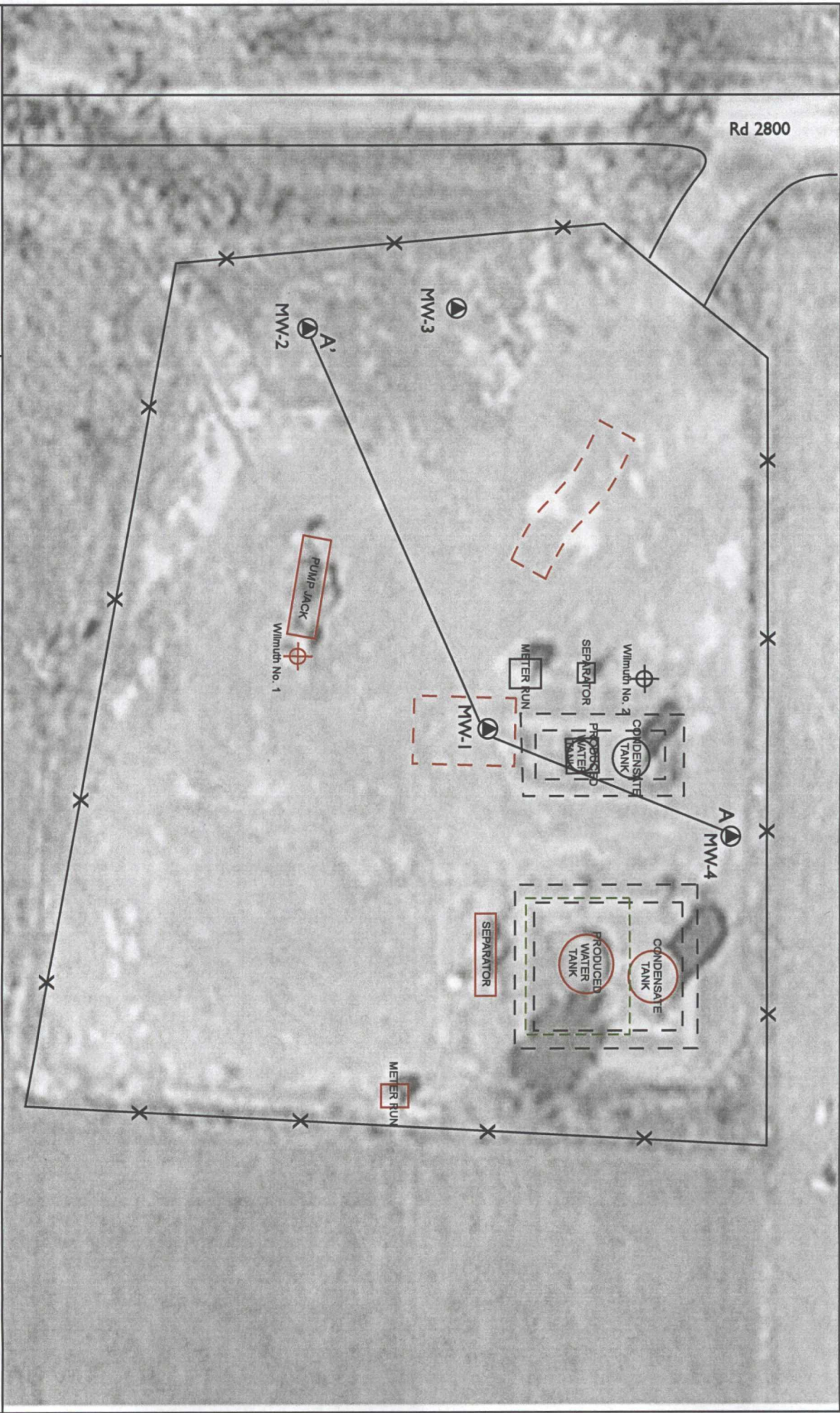


FIGURE 2:

SITE LAYOUT MAP
CONOCOPHILLIPS COMPANY
WILMUTH NO. 1
GAS PRODUCTION WELL
 Sec 26, T31N, R11W
 Aztec, New Mexico

LEGEND

- ⊕ XTO Wilmuth No. 2 Wellhead
- ⊕ ConocoPhillips Wilmuth No. 1 Wellhead
- ⊕ Monitoring Well
- Approximate 2009 Excavation Location
- - - Approximate 2002 Excavation Location
- ConocoPhillips Production Equipment
- XTO Production Equipment
- - - Berm
- X - Site Boundary Fence



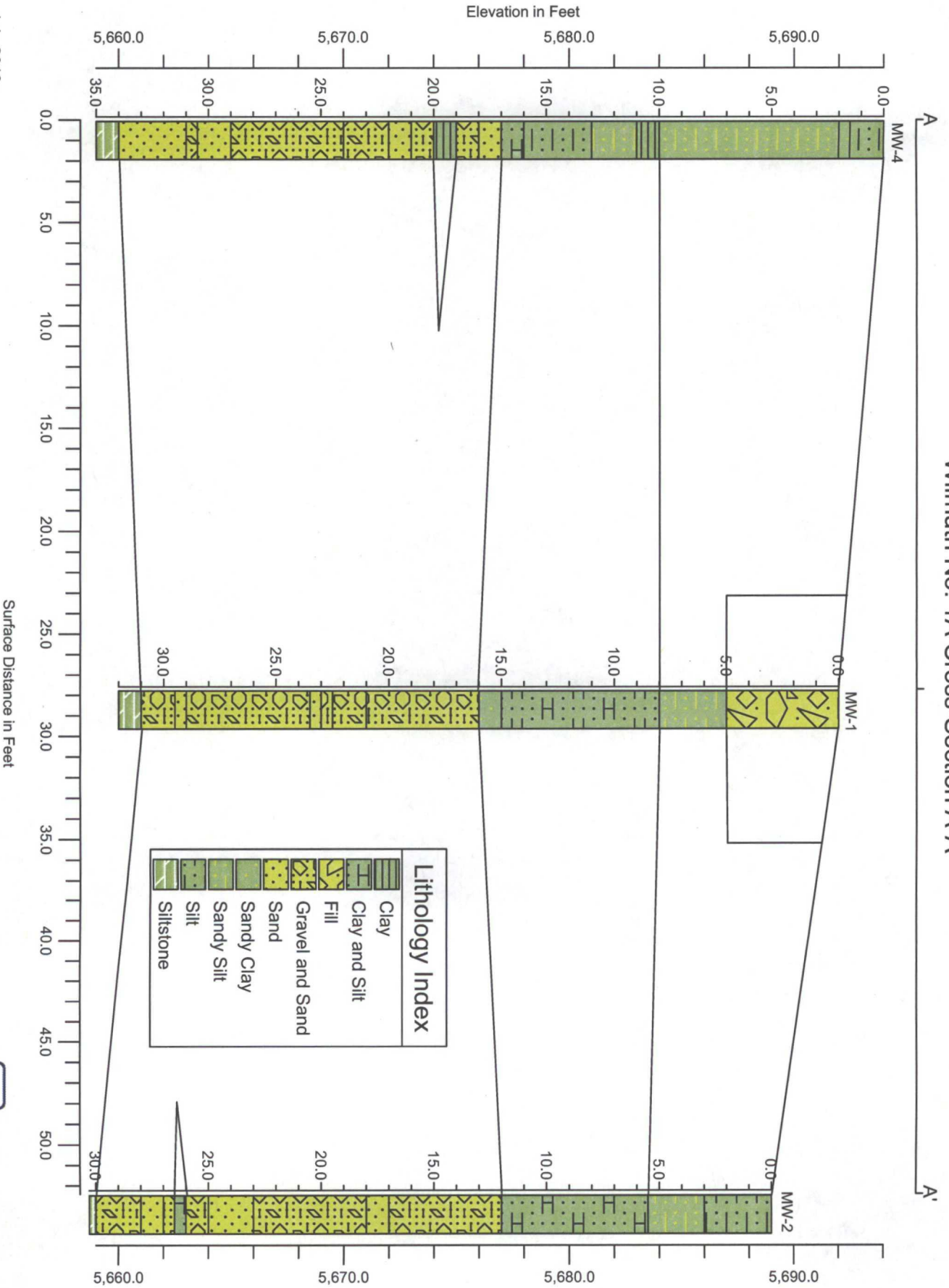
ConocoPhillips



TETRA TECH, INC.

Figure 3

Wilmuth No. 1A Cross-Section A-A'



July 2010

TABLES

Table 1. Site History Timeline

Date/Time Period	Event/Action	Description/Comments
July 24, 1958 to August 11, 1958	Production Well Completion	Well spudded and completed by El Paso Natural Gas Company.
November 1, 1986	Change of Operator	Operator changed from El Paso Natural Gas Company to Meridian Oil Inc. (a subsidiary of Burlington Resources, Inc.)
May 17, 2001	Release	Due to a broken dump arm, 22 barrels (bbbls) of produced water was released within the bermed area around the produced water tank. 20 bbls were said to be recovered.
December 17, 2002	Release	A corrosion hole in the bottom of a steel pit tank that collected fluids from the separator and condensate tank drain allowed an unknown volume of produced water and condensate to leak onto the ground. All fluids were contained inside the tank berm. Impacted gravel and soils were excavated and disposed of at JFJ Landfarm. Excavation dimensions were approximately 30 feet by 25 feet by 3 feet for a total of 85 cubic yards.
May 21, 2004	Workover Pit Proposal Approved	A lined workover pit was approved by Denny Faust of the NMOCD as detailed in Burlington Resources general pit construction plan dated April 26, 2004 which was also approved by the NMOCD.
March 31, 2006	Change of Operator	ConocoPhillips Company completed acquisition of Burlington Resources.
December 22 and 23, 2009	Potential for Groundwater Impacts Discovered	ConocoPhillips company notified Brandon Powell and Kelly Roberts of the OCD about groundwater seeping into two excavated areas on Site where discolored soils had been found during line tie in procedures. The type, volume and origin of the initial release was unknown. Groundwater samples were collected from the two areas and analyzed by Envirotech Inc. of Farmington, NM for benzene, toluene, ethylbenzene and total xylenes (BTEX), total petroleum hydrocarbons (TPH) and chloride. Analytical results indicate that BTEX and TPH are below NMWQCC groundwater standards, however, chloride was present at a concentration above the chloride standard of 250 mg/L with a concentration of 2,500 mg/L in the area of the excavation and a concentration of 950 mg/L in an trench associated with line tie-in procedures. Soil samples were collected from the same trench groundwater samples were collected from where discolored soil was present. The soil was analyzed by Envirotech for BTEX, TPH and Chloride. Analytical results for all soil samples were below NMOCD recommended soil action levels.
January 7, 2010	NMOCD Correspondence	C-141 Release Notification and Corrective Action form was submitted to the NMOCD by ConocoPhillips.
April 5, 2010 through April 7, 2010	Groundwater Monitoring Well Installation and Baseline Soil Sampling	Tetra Tech supervised the installation of 4 groundwater Monitoring Wells: MW-1, MW-2, MW-3 and MW-4, by Enviro-Drill Inc. of Albuquerque, NM. Each well was installed with 25 feet of screen. MW-1, MW-2 and MW-3 were all set at 30 feet below ground surface. MW-4 was set at 35 feet below ground surface. A confining layer of gray siltstone was found at depth in each of the 4 boring locations. Soil samples were collected from all 4 soil borings and analyzed for major ions, total metals, semi-volatile organic compounds (SVOCs), volatile organic compounds (VOCs) including BTEX, diesel range organics, and gasoline range organics. Analytical results for all soil samples were below NMOCD recommended soil action levels.
April 8, 2010	Baseline Groundwater Sampling	Tetra Tech conducted the initial groundwater sampling from site Monitoring Wells, MW-1, MW-2, MW-3 and MW-4. A baseline suite was completed including major ions, NMWQCC dissolved metals, SVOCs, VOCs including BTEX, diesel range organics, and gasoline range organics. All 4 site monitoring wells were below NMWQCC standards for BTEX constituents. All 4 wells were above standard for dissolved manganese. MW-1, MW-2 and MW-4 were above standard for total dissolved solids (TDS). MW-1 and MW-4 were also above standard for sulfate.
June 9, 2010	Quarterly Groundwater Monitoring Event	Quarterly groundwater sampling was conducted by Tetra Tech. Samples were collected from all site monitoring wells and analyzed for BTEX, dissolved manganese, chloride, sulfate, and TDS. All 4 site monitoring wells were below NMWQCC standards for BTEX constituents. Samples collected from all 4 site wells were above standard for dissolved manganese. Samples collected from MW-1, MW-2 and MW-4 were above standard for TDS.

NMOCD = New Mexico Oil Conservation Division
 NMWQCC = New Mexico Water Quality Control Commission
 mg/kg - dry = milligrams per kilogram, analyzed after residual water removed from the soil
 µg/kg - dry = micrograms per kilogram

Table 2. Soil Boring Laboratory Analytical Results

Constituent		Sample ID (soil samples collected on July 15th, 2009 and July 16th, 2009)											
Ions	Method	Units	MW-1 (7 - 9 feet)	MW-1 (11 - 13 feet)	MW-2 (1.5 - 3 feet)	MW-2 (9 - 11 feet)	MW-3 (1.5 - 3 feet)	MW-3 (3 - 4.5 feet)	MW-3 (9 - 11 feet)	MW-4 (0 - 1.5 feet)	MW-4 (1.5 - 3 feet)	MW-4 (9 - 11 feet)	NMOC
Bromide	E300.0	mg/kg - dry	< 6.62	< 6.2	< 6.07	< 6.63	< 6.06	< 6.38	< 6.21	< 5.49	< 6.0	< 6.23	NE
Chloride	E300.0	mg/kg - dry	390	25.5	184	13.4	25.2	15.8	13.7	73.3	117	15.3	NE
Fluoride	E300.0	mg/kg - dry	< 6.62	< 6.2	< 6.07	< 6.63	< 6.06	< 6.38	< 6.21	5.76	6.96	< 6.23	NE
Nitrate (as N)	E300.0	mg/kg - dry	< 6.62	< 6.2	6.94	< 6.63	< 6.06	7.57	< 6.21	6.72	7.32	7.09	NE
Nitrite (as N)	E300.0	mg/kg - dry	< 6.62	< 6.2	< 6.07	< 6.63	< 6.06	< 6.38	< 6.21	< 5.49	< 6.0	< 6.23	NE
Orthophosphate (as P)	E300.0	mg/kg - dry	< 6.62	< 6.2	< 6.07	< 6.63	< 6.06	< 6.38	< 6.21	< 5.49	< 6.0	< 6.23	NE
Sulfate	E300.0	mg/kg - dry	2190	4070	1760	134	204	173	56	159	89.3	5210	NE
Metals, Total		Units	MW-1 (7 - 9 feet)	MW-1 (11 - 13 feet)	MW-2 (1.5 - 3 feet)	MW-2 (9 - 11 feet)	MW-3 (1.5 - 3 feet)	MW-3 (3 - 4.5 feet)	MW-3 (9 - 11 feet)	MW-4 (0 - 1.5 feet)	MW-4 (1.5 - 3 feet)	MW-4 (9 - 11 feet)	NMOC
Mercury	SW7471A	mg/kg - dry	< 0.0397	< 0.0372	< 0.0364	< 0.0382	< 0.0364	< 0.0383	< 0.0372	< 0.0330	< 0.0360	< 0.0374	NE
Aluminum	SW6010B	mg/kg - dry	16600	17700	7970	14200	12500	13600	9720	8530	6100	11500	NE
Arsenic	SW6010B	mg/kg - dry	5.81	5.84	3.54	5.17	7.86	3.83	4.73	5.10	2.90	3.95	NE
Barium	SW6010B	mg/kg - dry	209	138	136	193	181	183	154	172	123	104	NE
Boron	SW6010B	mg/kg - dry	4.99	3.82	4.20	2.91	4.30	5.28	1.66	3.64	2.23	3.46	NE
Cadmium	SW6010B	mg/kg - dry	< 0.662	< 0.620	< 0.607	< 0.636	< 0.606	< 0.638	< 0.621	< 0.549	< 0.623	< 0.623	NE
Chromium	SW6010B	mg/kg - dry	12.4	12.4	7.65	10.2	9.36	10	6.98	6.02	4.98	8.76	NE
Cobalt	SW6010B	mg/kg - dry	7.38	7.25	4.62	6.46	5.69	5.81	4.54	4.72	3.91	4.52	NE
Copper	SW6010B	mg/kg - dry	14.2	14.8	13.4	13.7	11.5	14.3	7.82	37.9	6.47	10.4	NE
Iron	SW6010B	mg/kg - dry	18200	17900	12800	17500	15900	14900	13000	12800	8470	12300	NE
Lead	SW6010B	mg/kg - dry	9.8	10.1	17.8	8.97	7.85	15.3	7.36	153	6.25	6.49	NE
Manganese	SW6010B	mg/kg - dry	393	455	340	370	302	383	202	529	279	231	NE
Molybdenum	SW6010B	mg/kg - dry	< 0.662	< 0.620	< 0.607	< 0.636	< 0.606	< 0.638	< 0.621	1.53	< 0.600	< 0.623	NE
Nickel	SW6010B	mg/kg - dry	9.51	9.43	5.04	8.47	7.74	8.41	6.31	5.71	4.81	6.48	NE
Selenium	SW6010B	mg/kg - dry	< 0.662	< 0.620	< 0.607	< 0.636	< 0.606	< 0.638	< 0.621	< 0.549	< 0.600	< 0.623	NE
Silver	SW6010B	mg/kg - dry	< 0.662	< 0.620	< 0.607	< 0.636	< 0.606	< 0.638	< 0.621	< 0.549	< 0.600	< 0.623	NE
Zinc	SW6010B	mg/kg - dry	45.4	46.3	52.6	47.5	38.7	78.2	28.1	650	26.6	31.7	NE
SVOCs (detections only)		Units	MW-1 (7 - 9 feet)	MW-1 (11 - 13 feet)	MW-2 (1.5 - 3 feet)	MW-2 (9 - 11 feet)	MW-3 (1.5 - 3 feet)	MW-3 (3 - 4.5 feet)	MW-3 (9 - 11 feet)	MW-4 (0 - 1.5 feet)	MW-4 (1.5 - 3 feet)	MW-4 (9 - 11 feet)	NMOC
As listed	8270C	µg/kg - dry	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE
VOCs (detections and BTEX only)		Units	MW-1 (7 - 9 feet)	MW-1 (11 - 13 feet)	MW-2 (1.5 - 3 feet)	MW-2 (9 - 11 feet)	MW-3 (1.5 - 3 feet)	MW-3 (3 - 4.5 feet)	MW-3 (9 - 11 feet)	MW-4 (0 - 1.5 feet)	MW-4 (1.5 - 3 feet)	MW-4 (9 - 11 feet)	NMOC
Methylene Chloride	8260B	µg/kg - dry	< 6.6	7.5	7.5	8	7.9	8.9	7.9	< 5.5	< 6.0	< 6.2	NE
Benzene	8260B	µg/kg - dry	< 6.6	< 6.2	< 6.1	< 6.4	< 6.1	< 6.4	< 6.2	< 5.5	< 6.0	< 6.2	10,000
Toluene	8260B	µg/kg - dry	< 6.6	< 6.2	< 6.1	< 6.4	< 6.1	< 6.4	< 6.2	< 5.5	< 6.0	< 6.2	NE
Ethylbenzene	8260B	µg/kg - dry	< 6.6	< 6.2	< 6.1	< 6.4	< 6.1	< 6.4	< 6.2	< 5.5	< 6.0	< 6.2	NE
Total Xylenes	8260B	µg/kg - dry	< 6.6	< 6.2	< 6.1	< 6.4	< 6.1	< 6.4	< 6.2	< 5.5	< 6.0	< 6.2	NE
Total BTEX	--	µg/kg - dry	< 6.6	< 6.2	< 6.1	< 6.4	< 6.1	< 6.4	< 6.2	< 5.5	< 6.0	< 6.2	50,000
Other		Units	MW-1 (7 - 9 feet)	MW-1 (11 - 13 feet)	MW-2 (1.5 - 3 feet)	MW-2 (9 - 11 feet)	MW-3 (1.5 - 3 feet)	MW-3 (3 - 4.5 feet)	MW-3 (9 - 11 feet)	MW-4 (0 - 1.5 feet)	MW-4 (1.5 - 3 feet)	MW-4 (9 - 11 feet)	NMOC
Specific Conductance	120.1	umhos/cm	5200	5920	3810	706	1070	811	589	2950	2140	6380	NE
Alkalinity	E310.1	mg/kg - dry	185	99.3	170	76.3	230	179	137	527	564	137	NE
pH	9045D	pH units	7.52	7.18	7.79	7.82	7.55	7.64	8.11	9.71	8.74	8.05	NE
Percent Moisture	D2216	%	24.5	19.4	17.6	21.4	17.5	21.6	19.4	8.97	16.6	19.7	NE
Petroleum Hydrocarbons		Units	MW-1 (7 - 9 feet)	MW-1 (11 - 13 feet)	MW-2 (1.5 - 3 feet)	MW-2 (9 - 11 feet)	MW-3 (1.5 - 3 feet)	MW-3 (3 - 4.5 feet)	MW-3 (9 - 11 feet)	MW-4 (0 - 1.5 feet)	MW-4 (1.5 - 3 feet)	MW-4 (9 - 11 feet)	NMOC
TPH Gasoline Range	8015B	mg/kg - dry	< 0.13	< 0.12	< 0.12	< 0.13	< 0.12	< 0.13	< 0.12	< 0.11	< 0.12	< 0.12	100
TPH Diesel Range	8015B	mg/kg - dry	< 6.6	< 6.2	< 6.1	< 6.4	< 6.1	< 6.4	< 6.2	< 5.5	< 6.0	< 6.2	

Notes:

MW = monitor well
NMOC = New Mexico Oil Conservation Division recommended action level
SVOCs = semi-volatile organic compounds
VOCs = volatile organic compounds
mg/kg - dry = milligrams per kilogram, analyzed after residual water removed from the soil
µg/kg - dry = micrograms per kilogram
P = phosphate
N = nitrogen
NE = not established
ND = not detected above laboratory method detection limits

Table 3. Groundwater Elevation Data Summary

Well ID	Total Depth (ft bgs)	Screen Interval (ft)	*Elevation (ft) (TOC)	Date Measured	Depth to Groundwater (ft below TOC)	Relative Groundwater Elevation
MW-1	30.00	4.5 - 29.5	95.8	4/8/2010	5.21	90.59
				6/9/2010	1.94	93.86
MW-2	30.00	4.5 - 29.5	95.8	4/8/2010	6.48	89.32
				6/9/2010	3.68	92.12
MW-3	30.00	4.5 - 29.5	96.32	4/8/2010	6.37	89.95
				6/9/2010	3.39	92.93
MW-4	35.00	9.5 - 34.5	98.7	4/8/2010	9.68	89.02 ⁽¹⁾
				6/9/2010	4.41	94.29

ft = Feet

TOC = Top of casing

bgs = Below ground surface

* = Elevation relative to an arbitrary 100 feet

(1) = Anomalous data point

Table 4. Groundwater Laboratory Analytical Results Summary, April 2010 Baseline Parameters

Constituent		Sample ID (samples collected on June 12, 2009)							
Ions	Method	Units	MW-1	Duplicate	MW-2	MW-3	MW-4	NMWQCC Groundwater Quality Standard	
Bromide	E300.0	mg/L	< 0.500	NA	< 0.500	< 0.500	< 0.500	NE	
Chloride	E300.0	mg/L	143	NA	27.7	19.2	40.0	250	
Fluoride	E300.0	mg/L	0.999	NA	0.729	0.785	0.839	1.6	
Orthophosphate (as P)	E300.0	mg/L	< 0.500	NA	< 0.500	< 0.500	< 0.500	NE	
Sulfate	E300.0	mg/L	879	NA	533	259	918	600	
Nitrate + Nitrate (as N)	E300.0	mg/L	< 0.500	NA	< 0.500	< 0.500	< 0.500	10	
Metals, Total	Method	Units	MW-1	Duplicate	MW-2	MW-3	MW-4	NMWQCC Groundwater Quality Standard	
Mercury	SW7470A	mg/L	< 0.000200	NA	< 0.000200	< 0.000200	< 0.000200	0.002	
Aluminum	SW6010B	mg/L	< 0.100	NA	< 0.100	< 0.100	< 0.100	5	
Arsenic	SW6010B	mg/L	< 0.00500	NA	< 0.00500	< 0.00500	< 0.00500	0.1	
Barium	SW6010B	mg/L	0.0359	NA	0.0262	0.0285	0.0342	1.0	
Boron	SW6010B	mg/L	0.146	NA	0.112	< 0.100	0.141	0.75	
Cadmium	SW6010B	mg/L	< 0.00500	NA	< 0.00500	< 0.00500	< 0.00500	0.01	
Chromium	SW6010B	mg/L	< 0.00500	NA	< 0.00500	< 0.00500	< 0.00500	0.05	
Cobalt	SW6010B	mg/L	0.00550	NA	< 0.00500	< 0.00500	0.00620	0.05	
Copper	SW6010B	mg/L	< 0.00500	NA	< 0.00500	< 0.00500	< 0.00500	1.0	
Iron	SW6010B	mg/L	0.0213	NA	< 0.0200	< 0.0200	< 0.0200	1.0	
Lead	SW6010B	mg/L	< 0.00500	NA	< 0.00500	< 0.00500	< 0.00500	0.05	
Manganese	SW6010B	mg/L	3.03	NA	2.48	1.38	3.94	0.2	
Molybdenum	SW6010B	mg/L	0.0104	NA	0.00630	0.00700	0.0110	1.0	
Nickel	SW6010B	mg/L	< 0.00500	NA	< 0.00500	< 0.00500	< 0.00500	0.2	
Selenium	SW6010B	mg/L	< 0.0100	NA	< 0.0100	< 0.0100	< 0.0100	0.05	
Silver	SW6010B	mg/L	< 0.00500	NA	< 0.00500	< 0.00500	< 0.00500	0.05	
Zinc	SW6010B	mg/L	< 0.0100	NA	< 0.0100	< 0.0100	< 0.0100	10	
SVOCS (detections only)	Method	Units	MW-1	Duplicate	MW-2	MW-3	MW-4	NMWQCC Groundwater Quality Standard	
As listed	8270C	µg/L	ND	NA	ND	ND	ND	NE	
VOCs (detections and BTEX only)	Method	Units	MW-1	Duplicate	MW-2	MW-3	MW-4	NMWQCC Groundwater Quality Standard	
4-Isopropyltoluene	8260B	µg/L	8.2	NA	1.7	2.4	21	NE	
Benzene	8260B	µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	10	
Toluene	8260B	µg/L	< 1.0	1.1	< 1.0	< 1.0	< 1.0	750	
Ethylbenzene	8260B	µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	750	
Total Xylenes	8260B	µg/L	< 1.0	1.0	< 1.0	< 1.0	< 1.0	620	
Total Petroleum Hydrocarbons	Method	Units	MW-1	Duplicate	MW-2	MW-3	MW-4	NMWQCC Groundwater Quality Standard	
Gasoline Range Organics	SW8015B	mg/L	< 0.10	NA	< 0.10	< 0.10	< 0.10	NE	
Diesel Range Organics	SW8015B	mg/L	0.20	NA	< 0.10	< 0.10	0.28	NE	
Other	Method	Units	MW-1	Duplicate	MW-2	MW-3	MW-4	NMWQCC Groundwater Quality Standard	
Alkalinity (as Calcium Carbonate)	SM2320B	mg/L	355	NA	278	294	286	NE	
Hardness (as Calcium Carbonate)	SM2340C	mg/L	880	NA	1080	1200	1,360	NE	
Specific Conductance @ 25C	E120.1	umhos/cm	2350	NA	1580	1090	2110	NE	
Total Dissolved Solids	SM2540C	mg/L	1780	NA	1120	930	1900	1000	
pH	SM4500H	pH units	6.97	NA	7.18	7.18	7.15	6 - 9	

Notes:

MW = monitoring well
NMWQCC = New Mexico Water Quality Control Commission
Constituents in **BOLD** are in excess of NMWQCC groundwater quality standards
SVOCs = semi-volatile organic compounds
VOCs = volatile organic compounds
µg/L = micrograms per liter
P = phosphate
N = nitrogen
NE = not established
ND = not detected above laboratory method detection limits
NA = not analyzed

Table 5. Groundwater Laboratory Analytical Results Summary, BTEX and Additional Constituents of Concern

Well ID	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (mg/L)	Chloride (mg/L)	Sulfate (mg/L)	Total Dissolved Solids (mg/L)	Dissolved Manganese (mg/L)
MW-1	4/8/2010	< 1.0	< 1.0	< 1.0	< 1.0	143	879	1780	3.03
	6/9/2010	< 1.0	< 1.0	< 1.0	< 1.0	26.9	375	1190	1.08
Duplicate	4/8/2010	< 1.0	1.1	< 1.0	1	NA	NA	NA	NA
	6/9/2010	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	NA
MW-2	4/8/2010	< 1.0	< 1.0	< 1.0	< 1.0	27.7	533	1120	2.48
	6/9/2010	< 1.0	< 1.0	< 1.0	< 1.0	19.8	337	1070	1.66
MW-3	4/8/2010	< 1.0	< 1.0	< 1.0	< 1.0	19.2	259	930	1.38
	6/9/2010	< 1.0	< 1.0	< 1.0	< 1.0	18.5	241	769	1.43
MW-4	4/8/2010	< 1.0	< 1.0	< 1.0	< 1.0	40	918	1900	3.94
	6/9/2010	< 1.0	< 1.0	< 1.0	< 1.0	29.6	542	1380	3.44
NMWQCC Groundwater Quality Standards		10	750	750	620	250	600	1000	0.2

Notes:
MW = monitoring well
NMWQCC = New Mexico Water Quality Control Commission
Constituents in **BOLD** are in excess of NMWQCC groundwater quality standards
µg/L = micrograms per liter (parts per billion)
mg/L = milligrams per liter (parts per million)
< 1.0 = Below laboratory detection limit of 1.0 µg/L

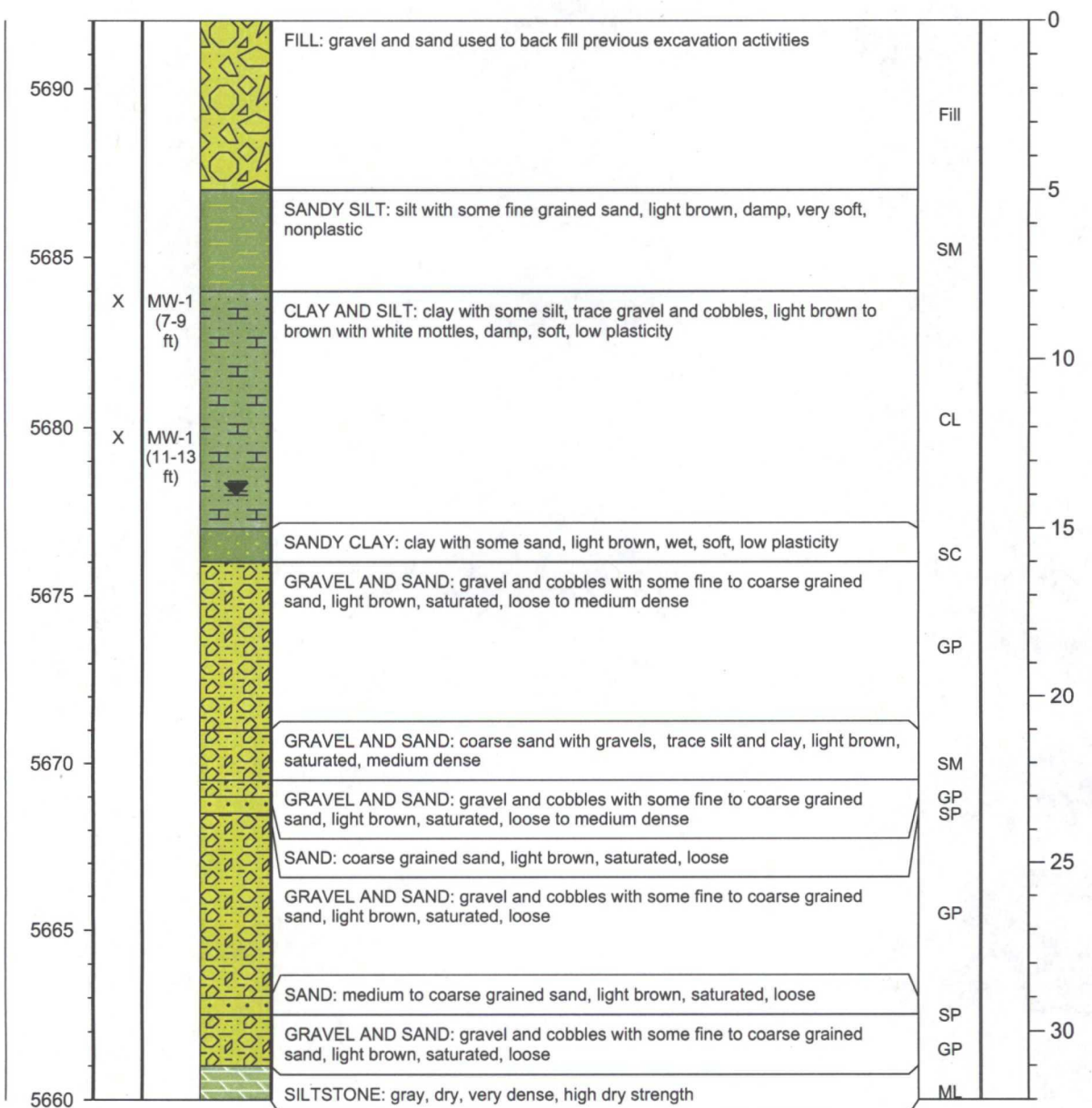
APPENDICES

APPENDIX A

Soil Boring Logs and Well Completion Forms

PROJECT NAME: <u>Wilmuth No. 1</u> LOCATION: <u>Aztec, NM</u> FIELD LOGGED BY: <u>B. Lautes</u> ELEVATION: GROUND SURFACE (msl): <u>5692</u> GROUNDWATER ELEVATION (msl): <u>~ 5678</u> REMARKS: _____ _____ _____	SOIL BORING NO. <u>MW-1</u> DRILL TYPE: <u>CME 75</u> <u>Hollow Stem Auger</u> BORE HOLE DIAMETER: <u>8 inches</u> DRILLED BY: <u>Enviro-Drill Inc.</u> DATE/TIME: HOLE STARTED: <u>4/5/2010 at 12:40</u> DATE/TIME: COMPLETED: <u>4/6/2010 at 10:05</u>
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ELEVATION (msl) - ft	SAMPLE TO LAB	SAMPLE ID	CLASSIFICATION AND DESCRIPTION	USCS SYMBOL	PID RESULT (ppm)	DEPTH (bgs) - ft
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TETRA TECH, INC.

Well Completion Diagram

Well ID MW-1

Job Name Wilmuth No. 1

Job No. 114-690153 Date 4/6/2010

Project Manager Kelly Blanchard

Well I.D. MW-1

Field Geologist C. Mathews and B. Lauctes

Driller Enviro-Drill

Equipment CME 75

Materials

950	Pounds	Silica Sand	Filter Pack
50	Pounds	Baroid® 3/8" bentonite chip hole plug	Bentonite Seal
	Gallons		Grout
480	Pounds	Quikcrete®	Concrete
	Feet of native fill/ slough		
7.5	Feet of	2 inch pvc	Blank Casing
25	Feet of	2 inch .010 pvc	Slotted Screen
	Feet of		Outer Casing
0.5	Feet of	2 inch PVC end cap	Sump/ Silt Trap

Placement Method PourNotes Casing and screen joint type - flush thread

Development

Method hand bailingDate 4/7/2010Amount Purged 50 gallonsNotes H2O contains fines even after bailing 50 gal.

Flush mount, 8"x12" vault

steel casing:

Other:

2" locking cap

Casing:

+3 ft. to -4.5 ft.8 inch diameter

Borehole:

0 ft. to -30 ft.

Outer Casing:

 ft. to ft.

Concrete: approx. 3 sq. ft well pads

+0.5 ft. to -1 ft.

Grout:

 ft. to ft.

Bentonite Seal:

-1 ft. to -3 ft.

Filter Pack:

-3 ft. to -30 ft.

Slotted Screen:

-4.5 ft. to -29.5 ft.

Native fill/ slough:

 ft. to ft.

8 inch diameter

Borehole:

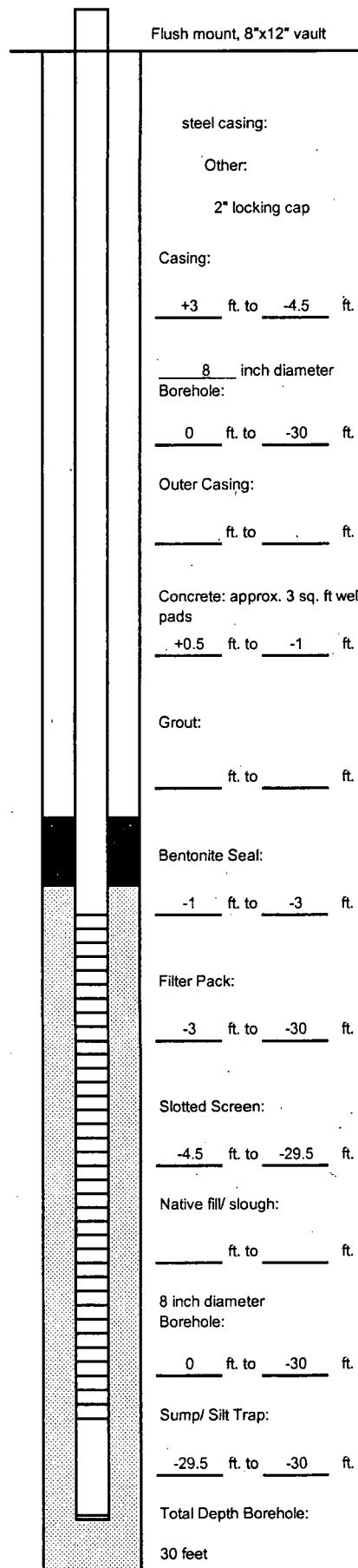
0 ft. to -30 ft.

Sump/ Silt Trap:

-29.5 ft. to -30 ft.

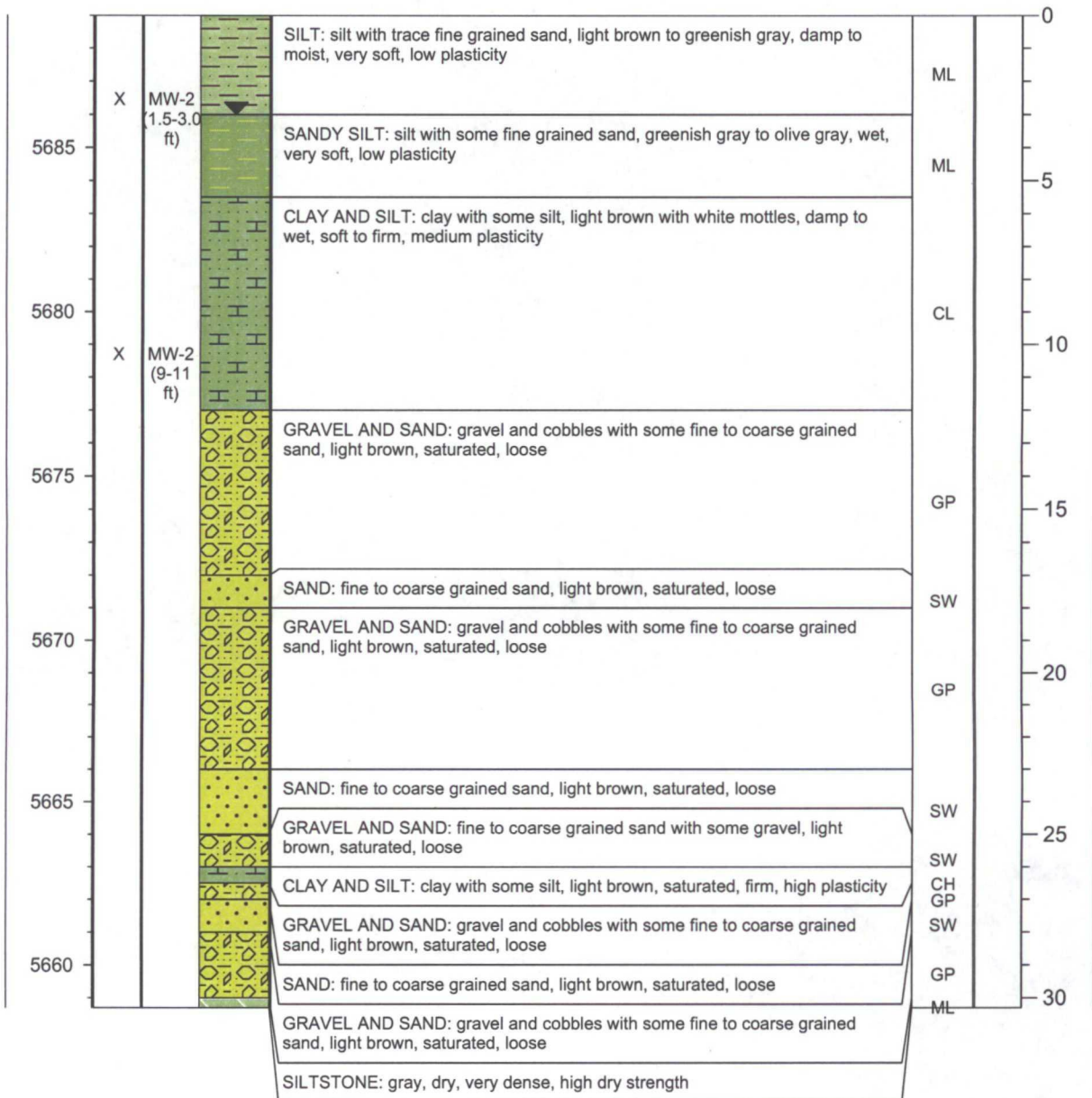
Total Depth Borehole:

30 feet



PROJECT NAME: <u>Wilmuth No. 1</u> LOCATION: <u>Aztec, NM</u> FIELD LOGGED BY: <u>B. Lautes</u> ELEVATION: GROUND SURFACE (msl): <u>5689 feet</u> GROUNDWATER ELEVATION (msl): <u>~ 5685 feet</u> REMARKS: _____ _____ _____	SOIL BORING NO. <u>MW-2</u> DRILL TYPE: <u>CME 75</u> <u>Hollow Stem Auger</u> BORE HOLE DIAMETER: <u>8 inches</u> DRILLED BY: <u>Enviro-Drill Inc.</u> DATE/TIME: HOLE STARTED: <u>4/5/2010 at 13:30</u> DATE/TIME: COMPLETED: <u>4/6/2010 at 17:00</u>
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ELEVATION (msl) - ft	SAMPLE TO LAB	SAMPLE ID	CLASSIFICATION AND DESCRIPTION	USCS SYMBOL	PID RESULT (ppm)	DEPTH (bgs) - ft
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TETRA TECH, INC.

Well Completion Diagram

Well ID MW-2

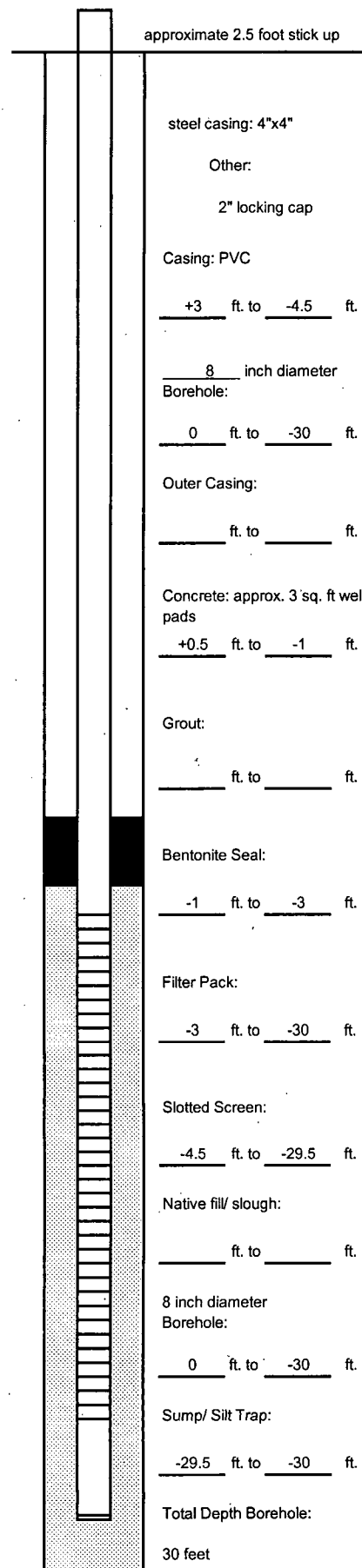
Job Name	Wilmuth No. 1		
Job No.	114-690153	Date	4/6/2010
Project Manager	Kelly Blanchard		
Well I.D.	MW-2		
Field Geologist	C. Mathews and B. Lautes		
Driller	Enviro-Drill		
Equipment	CME 75		

Materials

350	Pounds	Silica Sand	Filter Pack
50	Pounds	Baroid® 3/8" bentonite chip hole plug	Bentonite Seal
	Gallons		Grout
360	Pounds	Quikcrete®	Concrete
	Feet of native fill/ slough		
7.5	Feet of	2 inch pvc	Blank Casing
25	Feet of	2 inch .010 pvc	Slotted Screen
	Feet of		Outer Casing
0.5	Feet of	2 inch PVC end cap	Sump/ Silt Trap
Placement Method		Pour	
Notes		Casing and screen joint type - flush thread	

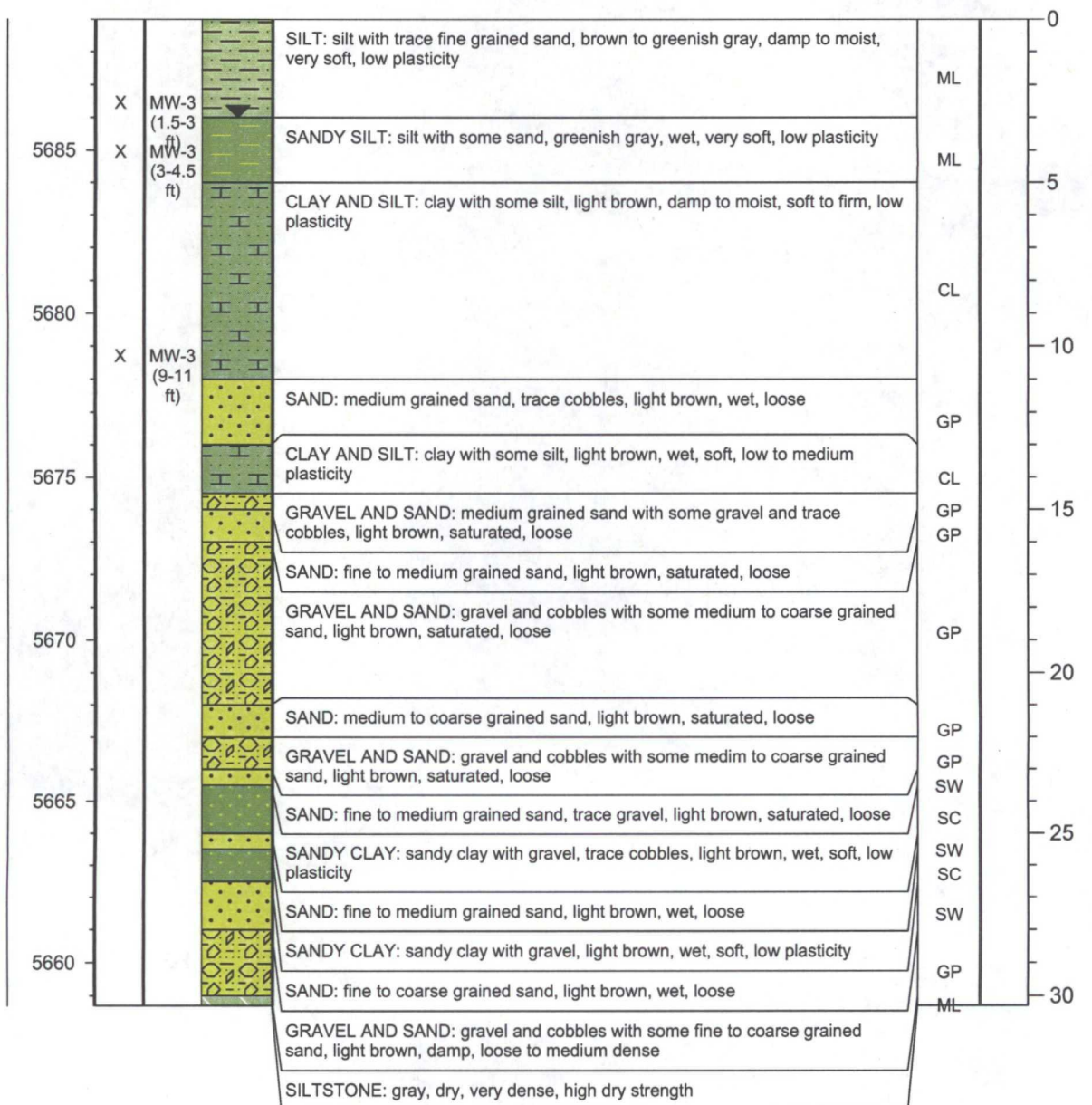
Development

Method	purge pump and hand bailing		
Date	4/7/2010		
Amount Purged	50	gallons	
Notes	H2O seemed to clear up more with use of pump rather than just hand bailing.		



PROJECT NAME: <u>Wilmuth No. 1</u> LOCATION: <u>Aztec, NM</u> FIELD LOGGED BY: <u>B. Lauctes</u> ELEVATION: GROUND SURFACE (msl): <u>5689</u> GROUNDWATER ELEVATION (msl): <u>~ 5686</u> REMARKS: _____ _____ _____	SOIL BORING NO. <u>MW-3</u> DRILL TYPE: <u>CME 75</u> <u>Hollow Stem Auger</u> BORE HOLE DIAMETER: <u>8 inches</u> DRILLED BY: <u>Enviro-Drill Inc.</u> DATE/TIME: HOLE STARTED: <u>4/7/2010 at 10:35</u> DATE/TIME: COMPLETED: <u>4/5/2010 at 14:30</u>
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ELEVATION (msl) - ft	SAMPLE TO LAB	SAMPLE ID	CLASSIFICATION AND DESCRIPTION	USCS SYMBOL	PID RESULT (ppm)	DEPTH (bgs) - ft
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TETRATECH, INC.

Well Completion Diagram

Well ID MW-3

Job Name Wilmuth No. 1

Job No. 114-690153 Date 4/7/2010

Project Manager Kelly Blanchard

Well I.D. MW-3

Field Geologist C. Mathews and B. Lautes

Driller Enviro-Drill

Equipment CME 75

Materials

350 Pounds Silica Sand Filter Pack

50 Pounds Baroid® 3/8" bentonite chip hole plug Bentonite Seal

 Gallons Grout

360 Pounds Quikcrete® Concrete

 Feet of native fill/ slough

7.5 Feet of 2 inch pvc Blank Casing

25 Feet of 2 inch .010 pvc Slotted Screen

 Feet of Outer Casing

0.5 Feet of 2 inch PVC end cap Sump/ Silt Trap

Placement Method PourNotes Casing and screen joint type - flush thread

Development

Method purge pump and hand bailingDate 4/7/2010Amount Purged 55 gallons

Notes: purge pump seemed to remove more fines & sediment
than wells that were hand bailed only

approximate 2.5 foot stick up

steel casing: 4"x4"

Other:

2" locking cap

Casing: PVC

+3 ft. to -4.5 ft.8 inch diameter
Borehole:0 ft. to -30 ft.

Outer Casing:

 ft. to ft.Concrete: approx. 3 sq. ft well
pads+0.5 ft. to -1 ft.

Grout:

 ft. to ft.

Bentonite Seal:

-1 ft. to -3 ft.

Filter Pack:

-3 ft. to -30 ft.

Slotted Screen:

-4.5 ft. to -29.5 ft.

Native fill/ slough:

 ft. to ft.8 inch diameter
Borehole:0 ft. to -30 ft.

Sump/ Silt Trap:

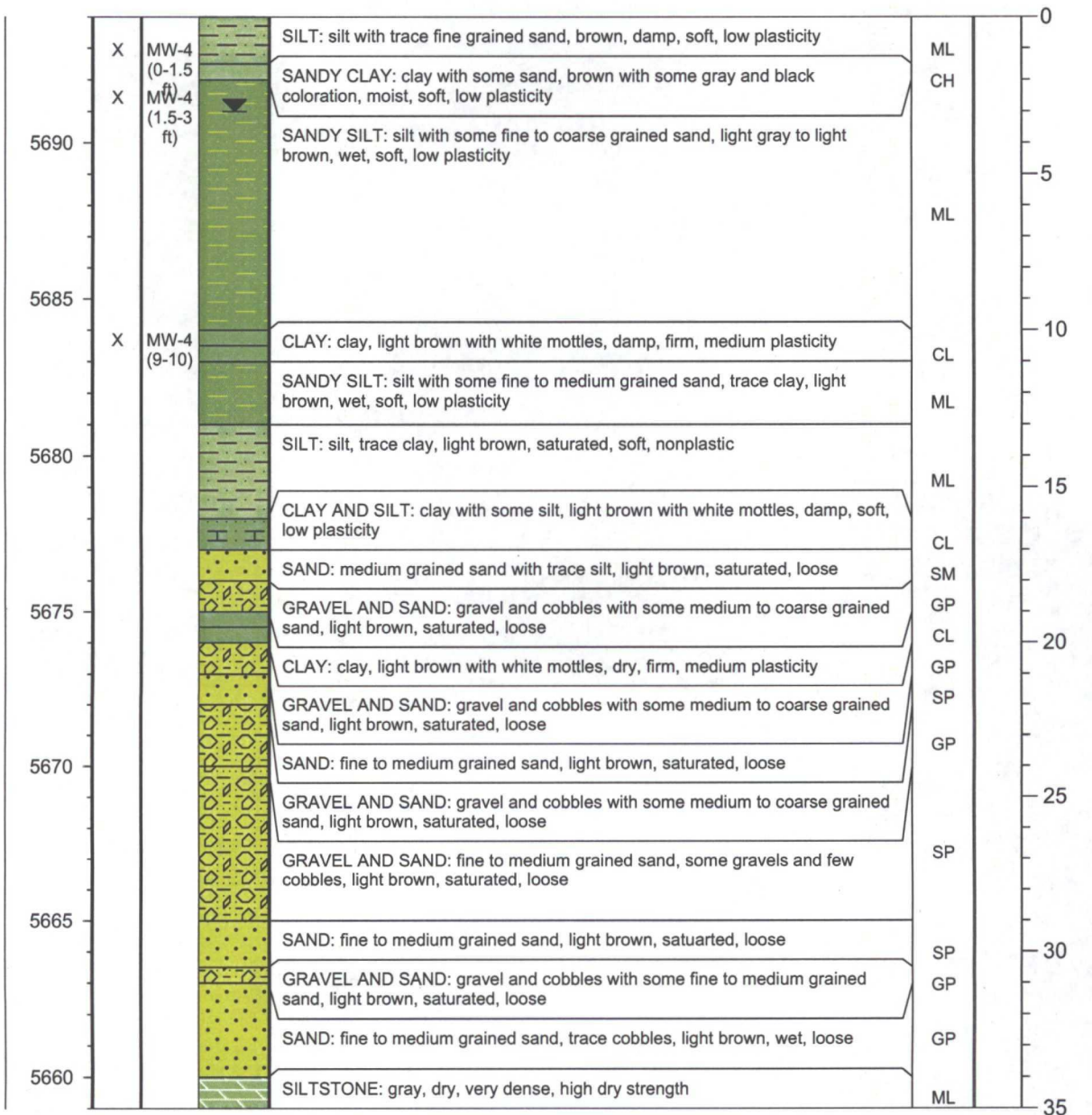
-29.5 ft. to -30 ft.

Total Depth Borehole:

30 feet

PROJECT NAME: <u>Wilmuth No. 1</u> LOCATION: <u>Aztec, NM</u> FIELD LOGGED BY: <u>B. Lautes</u> ELEVATION: GROUND SURFACE (msl): <u>elevation</u> GROUNDWATER ELEVATION (msl): <u>5694 feet</u> REMARKS: _____ _____	SOIL BORING NO. <u>MW-4</u> DRILL TYPE: <u>CME 75</u> <u>Hollow Stem Auger</u> BORE HOLE DIAMETER: <u>8 inches</u> DRILLED BY: <u>Enviro-Drill Inc.</u> DATE/TIME: HOLE STARTED: <u>4/5/2010 at 11:40</u> DATE/TIME: COMPLETED: <u>4/6/2010 at 14:35</u>
--	--

ELEVATION (msl) - ft	SAMPLE TO LAB	SAMPLE ID	CLASSIFICATION AND DESCRIPTION	USCS SYMBOL	PID RESULT (ppm)	DEPTH (bgs) - ft
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TETRA TECH, INC.

Well Completion Diagram

Well ID MW-4

Job Name Wilmuth No. 1Job No. 114-690153 Date 4/6/2010Project Manager Kelly BlanchardWell I.D. MW-4Field Geologist C. Mathews and B. LauctesDriller Enviro-DrillEquipment CME 75

Materials

350	Pounds	Silica Sand	Filter Pack
50	Pounds	Baroid® 3/8" bentonite chip hole plug	Bentonite Seal
	Gallons		Grout
360	Pounds	Quikcrete®	Concrete
	Feet of native fill/ slough		
12.5	Feet of	2 inch pvc	Blank Casing
25	Feet of	2 inch .010 pvc	Slotted Screen
	Feet of		Outer Casing
0.5	Feet of	2 inch PVC end cap	Sump/ Silt Trap

Placement Method PourNotes Casing and screen joint type - flush thread

Development

Method hand bailingDate 4/7/2010Amount Purged 50 gallonsNotes: H2O contains fines even after removing 50 gal.

approximate 2.5 foot stick up

steel casing: 4"x4"

Other:

2" locking cap

Casing: PVC

+3 ft. to -9.5 ft.8 inch diameter

Borehole:

0 ft. to -35 ft.

Outer Casing:

 ft. to ft.

Concrete: approx. 3 sq. ft well pads

+0.5 ft. to -1 ft.

Grout:

 ft. to ft.

Bentonite Seal:

-1.5 ft. to -3 ft.

Filter Pack:

-3 ft. to -35 ft.

Slotted Screen:

-9.5 ft. to -34.5 ft.

Native fill/ slough:

 ft. to ft.8 inch diameter
Borehole:0 ft. to -35 ft.

Sump/ Silt Trap:

-34.5 ft. to -35 ft.

Total Depth Borehole:

35 feet

APPENDIX B

Soil Boring Laboratory Analytical Report



SPL Inc.
8880 Interchange Drive
Houston, TX 77054
Phone: (713) 660-0901
Fax: (713) 660-8975

Certificate of Analysis

May 3, 2010

Workorder: H10040326

Ana Moreno
Tetra Tech, Inc.
6121 Indian School Road NE
Suite 200
Albuquerque, NM 87110

Project: Wilmuth No. 1

Project Number:

Site: Aztec, NM

PO Number: ENFOS

NELAC Cert. No.: T104704205-09-1

This Report Contains A Total Of 118 Pages

Excluding Any Attachments



SPL Inc.
8880 Interchange Drive
Houston, TX 77054
Phone: (713) 660-0901
Fax: (713) 660-8975

Certificate of Analysis

May 3, 2010

Workorder: H10040326

Ana Moreno
Tetra Tech, Inc.
6121 Indian School Road NE
Suite 200
Albuquerque, NM 87110

Project: Wilmuth No. 1
Project Number:
Site: Aztec, NM
PO Number: ENFOS
NELAC Cert. No.: T104704205-09-1

I. SAMPLE RECEIPT:

All samples were received intact. The internal ice chest temperatures were measured on receipt and are recorded on the attached Sample Receipt Checklist.

II: ANALYSES AND EXCEPTIONS:

There were no exceptions noted.

III. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report (" mg/kg-dry " or " ug/kg-dry ").

Matrix spike (MS) and matrix spike duplicate (MSD) samples are chosen and tested at random from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. Since the MS and MSD are chosen at random from an analytical batch, the sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The Laboratory Control Sample (LCS) and the Method Blank (MB) are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

Some of the percent recoveries and RPD's on the QC report for the MS/MSD may be different than the calculated recoveries and RPD's using the sample result and the MS/MSD results that appear on the report because, the actual raw result is used to perform the calculations for percent recovery and RPD.

Any other exceptions associated with this report will be footnoted in the analytical result page(s) or the quality control summary page(s).

Please do not hesitate to contact us if you have any questions or comments pertaining to this data report. Please reference the above Certificate of Analysis Number.

This report shall not be reproduced except in full, without the written approval of the laboratory. The reported results are only representative of the samples submitted for testing.

SPL, Inc. is pleased to be of service to you. We anticipate working with you in fulfilling all your current and future analytical needs.



SPL Inc.
8880 Interchange Drive
Houston, TX 77054
Phone: (713) 660-0901
Fax: (713) 660-8975

Certificate of Analysis

May 3, 2010

Workorder: H10040326

Ana Moreno
Tetra Tech, Inc.
6121 Indian School Road NE
Suite 200
Albuquerque, NM 87110

Project: Wilmuth No. 1
Project Number:
Site: Aztec, NM
PO Number: ENFOS
NELAC Cert. No.: T104704205-09-1

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or by his designee, as verified by the following signature.

Erica Cardenas, Senior Project Manager

Enclosures



SPL Inc.
8880 Interchange Drive
Houston, TX 77054
Phone: (713) 660-0901
Fax: (713) 660-8975

SAMPLE SUMMARY

Workorder: H10040326 : Wilmuth No. 1

Project Number:

Lab ID	Sample ID	Matrix	COC ID	Date/Time Collected	Date/Time Received
H10040326001	MW-4 (0-1.5 FT)	Soil		4/5/2010 11:40	4/13/2010 09:30
H10040326002	MW-4 (1.5-3.0 FT)	Soil		4/5/2010 11:50	4/13/2010 09:30
H10040326003	MW-4 (9-11 FT)	Soil		4/5/2010 16:00	4/13/2010 09:30
H10040326004	MW-1 (7-9 FT)	Soil		4/6/2010 08:25	4/13/2010 09:30
H10040326005	MW-1 (11-13 FT)	Soil		4/6/2010 08:35	4/13/2010 09:30
H10040326006	MW-3 (1.5-3.0 FT)	Soil		4/5/2010 14:40	4/13/2010 09:30
H10040326007	MW-3 (3.0-4.5 FT)	Soil		4/5/2010 14:50	4/13/2010 09:30
H10040326008	MW-3 (9-11 FT)	Soil		4/7/2010 09:40	4/13/2010 09:30
H10040326009	MW-2 (1.5-3.0 FT)	Soil		4/5/2010 13:40	4/13/2010 09:30
H10040326010	MW-2 (9-11 FT)	Soil		4/6/2010 16:15	4/13/2010 09:30



SPL Inc.
8880 Interchange Drive
Houston, TX 77054
Phone: (713) 660-0901
Fax: (713) 660-8975

ANALYTICAL RESULTS

Workorder: H10040326 : Wilmuth No. 1

Project Number:

Lab ID: H10040326001
Sample ID: MW-4 (0-1.5 FT)

Date/Time Received: 4/13/2010 09:30 Matrix: Soil
Date/Time Collected: 4/5/2010 11:40

WET CHEMISTRY

Analysis Desc: EPA 300.0

Preparation Batches:

Dry Weight Basis

Batch: 1432 Soil Leachage (IC) on 04/17/2010 00:00 by WETC

Analytical Batches:

Batch: 1255 EPA 300.0 on 04/17/2010 10:53 by CFS

Parameters	Results					Batch Information		
	mg/kg-dry	Qual	Report Limit	MDL	DF	RegLmt	Prep	Analysis
Bromide	ND		5.49	0.349	1		1432	1255
Chloride	73.3		5.49	0.360	1		1432	1255
Fluoride	5.76		5.49	0.299	1		1432	1255
Nitrogen, Nitrate (As N)	6.72	Q	5.49	0.297	1		1430	1254
Nitrogen, Nitrite (As N)	ND	Q	5.49	0.289	1		1430	1254
Orthophosphate (As P)	ND		5.49	0.355	1		1432	1255
Sulfate	159		5.49	0.216	1		1432	1255

PHYSICAL PROPERTIES

Analysis Desc: EPA 120.1 (Water Extraction)

Analytical Batches:

Dry Weight Basis

Batch: 2846 EPA 120.1 (Water Extraction) on 04/16/2010 17:15 by PAC

Parameters	Results					Batch Information		
	umhos/cm @ 25C	Qual	Report Limit	MDL	DF	RegLmt	Prep	Analysis
Specific Conductivity	2950	Q	100	6.47	1			2846

SEMIVOLATILE HYDROCARBONS

Analysis Desc: SW-846 8015B Fuels

Preparation Batches:

Dry Weight Basis

Batch: 1624 SW-846 3550B on 04/16/2010 16:21 by QMT

Analytical Batches:

Batch: 1428 SW-846 8015B Fuels on 04/19/2010 18:55 by NDW

Parameters	Results					Batch Information		
	mg/kg-dry	Qual	Report Limit	MDL	DF	RegLmt	Prep	Analysis
Diesel Range Organics(C10-C28)	ND		5.5	1.2	1		1624	1428
n-Pentacosane (S)	83.8 %		20-154		1		1624	1428

ICP METALS



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ANALYTICAL RESULTS

Workorder: H10040326 : Wilmuth No. 1

Project Number:

Lab ID: H10040326001

Date/Time Received: 4/13/2010 09:30 Matrix: Soil

Sample ID: MW-4 (0-1.5 FT)

Date/Time Collected: 4/5/2010 11:40

Analysis Desc: SW-846 6010B		Preparation Batches:						
Dry Weight Basis		Batch: 1671 SW-846 3050A on 04/18/2010 12:30 by R_V						
		Analytical Batches:						
		Batch: 1349 SW-846 6010B on 04/19/2010 19:21 by EBG DF = 1.						
		Batch: 1357 SW-846 6010B on 04/22/2010 08:27 by EBG DF = 1.						
Parameters	Results		Report Limit	MDL	DF	RegLmt	Batch Information	
	mg/kg-dry	Qual					Prep	Analysis
Aluminum	8530		11.0	5.28	1		1671	1357
Arsenic	5.10		0.549	0.188	1		1671	1349
Barium	172		0.549	0.0199	1		1671	1349
Boron	3.64		1.10	0.0588	1		1671	1357
Cadmium	ND		0.549	0.0185	1		1671	1349
Chromium	6.02		0.549	0.0729	1		1671	1349
Cobalt	4.72		0.549	0.0369	1		1671	1349
Copper	37.9		0.549	0.0865	1		1671	1349
Iron	12800		1.10	0.331	1		1671	1349
Lead	153		0.549	0.116	1		1671	1349
Manganese	529		0.549	0.0476	1		1671	1349
Molybdenum	1.53		0.549	0.0383	1		1671	1349
Nickel	5.71		0.549	0.0439	1		1671	1349
Selenium	ND		0.549	0.218	1		1671	1349
Silver	ND		0.549	0.0681	1		1671	1349
Zinc	650		1.10	0.237	1		1671	1349

VOLATILES

Analysis Desc: SW-846 8260B		Preparation Batches:						
Dry Weight Basis		Batch: 1764 SW-846 5030 on 04/16/2010 10:37 by TLE						
		Analytical Batches:						
		Batch: 1765 SW-846 8260B on 04/16/2010 21:17 by TLE						
Parameters	Results		Report Limit	MDL	DF	RegLmt	Batch Information	
	ug/kg-dry	Qual					Prep	Analysis
2-Butanone	ND		22	7.3	1		1764	1765
Acetone	ND		110	12	1		1764	1765
Acrylonitrile	ND		55	5.4	1		1764	1765
Benzene	ND		5.5	0.86	1		1764	1765
Bromobenzene	ND		5.5	0.66	1		1764	1765
Bromochloromethane	ND		5.5	0.79	1		1764	1765
Bromodichloromethane	ND		5.5	0.69	1		1764	1765
Bromoform	ND		5.5	0.55	1		1764	1765



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ANALYTICAL RESULTS

Workorder: H10040326 : Wilmuth No. 1

Project Number:

Lab ID: H10040326001

Date/Time Received: 4/13/2010 09:30

Matrix: Soil

Sample ID: MW-4 (0-1.5 FT)

Date/Time Collected: 4/5/2010 11:40

Parameters	Results				DF	RegLmt	Batch Information	
	ug/kg-dry	Qual	Report Limit	MDL			Prep	Analysis
Bromomethane	ND		11	1.2	1		1764	1765
n-Butylbenzene	ND		5.5	1.1	1		1764	1765
sec-Butylbenzene	ND		5.5	1.0	1		1764	1765
tert-Butylbenzene	ND		5.5	1.1	1		1764	1765
Carbon disulfide	ND		5.5	0.91	1		1764	1765
Carbon tetrachloride	ND		5.5	0.85	1		1764	1765
Chlorobenzene	ND		5.5	0.79	1		1764	1765
Chloroethane	ND		11	1.2	1		1764	1765
2-Chloroethylvinyl ether	ND		11	1.3	1		1764	1765
Chloroform	ND		5.5	0.93	1		1764	1765
Chloromethane	ND		11	1.2	1		1764	1765
4-Chlorotoluene	ND		5.5	0.89	1		1764	1765
2-Chlorotoluene	ND		5.5	0.76	1		1764	1765
Dibromochloromethane	ND		5.5	0.59	1		1764	1765
1,2-Dibromo-3-chloropropane	ND		5.5	1.2	1		1764	1765
1,2-Dibromoethane	ND		5.5	0.66	1		1764	1765
Dibromomethane	ND		5.5	0.74	1		1764	1765
1,4-Dichlorobenzene	ND		5.5	0.97	1		1764	1765
1,3-Dichlorobenzene	ND		5.5	0.83	1		1764	1765
1,2-Dichlorobenzene	ND		5.5	0.77	1		1764	1765
Dichlorodifluoromethane	ND		11	1.0	1		1764	1765
1,2-Dichloroethane	ND		5.5	0.76	1		1764	1765
1,1-Dichloroethane	ND		5.5	1.1	1		1764	1765
1,2-Dichloroethene, Total	ND		5.5	0.97	1		1764	1765
1,1-Dichloroethene	ND		5.5	1.2	1		1764	1765
cis-1,2-Dichloroethene	ND		5.5	0.97	1		1764	1765
trans-1,2-Dichloroethene	ND		5.5	1.1	1		1764	1765
1,3-Dichloropropane	ND		5.5	0.84	1		1764	1765
2,2-Dichloropropane	ND		5.5	0.83	1		1764	1765
1,2-Dichloropropane	ND		5.5	0.58	1		1764	1765
cis-1,3-Dichloropropene	ND		5.5	0.64	1		1764	1765
trans-1,3-Dichloropropene	ND		5.5	0.56	1		1764	1765
1,1-Dichloropropene	ND		5.5	0.93	1		1764	1765
Ethylbenzene	ND		5.5	0.93	1		1764	1765
Hexachlorobutadiene	ND		5.5	1.3	1		1764	1765
2-Hexanone	ND		11	0.73	1		1764	1765
Isopropylbenzene (Cumene)	ND		5.5	1.1	1		1764	1765
4-Isopropyltoluene	ND		5.5	1.0	1		1764	1765
Methyl tert-Butyl Ether (MTBE)	ND		5.5	0.77	1		1764	1765
Methyl Isobutyl Ketone (MIBK)	ND		11	1.1	1		1764	1765



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ANALYTICAL RESULTS

Workorder: H10040326 : Wilmuth No. 1

Project Number:

Lab ID: H10040326001

Date/Time Received: 4/13/2010 09:30

Matrix: Soil

Sample ID: MW-4 (0-1.5 FT)

Date/Time Collected: 4/5/2010 11:40

Parameters	Results					Batch Information	
	ug/kg-dry	Qual	Report Limit	MDL	DF	RegLmt	Prep Analysis
Methylene chloride	ND		5.5	0.97	1		1764 1765
Naphthalene	ND		5.5	0.52	1		1764 1765
n-Propylbenzene	ND		5.5	0.89	1		1764 1765
Styrene	ND		5.5	0.79	1		1764 1765
1,1,1,2-Tetrachloroethane	ND		5.5	0.63	1		1764 1765
1,1,2,2-Tetrachloroethane	ND		5.5	0.66	1		1764 1765
Tetrachloroethene	ND		5.5	1.1	1		1764 1765
Toluene	ND		5.5	0.83	1		1764 1765
1,2,4-Trichlorobenzene	ND		5.5	0.69	1		1764 1765
1,2,3-Trichlorobenzene	ND		5.5	0.99	1		1764 1765
1,1,1-Trichloroethane	ND		5.5	0.98	1		1764 1765
1,1,2-Trichloroethane	ND		5.5	0.69	1		1764 1765
Trichloroethene	ND		5.5	1.0	1		1764 1765
Trichlorofluoromethane	ND		5.5	1.1	1		1764 1765
1,2,3-Trichloropropane	ND		5.5	0.89	1		1764 1765
1,3,5-Trimethylbenzene	ND		5.5	0.80	1		1764 1765
1,2,4-Trimethylbenzene	ND		5.5	0.96	1		1764 1765
Vinyl acetate	ND		11	0.93	1		1764 1765
Vinyl chloride	ND		11	1.4	1		1764 1765
m,p-Xylene	ND		5.5	1.8	1		1764 1765
o-Xylene	ND		5.5	0.83	1		1764 1765
Xylenes, Total	ND		5.5	0.83	1		1764 1765
4-Bromofluorobenzene (S)	88.7 %		62-130		1		1764 1765
1,2-Dichloroethane-d4 (S)	108 %		64-130		1		1764 1765
Toluene-d8 (S)	86.1 %		70-140		1		1764 1765

SEMIVOLATILES

Analysis Desc: SW-846 8270C

Preparation Batches:

Dry Weight Basis

Batch: 1623 SW-846 3550B on 04/16/2010 15:31 by QMT

Analytical Batches:

Batch: 1213 SW-846 8270C on 04/19/2010 16:06 by GEY

Parameters	Results					Batch Information	
	ug/kg-dry	Qual	Report Limit	MDL	DF	RegLmt	Prep Analysis
Acenaphthene	ND		180	41	1		1623 1213
Acenaphthylene	ND		180	47	1		1623 1213
Aniline	ND		180	66	1		1623 1213
Anthracene	ND		180	40	1		1623 1213
Benzo(a)anthracene	ND		180	50	1		1623 1213
Benzo(a)pyrene	ND		180	62	1		1623 1213

Report ID: H10040326_6125

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ANALYTICAL RESULTS

Workorder: H10040326 : Wilmuth No. 1

Project Number:

Lab ID: H10040326001
Sample ID: MW-4 (0-1.5 FT)

Date/Time Received: 4/13/2010 09:30 Matrix: Soil
Date/Time Collected: 4/5/2010 11:40

Parameters	Results					Batch Information	
	ug/kg-dry	Qual	Report Limit	MDL	DF	RegLmt	Prep Analysis
Benzo(b)fluoranthene	ND		180	50	1	1623	1213
Benzo(g,h,i)perylene	ND		180	45	1	1623	1213
Benzo(k)fluoranthene	ND		180	59	1	1623	1213
Benzoic acid	ND		730	120	1	1623	1213
Benzyl alcohol	ND		180	53	1	1623	1213
4-Bromophenyl phenyl ether	ND		180	46	1	1623	1213
Butyl benzyl phthalate	ND		180	66	1	1623	1213
Carbazole	ND		180	38	1	1623	1213
4-Chloro-3-methylphenol	ND		180	52	1	1623	1213
4-Chloroaniline	ND		180	43	1	1623	1213
Bis(2-Chloroethoxy)methane	ND		180	73	1	1623	1213
Bis(2-Chloroethyl)ether	ND		180	46	1	1623	1213
bis(2-Chloroisopropyl)ether	ND		180	52	1	1623	1213
2-Chloronaphthalene	ND		180	42	1	1623	1213
2-Chlorophenol	ND		180	41	1	1623	1213
4-Chlorophenyl phenyl ether	ND		180	50	1	1623	1213
Chrysene	ND		180	60	1	1623	1213
Cresols, Total	ND		180	43	1	1623	1213
Dibenz(a,h)anthracene	ND		180	52	1	1623	1213
Dibenzofuran	ND		180	44	1	1623	1213
1,4-Dichlorobenzene	ND		180	38	1	1623	1213
1,3-Dichlorobenzene	ND		180	160	1	1623	1213
1,2-Dichlorobenzene	ND		180	41	1	1623	1213
3,3'-Dichlorobenzidine	ND		180	49	1	1623	1213
2,4-Dichlorophenol	ND		180	43	1	1623	1213
Diethyl phthalate	ND		180	47	1	1623	1213
Dimethyl phthalate	ND		180	43	1	1623	1213
2,4-Dimethylphenol	ND		180	44	1	1623	1213
4,6-Dinitro-2-methylphenol	ND		180	29	1	1623	1213
2,4-Dinitrophenol	ND		180	160	1	1623	1213
2,4-Dinitrotoluene	ND		180	54	1	1623	1213
2,6-Dinitrotoluene	ND		180	41	1	1623	1213
Diphenylamine	ND		370	110	1	1623	1213
1,2-Diphenylhydrazine	ND		180	35	1	1623	1213
bis(2-Ethylhexyl)phthalate	ND		180	38	1	1623	1213
Fluoranthene	ND		180	43	1	1623	1213
Fluorene	ND		180	42	1	1623	1213
Hexachlorobenzene	ND		180	45	1	1623	1213
Hexachlorobutadiene	ND		180	46	1	1623	1213
Hexachlorocyclopentadiene	ND		180	58	1	1623	1213



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ANALYTICAL RESULTS

Workorder: H10040326 : Wilmuth No. 1

Project Number:

Lab ID: H10040326001

Date/Time Received: 4/13/2010 09:30

Matrix: Soil

Sample ID: MW-4 (0-1.5 FT)

Date/Time Collected: 4/5/2010 11:40

Parameters	Results					Batch Information	
	ug/kg-dry	Qual	Report Limit	MDL	DF	RegLmt	Prep Analysis
Hexachloroethane	ND		180	41	1		1623 1213
Indeno(1,2,3-cd)pyrene	ND		180	65	1		1623 1213
Isophorone	ND		180	40	1		1623 1213
2-Methylnaphthalene	ND		180	47	1		1623 1213
3 & 4-Methylphenol	ND		180	51	1		1623 1213
2-Methylphenol (o-Cresol)	ND		180	43	1		1623 1213
Naphthalene	ND		180	41	1		1623 1213
4-Nitroaniline	ND		180	47	1		1623 1213
2-Nitroaniline	ND		180	37	1		1623 1213
3-Nitroaniline	ND		180	28	1		1623 1213
Nitrobenzene	ND		180	42	1		1623 1213
4-Nitrophenol	ND		180	31	1		1623 1213
2-Nitrophenol	ND		180	41	1		1623 1213
n-Nitrosodiphenylamine	ND		370	110	1		1623 1213
Pentachlorophenol	ND		180	43	1		1623 1213
Phenanthrene	ND		180	41	1		1623 1213
Phenol	ND		180	49	1		1623 1213
Pyrene	ND		180	44	1		1623 1213
Pyridine	ND		180	75	1		1623 1213
1,2,4-Trichlorobenzene	ND		180	160	1		1623 1213
2,4,6-Trichlorophenol	ND		180	43	1		1623 1213
2,4,5-Trichlorophenol	ND		180	50	1		1623 1213
Di-n-butyl phthalate	ND		180	56	1		1623 1213
n-Nitrosodi-n-propylamine	ND		180	44	1		1623 1213
n-Nitrosodimethylamine	ND		180	39	1		1623 1213
Di-n-octyl phthalate	ND		180	57	1		1623 1213
2-Fluorobiphenyl (S)	54 %		15-140		1		1623 1213
2-Fluorophenol (S)	59.5 %		15-122		1		1623 1213
Nitrobenzene-d5 (S)	54 %		10-134		1		1623 1213
Phenol-d6 (S)	63.3 %		10-123		1		1623 1213
Terphenyl-d14 (S)	58.1 %		18-166		1		1623 1213
2,4,6-Tribromophenol (S)	54.9 %		19-135		1		1623 1213

Analysis Desc: EPA 310.1

Preparation Batches:

Dry Weight Basis

Batch: 1426 Water Leachate on 04/16/2010 00:00 by ESK

Analytical Batches:

Batch: 2853 EPA 310.1 on 04/16/2010 16:30 by ESK

Parameters	Results					Batch Information	
	mg/kg-dry	Qual	Report Limit	MDL	DF	RegLmt	Prep Analysis



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ANALYTICAL RESULTS

Workorder: H10040326 : Wilmuth No. 1

Project Number:

Lab ID: **H10040326001**
Sample ID: **MW-4 (0-1.5 FT)**

Date/Time Received: 4/13/2010 09:30 Matrix: Soil
Date/Time Collected: 4/5/2010 11:40

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information	
	mg/kg-dry						Prep	Analysis
Alkalinity, total as CaCO3	527		22.0	7.37	1		1426	2853

WET CHEMISTRY

Analysis Desc: EPA 9045D

Analytical Batches:

Dry Weight Basis

Batch: 2371 EPA 9045D on 04/16/2010 14:00 by PAC

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information	
	SU						Prep	Analysis
pH	9.71				1			2371
Temperature (oC)	23 °C				1			2371

Analysis Desc: ASTM D2216

Analytical Batches:

Dry Weight Basis

Batch: 2863 ASTM D2216 on 04/20/2010 00:00 by EB1

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information	
	%						Prep	Analysis
Percent Moisture	8.97				1			2863

METALS

Analysis Desc: SW-846 7471A

Preparation Batches:

Dry Weight Basis

Batch: 1121 SW-846 7471A on 04/19/2010 11:25 by F_S

Analytical Batches:

Batch: 1111 SW-846 7471A on 04/19/2010 12:26 by R_V

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information	
	mg/kg-dry						Prep	Analysis
Mercury	ND		0.0330	0.00703	1		1121	1111

Gasoline Range Organics (GRO)

Analysis Desc: SW-846 8015B GRO Gas

Preparation Batches:

Dry Weight Basis

Batch: 1267 SW-846 8015B GRO Gas on 04/16/2010 14:51 by GCV

Analytical Batches:

Batch: 1268 SW-846 8015B GRO Gas on 04/16/2010 17:19 by WLV

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information	
	mg/kg-dry						Prep	Analysis
Gasoline Range Organics	ND		0.11	0.033	1		1267	1268
1,4-Difluorobenzene (S)	98.6 %		63-142		1		1267	1268



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ANALYTICAL RESULTS

Workorder: H10040326 : Wilmuth No. 1

Project Number:

Lab ID: **H10040326001**
Sample ID: **MW-4 (0-1.5 FT)**

Date/Time Received: 4/13/2010 09:30 Matrix: Soil
Date/Time Collected: 4/5/2010 11:40

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information	
	mg/kg-dry						Prep	Analysis
4-Bromofluorobenzene (S)	93.5 %		50-159		1		1267	1268



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ANALYTICAL RESULTS

Workorder: H10040326 : Wilmuth No. 1

Project Number:

Lab ID: H10040326002
Sample ID: MW-4 (1.5-3.0 FT)

Date/Time Received: 4/13/2010 09:30 Matrix: Soil
Date/Time Collected: 4/5/2010 11:50

WET CHEMISTRY

Analysis Desc: EPA 300.0

Preparation Batches:

Dry Weight Basis

Batch: 1432 Soil Leachage (IC) on 04/17/2010 00:00 by WETC

Analytical Batches:

Batch: 1255 EPA 300.0 on 04/17/2010 11:12 by CFS

Parameters	Results					Batch Information	
	mg/kg-dry	Qual	Report Limit	MDL	DF	RegLmt	Prep Analysis
Bromide	ND		6.00	0.381	1	1432	1255
Chloride	117		6.00	0.393	1	1432	1255
Fluoride	6.96		6.00	0.326	1	1432	1255
Nitrogen, Nitrate (As N)	7.32	Q	6.00	0.324	1	1430	1254
Nitrogen, Nitrite (As N)	ND	Q	6.00	0.315	1	1430	1254
Orthophosphate (As P)	ND		6.00	0.387	1	1432	1255
Sulfate	89.3		6.00	0.236	1	1432	1255

PHYSICAL PROPERTIES

Analysis Desc: EPA 120.1 (Water Extraction)

Analytical Batches:

Dry Weight Basis

Batch: 2846 EPA 120.1 (Water Extraction) on 04/16/2010 17:15 by PAC

Parameters	Results					Batch Information	
	umhos/cm @ 25C	Qual	Report Limit	MDL	DF	RegLmt	Prep Analysis
Specific Conductivity	2140	Q	100	6.47	1		2846

SEMIVOLATILE HYDROCARBONS

Analysis Desc: SW-846 8015B Fuels

Preparation Batches:

Dry Weight Basis

Batch: 1624 SW-846 3550B on 04/16/2010 16:21 by QMT

Analytical Batches:

Batch: 1428 SW-846 8015B Fuels on 04/19/2010 19:56 by NDW

Parameters	Results					Batch Information	
	mg/kg-dry	Qual	Report Limit	MDL	DF	RegLmt	Prep Analysis
Diesel Range Organics(C10-C28)	ND		6.0	1.3	1	1624	1428
n-Pentacosane (S)	90.9 %		20-154		1	1624	1428

ICP METALS



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ANALYTICAL RESULTS

Workorder: H10040326 : Wilmuth No. 1

Project Number:

Lab ID: **H10040326002**
Sample ID: **MW-4 (1.5-3.0 FT)**

Date/Time Received: 4/13/2010 09:30 Matrix: Soil
Date/Time Collected: 4/5/2010 11:50

Analysis Desc: SW-846 6010B
Dry Weight Basis
Preparation Batches:
Batch: 1671 SW-846 3050A on 04/18/2010 12:30 by R_V
Analytical Batches:
Batch: 1349 SW-846 6010E on 04/22/2010 09:18 by EBG DF = 1.
Batch: 1357 SW-846 6010E on 04/22/2010 09:18 by EBG DF = 1.

Parameters	Results		Report Limit	MDL	DF	RegLmt	Batch Information	
	mg/kg-dry	Qual					Prep	Analysis
Aluminum	6100		12.0	5.77	1		1671	1357
Arsenic	2.90		0.600	0.205	1		1671	1349
Barium	123		0.600	0.0217	1		1671	1349
Boron	2.23		1.20	0.0642	1		1671	1357
Cadmium	ND		0.600	0.0202	1		1671	1349
Chromium	4.98		0.600	0.0797	1		1671	1349
Cobalt	3.91		0.600	0.0403	1		1671	1349
Copper	6.47		0.600	0.0944	1		1671	1349
Iron	8470		1.20	0.361	1		1671	1349
Lead	6.25		0.600	0.127	1		1671	1349
Manganese	279		0.600	0.0519	1		1671	1349
Molybdenum	ND		0.600	0.0419	1		1671	1349
Nickel	4.81		0.600	0.0480	1		1671	1349
Selenium	ND		0.600	0.238	1		1671	1349
Silver	ND		0.600	0.0744	1		1671	1349
Zinc	26.6		1.20	0.259	1		1671	1349

VOLATILES

Analysis Desc: SW-846 8260B
Dry Weight Basis
Preparation Batches:
Batch: 1764 SW-846 5030 on 04/16/2010 10:41 by TLE
Analytical Batches:
Batch: 1765 SW-846 8260B on 04/16/2010 15:38 by TLE

Parameters	Results		Report Limit	MDL	DF	RegLmt	Batch Information	
	ug/kg-dry	Qual					Prep	Analysis
2-Butanone	ND		24	8.0	1		1764	1765
Acetone	ND		120	13	1		1764	1765
Acrylonitrile	ND		60	6.0	1		1764	1765
Benzene	ND		6.0	0.94	1		1764	1765
Bromobenzene	ND		6.0	0.72	1		1764	1765
Bromochloromethane	ND		6.0	0.87	1		1764	1765
Bromodichloromethane	ND		6.0	0.75	1		1764	1765
Bromoform	ND		6.0	0.60	1		1764	1765



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ANALYTICAL RESULTS

Workorder: H10040326 : Wilmuth No. 1

Project Number:

Lab ID: H10040326002
Sample ID: MW-4 (1.5-3.0 FT)

Date/Time Received: 4/13/2010 09:30 Matrix: Soil
Date/Time Collected: 4/5/2010 11:50

Parameters	Results					Batch Information	
	ug/kg-dry	Qual	Report Limit	MDL	DF	RegLmt	Prep Analysis
Bromomethane	ND		12	1.3	1	1764	1765
n-Butylbenzene	ND		6.0	1.2	1	1764	1765
sec-Butylbenzene	ND		6.0	1.1	1	1764	1765
tert-Butylbenzene	ND		6.0	1.2	1	1764	1765
Carbon disulfide	ND		6.0	0.99	1	1764	1765
Carbon tetrachloride	ND		6.0	0.93	1	1764	1765
Chlorobenzene	ND		6.0	0.86	1	1764	1765
Chloroethane	ND		12	1.4	1	1764	1765
2-Chloroethylvinyl ether	ND		12	1.5	1	1764	1765
Chloroform	ND		6.0	1.0	1	1764	1765
Chloromethane	ND		12	1.3	1	1764	1765
4-Chlorotoluene	ND		6.0	0.97	1	1764	1765
2-Chlorotoluene	ND		6.0	0.83	1	1764	1765
Dibromochloromethane	ND		6.0	0.65	1	1764	1765
1,2-Dibromo-3-chloropropane	ND		6.0	1.3	1	1764	1765
1,2-Dibromoethane	ND		6.0	0.72	1	1764	1765
Dibromomethane	ND		6.0	0.81	1	1764	1765
1,4-Dichlorobenzene	ND		6.0	1.1	1	1764	1765
1,3-Dichlorobenzene	ND		6.0	0.91	1	1764	1765
1,2-Dichlorobenzene	ND		6.0	0.84	1	1764	1765
Dichlorodifluoromethane	ND		12	1.1	1	1764	1765
1,2-Dichloroethane	ND		6.0	0.83	1	1764	1765
1,1-Dichloroethane	ND		6.0	1.2	1	1764	1765
1,2-Dichloroethene, Total	ND		6.0	1.1	1	1764	1765
1,1-Dichloroethene	ND		6.0	1.3	1	1764	1765
cis-1,2-Dichloroethene	ND		6.0	1.1	1	1764	1765
trans-1,2-Dichloroethene	ND		6.0	1.2	1	1764	1765
1,3-Dichloropropane	ND		6.0	0.92	1	1764	1765
2,2-Dichloropropane	ND		6.0	0.91	1	1764	1765
1,2-Dichloropropane	ND		6.0	0.63	1	1764	1765
cis-1,3-Dichloropropene	ND		6.0	0.70	1	1764	1765
trans-1,3-Dichloropropene	ND		6.0	0.62	1	1764	1765
1,1-Dichloropropene	ND		6.0	1.0	1	1764	1765
Ethylbenzene	ND		6.0	1.0	1	1764	1765
Hexachlorobutadiene	ND		6.0	1.4	1	1764	1765
2-Hexanone	ND		12	0.80	1	1764	1765
Isopropylbenzene (Cumene)	ND		6.0	1.2	1	1764	1765
4-Isopropyltoluene	ND		6.0	1.1	1	1764	1765
Methyl tert-Butyl Ether (MTBE)	ND		6.0	0.84	1	1764	1765
Methyl Isobutyl Ketone (MIBK)	ND		12	1.2	1	1764	1765



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ANALYTICAL RESULTS

Workorder: H10040326 : Wilmuth No. 1

Project Number:

Lab ID: **H10040326002**
Sample ID: **MW-4 (1.5-3.0 FT)**

Date/Time Received: 4/13/2010 09:30 Matrix: Soil
Date/Time Collected: 4/5/2010 11:50

Parameters	Results					Batch Information	
	ug/kg-dry	Qual	Report Limit	MDL	DF	RegLmt	Prep Analysis
Methylene chloride	7.9		6.0	1.1	1		1764 1765
Naphthalene	ND		6.0	0.56	1		1764 1765
n-Propylbenzene	ND		6.0	0.97	1		1764 1765
Styrene	ND		6.0	0.86	1		1764 1765
1,1,1,2-Tetrachloroethane	ND		6.0	0.68	1		1764 1765
1,1,2,2-Tetrachloroethane	ND		6.0	0.72	1		1764 1765
Tetrachloroethene	ND		6.0	1.2	1		1764 1765
Toluene	ND		6.0	0.91	1		1764 1765
1,2,4-Trichlorobenzene	ND		6.0	0.75	1		1764 1765
1,2,3-Trichlorobenzene	ND		6.0	1.1	1		1764 1765
1,1,1-Trichloroethane	ND		6.0	1.1	1		1764 1765
1,1,2-Trichloroethane	ND		6.0	0.75	1		1764 1765
Trichloroethene	ND		6.0	1.1	1		1764 1765
Trichlorofluoromethane	ND		6.0	1.2	1		1764 1765
1,2,3-Trichloropropane	ND		6.0	0.97	1		1764 1765
1,3,5-Trimethylbenzene	ND		6.0	0.87	1		1764 1765
1,2,4-Trimethylbenzene	ND		6.0	1.1	1		1764 1765
Vinyl acetate	ND		12	1.0	1		1764 1765
Vinyl chloride	ND		12	1.5	1		1764 1765
m,p-Xylene	ND		6.0	2.0	1		1764 1765
o-Xylene	ND		6.0	0.91	1		1764 1765
Xylenes, Total	ND		6.0	0.91	1		1764 1765
4-Bromofluorobenzene (S)	89.9 %		62-130		1		1764 1765
1,2-Dichloroethane-d4 (S)	97.5 %		64-130		1		1764 1765
Toluene-d8 (S)	84.7 %		70-140		1		1764 1765

SEMIVOLATILES

Analysis Desc: SW-846 8270C

Preparation Batches:

Dry Weight Basis

Batch: 1623 SW-846 3550B on 04/16/2010 15:31 by QMT

Analytical Batches:

Batch: 1213 SW-846 8270C on 04/19/2010 17:11 by GEY

Parameters	Results					Batch Information	
	ug/kg-dry	Qual	Report Limit	MDL	DF	RegLmt	Prep Analysis
Acenaphthene	ND		200	44	1		1623 1213
Acenaphthylene	ND		200	51	1		1623 1213
Aniline	ND		200	73	1		1623 1213
Anthracene	ND		200	43	1		1623 1213
Benzo(a)anthracene	ND		200	55	1		1623 1213
Benzo(a)pyrene	ND		200	68	1		1623 1213



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ANALYTICAL RESULTS

Workorder: H10040326 : Wilmuth No. 1

Project Number:

Lab ID: H10040326002

Date/Time Received: 4/13/2010 09:30

Matrix: Soil

Sample ID: MW-4 (1.5-3.0 FT)

Date/Time Collected: 4/5/2010 11:50

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information	
	ug/kg-dry						Prep	Analysis
Benzo(b)fluoranthene	ND		200	55	1		1623	1213
Benzo(g,h,i)perylene	ND		200	50	1		1623	1213
Benzo(k)fluoranthene	ND		200	64	1		1623	1213
Benzoic acid	ND		800	130	1		1623	1213
Benzyl alcohol	ND		200	58	1		1623	1213
4-Bromophenyl phenyl ether	ND		200	50	1		1623	1213
Butyl benzyl phthalate	ND		200	72	1		1623	1213
Carbazole	ND		200	42	1		1623	1213
4-Chloro-3-methylphenol	ND		200	57	1		1623	1213
4-Chloroaniline	ND		200	47	1		1623	1213
Bis(2-Chloroethoxy)methane	ND		200	79	1		1623	1213
Bis(2-Chloroethyl)ether	ND		200	50	1		1623	1213
bis(2-Chloroisopropyl)ether	ND		200	57	1		1623	1213
2-Chloronaphthalene	ND		200	45	1		1623	1213
2-Chlorophenol	ND		200	45	1		1623	1213
4-Chlorophenyl phenyl ether	ND		200	55	1		1623	1213
Chrysene	ND		200	65	1		1623	1213
Cresols, Total	ND		200	47	1		1623	1213
Dibenz(a,h)anthracene	ND		200	57	1		1623	1213
Dibenzofuran	ND		200	48	1		1623	1213
1,4-Dichlorobenzene	ND		200	41	1		1623	1213
1,3-Dichlorobenzene	ND		200	180	1		1623	1213
1,2-Dichlorobenzene	ND		200	45	1		1623	1213
3,3'-Dichlorobenzidine	ND		200	54	1		1623	1213
2,4-Dichlorophenol	ND		200	47	1		1623	1213
Diethyl phthalate	ND		200	52	1		1623	1213
Dimethyl phthalate	ND		200	47	1		1623	1213
2,4-Dimethylphenol	ND		200	48	1		1623	1213
4,6-Dinitro-2-methylphenol	ND		200	31	1		1623	1213
2,4-Dinitrophenol	ND		200	180	1		1623	1213
2,4-Dinitrotoluene	ND		200	59	1		1623	1213
2,6-Dinitrotoluene	ND		200	45	1		1623	1213
Diphenylamine	ND		400	120	1		1623	1213
1,2-Diphenylhydrazine	ND		200	38	1		1623	1213
bis(2-Ethylhexyl)phthalate	ND		200	41	1		1623	1213
Fluoranthene	ND		200	47	1		1623	1213
Fluorene	ND		200	46	1		1623	1213
Hexachlorobenzene	ND		200	49	1		1623	1213
Hexachlorobutadiene	ND		200	50	1		1623	1213
Hexachlorocyclopentadiene	ND		200	64	1		1623	1213



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ANALYTICAL RESULTS

Workorder: H10040326 : Wilmuth No. 1

Project Number:

Lab ID: **H10040326002**
Sample ID: **MW-4 (1.5-3.0 FT)**

Date/Time Received: 4/13/2010 09:30 Matrix: Soil
Date/Time Collected: 4/5/2010 11:50

Parameters	Results					Batch Information	
	ug/kg-dry	Qual	Report Limit	MDL	DF	RegLmt	Prep Analysis
Hexachloroethane	ND		200	45	1		1623 1213
Indeno(1,2,3-cd)pyrene	ND		200	71	1		1623 1213
Isophorone	ND		200	44	1		1623 1213
2-Methylnaphthalene	ND		200	51	1		1623 1213
3 & 4-Methylphenol	ND		200	56	1		1623 1213
2-Methylphenol (o-Cresol)	ND		200	47	1		1623 1213
Naphthalene	ND		200	45	1		1623 1213
4-Nitroaniline	ND		200	51	1		1623 1213
2-Nitroaniline	ND		200	41	1		1623 1213
3-Nitroaniline	ND		200	31	1		1623 1213
Nitrobenzene	ND		200	46	1		1623 1213
4-Nitrophenol	ND		200	34	1		1623 1213
2-Nitrophenol	ND		200	45	1		1623 1213
n-Nitrosodiphenylamine	ND		400	120	1		1623 1213
Pentachlorophenol	ND		200	46	1		1623 1213
Phenanthrene	ND		200	45	1		1623 1213
Phenol	ND		200	54	1		1623 1213
Pyrene	ND		200	48	1		1623 1213
Pyridine	ND		200	82	1		1623 1213
1,2,4-Trichlorobenzene	ND		200	180	1		1623 1213
2,4,6-Trichlorophenol	ND		200	47	1		1623 1213
2,4,5-Trichlorophenol	ND		200	55	1		1623 1213
Di-n-butyl phthalate	ND		200	61	1		1623 1213
n-Nitrosodi-n-propylamine	ND		200	48	1		1623 1213
n-Nitrosodimethylamine	ND		200	43	1		1623 1213
Di-n-octyl phthalate	ND		200	62	1		1623 1213
2-Fluorobiphenyl (S)	76.5 %		15-140		1		1623 1213
2-Fluorophenol (S)	86 %		15-122		1		1623 1213
Nitrobenzene-d5 (S)	76.7 %		10-134		1		1623 1213
Phenol-d6 (S)	93.1 %		10-123		1		1623 1213
Terphenyl-d14 (S)	87 %		18-166		1		1623 1213
2,4,6-Tribromophenol (S)	87.8 %		19-135		1		1623 1213

Analysis Desc: EPA 310.1

Preparation Batches:

Dry Weight Basis

Batch: 1426 Water Leachate on 04/16/2010 00:00 by ESK

Analytical Batches:

Batch: 2853 EPA 310.1 on 04/16/2010 16:30 by PAC

Parameters	Results					Batch Information	
	mg/kg-dry	Qual	Report Limit	MDL	DF	RegLmt	Prep Analysis



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ANALYTICAL RESULTS

Workorder: H10040326 : Wilmuth No. 1

Project Number:

Lab ID: H10040326002
Sample ID: MW-4 (1.5-3.0 FT)

Date/Time Received: 4/13/2010 09:30 Matrix: Soil
Date/Time Collected: 4/5/2010 11:50

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information	
	mg/kg-dry						Prep	Analysis
Alkalinity, total as CaCO3	564		24.0	8.05	1		1426	2853

WET CHEMISTRY

Analysis Desc: EPA 9045D

Analytical Batches:

Dry Weight Basis

Batch: 2371 EPA 9045D on 04/16/2010 14:00 by PAC

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information	
	SU						Prep	Analysis
pH	8.74				1			2371
Temperature (oC)	23 °C				1			2371

Analysis Desc: ASTM D2216

Analytical Batches:

Dry Weight Basis

Batch: 2863 ASTM D2216 on 04/20/2010 00:00 by EB1

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information	
	%						Prep	Analysis
Percent Moisture	16.6				1			2863

METALS

Analysis Desc: SW-846 7471A

Preparation Batches:

Dry Weight Basis

Batch: 1121 SW-846 7471A on 04/19/2010 11:25 by F_S

Analytical Batches:

Batch: 1111 SW-846 7471A on 04/19/2010 12:51 by R_V

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information	
	mg/kg-dry						Prep	Analysis
Mercury	ND		0.0360	0.00768	1		1121	1111

Gasoline Range Organics (GRO)

Analysis Desc: SW-846 8015B GRO Gas

Preparation Batches:

Dry Weight Basis

Batch: 1267 SW-846 8015B GRO Gas on 04/16/2010 14:51 by GCV

Analytical Batches:

Batch: 1268 SW-846 8015B GRO Gas on 04/16/2010 18:47 by WLV

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information	
	mg/kg-dry						Prep	Analysis
Gasoline Range Organics	ND		0.12	0.036	1		1267	1268
1,4-Difluorobenzene (S)	99.2 %		63-142		1		1267	1268



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ANALYTICAL RESULTS

Workorder: H10040326 : Wilmuth No. 1

Project Number:

Lab ID: H10040326002
Sample ID: MW-4 (1.5-3.0 FT)

Date/Time Received: 4/13/2010 09:30 Matrix: Soil
Date/Time Collected: 4/5/2010 11:50

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information	
	mg/kg-dry						Prep	Analysis
4-Bromofluorobenzene (S)	97 %		50-159		1		1267	1268



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ANALYTICAL RESULTS

Workorder: H10040326 : Wilmuth No. 1

Project Number:

Lab ID: H10040326003

Date/Time Received: 4/13/2010 09:30 Matrix: Soil

Sample ID: MW-4 (9-11 FT)

Date/Time Collected: 4/5/2010 16:00

WET CHEMISTRY

Analysis Desc: EPA 300.0

Preparation Batches:

Dry Weight Basis

Batch: 1432 Soil Leachage (IC) on 04/17/2010 00:00 by WETC

Analytical Batches:

Batch: 1255 EPA 300.0 on 04/17/2010 11:31 by CFS DF = 1.

Batch: 1255 EPA 300.0 on 04/17/2010 14:40 by CFS DF = 50.

Parameters	Results					Batch Information	
	mg/kg-dry	Qual	Report Limit	MDL	DF	RegLmt	Prep Analysis
Bromide	ND		6.23	0.396	1	1432	1255
Chloride	15.3		6.23	0.409	1	1432	1255
Fluoride	ND		6.23	0.339	1	1432	1255
Nitrogen, Nitrate (As N)	7.09	Q	6.23	0.336	1	1430	1254
Nitrogen, Nitrite (As N)	ND	Q	6.23	0.328	1	1430	1254
Orthophosphate (As P)	ND		6.23	0.402	1	1432	1255
Sulfate	5210		311	12.3	50	1432	1255

PHYSICAL PROPERTIES

Analysis Desc: EPA 120.1 (Water Extraction)

Analytical Batches:

Dry Weight Basis

Batch: 2846 EPA 120.1 (Water Extraction) on 04/16/2010 17:15 by PAC

Parameters	Results					Batch Information	
	umhos/cm @ 25C	Qual	Report Limit	MDL	DF	RegLmt	Prep Analysis
Specific Conductivity	6380	Q	100	6.47	1		2846

SEMIVOLATILE HYDROCARBONS

Analysis Desc: SW-846 8015B Fuels

Preparation Batches:

Dry Weight Basis

Batch: 1624 SW-846 3550B on 04/16/2010 16:21 by QMT

Analytical Batches:

Batch: 1428 SW-846 8015B Fuels on 04/19/2010 20:16 by NDW

Parameters	Results					Batch Information	
	mg/kg-dry	Qual	Report Limit	MDL	DF	RegLmt	Prep Analysis
Diesel Range Organics(C10-C28)	ND		6.2	1.3	1	1624	1428
n-Pentacosane (S)	103 %		20-154		1	1624	1428

ICP METALS



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ANALYTICAL RESULTS

Workorder: H10040326 : Wilmuth No. 1

Project Number:

Lab ID: H10040326003

Date/Time Received: 4/13/2010 09:30 Matrix: Soil

Sample ID: MW-4 (9-11 FT)

Date/Time Collected: 4/5/2010 16:00

Analysis Desc: SW-846 6010B	Preparation Batches:
Dry Weight Basis	Batch: 1671 SW-846 3050A on 04/18/2010 12:30 by R_V
	Analytical Batches:
	Batch: 1349 SW-846 6010B on 04/22/2010 09:24 by EBG DF = 1.
	Batch: 1357 SW-846 6010B on 04/22/2010 09:24 by EBG DF = 1.

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information	
	mg/kg-dry						Prep	Analysis
Aluminum	11500		12.5	5.99	1		1671	1357
Arsenic	3.95		0.623	0.213	1		1671	1349
Barium	104		0.623	0.0225	1		1671	1349
Boron	3.46		1.25	0.0666	1		1671	1357
Cadmium	ND		0.623	0.0209	1		1671	1349
Chromium	8.76		0.623	0.0827	1		1671	1349
Cobalt	4.52		0.623	0.0419	1		1671	1349
Copper	10.4		0.623	0.0980	1		1671	1349
Iron	12300		1.25	0.375	1		1671	1349
Lead	6.49		0.623	0.132	1		1671	1349
Manganese	231		0.623	0.0539	1		1671	1349
Molybdenum	ND		0.623	0.0435	1		1671	1349
Nickel	6.48		0.623	0.0498	1		1671	1349
Selenium	ND		0.623	0.247	1		1671	1349
Silver	ND		0.623	0.0772	1		1671	1349
Zinc	31.7		1.25	0.269	1		1671	1349

VOLATILES

Analysis Desc: SW-846 8260B	Preparation Batches:
Dry Weight Basis	Batch: 1764 SW-846 5030 on 04/16/2010 10:42 by TLE
	Analytical Batches:
	Batch: 1765 SW-846 8260B on 04/16/2010 16:03 by TLE

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information	
	ug/kg-dry						Prep	Analysis
2-Butanone	ND		25	8.3	1		1764	1765
Acetone	ND		120	13	1		1764	1765
Acrylonitrile	ND		62	6.2	1		1764	1765
Benzene	ND		6.2	0.98	1		1764	1765
Bromobenzene	ND		6.2	0.74	1		1764	1765
Bromochloromethane	ND		6.2	0.90	1		1764	1765
Bromodichloromethane	ND		6.2	0.78	1		1764	1765
Bromoform	ND		6.2	0.63	1		1764	1765



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ANALYTICAL RESULTS

Workorder: H10040326 : Wilmuth No. 1

Project Number:

Lab ID: H10040326003

Date/Time Received: 4/13/2010 09:30

Matrix: Soil

Sample ID: MW-4 (9-11 FT)

Date/Time Collected: 4/5/2010 16:00

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information	
	ug/kg-dry						Prep	Analysis
Bromomethane	ND		12	1.3	1		1764	1765
n-Butylbenzene	ND		6.2	1.3	1		1764	1765
sec-Butylbenzene	ND		6.2	1.1	1		1764	1765
tert-Butylbenzene	ND		6.2	1.2	1		1764	1765
Carbon disulfide	ND		6.2	1.0	1		1764	1765
Carbon tetrachloride	ND		6.2	0.97	1		1764	1765
Chlorobenzene	ND		6.2	0.90	1		1764	1765
Chloroethane	ND		12	1.4	1		1764	1765
2-Chloroethylvinyl ether	ND		12	1.5	1		1764	1765
Chloroform	ND		6.2	1.1	1		1764	1765
Chloromethane	ND		12	1.3	1		1764	1765
4-Chlorotoluene	ND		6.2	1.0	1		1764	1765
2-Chlorotoluene	ND		6.2	0.86	1		1764	1765
Dibromochloromethane	ND		6.2	0.67	1		1764	1765
1,2-Dibromo-3-chloropropane	ND		6.2	1.3	1		1764	1765
1,2-Dibromoethane	ND		6.2	0.74	1		1764	1765
Dibromomethane	ND		6.2	0.84	1		1764	1765
1,4-Dichlorobenzene	ND		6.2	1.1	1		1764	1765
1,3-Dichlorobenzene	ND		6.2	0.94	1		1764	1765
1,2-Dichlorobenzene	ND		6.2	0.87	1		1764	1765
Dichlorodifluoromethane	ND		12	1.1	1		1764	1765
1,2-Dichloroethane	ND		6.2	0.87	1		1764	1765
1,1-Dichloroethane	ND		6.2	1.3	1		1764	1765
1,2-Dichloroethene, Total	ND		6.2	1.1	1		1764	1765
1,1-Dichloroethene	ND		6.2	1.3	1		1764	1765
cis-1,2-Dichloroethene	ND		6.2	1.1	1		1764	1765
trans-1,2-Dichloroethene	ND		6.2	1.2	1		1764	1765
1,3-Dichloropropane	ND		6.2	0.95	1		1764	1765
2,2-Dichloropropane	ND		6.2	0.94	1		1764	1765
1,2-Dichloropropane	ND		6.2	0.66	1		1764	1765
cis-1,3-Dichloropropene	ND		6.2	0.73	1		1764	1765
trans-1,3-Dichloropropene	ND		6.2	0.64	1		1764	1765
1,1-Dichloropropene	ND		6.2	1.1	1		1764	1765
Ethylbenzene	ND		6.2	1.1	1		1764	1765
Hexachlorobutadiene	ND		6.2	1.5	1		1764	1765
2-Hexanone	ND		12	0.83	1		1764	1765
Isopropylbenzene (Cumene)	ND		6.2	1.3	1		1764	1765
4-Isopropyltoluene	ND		6.2	1.2	1		1764	1765
Methyl tert-Butyl Ether (MTBE)	ND		6.2	0.87	1		1764	1765
Methyl Isobutyl Ketone (MIBK)	ND		12	1.3	1		1764	1765



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ANALYTICAL RESULTS

Workorder: H10040326 : Wilmuth No. 1

Project Number:

Lab ID: H10040326003

Date/Time Received: 4/13/2010 09:30

Matrix: Soil

Sample ID: MW-4 (9-11 FT)

Date/Time Collected: 4/5/2010 16:00

Parameters	Results				DF	RegLmt	Batch Information	
	ug/kg-dry	Qual	Report Limit	MDL			Prep	Analysis
Methylene chloride	8.5		6.2	1.1	1		1764	1765
Naphthalene	ND		6.2	0.59	1		1764	1765
n-Propylbenzene	ND		6.2	1.0	1		1764	1765
Styrene	ND		6.2	0.90	1		1764	1765
1,1,1,2-Tetrachloroethane	ND		6.2	0.71	1		1764	1765
1,1,2,2-Tetrachloroethane	ND		6.2	0.75	1		1764	1765
Tetrachloroethene	ND		6.2	1.2	1		1764	1765
Toluene	ND		6.2	0.94	1		1764	1765
1,2,4-Trichlorobenzene	ND		6.2	0.78	1		1764	1765
1,2,3-Trichlorobenzene	ND		6.2	1.1	1		1764	1765
1,1,1-Trichloroethane	ND		6.2	1.1	1		1764	1765
1,1,2-Trichloroethane	ND		6.2	0.78	1		1764	1765
Trichloroethene	ND		6.2	1.2	1		1764	1765
Trichlorofluoromethane	ND		6.2	1.2	1		1764	1765
1,2,3-Trichloropropane	ND		6.2	1.0	1		1764	1765
1,3,5-Trimethylbenzene	ND		6.2	0.90	1		1764	1765
1,2,4-Trimethylbenzene	ND		6.2	1.1	1		1764	1765
Vinyl acetate	ND		12	1.1	1		1764	1765
Vinyl chloride	ND		12	1.6	1		1764	1765
m,p-Xylene	ND		6.2	2.1	1		1764	1765
o-Xylene	ND		6.2	0.94	1		1764	1765
Xylenes, Total	ND		6.2	0.94	1		1764	1765
4-Bromofluorobenzene (S)	83.6 %		62-130		1		1764	1765
1,2-Dichloroethane-d4 (S)	99.8 %		64-130		1		1764	1765
Toluene-d8 (S)	89.6 %		70-140		1		1764	1765

SEMIVOLATILES

Analysis Desc: SW-846 8270C

Preparation Batches:

Dry Weight Basis

Batch: 1623 SW-846 3550B on 04/16/2010 15:31 by QMT

Analytical Batches:

Batch: 1213 SW-846 8270C on 04/19/2010 18:14 by GEY

Parameters	Results				DF	RegLmt	Batch Information	
	ug/kg-dry	Qual	Report Limit	MDL			Prep	Analysis
Acenaphthene	ND		210	46	1		1623	1213
Acenaphthylene	ND		210	53	1		1623	1213
Aniline	ND		210	75	1		1623	1213
Anthracene	ND		210	45	1		1623	1213
Benzo(a)anthracene	ND		210	57	1		1623	1213
Benzo(a)pyrene	ND		210	71	1		1623	1213



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ANALYTICAL RESULTS

Workorder: H10040326 : Wilmuth No. 1

Project Number:

Lab ID: H10040326003

Date/Time Received: 4/13/2010 09:30

Matrix: Soil

Sample ID: MW-4 (9-11 FT)

Date/Time Collected: 4/5/2010 16:00

Parameters	Results			MDL	DF	RegLmt	Batch Information	
	ug/kg-dry	Qual	Report Limit				Prep	Analysis
Benzo(b)fluoranthene	ND		210	57	1		1623	1213
Benzo(g,h,i)perylene	ND		210	51	1		1623	1213
Benzo(k)fluoranthene	ND		210	66	1		1623	1213
Benzoic acid	ND		830	140	1		1623	1213
Benzyl alcohol	ND		210	60	1		1623	1213
4-Bromophenyl phenyl ether	ND		210	52	1		1623	1213
Butyl benzyl phthalate	ND		210	75	1		1623	1213
Carbazole	ND		210	44	1		1623	1213
4-Chloro-3-methylphenol	ND		210	59	1		1623	1213
4-Chloroaniline	ND		210	49	1		1623	1213
Bis(2-Chloroethoxy)methane	ND		210	82	1		1623	1213
Bis(2-Chloroethyl)ether	ND		210	52	1		1623	1213
bis(2-Chloroisopropyl)ether	ND		210	59	1		1623	1213
2-Chloronaphthalene	ND		210	47	1		1623	1213
2-Chlorophenol	ND		210	47	1		1623	1213
4-Chlorophenyl phenyl ether	ND		210	57	1		1623	1213
Chrysene	ND		210	68	1		1623	1213
Cresols, Total	ND		210	49	1		1623	1213
Dibenz(a,h)anthracene	ND		210	59	1		1623	1213
Dibenzofuran	ND		210	49	1		1623	1213
1,4-Dichlorobenzene	ND		210	43	1		1623	1213
1,3-Dichlorobenzene	ND		210	180	1		1623	1213
1,2-Dichlorobenzene	ND		210	46	1		1623	1213
3,3'-Dichlorobenzidine	ND		210	56	1		1623	1213
2,4-Dichlorophenol	ND		210	49	1		1623	1213
Diethyl phthalate	ND		210	54	1		1623	1213
Dimethyl phthalate	ND		210	49	1		1623	1213
2,4-Dimethylphenol	ND		210	50	1		1623	1213
4,6-Dinitro-2-methylphenol	ND		210	32	1		1623	1213
2,4-Dinitrophenol	ND		210	180	1		1623	1213
2,4-Dinitrotoluene	ND		210	61	1		1623	1213
2,6-Dinitrotoluene	ND		210	46	1		1623	1213
Diphenylamine	ND		410	120	1		1623	1213
1,2-Diphenylhydrazine	ND		210	40	1		1623	1213
bis(2-Ethylhexyl)phthalate	ND		210	43	1		1623	1213
Fluoranthene	ND		210	49	1		1623	1213
Fluorene	ND		210	48	1		1623	1213
Hexachlorobenzene	ND		210	51	1		1623	1213
Hexachlorobutadiene	ND		210	52	1		1623	1213
Hexachlorocyclopentadiene	ND		210	66	1		1623	1213



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ANALYTICAL RESULTS

Workorder: H10040326 : Wilmuth No. 1

Project Number:

Lab ID: H10040326003

Date/Time Received: 4/13/2010 09:30

Matrix: Soil

Sample ID: MW-4 (9-11 FT)

Date/Time Collected: 4/5/2010 16:00

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information	
	ug/kg-dry						Prep	Analysis
Hexachloroethane	ND		210	47	1		1623	1213
Indeno(1,2,3-cd)pyrene	ND		210	73	1		1623	1213
Isophorone	ND		210	46	1		1623	1213
2-Methylnaphthalene	ND		210	53	1		1623	1213
3 & 4-Methylphenol	ND		210	58	1		1623	1213
2-Methylphenol (o-Cresol)	ND		210	49	1		1623	1213
Naphthalene	ND		210	46	1		1623	1213
4-Nitroaniline	ND		210	53	1		1623	1213
2-Nitroaniline	ND		210	42	1		1623	1213
3-Nitroaniline	ND		210	32	1		1623	1213
Nitrobenzene	ND		210	48	1		1623	1213
4-Nitrophenol	ND		210	35	1		1623	1213
2-Nitrophenol	ND		210	47	1		1623	1213
n-Nitrosodiphenylamine	ND		410	120	1		1623	1213
Pentachlorophenol	ND		210	48	1		1623	1213
Phenanthrene	ND		210	46	1		1623	1213
Phenol	ND		210	56	1		1623	1213
Pyrene	ND		210	49	1		1623	1213
Pyridine	ND		210	85	1		1623	1213
1,2,4-Trichlorobenzene	ND		210	180	1		1623	1213
2,4,6-Trichlorophenol	ND		210	49	1		1623	1213
2,4,5-Trichlorophenol	ND		210	57	1		1623	1213
Di-n-butyl phthalate	ND		210	63	1		1623	1213
n-Nitrosodi-n-propylamine	ND		210	50	1		1623	1213
n-Nitrosodimethylamine	ND		210	45	1		1623	1213
Di-n-octyl phthalate	ND		210	65	1		1623	1213
2-Fluorobiphenyl (S)	71.6 %		15-140		1		1623	1213
2-Fluorophenol (S)	78 %		15-122		1		1623	1213
Nitrobenzene-d5 (S)	70.7 %		10-134		1		1623	1213
Phenol-d6 (S)	82.5 %		10-123		1		1623	1213
Terphenyl-d14 (S)	75.3 %		18-166		1		1623	1213
2,4,6-Tribromophenol (S)	74.1 %		19-135		1		1623	1213

Analysis Desc: EPA 310.1

Preparation Batches:

Dry Weight Basis

Batch: 1426 Water Leachate on 04/16/2010 00:00 by ESK

Analytical Batches:

Batch: 2853 EPA 310.1 on 04/16/2010 16:30 by PAC

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information	
	mg/kg-dry						Prep	Analysis



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ANALYTICAL RESULTS

Workorder: H10040326 : Wilmuth No. 1

Project Number:

Lab ID: H10040326003

Date/Time Received: 4/13/2010 09:30

Matrix: Soil

Sample ID: MW-4 (9-11 FT)

Date/Time Collected: 4/5/2010 16:00

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information	
	mg/kg-dry						Prep	Analysis
Alkalinity, total as CaCO3	137		24.9	8.36	1		1426	2853

WET CHEMISTRY

Analysis Desc: EPA 9045D

Analytical Batches:

Dry Weight Basis

Batch: 2371 EPA 9045D on 04/16/2010 14:00 by PAC

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information	
	SU						Prep	Analysis
pH	8.05				1			2371
Temperature (oC)	22 °C				1			2371

Analysis Desc: ASTM D2216

Analytical Batches:

Dry Weight Basis

Batch: 2863 ASTM D2216 on 04/20/2010 00:00 by EB1

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information	
	%						Prep	Analysis
Percent Moisture	19.7				1			2863

METALS

Analysis Desc: SW-846 7471A

Preparation Batches:

Dry Weight Basis

Batch: 1121 SW-846 7471A on 04/19/2010 11:25 by F_S

Analytical Batches:

Batch: 1111 SW-846 7471A on 04/19/2010 12:53 by R_V

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information	
	mg/kg-dry						Prep	Analysis
Mercury	ND		0.0374	0.00797	1		1121	1111

Gasoline Range Organics (GRO)

Analysis Desc: SW-846 8015B GRO Gas

Preparation Batches:

Dry Weight Basis

Batch: 1267 SW-846 8015B GRO Gas on 04/16/2010 14:51 by GCV

Analytical Batches:

Batch: 1268 SW-846 8015B GRO Gas on 04/16/2010 19:16 by WLV

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information	
	mg/kg-dry						Prep	Analysis
Gasoline Range Organics	ND		0.12	0.037	1		1267	1268
1,4-Difluorobenzene (S)	100 %		63-142		1		1267	1268



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ANALYTICAL RESULTS

Workorder: H10040326 : Wilmuth No. 1

Project Number:

Lab ID: H10040326003

Date/Time Received: 4/13/2010 09:30

Matrix: Soil

Sample ID: MW-4 (9-11 FT)

Date/Time Collected: 4/5/2010 16:00

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information	
	mg/kg-dry						Prep	Analysis
4-Bromofluorobenzene (S)	97.1 %		50-159		1		1267	1268



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ANALYTICAL RESULTS

Workorder: H10040326 : Wilmuth No. 1

Project Number:

Lab ID: H10040326004

Date/Time Received: 4/13/2010 09:30 Matrix: Soil

Sample ID: MW-1 (7-9 FT)

Date/Time Collected: 4/6/2010 08:25

WET CHEMISTRY

Analysis Desc: EPA 300.0

Preparation Batches:

Dry Weight Basis

Batch: 1432 Soil Leachage (IC) on 04/17/2010 00:00 by WETC

Analytical Batches:

Batch: 1255 EPA 300.0 on 04/17/2010 12:47 by CFS DF = 1

Batch: 1255 EPA 300.0 on 04/17/2010 16:05 by CFS DF = 20

Parameters	Results					Batch Information	
	mg/kg-dry	Qual	Report Limit	MDL	DF	RegLmt	Prep Analysis
Bromide	ND		6.62	0.421	1		1432 1255
Chloride	390		132	8.69	20		1432 1255
Fluoride	ND		6.62	0.360	1		1432 1255
Nitrogen, Nitrate (As N)	ND	Q	6.62	0.358	1		1430 1254
Nitrogen, Nitrite (As N)	ND	Q	6.62	0.348	1		1430 1254
Orthophosphate (As P)	ND		6.62	0.428	1		1432 1255
Sulfate	2190		132	5.22	20		1432 1255

PHYSICAL PROPERTIES

Analysis Desc: EPA 120.1 (Water Extraction)

Analytical Batches:

Dry Weight Basis

Batch: 2846 EPA 120.1 (Water Extraction) on 04/16/2010 17:15 by PAC

Parameters	Results					Batch Information	
	umhos/cm @ 25C	Qual	Report Limit	MDL	DF	RegLmt	Prep Analysis
Specific Conductivity	5200	Q	100	6.47	1		2846

SEMIVOLATILE HYDROCARBONS

Analysis Desc: SW-846 8015B Fuels

Preparation Batches:

Dry Weight Basis

Batch: 1624 SW-846 3550B on 04/16/2010 16:21 by QMT

Analytical Batches:

Batch: 1428 SW-846 8015B Fuels on 04/19/2010 20:36 by NDW

Parameters	Results					Batch Information	
	mg/kg-dry	Qual	Report Limit	MDL	DF	RegLmt	Prep Analysis
Diesel Range Organics(C10-C28)	ND		6.6	1.4	1		1624 1428
n-Pentacosane (S)	94.2 %		20-154		1		1624 1428

ICP METALS



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ANALYTICAL RESULTS

Workorder: H10040326 : Wilmuth No. 1

Project Number:

Lab ID: H10040326004

Date/Time Received: 4/13/2010 09:30 Matrix: Soil

Sample ID: MW-1 (7-9 FT)

Date/Time Collected: 4/6/2010 08:25

Analysis Desc: SW-846 6010B

Preparation Batches:

Dry Weight Basis

Batch: 1671 SW-846 3050A on 04/18/2010 12:30 by R_V

Analytical Batches:

Batch: 1349 SW-846 6010B on 04/22/2010 09:30 by EBG DF = 1.

Batch: 1357 SW-846 6010B on 04/22/2010 09:30 by EBG DF = 1.

Parameters	Results				DF	RegLmt	Batch Information	
	mg/kg-dry	Qual	Report Limit	MDL			Prep	Analysis
Aluminum	16600		13.2	6.37	1		1671	1357
Arsenic	5.81		0.662	0.226	1		1671	1349
Barium	209		0.662	0.0240	1		1671	1349
Boron	4.99		1.32	0.0709	1		1671	1357
Cadmium	ND		0.662	0.0223	1		1671	1349
Chromium	12.4		0.662	0.0879	1		1671	1349
Cobalt	7.38		0.662	0.0445	1		1671	1349
Copper	14.2		0.662	0.104	1		1671	1349
Iron	18200		1.32	0.399	1		1671	1349
Lead	9.80		0.662	0.140	1		1671	1349
Manganese	393		0.662	0.0574	1		1671	1349
Molybdenum	ND		0.662	0.0462	1		1671	1349
Nickel	9.51		0.662	0.0530	1		1671	1349
Selenium	ND		0.662	0.262	1		1671	1349
Silver	ND		0.662	0.0821	1		1671	1349
Zinc	45.4		1.32	0.286	1		1671	1349

VOLATILES

Analysis Desc: SW-846 8260B

Preparation Batches:

Dry Weight Basis

Batch: 1764 SW-846 5030 on 04/16/2010 10:43 by TLE

Analytical Batches:

Batch: 1765 SW-846 8260B on 04/16/2010 16:31 by TLE

Parameters	Results				DF	RegLmt	Batch Information	
	ug/kg-dry	Qual	Report Limit	MDL			Prep	Analysis
2-Butanone	ND		26	8.8	1		1764	1765
Acetone	ND		130	14	1		1764	1765
Acrylonitrile	ND		66	6.6	1		1764	1765
Benzene	ND		6.6	1.0	1		1764	1765
Bromobenzene	ND		6.6	0.79	1		1764	1765
Bromochloromethane	ND		6.6	0.96	1		1764	1765
Bromodichloromethane	ND		6.6	0.83	1		1764	1765
Bromoform	ND		6.6	0.67	1		1764	1765



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ANALYTICAL RESULTS

Workorder: H10040326 : Wilmuth No. 1

Project Number:

Lab ID: H10040326004

Date/Time Received: 4/13/2010 09:30

Matrix: Soil

Sample ID: MW-1 (7-9 FT)

Date/Time Collected: 4/6/2010 08:25

Parameters	Results			MDL	DF	RegLmt	Batch Information	
	ug/kg-dry	Qual	Report Limit				Prep	Analysis
Bromomethane	ND		13	1.4	1		1764	1765
n-Butylbenzene	ND		6.6	1.3	1		1764	1765
sec-Butylbenzene	ND		6.6	1.2	1		1764	1765
tert-Butylbenzene	ND		6.6	1.3	1		1764	1765
Carbon disulfide	ND		6.6	1.1	1		1764	1765
Carbon tetrachloride	ND		6.6	1.0	1		1764	1765
Chlorobenzene	ND		6.6	0.95	1		1764	1765
Chloroethane	ND		13	1.5	1		1764	1765
2-Chloroethylvinyl ether	ND		13	1.6	1		1764	1765
Chloroform	ND		6.6	1.1	1		1764	1765
Chloromethane	ND		13	1.4	1		1764	1765
4-Chlorotoluene	ND		6.6	1.1	1		1764	1765
2-Chlorotoluene	ND		6.6	0.91	1		1764	1765
Dibromochloromethane	ND		6.6	0.72	1		1764	1765
1,2-Dibromo-3-chloropropane	ND		6.6	1.4	1		1764	1765
1,2-Dibromoethane	ND		6.6	0.79	1		1764	1765
Dibromomethane	ND		6.6	0.89	1		1764	1765
1,4-Dichlorobenzene	ND		6.6	1.2	1		1764	1765
1,3-Dichlorobenzene	ND		6.6	1.0	1		1764	1765
1,2-Dichlorobenzene	ND		6.6	0.93	1		1764	1765
Dichlorodifluoromethane	ND		13	1.2	1		1764	1765
1,2-Dichloroethane	ND		6.6	0.92	1		1764	1765
1,1-Dichloroethane	ND		6.6	1.4	1		1764	1765
1,2-Dichloroethene, Total	ND		6.6	1.2	1		1764	1765
1,1-Dichloroethene	ND		6.6	1.4	1		1764	1765
cis-1,2-Dichloroethene	ND		6.6	1.2	1		1764	1765
trans-1,2-Dichloroethene	ND		6.6	1.3	1		1764	1765
1,3-Dichloropropane	ND		6.6	1.0	1		1764	1765
2,2-Dichloropropane	ND		6.6	1.0	1		1764	1765
1,2-Dichloropropane	ND		6.6	0.70	1		1764	1765
cis-1,3-Dichloropropene	ND		6.6	0.77	1		1764	1765
trans-1,3-Dichloropropene	ND		6.6	0.68	1		1764	1765
1,1-Dichloropropene	ND		6.6	1.1	1		1764	1765
Ethylbenzene	ND		6.6	1.1	1		1764	1765
Hexachlorobutadiene	ND		6.6	1.6	1		1764	1765
2-Hexanone	ND		13	0.88	1		1764	1765
Isopropylbenzene (Cumene)	ND		6.6	1.4	1		1764	1765
4-Isopropyltoluene	ND		6.6	1.2	1		1764	1765
Methyl tert-Butyl Ether (MTBE)	ND		6.6	0.93	1		1764	1765
Methyl Isobutyl Ketone (MIBK)	ND		13	1.4	1		1764	1765



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ANALYTICAL RESULTS

Workorder: H10040326 : Wilmuth No. 1

Project Number:

Lab ID: H10040326004

Date/Time Received: 4/13/2010 09:30 Matrix: Soil

Sample ID: MW-1 (7-9 FT)

Date/Time Collected: 4/6/2010 08:25

Parameters	Results					Batch Information	
	ug/kg-dry	Qual	Report Limit	MDL	DF	RegLmt	Prep Analysis
Methylene chloride	9.0		6.6	1.2	1		1764 1765
Naphthalene	ND		6.6	0.62	1		1764 1765
n-Propylbenzene	ND		6.6	1.1	1		1764 1765
Styrene	ND		6.6	0.95	1		1764 1765
1,1,1,2-Tetrachloroethane	ND		6.6	0.75	1		1764 1765
1,1,2,2-Tetrachloroethane	ND		6.6	0.80	1		1764 1765
Tetrachloroethene	ND		6.6	1.3	1		1764 1765
Toluene	ND		6.6	1.0	1		1764 1765
1,2,4-Trichlorobenzene	ND		6.6	0.83	1		1764 1765
1,2,3-Trichlorobenzene	ND		6.6	1.2	1		1764 1765
1,1,1-Trichloroethane	ND		6.6	1.2	1		1764 1765
1,1,2-Trichloroethane	ND		6.6	0.83	1		1764 1765
Trichloroethene	ND		6.6	1.2	1		1764 1765
Trichlorofluoromethane	ND		6.6	1.3	1		1764 1765
1,2,3-Trichloropropane	ND		6.6	1.1	1		1764 1765
1,3,5-Trimethylbenzene	ND		6.6	0.96	1		1764 1765
1,2,4-Trimethylbenzene	ND		6.6	1.2	1		1764 1765
Vinyl acetate	ND		13	1.1	1		1764 1765
Vinyl chloride	ND		13	1.7	1		1764 1765
m,p-Xylene	ND		6.6	2.2	1		1764 1765
o-Xylene	ND		6.6	1.0	1		1764 1765
Xylenes, Total	ND		6.6	1.0	1		1764 1765
4-Bromofluorobenzene (S)	79.2 %		62-130		1		1764 1765
1,2-Dichloroethane-d4 (S)	101 %		64-130		1		1764 1765
Toluene-d8 (S)	91.2 %		70-140		1		1764 1765

SEMIVOLATILES

Analysis Desc: SW-846 8270C

Preparation Batches:

Dry Weight Basis

Batch: 1623 SW-846 3550B on 04/16/2010 15:31 by QMT

Analytical Batches:

Batch: 1213 SW-846 8270C on 04/19/2010 18:46 by GEY

Parameters	Results					Batch Information	
	ug/kg-dry	Qual	Report Limit	MDL	DF	RegLmt	Prep Analysis
Acenaphthene	ND		220	49	1		1623 1213
Acenaphthylene	ND		220	56	1		1623 1213
Aniline	ND		220	80	1		1623 1213
Anthracene	ND		220	48	1		1623 1213
Benzo(a)anthracene	ND		220	61	1		1623 1213
Benzo(a)pyrene	ND		220	75	1		1623 1213

Report ID: H10040326_6125

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ANALYTICAL RESULTS

Workorder: H10040326 : Wilmuth No. 1

Project Number:

Lab ID: H10040326004

Date/Time Received: 4/13/2010 09:30

Matrix: Soil

Sample ID: MW-1 (7-9 FT)

Date/Time Collected: 4/6/2010 08:25

Parameters	Results					Batch Information	
	ug/kg-dry	Qual	Report Limit	MDL	DF	RegLmt	Prep Analysis
Benzo(b)fluoranthene	ND		220	60	1	1623	1213
Benzo(g,h,i)perylene	ND		220	55	1	1623	1213
Benzo(k)fluoranthene	ND		220	71	1	1623	1213
Benzoic acid	ND		880	150	1	1623	1213
Benzyl alcohol	ND		220	64	1	1623	1213
4-Bromophenyl phenyl ether	ND		220	56	1	1623	1213
Butyl benzyl phthalate	ND		220	80	1	1623	1213
Carbazole	ND		220	46	1	1623	1213
4-Chloro-3-methylphenol	ND		220	63	1	1623	1213
4-Chloroaniline	ND		220	52	1	1623	1213
Bis(2-Chloroethoxy)methane	ND		220	88	1	1623	1213
Bis(2-Chloroethyl)ether	ND		220	55	1	1623	1213
bis(2-Chloroisopropyl)ether	ND		220	62	1	1623	1213
2-Chloronaphthalene	ND		220	50	1	1623	1213
2-Chlorophenol	ND		220	50	1	1623	1213
4-Chlorophenyl phenyl ether	ND		220	61	1	1623	1213
Chrysene	ND		220	72	1	1623	1213
Cresols, Total	ND		220	52	1	1623	1213
Dibenz(a,h)anthracene	ND		220	62	1	1623	1213
Dibenzofuran	ND		220	52	1	1623	1213
1,4-Dichlorobenzene	ND		220	46	1	1623	1213
1,3-Dichlorobenzene	ND		220	190	1	1623	1213
1,2-Dichlorobenzene	ND		220	49	1	1623	1213
3,3'-Dichlorobenzidine	ND		220	59	1	1623	1213
2,4-Dichlorophenol	ND		220	52	1	1623	1213
Diethyl phthalate	ND		220	57	1	1623	1213
Dimethyl phthalate	ND		220	52	1	1623	1213
2,4-Dimethylphenol	ND		220	53	1	1623	1213
4,6-Dinitro-2-methylphenol	ND		220	34	1	1623	1213
2,4-Dinitrophenol	ND		220	190	1	1623	1213
2,4-Dinitrotoluene	ND		220	65	1	1623	1213
2,6-Dinitrotoluene	ND		220	49	1	1623	1213
Diphenylamine	ND		440	130	1	1623	1213
1,2-Diphenylhydrazine	ND		220	42	1	1623	1213
bis(2-Ethylhexyl)phthalate	ND		220	45	1	1623	1213
Fluoranthene	ND		220	52	1	1623	1213
Fluorene	ND		220	51	1	1623	1213
Hexachlorobenzene	ND		220	54	1	1623	1213
Hexachlorobutadiene	ND		220	56	1	1623	1213
Hexachlorocyclopentadiene	ND		220	70	1	1623	1213



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ANALYTICAL RESULTS

Workorder: H10040326 : Wilmuth No. 1

Project Number:

Lab ID: H10040326004

Date/Time Received: 4/13/2010 09:30

Matrix: Soil

Sample ID: MW-1 (7-9 FT)

Date/Time Collected: 4/6/2010 08:25

Parameters	Results			MDL	DF	RegLmt	Batch Information	
	ug/kg-dry	Qual	Report Limit				Prep	Analysis
Hexachloroethane	ND		220	50	1		1623	1213
Indeno(1,2,3-cd)pyrene	ND		220	78	1		1623	1213
Isophorone	ND		220	49	1		1623	1213
2-Methylnaphthalene	ND		220	57	1		1623	1213
3 & 4-Methylphenol	ND		220	61	1		1623	1213
2-Methylphenol (o-Cresol)	ND		220	52	1		1623	1213
Naphthalene	ND		220	49	1		1623	1213
4-Nitroaniline	ND		220	56	1		1623	1213
2-Nitroaniline	ND		220	45	1		1623	1213
3-Nitroaniline	ND		220	34	1		1623	1213
Nitrobenzene	ND		220	51	1		1623	1213
4-Nitrophenol	ND		220	37	1		1623	1213
2-Nitrophenol	ND		220	50	1		1623	1213
n-Nitrosodiphenylamine	ND		440	130	1		1623	1213
Pentachlorophenol	ND		220	51	1		1623	1213
Phenanthrene	ND		220	49	1		1623	1213
Phenol	ND		220	59	1		1623	1213
Pyrene	ND		220	53	1		1623	1213
Pyridine	ND		220	91	1		1623	1213
1,2,4-Trichlorobenzene	ND		220	190	1		1623	1213
2,4,6-Trichlorophenol	ND		220	52	1		1623	1213
2,4,5-Trichlorophenol	ND		220	61	1		1623	1213
Di-n-butyl phthalate	ND		220	67	1		1623	1213
n-Nitrosodi-n-propylamine	ND		220	53	1		1623	1213
n-Nitrosodimethylamine	ND		220	48	1		1623	1213
Di-n-octyl phthalate	ND		220	69	1		1623	1213
2-Fluorobiphenyl (S)	87.3 %		15-140		1		1623	1213
2-Fluorophenol (S)	97.2 %		15-122		1		1623	1213
Nitrobenzene-d5 (S)	87 %		10-134		1		1623	1213
Phenol-d6 (S)	104 %		10-123		1		1623	1213
Terphenyl-d14 (S)	90.7 %		18-166		1		1623	1213
2,4,6-Tribromophenol (S)	93.5 %		19-135		1		1623	1213

Analysis Desc: EPA 310.1

Preparation Batches:

Dry Weight Basis

Batch: 1426 Water Leachate on 04/16/2010 00:00 by ESK

Analytical Batches:

Batch: 2853 EPA 310.1 on 04/16/2010 16:30 by PAC

Parameters	Results			MDL	DF	RegLmt	Batch Information	
	mg/kg-dry	Qual	Report Limit				Prep	Analysis



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ANALYTICAL RESULTS

Workorder: H10040326 : Wilmuth No. 1

Project Number:

Lab ID: H10040326004

Date/Time Received: 4/13/2010 09:30

Matrix: Soil

Sample ID: MW-1 (7-9 FT)

Date/Time Collected: 4/6/2010 08:25

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information	
	mg/kg-dry						Prep	Analysis
Alkalinity, total as CaCO3	185		26.5	8.89	1		1426	2853

WET CHEMISTRY

Analysis Desc: EPA 9045D

Analytical Batches:

Dry Weight Basis

Batch: 2371 EPA 9045D on 04/16/2010 14:00 by PAC

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information	
	SU						Prep	Analysis
pH	7.52				1			2371
Temperature (oC)	23 °C				1			2371

Analysis Desc: ASTM D2216

Analytical Batches:

Dry Weight Basis

Batch: 2863 ASTM D2216 on 04/20/2010 00:00 by EB1

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information	
	%						Prep	Analysis
Percent Moisture	24.5				1			2863

METALS

Analysis Desc: SW-846 7471A

Preparation Batches:

Dry Weight Basis

Batch: 1121 SW-846 7471A on 04/19/2010 11:25 by F_S

Analytical Batches:

Batch: 1111 SW-846 7471A on 04/19/2010 12:56 by R_V

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information	
	mg/kg-dry						Prep	Analysis
Mercury	ND		0.0397	0.00848	1		1121	1111

Gasoline Range Organics (GRO)

Analysis Desc: SW-846 8015B GRO Gas

Preparation Batches:

Dry Weight Basis

Batch: 1267 SW-846 8015B GRO Gas on 04/16/2010 14:51 by GCV

Analytical Batches:

Batch: 1268 SW-846 8015B GRO Gas on 04/16/2010 19:46 by WLV

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information	
	mg/kg-dry						Prep	Analysis
Gasoline Range Organics	ND		0.13	0.040	1		1267	1268
1,4-Difluorobenzene (S)	74 %		63-142		1		1267	1268



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ANALYTICAL RESULTS

Workorder: H10040326 : Wilmuth No. 1

Project Number:

Lab ID: **H10040326004**

Date/Time Received: 4/13/2010 09:30

Matrix: Soil

Sample ID: **MW-1 (7-9 FT)**

Date/Time Collected: 4/6/2010 08:25

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information	
	mg/kg-dry						Prep	Analysis
4-Bromofluorobenzene (S)	73.5 %		50-159		1		1267	1268



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ANALYTICAL RESULTS

Workorder: H10040326 : Wilmuth No. 1

Project Number:

Lab ID: H10040326005
Sample ID: MW-1 (11-13 FT)

Date/Time Received: 4/13/2010 09:30 Matrix: Soil
Date/Time Collected: 4/6/2010 08:35

WET CHEMISTRY

Analysis Desc: EPA 300.0

Preparation Batches:

Dry Weight Basis

Batch: 1432 Soil Leachage (IC) on 04/17/2010 00:00 by WETC

Analytical Batches:

Batch: 1255 EPA 300.0 on 04/17/2010 13:05 by CFS DF = 1

Batch: 1255 EPA 300.0 on 04/17/2010 16:24 by CFS DF = 50

Parameters	Results			Report Limit	MDL	DF	RegLmt	Batch Information	
	mg/kg-dry	Qual						Prep	Analysis
Bromide	ND			6.20	0.395	1		1432	1255
Chloride	25.5			6.20	0.407	1		1432	1255
Fluoride	ND			6.20	0.338	1		1432	1255
Nitrogen, Nitrate (As N)	ND	Q		6.20	0.335	1		1430	1254
Nitrogen, Nitrite (As N)	ND	Q		6.20	0.326	1		1430	1254
Orthophosphate (As P)	ND			6.20	0.401	1		1432	1255
Sulfate	4070			310	12.2	50		1432	1255

PHYSICAL PROPERTIES

Analysis Desc: EPA 120.1 (Water Extraction)

Analytical Batches:

Dry Weight Basis

Batch: 2846 EPA 120.1 (Water Extraction) on 04/16/2010 17:15 by PAC

Parameters	Results			Report Limit	MDL	DF	RegLmt	Batch Information	
	umhos/cm @ 25C	Qual						Prep	Analysis
Specific Conductivity	5920	Q		100	6.47	1			2846

SEMIVOLATILE HYDROCARBONS

Analysis Desc: SW-846 8015B Fuels

Preparation Batches:

Dry Weight Basis

Batch: 1624 SW-846 3550B on 04/16/2010 16:21 by QMT

Analytical Batches:

Batch: 1428 SW-846 8015B Fuels on 04/19/2010 20:57 by NDW

Parameters	Results			Report Limit	MDL	DF	RegLmt	Batch Information	
	mg/kg-dry	Qual						Prep	Analysis
Diesel Range Organics(C10-C28)	ND			6.2	1.3	1		1624	1428
n-Pentacosane (S)	82.1 %			20-154		1		1624	1428

ICP METALS



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ANALYTICAL RESULTS

Workorder: H10040326 : Wilmuth No. 1

Project Number:

Lab ID: **H10040326005**
Sample ID: **MW-1 (11-13 FT)**

Date/Time Received: 4/13/2010 09:30 Matrix: Soil
Date/Time Collected: 4/6/2010 08:35

Analysis Desc: SW-846 6010B

Preparation Batches:

Dry Weight Basis

Batch: 1671 SW-846 3050A on 04/18/2010 12:30 by R_V

Analytical Batches:

Batch: 1349 SW-846 6010B on 04/22/2010 09:35 by EBG DF = 1

Batch: 1357 SW-846 6010B on 04/22/2010 09:35 by EBG DF = 1

Parameters	Results			MDL	DF	RegLmt	Batch Information	
	mg/kg-dry	Qual	Report Limit				Prep	Analysis
Aluminum	17700		12.4	5.97	1		1671	1357
Arsenic	5.84		0.620	0.212	1		1671	1349
Barium	138		0.620	0.0225	1		1671	1349
Boron	3.82		1.24	0.0664	1		1671	1357
Cadmium	ND		0.620	0.0208	1		1671	1349
Chromium	12.4		0.620	0.0824	1		1671	1349
Cobalt	7.25		0.620	0.0417	1		1671	1349
Copper	14.8		0.620	0.0977	1		1671	1349
Iron	17900		1.24	0.373	1		1671	1349
Lead	10.1		0.620	0.132	1		1671	1349
Manganese	455		0.620	0.0537	1		1671	1349
Molybdenum	ND		0.620	0.0433	1		1671	1349
Nickel	9.43		0.620	0.0496	1		1671	1349
Selenium	ND		0.620	0.246	1		1671	1349
Silver	ND		0.620	0.0769	1		1671	1349
Zinc	46.3		1.24	0.268	1		1671	1349

VOLATILES

Analysis Desc: SW-846 8260B

Preparation Batches:

Dry Weight Basis

Batch: 1764 SW-846 5030 on 04/16/2010 10:43 by TLE

Analytical Batches:

Batch: 1765 SW-846 8260B on 04/16/2010 16:56 by TLE

Parameters	Results			MDL	DF	RegLmt	Batch Information	
	ug/kg-dry	Qual	Report Limit				Prep	Analysis
2-Butanone	ND		25	8.3	1		1764	1765
Acetone	ND		120	13	1		1764	1765
Acrylonitrile	ND		62	6.2	1		1764	1765
Benzene	ND		6.2	0.97	1		1764	1765
Bromobenzene	ND		6.2	0.74	1		1764	1765
Bromochloromethane	ND		6.2	0.90	1		1764	1765
Bromodichloromethane	ND		6.2	0.77	1		1764	1765
Bromoform	ND		6.2	0.63	1		1764	1765



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ANALYTICAL RESULTS

Workorder: H10040326 : Wilmuth No. 1

Project Number:

Lab ID: H10040326005
Sample ID: MW-1 (11-13 FT)

Date/Time Received: 4/13/2010 09:30 Matrix: Soil
Date/Time Collected: 4/6/2010 08:35

Parameters	Results					Batch Information	
	ug/kg-dry	Qual	Report Limit	MDL	DF	RegLmt	Prep Analysis
Bromomethane	ND		12	1.3	1	1764	1765
n-Butylbenzene	ND		6.2	1.3	1	1764	1765
sec-Butylbenzene	ND		6.2	1.1	1	1764	1765
tert-Butylbenzene	ND		6.2	1.2	1	1764	1765
Carbon disulfide	ND		6.2	1.0	1	1764	1765
Carbon tetrachloride	ND		6.2	0.97	1	1764	1765
Chlorobenzene	ND		6.2	0.89	1	1764	1765
Chloroethane	ND		12	1.4	1	1764	1765
2-Chloroethylvinyl ether	ND		12	1.5	1	1764	1765
Chloroform	ND		6.2	1.0	1	1764	1765
Chloromethane	ND		12	1.3	1	1764	1765
4-Chlorotoluene	ND		6.2	1.0	1	1764	1765
2-Chlorotoluene	ND		6.2	0.85	1	1764	1765
Dibromochloromethane	ND		6.2	0.67	1	1764	1765
1,2-Dibromo-3-chloropropane	ND		6.2	1.3	1	1764	1765
1,2-Dibromoethane	ND		6.2	0.74	1	1764	1765
Dibromomethane	ND		6.2	0.84	1	1764	1765
1,4-Dichlorobenzene	ND		6.2	1.1	1	1764	1765
1,3-Dichlorobenzene	ND		6.2	0.94	1	1764	1765
1,2-Dichlorobenzene	ND		6.2	0.87	1	1764	1765
Dichlorodifluoromethane	ND		12	1.1	1	1764	1765
1,2-Dichloroethane	ND		6.2	0.86	1	1764	1765
1,1-Dichloroethane	ND		6.2	1.3	1	1764	1765
1,2-Dichloroethene, Total	ND		6.2	1.1	1	1764	1765
1,1-Dichloroethene	ND		6.2	1.3	1	1764	1765
cis-1,2-Dichloroethene	ND		6.2	1.1	1	1764	1765
trans-1,2-Dichloroethene	ND		6.2	1.2	1	1764	1765
1,3-Dichloropropane	ND		6.2	0.95	1	1764	1765
2,2-Dichloropropane	ND		6.2	0.94	1	1764	1765
1,2-Dichloropropane	ND		6.2	0.65	1	1764	1765
cis-1,3-Dichloropropene	ND		6.2	0.73	1	1764	1765
trans-1,3-Dichloropropene	ND		6.2	0.64	1	1764	1765
1,1-Dichloropropene	ND		6.2	1.1	1	1764	1765
Ethylbenzene	ND		6.2	1.0	1	1764	1765
Hexachlorobutadiene	ND		6.2	1.5	1	1764	1765
2-Hexanone	ND		12	0.82	1	1764	1765
Isopropylbenzene (Cumene)	ND		6.2	1.3	1	1764	1765
4-Isopropyltoluene	ND		6.2	1.2	1	1764	1765
Methyl tert-Butyl Ether (MTBE)	ND		6.2	0.87	1	1764	1765
Methyl Isobutyl Ketone (MIBK)	ND		12	1.3	1	1764	1765



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ANALYTICAL RESULTS

Workorder: H10040326 : Wilmuth No. 1

Project Number:

Lab ID: **H10040326005**
Sample ID: **MW-1 (11-13 FT)**

Date/Time Received: 4/13/2010 09:30 Matrix: Soil
Date/Time Collected: 4/6/2010 08:35

Parameters	Results					Batch Information	
	ug/kg-dry	Qual	Report Limit	MDL	DF	RegLmt	Prep Analysis
Methylene chloride	7.5		6.2	1.1	1		1764 1765
Naphthalene	ND		6.2	0.58	1		1764 1765
n-Propylbenzene	ND		6.2	1.0	1		1764 1765
Styrene	ND		6.2	0.89	1		1764 1765
1,1,1,2-Tetrachloroethane	ND		6.2	0.71	1		1764 1765
1,1,2,2-Tetrachloroethane	ND		6.2	0.75	1		1764 1765
Tetrachloroethene	ND		6.2	1.2	1		1764 1765
Toluene	ND		6.2	0.94	1		1764 1765
1,2,4-Trichlorobenzene	ND		6.2	0.77	1		1764 1765
1,2,3-Trichlorobenzene	ND		6.2	1.1	1		1764 1765
1,1,1-Trichloroethane	ND		6.2	1.1	1		1764 1765
1,1,2-Trichloroethane	ND		6.2	0.77	1		1764 1765
Trichloroethene	ND		6.2	1.2	1		1764 1765
Trichlorofluoromethane	ND		6.2	1.2	1		1764 1765
1,2,3-Trichloropropane	ND		6.2	1.0	1		1764 1765
1,3,5-Trimethylbenzene	ND		6.2	0.90	1		1764 1765
1,2,4-Trimethylbenzene	ND		6.2	1.1	1		1764 1765
Vinyl acetate	ND		12	1.1	1		1764 1765
Vinyl chloride	ND		12	1.6	1		1764 1765
m,p-Xylene	ND		6.2	2.0	1		1764 1765
o-Xylene	ND		6.2	0.94	1		1764 1765
Xylenes, Total	ND		6.2	0.94	1		1764 1765
4-Bromofluorobenzene (S)	76.8 %		62-130		1		1764 1765
1,2-Dichloroethane-d4 (S)	102 %		64-130		1		1764 1765
Toluene-d8 (S)	93 %		70-140		1		1764 1765

SEMIVOLATILES

Analysis Desc: SW-846 8270C

Preparation Batches:

Dry Weight Basis

Batch: 1623 SW-846 3550E on 04/16/2010 15:31 by QMT

Analytical Batches:

Batch: 1213 SW-846 8270C on 04/19/2010 19:18 by GEY

Parameters	Results					Batch Information	
	ug/kg-dry	Qual	Report Limit	MDL	DF	RegLmt	Prep Analysis
Acenaphthene	ND		210	46	1		1623 1213
Acenaphthylene	ND		210	53	1		1623 1213
Aniline	ND		210	75	1		1623 1213
Anthracene	ND		210	45	1		1623 1213
Benzo(a)anthracene	ND		210	57	1		1623 1213
Benzo(a)pyrene	ND		210	70	1		1623 1213



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ANALYTICAL RESULTS

Workorder: H10040326 : Wilmuth No. 1

Project Number:

Lab ID: H10040326005
Sample ID: MW-1 (11-13 FT)

Date/Time Received: 4/13/2010 09:30 Matrix: Soil
Date/Time Collected: 4/6/2010 08:35

Parameters	Results				DF	RegLmt	Batch Information	
	ug/kg-dry	Qual	Report Limit	MDL			Prep	Analysis
Benzo(b)fluoranthene	ND		210	56	1		1623	1213
Benzo(g,h,i)perylene	ND		210	51	1		1623	1213
Benzo(k)fluoranthene	ND		210	66	1		1623	1213
Benzoic acid	ND		830	140	1		1623	1213
Benzyl alcohol	ND		210	60	1		1623	1213
4-Bromophenyl phenyl ether	ND		210	52	1		1623	1213
Butyl benzyl phthalate	ND		210	75	1		1623	1213
Carbazole	ND		210	43	1		1623	1213
4-Chloro-3-methylphenol	ND		210	59	1		1623	1213
4-Chloroaniline	ND		210	49	1		1623	1213
Bis(2-Chloroethoxy)methane	ND		210	82	1		1623	1213
Bis(2-Chloroethyl)ether	ND		210	52	1		1623	1213
bis(2-Chloroisopropyl)ether	ND		210	58	1		1623	1213
2-Chloronaphthalene	ND		210	47	1		1623	1213
2-Chlorophenol	ND		210	47	1		1623	1213
4-Chlorophenyl phenyl ether	ND		210	57	1		1623	1213
Chrysene	ND		210	68	1		1623	1213
Cresols, Total	ND		210	49	1		1623	1213
Dibenz(a,h)anthracene	ND		210	58	1		1623	1213
Dibenzofuran	ND		210	49	1		1623	1213
1,4-Dichlorobenzene	ND		210	43	1		1623	1213
1,3-Dichlorobenzene	ND		210	180	1		1623	1213
1,2-Dichlorobenzene	ND		210	46	1		1623	1213
3,3'-Dichlorobenzidine	ND		210	55	1		1623	1213
2,4-Dichlorophenol	ND		210	48	1		1623	1213
Diethyl phthalate	ND		210	54	1		1623	1213
Dimethyl phthalate	ND		210	49	1		1623	1213
2,4-Dimethylphenol	ND		210	50	1		1623	1213
4,6-Dinitro-2-methylphenol	ND		210	32	1		1623	1213
2,4-Dinitrophenol	ND		210	180	1		1623	1213
2,4-Dinitrotoluene	ND		210	61	1		1623	1213
2,6-Dinitrotoluene	ND		210	46	1		1623	1213
Diphenylamine	ND		410	120	1		1623	1213
1,2-Diphenylhydrazine	ND		210	40	1		1623	1213
bis(2-Ethylhexyl)phthalate	ND		210	42	1		1623	1213
Fluoranthene	ND		210	48	1		1623	1213
Fluorene	ND		210	48	1		1623	1213
Hexachlorobenzene	ND		210	51	1		1623	1213
Hexachlorobutadiene	ND		210	52	1		1623	1213
Hexachlorocyclopentadiene	ND		210	66	1		1623	1213



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ANALYTICAL RESULTS

Workorder: H10040326 : Wilmuth No. 1

Project Number:

Lab ID: **H10040326005**
Sample ID: **MW-1 (11-13 FT)**

Date/Time Received: 4/13/2010 09:30 Matrix: Soil
Date/Time Collected: 4/6/2010 08:35

Parameters	Results			MDL	DF	RegLmt	Batch Information	
	ug/kg-dry	Qual	Report Limit				Prep	Analysis
Hexachloroethane	ND		210	47	1		1623	1213
Indeno(1,2,3-cd)pyrene	ND		210	73	1		1623	1213
Isophorone	ND		210	46	1		1623	1213
2-Methylnaphthalene	ND		210	53	1		1623	1213
3 & 4-Methylphenol	ND		210	57	1		1623	1213
2-Methylphenol (o-Cresol)	ND		210	49	1		1623	1213
Naphthalene	ND		210	46	1		1623	1213
4-Nitroaniline	ND		210	53	1		1623	1213
2-Nitroaniline	ND		210	42	1		1623	1213
3-Nitroaniline	ND		210	32	1		1623	1213
Nitrobenzene	ND		210	48	1		1623	1213
4-Nitrophenol	ND		210	35	1		1623	1213
2-Nitrophenol	ND		210	47	1		1623	1213
n-Nitrosodiphenylamine	ND		410	120	1		1623	1213
Pentachlorophenol	ND		210	48	1		1623	1213
Phenanthrene	ND		210	46	1		1623	1213
Phenol	ND		210	55	1		1623	1213
Pyrene	ND		210	49	1		1623	1213
Pyridine	ND		210	85	1		1623	1213
1,2,4-Trichlorobenzene	ND		210	180	1		1623	1213
2,4,6-Trichlorophenol	ND		210	49	1		1623	1213
2,4,5-Trichlorophenol	ND		210	57	1		1623	1213
Di-n-butyl phthalate	ND		210	63	1		1623	1213
n-Nitrosodi-n-propylamine	ND		210	50	1		1623	1213
n-Nitrosodimethylamine	ND		210	45	1		1623	1213
Di-n-octyl phthalate	ND		210	64	1		1623	1213
2-Fluorobiphenyl (S)	86.3 %		15-140		1		1623	1213
2-Fluorophenol (S)	92.8 %		15-122		1		1623	1213
Nitrobenzene-d5 (S)	82.1 %		10-134		1		1623	1213
Phenol-d6 (S)	102 %		10-123		1		1623	1213
Terphenyl-d14 (S)	98.3 %		18-166		1		1623	1213
2,4,6-Tribromophenol (S)	96.3 %		19-135		1		1623	1213

Analysis Desc: EPA 310.1

Preparation Batches:

Dry Weight Basis

Batch: 1426 Water Leachate on 04/16/2010 00:00 by ESK

Analytical Batches:

Batch: 2853 EPA 310.1 on 04/16/2010 16:30 by PAC

Parameters	Results			MDL	DF	RegLmt	Batch Information	
	mg/kg-dry	Qual	Report Limit				Prep	Analysis



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ANALYTICAL RESULTS

Workorder: H10040326 : Wilmuth No. 1

Project Number:

Lab ID: H10040326005

Date/Time Received: 4/13/2010 09:30

Matrix: Soil

Sample ID: MW-1 (11-13 FT)

Date/Time Collected: 4/6/2010 08:35

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information	
	mg/kg-dry						Prep	Analysis
Alkalinity, total as CaCO3	99.3		24.8	8.33	1		1426	2853

WET CHEMISTRY

Analysis Desc: EPA 9045D

Analytical Batches:

Dry Weight Basis

Batch: 2371 EPA 9045D on 04/16/2010 14:00 by PAC

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information	
	SU						Prep	Analysis
pH	7.18				1			2371
Temperature (oC)	22 °C				1			2371

Analysis Desc: ASTM D2216

Analytical Batches:

Dry Weight Basis

Batch: 2863 ASTM D2216 on 04/20/2010 00:00 by EB1

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information	
	%						Prep	Analysis
Percent Moisture	19.4				1			2863

METALS

Analysis Desc: SW-846 7471A

Preparation Batches:

Dry Weight Basis

Batch: 1121 SW-846 7471A on 04/19/2010 11:25 by F_S

Analytical Batches:

Batch: 1111 SW-846 7471A on 04/19/2010 12:58 by R_V

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information	
	mg/kg-dry						Prep	Analysis
Mercury	ND		0.0372	0.00794	1		1121	1111

Gasoline Range Organics (GRO)

Analysis Desc: SW-846 8015B GRO Gas

Preparation Batches:

Dry Weight Basis

Batch: 1267 SW-846 8015B GRO Gas on 04/16/2010 14:51 by GCV

Analytical Batches:

Batch: 1268 SW-846 8015B GRO Gas on 04/16/2010 20:15 by WLV

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information	
	mg/kg-dry						Prep	Analysis
Gasoline Range Organics	ND		0.12	0.037	1		1267	1268
1,4-Difluorobenzene (S)	99.4 %		63-142		1		1267	1268



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ANALYTICAL RESULTS

Workorder: H10040326 : Wilmuth, No. 1

Project Number:

Lab ID: **H10040326005**
Sample ID: **MW-1 (11-13 FT)**

Date/Time Received: 4/13/2010 09:30 Matrix: Soil
Date/Time Collected: 4/6/2010 08:35

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information	
	mg/kg-dry						Prep	Analysis
4-Bromofluorobenzene (S)	95.6 %		50-159		1		1267	1268



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ANALYTICAL RESULTS

Workorder: H10040326 : Wilmuth No. 1

Project Number:

Lab ID: H10040326006
Sample ID: MW-3 (1.5-3.0 FT)

Date/Time Received: 4/13/2010 09:30 Matrix: Soil
Date/Time Collected: 4/5/2010 14:40

WET CHEMISTRY

Analysis Desc: EPA 300.0

Preparation Batches:

Dry Weight Basis

Batch: 1432 Soil Leachage (IC) on 04/17/2010 00:00 by WETC

Analytical Batches:

Batch: 1255 EPA 300.0 on 04/17/2010 11:50 by CFS

Parameters	Results					Batch Information	
	mg/kg-dry	Qual	Report Limit	MDL	DF	RegLmt	Prep Analysis
Bromide	ND		6.06	0.386	1		1432 1255
Chloride	25.2		6.06	0.398	1		1432 1255
Fluoride	ND		6.06	0.330	1		1432 1255
Nitrogen, Nitrate (As N)	ND	Q	6.06	0.327	1		1430 1254
Nitrogen, Nitrite (As N)	ND	Q	6.06	0.319	1		1430 1254
Orthophosphate (As P)	ND		6.06	0.392	1		1432 1255
Sulfate	204		6.06	0.239	1		1432 1255

PHYSICAL PROPERTIES

Analysis Desc: EPA 120.1 (Water Extraction)

Analytical Batches:

Dry Weight Basis

Batch: 2846 EPA 120.1 (Water Extraction) on 04/16/2010 17:15 by PAC

Parameters	Results					Batch Information	
	umhos/cm @ 25C	Qual	Report Limit	MDL	DF	RegLmt	Prep Analysis
Specific Conductivity	1070	Q	100	6.47	1		2846

SEMIVOLATILE HYDROCARBONS

Analysis Desc: SW-846 8015B Fuels

Preparation Batches:

Dry Weight Basis

Batch: 1624 SW-846 3550B on 04/16/2010 16:21 by QMT

Analytical Batches:

Batch: 1428 SW-846 8015B Fuels on 04/19/2010 21:17 by NDW

Parameters	Results					Batch Information	
	mg/kg-dry	Qual	Report Limit	MDL	DF	RegLmt	Prep Analysis
Diesel Range Organics(C10-C28)	ND		6.1	1.3	1		1624 1428
n-Pentacosane (S)	95.2 %		20-154		1		1624 1428

ICP METALS



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ANALYTICAL RESULTS

Workorder: H10040326 : Wilmuth No. 1

Project Number:

Lab ID: **H10040326006**
Sample ID: **MW-3 (1.5-3.0 FT)**

Date/Time Received: 4/13/2010 09:30 Matrix: Soil
Date/Time Collected: 4/5/2010 14:40

Analysis Desc: SW-846 6010B

Preparation Batches:

Dry Weight Basis

Batch: 1671 SW-846 3050A on 04/18/2010 12:30 by R_V

Analytical Batches:

Batch: 1349 SW-846 6010B on 04/22/2010 09:41 by EBG DF = 1.

Batch: 1357 SW-846 6010B on 04/22/2010 09:41 by EBG DF = 1.

Parameters	Results		Report Limit	MDL	DF	RegLmt	Batch Information	
	mg/kg-dry	Qual					Prep	Analysis
Aluminum	12500		12.1	5.83	1		1671	1357
Arsenic	7.86		0.606	0.207	1		1671	1349
Barium	181		0.606	0.0219	1		1671	1349
Boron	4.30		1.21	0.0649	1		1671	1357
Cadmium	ND		0.606	0.0204	1		1671	1349
Chromium	9.36		0.606	0.0805	1		1671	1349
Cobalt	5.69		0.606	0.0407	1		1671	1349
Copper	11.5		0.606	0.0954	1		1671	1349
Iron	15900		1.21	0.365	1		1671	1349
Lead	7.85		0.606	0.129	1		1671	1349
Manganese	302		0.606	0.0525	1		1671	1349
Molybdenum	ND		0.606	0.0423	1		1671	1349
Nickel	7.74		0.606	0.0485	1		1671	1349
Selenium	ND		0.606	0.240	1		1671	1349
Silver	ND		0.606	0.0752	1		1671	1349
Zinc	38.7		1.21	0.262	1		1671	1349

VOLATILES

Analysis Desc: SW-846 8260B

Preparation Batches:

Dry Weight Basis

Batch: 1764 SW-846 5030 on 04/16/2010 10:45 by TLE

Analytical Batches:

Batch: 1765 SW-846 8260B on 04/16/2010 18:16 by TLE

Parameters	Results		Report Limit	MDL	DF	RegLmt	Batch Information	
	ug/kg-dry	Qual					Prep	Analysis
2-Butanone	ND		24	8.1	1		1764	1765
Acetone	ND		120	13	1		1764	1765
Acrylonitrile	ND		61	6.0	1		1764	1765
Benzene	ND		6.1	0.95	1		1764	1765
Bromobenzene	ND		6.1	0.72	1		1764	1765
Bromochloromethane	ND		6.1	0.88	1		1764	1765
Bromodichloromethane	ND		6.1	0.76	1		1764	1765
Bromoform	ND		6.1	0.61	1		1764	1765



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ANALYTICAL RESULTS

Workorder: H10040326 : Wilmuth No. 1

Project Number:

Lab ID: **H10040326006**
Sample ID: **MW-3 (1.5-3.0 FT)**

Date/Time Received: 4/13/2010 09:30 Matrix: Soil
Date/Time Collected: 4/5/2010 14:40

Parameters	Results				DF	RegLmt	Batch Information	
	ug/kg-dry	Qual	Report Limit	MDL			Prep	Analysis
Bromomethane	ND		12	1.3	1		1764	1765
n-Butylbenzene	ND		6.1	1.2	1		1764	1765
sec-Butylbenzene	ND		6.1	1.1	1		1764	1765
tert-Butylbenzene	ND		6.1	1.2	1		1764	1765
Carbon disulfide	ND		6.1	1.0	1		1764	1765
Carbon tetrachloride	ND		6.1	0.94	1		1764	1765
Chlorobenzene	ND		6.1	0.87	1		1764	1765
Chloroethane	ND		12	1.4	1		1764	1765
2-Chloroethylvinyl ether	ND		12	1.5	1		1764	1765
Chloroform	ND		6.1	1.0	1		1764	1765
Chloromethane	ND		12	1.3	1		1764	1765
4-Chlorotoluene	ND		6.1	0.98	1		1764	1765
2-Chlorotoluene	ND		6.1	0.84	1		1764	1765
Dibromochloromethane	ND		6.1	0.65	1		1764	1765
1,2-Dibromo-3-chloropropane	ND		6.1	1.3	1		1764	1765
1,2-Dibromoethane	ND		6.1	0.72	1		1764	1765
Dibromomethane	ND		6.1	0.82	1		1764	1765
1,4-Dichlorobenzene	ND		6.1	1.1	1		1764	1765
1,3-Dichlorobenzene	ND		6.1	0.92	1		1764	1765
1,2-Dichlorobenzene	ND		6.1	0.85	1		1764	1765
Dichlorodifluoromethane	ND		12	1.1	1		1764	1765
1,2-Dichloroethane	ND		6.1	0.84	1		1764	1765
1,1-Dichloroethane	ND		6.1	1.2	1		1764	1765
1,2-Dichloroethene, Total	ND		6.1	1.1	1		1764	1765
1,1-Dichloroethene	ND		6.1	1.3	1		1764	1765
cis-1,2-Dichloroethene	ND		6.1	1.1	1		1764	1765
trans-1,2-Dichloroethene	ND		6.1	1.2	1		1764	1765
1,3-Dichloropropane	ND		6.1	0.93	1		1764	1765
2,2-Dichloropropane	ND		6.1	0.92	1		1764	1765
1,2-Dichloropropane	ND		6.1	0.64	1		1764	1765
cis-1,3-Dichloropropene	ND		6.1	0.71	1		1764	1765
trans-1,3-Dichloropropene	ND		6.1	0.62	1		1764	1765
1,1-Dichloropropene	ND		6.1	1.0	1		1764	1765
Ethylbenzene	ND		6.1	1.0	1		1764	1765
Hexachlorobutadiene	ND		6.1	1.5	1		1764	1765
2-Hexanone	ND		12	0.81	1		1764	1765
Isopropylbenzene (Cumene)	ND		6.1	1.2	1		1764	1765
4-Isopropyltoluene	ND		6.1	1.1	1		1764	1765
Methyl tert-Butyl Ether (MTBE)	ND		6.1	0.85	1		1764	1765
Methyl Isobutyl Ketone (MIBK)	ND		12	1.3	1		1764	1765



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ANALYTICAL RESULTS

Workorder: H10040326 : Wilmuth No. 1

Project Number:

Lab ID: **H10040326006**
Sample ID: **MW-3 (1.5-3.0 FT)**

Date/Time Received: 4/13/2010 09:30 Matrix: Soil
Date/Time Collected: 4/5/2010 14:40

Parameters	Results				DF	RegLmt	Batch Information	
	ug/kg-dry	Qual	Report Limit	MDL			Prep	Analysis
Methylene chloride	7.9		6.1	1.1	1		1764	1765
Naphthalene	ND		6.1	0.57	1		1764	1765
n-Propylbenzene	ND		6.1	0.98	1		1764	1765
Styrene	ND		6.1	0.87	1		1764	1765
1,1,1,2-Tetrachloroethane	ND		6.1	0.69	1		1764	1765
1,1,2,2-Tetrachloroethane	ND		6.1	0.73	1		1764	1765
Tetrachloroethene	ND		6.1	1.2	1		1764	1765
Toluene	ND		6.1	0.92	1		1764	1765
1,2,4-Trichlorobenzene	ND		6.1	0.76	1		1764	1765
1,2,3-Trichlorobenzene	ND		6.1	1.1	1		1764	1765
1,1,1-Trichloroethane	ND		6.1	1.1	1		1764	1765
1,1,2-Trichloroethane	ND		6.1	0.76	1		1764	1765
Trichloroethene	ND		6.1	1.1	1		1764	1765
Trichlorofluoromethane	ND		6.1	1.2	1		1764	1765
1,2,3-Trichloropropane	ND		6.1	0.98	1		1764	1765
1,3,5-Trimethylbenzene	ND		6.1	0.88	1		1764	1765
1,2,4-Trimethylbenzene	ND		6.1	1.1	1		1764	1765
Vinyl acetate	ND		12	1.0	1		1764	1765
Vinyl chloride	ND		12	1.5	1		1764	1765
m,p-Xylene	ND		6.1	2.0	1		1764	1765
o-Xylene	ND		6.1	0.92	1		1764	1765
Xylenes, Total	ND		6.1	0.92	1		1764	1765
4-Bromofluorobenzene (S)	85.4 %		62-130		1		1764	1765
1,2-Dichloroethane-d4 (S)	103 %		64-130		1		1764	1765
Toluene-d8 (S)	87.3 %		70-140		1		1764	1765

SEMIVOLATILES

Analysis Desc: SW-846 8270C

Preparation Batches:

Dry Weight Basis

Batch: 1623 SW-846 3550B on 04/16/2010 15:31 by QMT

Analytical Batches:

Batch: 1213 SW-846 8270C on 04/19/2010 19:50 by GEY

Parameters	Results				DF	RegLmt	Batch Information	
	ug/kg-dry	Qual	Report Limit	MDL			Prep	Analysis
Acenaphthene	ND		200	45	1		1623	1213
Acenaphthylene	ND		200	52	1		1623	1213
Aniline	ND		200	73	1		1623	1213
Anthracene	ND		200	44	1		1623	1213
Benzo(a)anthracene	ND		200	55	1		1623	1213
Benzo(a)pyrene	ND		200	69	1		1623	1213



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ANALYTICAL RESULTS

Workorder: H10040326 : Wilmuth No. 1

Project Number:

Lab ID: H10040326006

Date/Time Received: 4/13/2010 09:30

Matrix: Soil

Sample ID: MW-3 (1.5-3.0 FT)

Date/Time Collected: 4/5/2010 14:40

Parameters	Results					Batch Information	
	ug/kg-dry	Qual	Report Limit	MDL	DF	RegLmt	Prep Analysis
Benzo(b)fluoranthene	ND		200	55	1		1623 1213
Benzo(g,h,i)perylene	ND		200	50	1		1623 1213
Benzo(k)fluoranthene	ND		200	65	1		1623 1213
Benzoic acid	ND		810	140	1		1623 1213
Benzyl alcohol	ND		200	59	1		1623 1213
4-Bromophenyl phenyl ether	ND		200	51	1		1623 1213
Butyl benzyl phthalate	ND		200	73	1		1623 1213
Carbazole	ND		200	42	1		1623 1213
4-Chloro-3-methylphenol	ND		200	57	1		1623 1213
4-Chloroaniline	ND		200	47	1		1623 1213
Bis(2-Chloroethoxy)methane	ND		200	80	1		1623 1213
Bis(2-Chloroethyl)ether	ND		200	51	1		1623 1213
bis(2-Chloroisopropyl)ether	ND		200	57	1		1623 1213
2-Chloronaphthalene	ND		200	46	1		1623 1213
2-Chlorophenol	ND		200	46	1		1623 1213
4-Chlorophenyl phenyl ether	ND		200	56	1		1623 1213
Chrysene	ND		200	66	1		1623 1213
Cresols, Total	ND		200	47	1		1623 1213
Dibenz(a,h)anthracene	ND		200	57	1		1623 1213
Dibenzofuran	ND		200	48	1		1623 1213
1,4-Dichlorobenzene	ND		200	42	1		1623 1213
1,3-Dichlorobenzene	ND		200	180	1		1623 1213
1,2-Dichlorobenzene	ND		200	45	1		1623 1213
3,3'-Dichlorobenzidine	ND		200	54	1		1623 1213
2,4-Dichlorophenol	ND		200	47	1		1623 1213
Diethyl phthalate	ND		200	52	1		1623 1213
Dimethyl phthalate	ND		200	48	1		1623 1213
2,4-Dimethylphenol	ND		200	48	1		1623 1213
4,6-Dinitro-2-methylphenol	ND		200	32	1		1623 1213
2,4-Dinitrophenol	ND		200	180	1		1623 1213
2,4-Dinitrotoluene	ND		200	59	1		1623 1213
2,6-Dinitrotoluene	ND		200	45	1		1623 1213
Diphenylamine	ND		400	120	1		1623 1213
1,2-Diphenylhydrazine	ND		200	39	1		1623 1213
bis(2-Ethylhexyl)phthalate	ND		200	41	1		1623 1213
Fluoranthene	ND		200	47	1		1623 1213
Fluorene	ND		200	47	1		1623 1213
Hexachlorobenzene	ND		200	49	1		1623 1213
Hexachlorobutadiene	ND		200	51	1		1623 1213
Hexachlorocyclopentadiene	ND		200	64	1		1623 1213



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ANALYTICAL RESULTS

Workorder: H10040326 : Wilmuth No. 1

Project Number:

Lab ID: **H10040326006**
Sample ID: **MW-3 (1.5-3.0 FT)**

Date/Time Received: 4/13/2010 09:30 Matrix: Soil
Date/Time Collected: 4/5/2010 14:40

Parameters	Results					Batch Information	
	ug/kg-dry	Qual	Report Limit	MDL	DF	RegLmt	Prep Analysis
Hexachloroethane	ND		200	45	1		1623 1213
Indeno(1,2,3-cd)pyrene	ND		200	72	1		1623 1213
Isophorone	ND		200	45	1		1623 1213
2-Methylnaphthalene	ND		200	52	1		1623 1213
3 & 4-Methylphenol	ND		200	56	1		1623 1213
2-Methylphenol (o-Cresol)	ND		200	47	1		1623 1213
Naphthalene	ND		200	45	1		1623 1213
4-Nitroaniline	ND		200	52	1		1623 1213
2-Nitroaniline	ND		200	41	1		1623 1213
3-Nitroaniline	ND		200	31	1		1623 1213
Nitrobenzene	ND		200	47	1		1623 1213
4-Nitrophenol	ND		200	34	1		1623 1213
2-Nitrophenol	ND		200	46	1		1623 1213
n-Nitrosodiphenylamine	ND		400	120	1		1623 1213
Pentachlorophenol	ND		200	47	1		1623 1213
Phenanthrene	ND		200	45	1		1623 1213
Phenol	ND		200	54	1		1623 1213
Pyrene	ND		200	48	1		1623 1213
Pyridine	ND		200	83	1		1623 1213
1,2,4-Trichlorobenzene	ND		200	180	1		1623 1213
2,4,6-Trichlorophenol	ND		200	48	1		1623 1213
2,4,5-Trichlorophenol	ND		200	56	1		1623 1213
Di-n-butyl phthalate	ND		200	61	1		1623 1213
n-Nitrosodi-n-propylamine	ND		200	49	1		1623 1213
n-Nitrosodimethylamine	ND		200	44	1		1623 1213
Di-n-octyl phthalate	ND		200	63	1		1623 1213
2-Fluorobiphenyl (S)	85.3 %		15-140		1		1623 1213
2-Fluorophenol (S)	98.6 %		15-122		1		1623 1213
Nitrobenzene-d5 (S)	85 %		10-134		1		1623 1213
Phenol-d6 (S)	104 %		10-123		1		1623 1213
Terphenyl-d14 (S)	92.2 %		18-166		1		1623 1213
2,4,6-Tribromophenol (S)	87.5 %		19-135		1		1623 1213

Analysis Desc: EPA 310.1

Preparation Batches:

Dry Weight Basis

Batch: 1426 Water Leachate on 04/16/2010 00:00 by ESK

Analytical Batches:

Batch: 2853 EPA 310.1 on 04/16/2010 16:30 by PAC

Parameters	Results					Batch Information	
	mg/kg-dry	Qual	Report Limit	MDL	DF	RegLmt	Prep Analysis



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ANALYTICAL RESULTS

Workorder: H10040326 : Wilmuth No. 1

Project Number:

Lab ID: **H10040326006**
Sample ID: **MW-3 (1.5-3.0 FT)**

Date/Time Received: 4/13/2010 09:30 Matrix: Soil
Date/Time Collected: 4/5/2010 14:40

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information	
	mg/kg-dry						Prep	Analysis
Alkalinity, total as CaCO3	230		24.3	8.14	1		1426	2853

WET CHEMISTRY

Analysis Desc: EPA 9045D

Analytical Batches:

Dry Weight Basis

Batch: 2371 EPA 9045D on 04/16/2010 14:00 by PAC

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information	
	SU						Prep	Analysis
pH	7.55				1			2371
Temperature (oC)	23 °C				1			2371

Analysis Desc: ASTM D2216

Analytical Batches:

Dry Weight Basis

Batch: 2863 ASTM D2216 on 04/20/2010 00:00 by EB1

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information	
	%						Prep	Analysis
Percent Moisture	17.5				1			2863

METALS

Analysis Desc: SW-846 7471A

Preparation Batches:

Dry Weight Basis

Batch: 1121 SW-846 7471A on 04/19/2010 11:25 by F_S

Analytical Batches:

Batch: 1111 SW-846 7471A on 04/19/2010 13:00 by R_V

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information	
	mg/kg-dry						Prep	Analysis
Mercury	ND		0.0364	0.00776	1		1121	1111

Gasoline Range Organics (GRO)

Analysis Desc: SW-846 8015B GRO Gas

Preparation Batches:

Dry Weight Basis

Batch: 1267 SW-846 8015B GRO Gas on 04/16/2010 14:51 by GCV

Analytical Batches:

Batch: 1268 SW-846 8015B GRO Gas on 04/16/2010 20:44 by WLV

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information	
	mg/kg-dry						Prep	Analysis
Gasoline Range Organics	ND		0.12	0.036	1		1267	1268
1,4-Difluorobenzene (S)	99.2 %		63-142		1		1267	1268



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ANALYTICAL RESULTS

Workorder: H10040326 : Wilmuth No. 1

Project Number:

Lab ID: **H10040326006**
Sample ID: **MW-3 (1.5-3.0 FT)**

Date/Time Received: 4/13/2010 09:30 Matrix: Soil
Date/Time Collected: 4/5/2010 14:40

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information	
	mg/kg-dry						Prep	Analysis
4-Bromofluorobenzene (S)	90.4 %		50-159		1		1267	1268



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ANALYTICAL RESULTS

Workorder: H10040326 : Wilmuth No. 1

Project Number:

Lab ID: H10040326007
Sample ID: MW-3 (3.0-4.5 FT)

Date/Time Received: 4/13/2010 09:30 Matrix: Soil
Date/Time Collected: 4/5/2010 14:50

WET CHEMISTRY

Analysis Desc: EPA 300.0

Preparation Batches:

Dry Weight Basis

Batch: 1432 Soil Leachage (IC) on 04/17/2010 00:00 by WETC

Analytical Batches:

Batch: 1255 EPA 300.0 on 04/17/2010 12:09 by CFS

Parameters	Results					Batch Information		
	mg/kg-dry	Qual	Report Limit	MDL	DF	RegLmt	Prep	Analysis
Bromide	ND		6.38	0.406	1		1432	1255
Chloride	15.8		6.38	0.419	1		1432	1255
Fluoride	ND		6.38	0.347	1		1432	1255
Nitrogen, Nitrate (As N)	7.57	Q	6.38	0.345	1		1430	1254
Nitrogen, Nitrite (As N)	ND	Q	6.38	0.336	1		1430	1254
Orthophosphate (As P)	ND		6.38	0.412	1		1432	1255
Sulfate	173		6.38	0.251	1		1432	1255

PHYSICAL PROPERTIES

Analysis Desc: EPA 120.1 (Water Extraction)

Analytical Batches:

Dry Weight Basis

Batch: 2846 EPA 120.1 (Water Extraction) on 04/16/2010 17:15 by PAC

Parameters	Results					Batch Information		
	umhos/cm @ 25C	Qual	Report Limit	MDL	DF	RegLmt	Prep	Analysis
Specific Conductivity	811	Q	100	6.47	1			2846

SEMIVOLATILE HYDROCARBONS

Analysis Desc: SW-846 8015B Fuels

Preparation Batches:

Dry Weight Basis

Batch: 1624 SW-846 3550B on 04/16/2010 16:21 by QMT

Analytical Batches:

Batch: 1428 SW-846 8015B Fuels on 04/19/2010 22:38 by NDW

Parameters	Results					Batch Information		
	mg/kg-dry	Qual	Report Limit	MDL	DF	RegLmt	Prep	Analysis
Diesel Range Organics(C10-C28)	ND		6.4	1.4	1		1624	1428
n-Pentacosane (S)	110 %		20-154		1		1624	1428

ICP METALS



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ANALYTICAL RESULTS

Workorder: H10040326 : Wilmuth No. 1

Project Number:

Lab ID: **H10040326007**
Sample ID: **MW-3 (3.0-4.5 FT)**

Date/Time Received: 4/13/2010 09:30 Matrix: Soil
Date/Time Collected: 4/5/2010 14:50

Analysis Desc: SW-846 6010B

Preparation Batches:

Dry Weight Basis

Batch: 1671 SW-846 3050A on 04/18/2010 12:30 by R_V

Analytical Batches:

Batch: 1349 SW-846 6010B on 04/22/2010 09:47 by EBG DF = 1

Batch: 1357 SW-846 6010B on 04/22/2010 09:47 by EBG DF = 1

Parameters	Results			MDL	DF	RegLmt	Batch Information	
	mg/kg-dry	Qual	Report Limit				Prep	Analysis
Aluminum	13600		12.8	6.14	1		1671	1357
Arsenic	3.83		0.638	0.218	1		1671	1349
Barium	183		0.638	0.0231	1		1671	1349
Boron	5.28		1.28	0.0683	1		1671	1357
Cadmium	ND		0.638	0.0214	1		1671	1349
Chromium	10.0		0.638	0.0847	1		1671	1349
Cobalt	5.81		0.638	0.0429	1		1671	1349
Copper	14.3		0.638	0.100	1		1671	1349
Iron	14900		1.28	0.384	1		1671	1349
Lead	15.3		0.638	0.135	1		1671	1349
Manganese	383		0.638	0.0553	1		1671	1349
Molybdenum	ND		0.638	0.0445	1		1671	1349
Nickel	8.41		0.638	0.0510	1		1671	1349
Selenium	ND		0.638	0.253	1		1671	1349
Silver	ND		0.638	0.0791	1		1671	1349
Zinc	78.2		1.28	0.276	1		1671	1349

VOLATILES

Analysis Desc: SW-846 8260B

Preparation Batches:

Dry Weight Basis

Batch: 1764 SW-846 5030 on 04/16/2010 10:46 by TLE

Analytical Batches:

Batch: 1765 SW-846 8260B on 04/16/2010 18:41 by TLE

Parameters	Results			MDL	DF	RegLmt	Batch Information	
	ug/kg-dry	Qual	Report Limit				Prep	Analysis
2-Butanone	ND		26	8.5	1		1764	1765
Acetone	ND		130	14	1		1764	1765
Acrylonitrile	ND		64	6.3	1		1764	1765
Benzene	ND		6.4	1.0	1		1764	1765
Bromobenzene	ND		6.4	0.76	1		1764	1765
Bromochloromethane	ND		6.4	0.92	1		1764	1765
Bromodichloromethane	ND		6.4	0.80	1		1764	1765
Bromoform	ND		6.4	0.64	1		1764	1765



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ANALYTICAL RESULTS

Workorder: H10040326 : Wilmuth No. 1

Project Number:

Lab ID: H10040326007
Sample ID: MW-3 (3.0-4.5 FT)

Date/Time Received: 4/13/2010 09:30 Matrix: Soil
Date/Time Collected: 4/5/2010 14:50

Parameters	Results				DF	RegLmt	Batch Information	
	ug/kg-dry	Qual	Report Limit	MDL			Prep	Analysis
Bromomethane	ND		13	1.4	1		1764	1765
n-Butylbenzene	ND		6.4	1.3	1		1764	1765
sec-Butylbenzene	ND		6.4	1.2	1		1764	1765
tert-Butylbenzene	ND		6.4	1.3	1		1764	1765
Carbon disulfide	ND		6.4	1.1	1		1764	1765
Carbon tetrachloride	ND		6.4	0.99	1		1764	1765
Chlorobenzene	ND		6.4	0.92	1		1764	1765
Chloroethane	ND		13	1.4	1		1764	1765
2-Chloroethylvinyl ether	ND		13	1.6	1		1764	1765
Chloroform	ND		6.4	1.1	1		1764	1765
Chloromethane	ND		13	1.3	1		1764	1765
4-Chlorotoluene	ND		6.4	1.0	1		1764	1765
2-Chlorotoluene	ND		6.4	0.88	1		1764	1765
Dibromochloromethane	ND		6.4	0.69	1		1764	1765
1,2-Dibromo-3-chloropropane	ND		6.4	1.4	1		1764	1765
1,2-Dibromoethane	ND		6.4	0.76	1		1764	1765
Dibromomethane	ND		6.4	0.86	1		1764	1765
1,4-Dichlorobenzene	ND		6.4	1.1	1		1764	1765
1,3-Dichlorobenzene	ND		6.4	0.97	1		1764	1765
1,2-Dichlorobenzene	ND		6.4	0.90	1		1764	1765
Dichlorodifluoromethane	ND		13	1.2	1		1764	1765
1,2-Dichloroethane	ND		6.4	0.89	1		1764	1765
1,1-Dichloroethane	ND		6.4	1.3	1		1764	1765
1,2-Dichloroethene, Total	ND		6.4	1.1	1		1764	1765
1,1-Dichloroethene	ND		6.4	1.4	1		1764	1765
cis-1,2-Dichloroethene	ND		6.4	1.1	1		1764	1765
trans-1,2-Dichloroethene	ND		6.4	1.2	1		1764	1765
1,3-Dichloropropane	ND		6.4	0.97	1		1764	1765
2,2-Dichloropropane	ND		6.4	0.97	1		1764	1765
1,2-Dichloropropane	ND		6.4	0.67	1		1764	1765
cis-1,3-Dichloropropene	ND		6.4	0.75	1		1764	1765
trans-1,3-Dichloropropene	ND		6.4	0.65	1		1764	1765
1,1-Dichloropropene	ND		6.4	1.1	1		1764	1765
Ethylbenzene	ND		6.4	1.1	1		1764	1765
Hexachlorobutadiene	ND		6.4	1.5	1		1764	1765
2-Hexanone	ND		13	0.85	1		1764	1765
Isopropylbenzene (Cumene)	ND		6.4	1.3	1		1764	1765
4-Isopropyltoluene	ND		6.4	1.2	1		1764	1765
Methyl tert-Butyl Ether (MTBE)	ND		6.4	0.89	1		1764	1765
Methyl Isobutyl Ketone (MIBK)	ND		13	1.3	1		1764	1765



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ANALYTICAL RESULTS

Workorder: H10040326 : Wilmuth No. 1

Project Number:

Lab ID: **H10040326007**
Sample ID: **MW-3 (3.0-4.5 FT)**

Date/Time Received: 4/13/2010 09:30 Matrix: Soil
Date/Time Collected: 4/5/2010 14:50

Parameters	Results					Batch Information	
	ug/kg-dry	Qual	Report Limit	MDL	DF	RegLmt	Prep Analysis
Methylene chloride	8.9		6.4	1.1	1		1764 1765
Naphthalene	ND		6.4	0.60	1		1764 1765
n-Propylbenzene	ND		6.4	1.0	1		1764 1765
Styrene	ND		6.4	0.92	1		1764 1765
1,1,1,2-Tetrachloroethane	ND		6.4	0.73	1		1764 1765
1,1,2,2-Tetrachloroethane	ND		6.4	0.77	1		1764 1765
Tetrachloroethene	ND		6.4	1.3	1		1764 1765
Toluene	ND		6.4	0.97	1		1764 1765
1,2,4-Trichlorobenzene	ND		6.4	0.80	1		1764 1765
1,2,3-Trichlorobenzene	ND		6.4	1.2	1		1764 1765
1,1,1-Trichloroethane	ND		6.4	1.1	1		1764 1765
1,1,2-Trichloroethane	ND		6.4	0.80	1		1764 1765
Trichloroethene	ND		6.4	1.2	1		1764 1765
Trichlorofluoromethane	ND		6.4	1.3	1		1764 1765
1,2,3-Trichloropropane	ND		6.4	1.0	1		1764 1765
1,3,5-Trimethylbenzene	ND		6.4	0.93	1		1764 1765
1,2,4-Trimethylbenzene	ND		6.4	1.1	1		1764 1765
Vinyl acetate	ND		13	1.1	1		1764 1765
Vinyl chloride	ND		13	1.6	1		1764 1765
m,p-Xylene	ND		6.4	2.1	1		1764 1765
o-Xylene	ND		6.4	0.97	1		1764 1765
Xylenes, Total	ND		6.4	0.97	1		1764 1765
4-Bromofluorobenzene (S)	77.2 %		62-130		1		1764 1765
1,2-Dichloroethane-d4 (S)	106 %		64-130		1		1764 1765
Toluene-d8 (S)	91.1 %		70-140		1		1764 1765

SEMIVOLATILES

Analysis Desc: SW-846 8270C		Preparation Batches:					
Dry Weight Basis		Batch: 1623 SW-846 3550B on 04/16/2010 15:31 by QMT					
		Analytical Batches:					
		Batch: 1213 SW-846 8270C on 04/19/2010 20:22 by GEY					
Parameters	Results					Batch Information	
	ug/kg-dry	Qual	Report Limit	MDL	DF	RegLmt	Prep Analysis
Acenaphthene	ND		210	47	1		1623 1213
Acenaphthylene	ND		210	54	1		1623 1213
Aniline	ND		210	77	1		1623 1213
Anthracene	ND		210	46	1		1623 1213
Benzo(a)anthracene	ND		210	58	1		1623 1213
Benzo(a)pyrene	ND		210	72	1		1623 1213



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ANALYTICAL RESULTS

Workorder: H10040326 : Wilmuth No. 1

Project Number:

Lab ID: H10040326007

Date/Time Received: 4/13/2010 09:30

Matrix: Soil

Sample ID: MW-3 (3.0-4.5 FT)

Date/Time Collected: 4/5/2010 14:50

Parameters	Results				DF	RegLmt	Batch Information	
	ug/kg-dry	Qual	Report Limit	MDL			Prep	Analysis
Benzo(b)fluoranthene	ND		210	58	1		1623	1213
Benzo(g,h,i)perylene	ND		210	53	1		1623	1213
Benzo(k)fluoranthene	ND		210	68	1		1623	1213
Benzoic acid	ND		850	140	1		1623	1213
Benzyl alcohol	ND		210	62	1		1623	1213
4-Bromophenyl phenyl ether	ND		210	54	1		1623	1213
Butyl benzyl phthalate	ND		210	77	1		1623	1213
Carbazole	ND		210	45	1		1623	1213
4-Chloro-3-methylphenol	ND		210	60	1		1623	1213
4-Chloroaniline	ND		210	50	1		1623	1213
Bis(2-Chloroethoxy)methane	ND		210	84	1		1623	1213
Bis(2-Chloroethyl)ether	ND		210	53	1		1623	1213
bis(2-Chloroisopropyl)ether	ND		210	60	1		1623	1213
2-Chloronaphthalene	ND		210	48	1		1623	1213
2-Chlorophenol	ND		210	48	1		1623	1213
4-Chlorophenyl phenyl ether	ND		210	58	1		1623	1213
Chrysene	ND		210	70	1		1623	1213
Cresols, Total	ND		210	50	1		1623	1213
Dibenz(a,h)anthracene	ND		210	60	1		1623	1213
Dibenzofuran	ND		210	51	1		1623	1213
1,4-Dichlorobenzene	ND		210	44	1		1623	1213
1,3-Dichlorobenzene	ND		210	190	1		1623	1213
1,2-Dichlorobenzene	ND		210	48	1		1623	1213
3,3'-Dichlorobenzidine	ND		210	57	1		1623	1213
2,4-Dichlorophenol	ND		210	50	1		1623	1213
Diethyl phthalate	ND		210	55	1		1623	1213
Dimethyl phthalate	ND		210	50	1		1623	1213
2,4-Dimethylphenol	ND		210	51	1		1623	1213
4,6-Dinitro-2-methylphenol	ND		210	33	1		1623	1213
2,4-Dinitrophenol	ND		210	190	1		1623	1213
2,4-Dinitrotoluene	ND		210	63	1		1623	1213
2,6-Dinitrotoluene	ND		210	47	1		1623	1213
Diphenylamine	ND		420	120	1		1623	1213
1,2-Diphenylhydrazine	ND		210	41	1		1623	1213
bis(2-Ethylhexyl)phthalate	ND		210	44	1		1623	1213
Fluoranthene	ND		210	50	1		1623	1213
Fluorene	ND		210	49	1		1623	1213
Hexachlorobenzene	ND		210	52	1		1623	1213
Hexachlorobutadiene	ND		210	54	1		1623	1213
Hexachlorocyclopentadiene	ND		210	68	1		1623	1213



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ANALYTICAL RESULTS

Workorder: H10040326 : Wilmuth No. 1

Project Number:

Lab ID: H10040326007

Date/Time Received: 4/13/2010 09:30

Matrix: Soil

Sample ID: MW-3 (3.0-4.5 FT)

Date/Time Collected: 4/5/2010 14:50

Parameters	Results					Batch Information	
	ug/kg-dry	Qual	Report Limit	MDL	DF	RegLmt	Prep Analysis
Hexachloroethane	ND		210	48	1		1623 1213
Indeno(1,2,3-cd)pyrene	ND		210	75	1		1623 1213
Isophorone	ND		210	47	1		1623 1213
2-Methylnaphthalene	ND		210	55	1		1623 1213
3 & 4-Methylphenol	ND		210	59	1		1623 1213
2-Methylphenol (o-Cresol)	ND		210	50	1		1623 1213
Naphthalene	ND		210	48	1		1623 1213
4-Nitroaniline	ND		210	54	1		1623 1213
2-Nitroaniline	ND		210	43	1		1623 1213
3-Nitroaniline	ND		210	33	1		1623 1213
Nitrobenzene	ND		210	49	1		1623 1213
4-Nitrophenol	ND		210	36	1		1623 1213
2-Nitrophenol	ND		210	48	1		1623 1213
n-Nitrosodiphenylamine	ND		420	120	1		1623 1213
Pentachlorophenol	ND		210	49	1		1623 1213
Phenanthrene	ND		210	47	1		1623 1213
Phenol	ND		210	57	1		1623 1213
Pyrene	ND		210	51	1		1623 1213
Pyridine	ND		210	88	1		1623 1213
1,2,4-Trichlorobenzene	ND		210	190	1		1623 1213
2,4,6-Trichlorophenol	ND		210	50	1		1623 1213
2,4,5-Trichlorophenol	ND		210	58	1		1623 1213
Di-n-butyl phthalate	ND		210	65	1		1623 1213
n-Nitrosodi-n-propylamine	ND		210	51	1		1623 1213
n-Nitrosodimethylamine	ND		210	46	1		1623 1213
Di-n-octyl phthalate	ND		210	66	1		1623 1213
2-Fluorobiphenyl (S)	63.1 %		15-140		1		1623 1213
2-Fluorophenol (S)	70.4 %		15-122		1		1623 1213
Nitrobenzene-d5 (S)	60.8 %		10-134		1		1623 1213
Phenol-d6 (S)	73.5 %		10-123		1		1623 1213
Terphenyl-d14 (S)	68 %		18-166		1		1623 1213
2,4,6-Tribromophenol (S)	67.4 %		19-135		1		1623 1213

Analysis Desc: EPA 310.1

Preparation Batches:

Dry Weight Basis

Batch: 1426 Water Leachate on 04/16/2010 00:00 by ESK

Analytical Batches:

Batch: 2853 EPA 310.1 on 04/16/2010 16:30 by PAC

Parameters	Results					Batch Information	
	mg/kg-dry	Qual	Report Limit	MDL	DF	RegLmt	Prep Analysis



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ANALYTICAL RESULTS

Workorder: H10040326 : Wilmuth No. 1

Project Number:

Lab ID: H10040326007
Sample ID: MW-3 (3.0-4.5 FT)

Date/Time Received: 4/13/2010 09:30 Matrix: Soil
Date/Time Collected: 4/5/2010 14:50

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information	
	mg/kg-dry						Prep	Analysis
Alkalinity, total as CaCO3	179		25.5	8.56	1		1426	2853

WET CHEMISTRY

Analysis Desc: EPA 9045D

Analytical Batches:

Dry Weight Basis

Batch: 2371 EPA 9045D on 04/16/2010 14:00 by PAC

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information	
	SU						Prep	Analysis
pH	7.64				1			2371
Temperature (oC)	23 °C				1			2371

Analysis Desc: ASTM D2216

Analytical Batches:

Dry Weight Basis

Batch: 2863 ASTM D2216 on 04/20/2010 00:00 by EB1

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information	
	%						Prep	Analysis
Percent Moisture	21.6				1			2863

METALS

Analysis Desc: SW-846 7471A

Preparation Batches:

Dry Weight Basis

Batch: 1121 SW-846 7471A on 04/19/2010 11:25 by F_S

Analytical Batches:

Batch: 1111 SW-846 7471A on 04/19/2010 13:03 by R_V

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information	
	mg/kg-dry						Prep	Analysis
Mercury	ND		0.0383	0.00817	1		1121	1111

Gasoline Range Organics (GRO)

Analysis Desc: SW-846 8015B GRO Gas

Preparation Batches:

Dry Weight Basis

Batch: 1267 SW-846 8015B GRO Gas on 04/16/2010 14:51 by GCV

Analytical Batches:

Batch: 1268 SW-846 8015B GRO Gas on 04/16/2010 22:41 by WLV

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information	
	mg/kg-dry						Prep	Analysis
Gasoline Range Organics	ND		0.13	0.038	1		1267	1268
1,4-Difluorobenzene (S)	98.4 %		63-142		1		1267	1268



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ANALYTICAL RESULTS

Workorder: H10040326 : Wilmuth No. 1

Project Number:

Lab ID: **H10040326007**
Sample ID: **MW-3 (3.0-4.5 FT)**

Date/Time Received: 4/13/2010 09:30 Matrix: Soil
Date/Time Collected: 4/5/2010 14:50

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information	
	mg/kg-dry						Prep	Analysis
4-Bromofluorobenzene (S)	96.1 %		50-159		1		1267	1268



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ANALYTICAL RESULTS

Workorder: H10040326 : Wilmuth No. 1

Project Number:

Lab ID: H10040326008

Date/Time Received: 4/13/2010 09:30

Matrix: Soil

Sample ID: MW-3 (9-11 FT)

Date/Time Collected: 4/7/2010 09:40

WET CHEMISTRY

Analysis Desc: EPA 300.0

Preparation Batches:

Dry Weight Basis

Batch: 1432 Soil Leachage (IC) on 04/17/2010 00:00 by WETC

Analytical Batches:

Batch: 1255 EPA 300.0 on 04/17/2010 13:43 by CFS

Parameters	Results			MDL	DF	RegLmt	Batch Information	
	mg/kg-dry	Qual	Report Limit				Prep	Analysis
Bromide	ND		6.21	0.395	1		1432	1255
Chloride	13.7		6.21	0.407	1		1432	1255
Fluoride	ND		6.21	0.338	1		1432	1255
Nitrogen, Nitrate (As N)	ND	Q	6.21	0.335	1		1430	1254
Nitrogen, Nitrite (As N)	ND	Q	6.21	0.326	1		1430	1254
Orthophosphate (As P)	ND		6.21	0.401	1		1432	1255
Sulfate	56.0		6.21	0.245	1		1432	1255

PHYSICAL PROPERTIES

Analysis Desc: EPA 120.1 (Water Extraction)

Analytical Batches:

Dry Weight Basis

Batch: 2846 EPA 120.1 (Water Extraction) on 04/16/2010 17:15 by PAC

Parameters	Results			MDL	DF	RegLmt	Batch Information	
	umhos/cm @ 25C	Qual	Report Limit				Prep	Analysis
Specific Conductivity	589	H	100	6.47	1			2846

SEMIVOLATILE HYDROCARBONS

Analysis Desc: SW-846 8015B Fuels

Preparation Batches:

Dry Weight Basis

Batch: 1624 SW-846 3550B on 04/16/2010 16:22 by QMT

Analytical Batches:

Batch: 1428 SW-846 8015B Fuels on 04/19/2010 22:58 by NDW

Parameters	Results			MDL	DF	RegLmt	Batch Information	
	mg/kg-dry	Qual	Report Limit				Prep	Analysis
Diesel Range Organics(C10-C28)	ND		6.2	1.3	1		1624	1428
n-Pentacosane (S)	89.1 %		20-154		1		1624	1428

ICP METALS



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ANALYTICAL RESULTS

Workorder: H10040326 : Wilmuth No. 1

Project Number:

Lab ID: H10040326008

Date/Time Received: 4/13/2010 09:30 Matrix: Soil

Sample ID: MW-3 (9-11 FT)

Date/Time Collected: 4/7/2010 09:40

Analysis Desc: SW-846 6010B		Preparation Batches:						
Dry Weight Basis		Batch: 1671 SW-846 3050A on 04/18/2010 12:30 by R_V						
		Analytical Batches:						
		Batch: 1349 SW-846 6010B on 04/22/2010 09:53 by EBG DF = 1						
		Batch: 1357 SW-846 6010B on 04/22/2010 09:53 by EBG DF = 1						
Parameters	Results		Report Limit	MDL	DF	RegLmt	Batch Information	
	mg/kg-dry	Qual					Prep	Analysis
Aluminum	9720		12.4	5.97	1		1671	1357
Arsenic	4.73		0.621	0.212	1		1671	1349
Barium	154		0.621	0.0225	1		1671	1349
Boron	1.66		1.24	0.0664	1		1671	1357
Cadmium	ND		0.621	0.0209	1		1671	1349
Chromium	6.98		0.621	0.0824	1		1671	1349
Cobalt	4.54		0.621	0.0417	1		1671	1349
Copper	7.82		0.621	0.0977	1		1671	1349
Iron	13000		1.24	0.374	1		1671	1349
Lead	7.36		0.621	0.132	1		1671	1349
Manganese	202		0.621	0.0537	1		1671	1349
Molybdenum	ND		0.621	0.0433	1		1671	1349
Nickel	6.31		0.621	0.0496	1		1671	1349
Selenium	ND		0.621	0.246	1		1671	1349
Silver	ND		0.621	0.0770	1		1671	1349
Zinc	28.1		1.24	0.268	1		1671	1349

VOLATILES

Analysis Desc: SW-846 8260B		Preparation Batches:						
Dry Weight Basis		Batch: 1764 SW-846 5030 on 04/16/2010 10:47 by TLE						
		Analytical Batches:						
		Batch: 1765 SW-846 8260B on 04/16/2010 19:08 by TLE						



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ANALYTICAL RESULTS

Workorder: H10040326 : Wilmuth No. 1

Project Number:

Lab ID: H10040326008

Date/Time Received: 4/13/2010 09:30

Matrix: Soil

Sample ID: MW-3 (9-11 FT)

Date/Time Collected: 4/7/2010 09:40

Parameters	Results				DF	RegLmt	Batch Information	
	ug/kg-dry	Qual	Report Limit	MDL			Prep	Analysis
Bromomethane	ND		12	1.3	1		1764	1765
n-Butylbenzene	ND		6.2	1.3	1		1764	1765
sec-Butylbenzene	ND		6.2	1.1	1		1764	1765
tert-Butylbenzene	ND		6.2	1.2	1		1764	1765
Carbon disulfide	ND		6.2	1.0	1		1764	1765
Carbon tetrachloride	ND		6.2	0.97	1		1764	1765
Chlorobenzene	ND		6.2	0.89	1		1764	1765
Chloroethane	ND		12	1.4	1		1764	1765
2-Chloroethylvinyl ether	ND		12	1.5	1		1764	1765
Chloroform	ND		6.2	1.0	1		1764	1765
Chloromethane	ND		12	1.3	1		1764	1765
4-Chlorotoluene	ND		6.2	1.0	1		1764	1765
2-Chlorotoluene	ND		6.2	0.86	1		1764	1765
Dibromochloromethane	ND		6.2	0.67	1		1764	1765
1,2-Dibromo-3-chloropropane	ND		6.2	1.3	1		1764	1765
1,2-Dibromoethane	ND		6.2	0.74	1		1764	1765
Dibromomethane	ND		6.2	0.84	1		1764	1765
1,4-Dichlorobenzene	ND		6.2	1.1	1		1764	1765
1,3-Dichlorobenzene	ND		6.2	0.94	1		1764	1765
1,2-Dichlorobenzene	ND		6.2	0.87	1		1764	1765
Dichlorodifluoromethane	ND		12	1.1	1		1764	1765
1,2-Dichloroethane	ND		6.2	0.86	1		1764	1765
1,1-Dichloroethane	ND		6.2	1.3	1		1764	1765
1,2-Dichloroethene, Total	ND		6.2	1.1	1		1764	1765
1,1-Dichloroethene	ND		6.2	1.3	1		1764	1765
cis-1,2-Dichloroethene	ND		6.2	1.1	1		1764	1765
trans-1,2-Dichloroethene	ND		6.2	1.2	1		1764	1765
1,3-Dichloropropane	ND		6.2	0.95	1		1764	1765
2,2-Dichloropropane	ND		6.2	0.94	1		1764	1765
1,2-Dichloropropane	ND		6.2	0.65	1		1764	1765
cis-1,3-Dichloropropene	ND		6.2	0.73	1		1764	1765
trans-1,3-Dichloropropene	ND		6.2	0.64	1		1764	1765
1,1-Dichloropropene	ND		6.2	1.1	1		1764	1765
Ethylbenzene	ND		6.2	1.0	1		1764	1765
Hexachlorobutadiene	ND		6.2	1.5	1		1764	1765
2-Hexanone	ND		12	0.82	1		1764	1765
Isopropylbenzene (Cumene)	ND		6.2	1.3	1		1764	1765
4-Isopropyltoluene	ND		6.2	1.2	1		1764	1765
Methyl tert-Butyl Ether (MTBE)	ND		6.2	0.87	1		1764	1765
Methyl Isobutyl Ketone (MIBK)	ND		12	1.3	1		1764	1765



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ANALYTICAL RESULTS

Workorder: H10040326 : Wilmuth No. 1

Project Number:

Lab ID: H10040326008

Date/Time Received: 4/13/2010 09:30 Matrix: Soil

Sample ID: MW-3 (9-11 FT)

Date/Time Collected: 4/7/2010 09:40

Parameters	Results					Batch Information	
	ug/kg-dry	Qual	Report Limit	MDL	DF	RegLmt	Prep Analysis
Methylene chloride	7.9		6.2	1.1	1		1764 1765
Naphthalene	ND		6.2	0.58	1		1764 1765
n-Propylbenzene	ND		6.2	1.0	1		1764 1765
Styrene	ND		6.2	0.89	1		1764 1765
1,1,1,2-Tetrachloroethane	ND		6.2	0.71	1		1764 1765
1,1,2,2-Tetrachloroethane	ND		6.2	0.75	1		1764 1765
Tetrachloroethene	ND		6.2	1.2	1		1764 1765
Toluene	ND		6.2	0.94	1		1764 1765
1,2,4-Trichlorobenzene	ND		6.2	0.77	1		1764 1765
1,2,3-Trichlorobenzene	ND		6.2	1.1	1		1764 1765
1,1,1-Trichloroethane	ND		6.2	1.1	1		1764 1765
1,1,2-Trichloroethane	ND		6.2	0.77	1		1764 1765
Trichloroethene	ND		6.2	1.2	1		1764 1765
Trichlorofluoromethane	ND		6.2	1.2	1		1764 1765
1,2,3-Trichloropropane	ND		6.2	1.0	1		1764 1765
1,3,5-Trimethylbenzene	ND		6.2	0.90	1		1764 1765
1,2,4-Trimethylbenzene	ND		6.2	1.1	1		1764 1765
Vinyl acetate	ND		12	1.1	1		1764 1765
Vinyl chloride	ND		12	1.6	1		1764 1765
m,p-Xylene	ND		6.2	2.0	1		1764 1765
o-Xylene	ND		6.2	0.94	1		1764 1765
Xylenes, Total	ND		6.2	0.94	1		1764 1765
4-Bromofluorobenzene (S)	74.4 %		62-130		1		1764 1765
1,2-Dichloroethane-d4 (S)	108 %		64-130		1		1764 1765
Toluene-d8 (S)	89.3 %		70-140		1		1764 1765

SEMIVOLATILES

Analysis Desc: SW-846 8270C

Preparation Batches:

Dry Weight Basis

Batch: 1623 SW-846 3550B on 04/16/2010 15:32 by QMT

Analytical Batches:

Batch: 1213 SW-846 8270C on 04/19/2010 20:54 by GEY

Parameters	Results					Batch Information	
	ug/kg-dry	Qual	Report Limit	MDL	DF	RegLmt	Prep Analysis
Acenaphthene	ND		210	46	1		1623 1213
Acenaphthylene	ND		210	53	1		1623 1213
Aniline	ND		210	75	1		1623 1213
Anthracene	ND		210	45	1		1623 1213
Benzo(a)anthracene	ND		210	57	1		1623 1213
Benzo(a)pyrene	ND		210	70	1		1623 1213



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ANALYTICAL RESULTS

Workorder: H10040326 : Wilmuth No. 1

Project Number:

Lab ID: H10040326008

Date/Time Received: 4/13/2010 09:30

Matrix: Soil

Sample ID: MW-3 (9-11 FT)

Date/Time Collected: 4/7/2010 09:40

Parameters	Results				DF	RegLmt	Batch Information	
	ug/kg-dry	Qual	Report Limit	MDL			Prep	Analysis
Benzo(b)fluoranthene	ND		210	56	1		1623	1213
Benzo(g,h,i)perylene	ND		210	51	1		1623	1213
Benzo(k)fluoranthene	ND		210	66	1		1623	1213
Benzoic acid	ND		830	140	1		1623	1213
Benzyl alcohol	ND		210	60	1		1623	1213
4-Bromophenyl phenyl ether	ND		210	52	1		1623	1213
Butyl benzyl phthalate	ND		210	75	1		1623	1213
Carbazole	ND		210	43	1		1623	1213
4-Chloro-3-methylphenol	ND		210	59	1		1623	1213
4-Chloroaniline	ND		210	49	1		1623	1213
Bis(2-Chloroethoxy)methane	ND		210	82	1		1623	1213
Bis(2-Chloroethyl)ether	ND		210	52	1		1623	1213
bis(2-Chloroisopropyl)ether	ND		210	58	1		1623	1213
2-Chloronaphthalene	ND		210	47	1		1623	1213
2-Chlorophenol	ND		210	47	1		1623	1213
4-Chlorophenyl phenyl ether	ND		210	57	1		1623	1213
Chrysene	ND		210	68	1		1623	1213
Cresols, Total	ND		210	49	1		1623	1213
Dibenz(a,h)anthracene	ND		210	58	1		1623	1213
Dibenzofuran	ND		210	49	1		1623	1213
1,4-Dichlorobenzene	ND		210	43	1		1623	1213
1,3-Dichlorobenzene	ND		210	180	1		1623	1213
1,2-Dichlorobenzene	ND		210	46	1		1623	1213
3,3'-Dichlorobenzidine	ND		210	55	1		1623	1213
2,4-Dichlorophenol	ND		210	48	1		1623	1213
Diethyl phthalate	ND		210	54	1		1623	1213
Dimethyl phthalate	ND		210	49	1		1623	1213
2,4-Dimethylphenol	ND		210	50	1		1623	1213
4,6-Dinitro-2-methylphenol	ND		210	32	1		1623	1213
2,4-Dinitrophenol	ND		210	180	1		1623	1213
2,4-Dinitrotoluene	ND		210	61	1		1623	1213
2,6-Dinitrotoluene	ND		210	46	1		1623	1213
Diphenylamine	ND		410	120	1		1623	1213
1,2-Diphenylhydrazine	ND		210	40	1		1623	1213
bis(2-Ethylhexyl)phthalate	ND		210	42	1		1623	1213
Fluoranthene	ND		210	48	1		1623	1213
Fluorene	ND		210	48	1		1623	1213
Hexachlorobenzene	ND		210	51	1		1623	1213
Hexachlorobutadiene	ND		210	52	1		1623	1213
Hexachlorocyclopentadiene	ND		210	66	1		1623	1213



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ANALYTICAL RESULTS

Workorder: H10040326 : Wilmuth No. 1

Project Number:

Lab ID: H10040326008

Date/Time Received: 4/13/2010 09:30

Matrix: Soil

Sample ID: MW-3 (9-11 FT)

Date/Time Collected: 4/7/2010 09:40

Parameters	Results					Batch Information	
	ug/kg-dry	Qual	Report Limit	MDL	DF	RegLmt	Prep Analysis
Hexachloroethane	ND		210	47	1		1623 1213
Indeno(1,2,3-cd)pyrene	ND		210	73	1		1623 1213
Isophorone	ND		210	46	1		1623 1213
2-Methylnaphthalene	ND		210	53	1		1623 1213
3 & 4-Methylphenol	ND		210	57	1		1623 1213
2-Methylphenol (o-Cresol)	ND		210	49	1		1623 1213
Naphthalene	ND		210	46	1		1623 1213
4-Nitroaniline	ND		210	53	1		1623 1213
2-Nitroaniline	ND		210	42	1		1623 1213
3-Nitroaniline	ND		210	32	1		1623 1213
Nitrobenzene	ND		210	48	1		1623 1213
4-Nitrophenol	ND		210	35	1		1623 1213
2-Nitrophenol	ND		210	47	1		1623 1213
n-Nitrosodiphenylamine	ND		410	120	1		1623 1213
Pentachlorophenol	ND		210	48	1		1623 1213
Phenanthrene	ND		210	46	1		1623 1213
Phenol	ND		210	55	1		1623 1213
Pyrene	ND		210	49	1		1623 1213
Pyridine	ND		210	85	1		1623 1213
1,2,4-Trichlorobenzene	ND		210	180	1		1623 1213
2,4,6-Trichlorophenol	ND		210	49	1		1623 1213
2,4,5-Trichlorophenol	ND		210	57	1		1623 1213
Di-n-butyl phthalate	ND		210	63	1		1623 1213
n-Nitrosodi-n-propylamine	ND		210	50	1		1623 1213
n-Nitrosodimethylamine	ND		210	45	1		1623 1213
Di-n-octyl phthalate	ND		210	64	1		1623 1213
2-Fluorobiphenyl (S)	93.5 %		15-140		1		1623 1213
2-Fluorophenol (S)	105 %		15-122		1		1623 1213
Nitrobenzene-d5 (S)	92.2 %		10-134		1		1623 1213
Phenol-d6 (S)	114 %		10-123		1		1623 1213
Terphenyl-d14 (S)	107 %		18-166		1		1623 1213
2,4,6-Tribromophenol (S)	102 %		19-135		1		1623 1213

Analysis Desc: EPA 310.1

Preparation Batches:

Dry Weight Basis

Batch: 1426 Water Leachate on 04/16/2010 00:00 by ESK

Analytical Batches:

Batch: 2853 EPA 310.1 on 04/16/2010 16:30 by PAC

Parameters	Results					Batch Information	
	mg/kg-dry	Qual	Report Limit	MDL	DF	RegLmt	Prep Analysis



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ANALYTICAL RESULTS

Workorder: H10040326 : Wilmuth No. 1

Project Number:

Lab ID: H10040326008

Date/Time Received: 4/13/2010 09:30

Matrix: Soil

Sample ID: MW-3 (9-11 FT)

Date/Time Collected: 4/7/2010 09:40

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information	
	mg/kg-dry						Prep	Analysis
Alkalinity, total as CaCO3	137		24.8	8.33	1		1426	2853

WET CHEMISTRY

Analysis Desc: EPA 9045D

Analytical Batches:

Dry Weight Basis

Batch: 2371 EPA 9045D on 04/16/2010 14:00 by PAC

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information	
	SU						Prep	Analysis
pH	8.11				1			2371
Temperature (oC)	23 °C				1			2371

Analysis Desc: ASTM D2216

Analytical Batches:

Dry Weight Basis

Batch: 2863 ASTM D2216 on 04/20/2010 00:00 by EB1

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information	
	%						Prep	Analysis
Percent Moisture	19.4				1			2863

METALS

Analysis Desc: SW-846 7471A

Preparation Batches:

Dry Weight Basis

Batch: 1121 SW-846 7471A on 04/19/2010 11:25 by F_S

Analytical Batches:

Batch: 1111 SW-846 7471A on 04/19/2010 13:10 by R_V

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information	
	mg/kg-dry						Prep	Analysis
Mercury	ND		0.0372	0.00794	1		1121	1111

Gasoline Range Organics (GRO)

Analysis Desc: SW-846 8015B GRO Gas

Preparation Batches:

Dry Weight Basis

Batch: 1267 SW-846 8015B GRO Gas on 04/16/2010 14:51 by GCV

Analytical Batches:

Batch: 1268 SW-846 8015B GRO Gas on 04/16/2010 23:11 by WLV

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information	
	mg/kg-dry						Prep	Analysis
Gasoline Range Organics	ND		0.12	0.037	1		1267	1268
1,4-Difluorobenzene (S)	98.3 %		63-142		1		1267	1268



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ANALYTICAL RESULTS

Workorder: H10040326 : Wilmuth No. 1

Project Number:

Lab ID: H10040326008

Date/Time Received: 4/13/2010 09:30

Matrix: Soil

Sample ID: MW-3 (9-11 FT)

Date/Time Collected: 4/7/2010 09:40

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information	
	mg/kg-dry						Prep	Analysis
4-Bromofluorobenzene (S)	96 %		50-159		1		1267	1268



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ANALYTICAL RESULTS

Workorder: H10040326 : Wilmoth No. 1

Project Number:

Lab ID: H10040326009
Sample ID: MW-2 (1.5-3.0 FT)

Date/Time Received: 4/13/2010 09:30 Matrix: Soil
Date/Time Collected: 4/5/2010 13:40

WET CHEMISTRY

Analysis Desc: EPA 300.0

Preparation Batches:

Dry Weight Basis

Batch: 1432 Soil Leachage (IC) on 04/17/2010 00:00 by WETC

Batch: Soil Leachage (IC) on 04/19/2010 00:00 by ESK

Analytical Batches:

Batch: 1255 EPA 300.0 on 04/17/2010 12:28 by CFS DF = 1

Batch: 1255 EPA 300.0 on 04/17/2010 15:46 by CFS DF = 20

Parameters	Results					Batch Information		
	mg/kg-dry	Qual	Report Limit	MDL	DF	RegLmt	Prep	Analysis
Bromide	ND		6.07	0.386	1			1255
Chloride	184		6.07	0.398	1			1255
Fluoride	ND		6.07	0.330	1			1255
Nitrogen, Nitrate (As N)	6.94	Q	6.07	0.328	1		1430	1254
Nitrogen, Nitrite (As N)	ND	Q	6.07	0.319	1		1430	1254
Orthophosphate (As P)	ND		6.07	0.392	1			1255
Sulfate	1760		121	4.78	20		1432	1255

PHYSICAL PROPERTIES

Analysis Desc: EPA 120.1 (Water Extraction)

Analytical Batches:

Dry Weight Basis

Batch: 2846 EPA 120.1 (Water Extraction) on 04/16/2010 17:15 by PAC

Parameters	Results					Batch Information		
	umhos/cm @ 25C	Qual	Report Limit	MDL	DF	RegLmt	Prep	Analysis
Specific Conductivity	3810	Q	100	6.47	1			2846

SEMIVOLATILE HYDROCARBONS

Analysis Desc: SW-846 8015B Fuels

Preparation Batches:

Dry Weight Basis

Batch: 1624 SW-846 3550B on 04/16/2010 16:22 by QMT

Analytical Batches:

Batch: 1428 SW-846 8015B Fuels on 04/19/2010 23:18 by NDW

Parameters	Results					Batch Information		
	mg/kg-dry	Qual	Report Limit	MDL	DF	RegLmt	Prep	Analysis
Diesel Range Organics(C10-C28)	ND		6.1	1.3	1		1624	1428
n-Pentacosane (S)	93 %		20-154		1		1624	1428

ICP METALS



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ANALYTICAL RESULTS

Workorder: H10040326 : Wilmuth No. 1

Project Number:

Lab ID: **H10040326009**
Sample ID: **MW-2 (1.5-3.0 FT)**

Date/Time Received: 4/13/2010 09:30 Matrix: Soil
Date/Time Collected: 4/5/2010 13:40

Analysis Desc: SW-846 6010B
Dry Weight Basis
Preparation Batches:
Batch: 1671 SW-846 3050A on 04/18/2010 12:30 by R_V
Analytical Batches:
Batch: 1349 SW-846 6010B on 04/22/2010 09:59 by EBG DF = 1.
Batch: 1357 SW-846 6010B on 04/22/2010 09:59 by EBG DF = 1.

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information	
	mg/kg-dry						Prep	Analysis
Aluminum	7970		12.1	5.84	1		1671	1357
Arsenic	3.54		0.607	0.208	1		1671	1349
Barium	136		0.607	0.0220	1		1671	1349
Boron	4.20		1.21	0.0649	1		1671	1357
Cadmium	ND		0.607	0.0204	1		1671	1349
Chromium	7.65		0.607	0.0806	1		1671	1349
Cobalt	4.62		0.607	0.0408	1		1671	1349
Copper	13.4		0.607	0.0955	1		1671	1349
Iron	12800		1.21	0.365	1		1671	1349
Lead	17.8		0.607	0.129	1		1671	1349
Manganese	340		0.607	0.0525	1		1671	1349
Molybdenum	ND		0.607	0.0424	1		1671	1349
Nickel	5.04		0.607	0.0485	1		1671	1349
Selenium	ND		0.607	0.240	1		1671	1349
Silver	ND		0.607	0.0752	1		1671	1349
Zinc	52.6		1.21	0.262	1		1671	1349

VOLATILES

Analysis Desc: SW-846 8260B
Dry Weight Basis
Preparation Batches:
Batch: 1764 SW-846 5030 on 04/16/2010 10:48 by TLE
Analytical Batches:
Batch: 1765 SW-846 8260B on 04/16/2010 19:33 by TLE

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information	
	ug/kg-dry						Prep	Analysis
2-Butanone	ND		24	8.1	1		1764	1765
Acetone	ND		120	13	1		1764	1765
Acrylonitrile	ND		61	6.0	1		1764	1765
Benzene	ND		6.1	0.95	1		1764	1765
Bromobenzene	ND		6.1	0.72	1		1764	1765
Bromochloromethane	ND		6.1	0.88	1		1764	1765
Bromodichloromethane	ND		6.1	0.76	1		1764	1765
Bromoform	ND		6.1	0.61	1		1764	1765



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ANALYTICAL RESULTS

Workorder: H10040326 : Willmuth No. 1

Project Number:

Lab ID: **H10040326009**
Sample ID: **MW-2 (1.5-3.0 FT)**

Date/Time Received: 4/13/2010 09:30 Matrix: Soil
Date/Time Collected: 4/5/2010 13:40

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information	
	ug/kg-dry						Prep	Analysis
Bromomethane	ND		12	1.3	1		1764	1765
n-Butylbenzene	ND		6.1	1.2	1		1764	1765
sec-Butylbenzene	ND		6.1	1.1	1		1764	1765
tert-Butylbenzene	ND		6.1	1.2	1		1764	1765
Carbon disulfide	ND		6.1	1.0	1		1764	1765
Carbon tetrachloride	ND		6.1	0.94	1		1764	1765
Chlorobenzene	ND		6.1	0.87	1		1764	1765
Chloroethane	ND		12	1.4	1		1764	1765
2-Chloroethylvinyl ether	ND		12	1.5	1		1764	1765
Chloroform	ND		6.1	1.0	1		1764	1765
Chloromethane	ND		12	1.3	1		1764	1765
4-Chlorotoluene	ND		6.1	0.98	1		1764	1765
2-Chlorotoluene	ND		6.1	0.84	1		1764	1765
Dibromochloromethane	ND		6.1	0.66	1		1764	1765
1,2-Dibromo-3-chloropropane	ND		6.1	1.3	1		1764	1765
1,2-Dibromoethane	ND		6.1	0.72	1		1764	1765
Dibromomethane	ND		6.1	0.82	1		1764	1765
1,4-Dichlorobenzene	ND		6.1	1.1	1		1764	1765
1,3-Dichlorobenzene	ND		6.1	0.92	1		1764	1765
1,2-Dichlorobenzene	ND		6.1	0.85	1		1764	1765
Dichlorodifluoromethane	ND		12	1.1	1		1764	1765
1,2-Dichloroethane	ND		6.1	0.84	1		1764	1765
1,1-Dichloroethane	ND		6.1	1.2	1		1764	1765
1,2-Dichloroethene, Total	ND		6.1	1.1	1		1764	1765
1,1-Dichloroethene	ND		6.1	1.3	1		1764	1765
cis-1,2-Dichloroethene	ND		6.1	1.1	1		1764	1765
trans-1,2-Dichloroethene	ND		6.1	1.2	1		1764	1765
1,3-Dichloropropane	ND		6.1	0.93	1		1764	1765
2,2-Dichloropropane	ND		6.1	0.92	1		1764	1765
1,2-Dichloropropane	ND		6.1	0.64	1		1764	1765
cis-1,3-Dichloropropene	ND		6.1	0.71	1		1764	1765
trans-1,3-Dichloropropene	ND		6.1	0.62	1		1764	1765
1,1-Dichloropropene	ND		6.1	1.0	1		1764	1765
Ethylbenzene	ND		6.1	1.0	1		1764	1765
Hexachlorobutadiene	ND		6.1	1.5	1		1764	1765
2-Hexanone	ND		12	0.81	1		1764	1765
Isopropylbenzene (Cumene)	ND		6.1	1.2	1		1764	1765
4-Isopropyltoluene	ND		6.1	1.1	1		1764	1765
Methyl tert-Butyl Ether (MTBE)	ND		6.1	0.85	1		1764	1765
Methyl Isobutyl Ketone (MIBK)	ND		12	1.3	1		1764	1765



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ANALYTICAL RESULTS

Workorder: H10040326 : Wilmuth No. 1

Project Number:

Lab ID: **H10040326009**
Sample ID: **MW-2 (1.5-3.0 FT)**

Date/Time Received: 4/13/2010 09:30 Matrix: Soil
Date/Time Collected: 4/5/2010 13:40

Parameters	Results					Batch Information	
	ug/kg-dry	Qual	Report Limit	MDL	DF	RegLmt	Prep Analysis
Methylene chloride	7.5		6.1	1.1	1		1764 1765
Naphthalene	ND		6.1	0.57	1		1764 1765
n-Propylbenzene	ND		6.1	0.98	1		1764 1765
Styrene	ND		6.1	0.87	1		1764 1765
1,1,1,2-Tetrachloroethane	ND		6.1	0.69	1		1764 1765
1,1,2,2-Tetrachloroethane	ND		6.1	0.73	1		1764 1765
Tetrachloroethene	ND		6.1	1.2	1		1764 1765
Toluene	ND		6.1	0.92	1		1764 1765
1,2,4-Trichlorobenzene	ND		6.1	0.76	1		1764 1765
1,2,3-Trichlorobenzene	ND		6.1	1.1	1		1764 1765
1,1,1-Trichloroethane	ND		6.1	1.1	1		1764 1765
1,1,2-Trichloroethane	ND		6.1	0.76	1		1764 1765
Trichloroethene	ND		6.1	1.1	1		1764 1765
Trichlorofluoromethane	ND		6.1	1.2	1		1764 1765
1,2,3-Trichloropropane	ND		6.1	0.98	1		1764 1765
1,3,5-Trimethylbenzene	ND		6.1	0.88	1		1764 1765
1,2,4-Trimethylbenzene	ND		6.1	1.1	1		1764 1765
Vinyl acetate	ND		12	1.0	1		1764 1765
Vinyl chloride	ND		12	1.5	1		1764 1765
m,p-Xylene	ND		6.1	2.0	1		1764 1765
o-Xylene	ND		6.1	0.92	1		1764 1765
Xylenes, Total	ND		6.1	0.92	1		1764 1765
4-Bromofluorobenzene (S)	72.5 %		62-130		1		1764 1765
1,2-Dichloroethane-d4 (S)	110 %		64-130		1		1764 1765
Toluene-d8 (S)	92 %		70-140		1		1764 1765

SEMIVOLATILES

Analysis Desc: SW-846 8270C

Preparation Batches:

Dry Weight Basis

Batch: 1623 SW-846 3550B on 04/16/2010 15:32 by QMT

Analytical Batches:

Batch: 1213 SW-846 8270C on 04/19/2010 21:25 by GEY

Parameters	Results					Batch Information	
	ug/kg-dry	Qual	Report Limit	MDL	DF	RegLmt	Prep Analysis
Acenaphthene	ND		200	45	1		1623 1213
Acenaphthylene	ND		200	52	1		1623 1213
Aniline	ND		200	73	1		1623 1213
Anthracene	ND		200	44	1		1623 1213
Benzo(a)anthracene	ND		200	55	1		1623 1213
Benzo(a)pyrene	ND		200	69	1		1623 1213



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ANALYTICAL RESULTS

Workorder: H10040326 : Wilmuth No. 1

Project Number:

Lab ID: H10040326009

Date/Time Received: 4/13/2010 09:30

Matrix: Soil

Sample ID: MW-2 (1.5-3.0 FT)

Date/Time Collected: 4/5/2010 13:40

Parameters	Results					Batch Information	
	ug/kg-dry	Qual	Report Limit	MDL	DF	RegLmt	Prep Analysis
Benzo(b)fluoranthene	ND		200	55	1	1623	1213
Benzo(g,h,i)perylene	ND		200	50	1	1623	1213
Benzo(k)fluoranthene	ND		200	65	1	1623	1213
Benzoic acid	ND		810	140	1	1623	1213
Benzyl alcohol	ND		200	59	1	1623	1213
4-Bromophenyl phenyl ether	ND		200	51	1	1623	1213
Butyl benzyl phthalate	ND		200	73	1	1623	1213
Carbazole	ND		200	42	1	1623	1213
4-Chloro-3-methylphenol	ND		200	57	1	1623	1213
4-Chloroaniline	ND		200	47	1	1623	1213
Bis(2-Chloroethoxy)methane	ND		200	80	1	1623	1213
Bis(2-Chloroethyl)ether	ND		200	51	1	1623	1213
bis(2-Chloroisopropyl)ether	ND		200	57	1	1623	1213
2-Chloronaphthalene	ND		200	46	1	1623	1213
2-Chlorophenol	ND		200	46	1	1623	1213
4-Chlorophenyl phenyl ether	ND		200	56	1	1623	1213
Chrysene	ND		200	66	1	1623	1213
Cresols, Total	ND		200	47	1	1623	1213
Dibenz(a,h)anthracene	ND		200	57	1	1623	1213
Dibenzofuran	ND		200	48	1	1623	1213
1,4-Dichlorobenzene	ND		200	42	1	1623	1213
1,3-Dichlorobenzene	ND		200	180	1	1623	1213
1,2-Dichlorobenzene	ND		200	45	1	1623	1213
3,3'-Dichlorobenzidine	ND		200	54	1	1623	1213
2,4-Dichlorophenol	ND		200	47	1	1623	1213
Diethyl phthalate	ND		200	52	1	1623	1213
Dimethyl phthalate	ND		200	48	1	1623	1213
2,4-Dimethylphenol	ND		200	48	1	1623	1213
4,6-Dinitro-2-methylphenol	ND		200	32	1	1623	1213
2,4-Dinitrophenol	ND		200	180	1	1623	1213
2,4-Dinitrotoluene	ND		200	59	1	1623	1213
2,6-Dinitrotoluene	ND		200	45	1	1623	1213
Diphenylamine	ND		400	120	1	1623	1213
1,2-Diphenylhydrazine	ND		200	39	1	1623	1213
bis(2-Ethylhexyl)phthalate	ND		200	42	1	1623	1213
Fluoranthene	ND		200	47	1	1623	1213
Fluorene	ND		200	47	1	1623	1213
Hexachlorobenzene	ND		200	50	1	1623	1213
Hexachlorobutadiene	ND		200	51	1	1623	1213
Hexachlorocyclopentadiene	ND		200	64	1	1623	1213



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ANALYTICAL RESULTS

Workorder: H10040326 : Wilmuth No. 1

Project Number:

Lab ID: **H10040326009**
Sample ID: **MW-2 (1.5-3.0 FT)**

Date/Time Received: 4/13/2010 09:30 Matrix: Soil
Date/Time Collected: 4/5/2010 13:40

Parameters	Results				DF	RegLmt	Batch Information	
	ug/kg-dry	Qual	Report Limit	MDL			Prep	Analysis
Hexachloroethane	ND		200	46	1		1623	1213
Indeno(1,2,3-cd)pyrene	ND		200	72	1		1623	1213
Isophorone	ND		200	45	1		1623	1213
2-Methylnaphthalene	ND		200	52	1		1623	1213
3 & 4-Methylphenol	ND		200	56	1		1623	1213
2-Methylphenol (o-Cresol)	ND		200	47	1		1623	1213
Naphthalene	ND		200	45	1		1623	1213
4-Nitroaniline	ND		200	52	1		1623	1213
2-Nitroaniline	ND		200	41	1		1623	1213
3-Nitroaniline	ND		200	31	1		1623	1213
Nitrobenzene	ND		200	47	1		1623	1213
4-Nitrophenol	ND		200	34	1		1623	1213
2-Nitrophenol	ND		200	46	1		1623	1213
n-Nitrosodiphenylamine	ND		400	120	1		1623	1213
Pentachlorophenol	ND		200	47	1		1623	1213
Phenanthrene	ND		200	45	1		1623	1213
Phenol	ND		200	54	1		1623	1213
Pyrene	ND		200	48	1		1623	1213
Pyridine	ND		200	83	1		1623	1213
1,2,4-Trichlorobenzene	ND		200	180	1		1623	1213
2,4,6-Trichlorophenol	ND		200	48	1		1623	1213
2,4,5-Trichlorophenol	ND		200	56	1		1623	1213
Di-n-butyl phthalate	ND		200	61	1		1623	1213
n-Nitrosodi-n-propylamine	ND		200	49	1		1623	1213
n-Nitrosodimethylamine	ND		200	44	1		1623	1213
Di-n-octyl phthalate	ND		200	63	1		1623	1213
2-Fluorobiphenyl (S)	83.4 %		15-140		1		1623	1213
2-Fluorophenol (S)	94 %		15-122		1		1623	1213
Nitrobenzene-d5 (S)	81.7 %		10-134		1		1623	1213
Phenol-d6 (S)	105 %		10-123		1		1623	1213
Terphenyl-d14 (S)	95 %		18-166		1		1623	1213
2,4,6-Tribromophenol (S)	92.5 %		19-135		1		1623	1213

Analysis Desc: EPA 310.1

Preparation Batches:

Dry Weight Basis

Batch: 1426 Water Leachate on 04/20/2010 00:00 by TY

Analytical Batches:

Batch: 2853 EPA 310.1 on 04/16/2010 16:30 by PAC

Parameters	Results				DF	RegLmt	Batch Information	
	mg/kg-dry	Qual	Report Limit	MDL			Prep	Analysis



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ANALYTICAL RESULTS

Workorder: H10040326 : Wilmoth No. 1

Project Number:

Lab ID: **H10040326009**
Sample ID: **MW-2 (1.5-3.0 FT)**

Date/Time Received: 4/13/2010 09:30 Matrix: Soil
Date/Time Collected: 4/5/2010 13:40

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information	
	mg/kg-dry						Prep	Analysis
Alkalinity, total as CaCO ₃	170		24.3	8.14	1		1426	2853

WET CHEMISTRY

Analysis Desc: EPA 9045D

Analytical Batches:

Dry Weight Basis

Batch: 2371 EPA 9045D on 04/16/2010 14:00 by PAC

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information	
	SU						Prep	Analysis
pH	7.79				1			2371
Temperature (oC)	23 °C				1			2371

Analysis Desc: ASTM D2216

Analytical Batches:

Dry Weight Basis

Batch: 2863 ASTM D2216 on 04/20/2010 00:00 by EB1

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information	
	%						Prep	Analysis
Percent Moisture	17.6				1			2863

METALS

Analysis Desc: SW-846 7471A

Preparation Batches:

Dry Weight Basis

Batch: 1121 SW-846 7471A on 04/19/2010 11:25 by F_S

Analytical Batches:

Batch: 1111 SW-846 7471A on 04/19/2010 13:12 by R_V

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information	
	mg/kg-dry						Prep	Analysis
Mercury	ND		0.0364	0.00777	1		1121	1111

Gasoline Range Organics (GRO)

Analysis Desc: SW-846 8015B GRO Gas

Preparation Batches:

Dry Weight Basis

Batch: 1267 SW-846 8015B GRO Gas on 04/16/2010 14:51 by GCV

Analytical Batches:

Batch: 1268 SW-846 8015B GRO Gas on 04/16/2010 23:40 by WLV

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information	
	mg/kg-dry						Prep	Analysis
Gasoline Range Organics	ND		0.12	0.036	1		1267	1268
1,4-Difluorobenzene (S)	98.3 %		63-142		1		1267	1268



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ANALYTICAL RESULTS

Workorder: H10040326 : Wilmuth No. 1

Project Number:

Lab ID: H10040326009

Date/Time Received: 4/13/2010 09:30

Matrix: Soil

Sample ID: MW-2 (1.5-3.0 FT)

Date/Time Collected: 4/5/2010 13:40

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information	
	mg/kg-dry						Prep	Analysis
4-Bromofluorobenzene (S)	93.5 %		50-159		1		1267	1268



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ANALYTICAL RESULTS

Workorder: H10040326 : Wilmuth No. 1

Project Number:

Lab ID: H10040326010

Date/Time Received: 4/13/2010 09:30 Matrix: Soil

Sample ID: MW-2 (9-11 FT)

Date/Time Collected: 4/6/2010 16:15

WET CHEMISTRY

Analysis Desc: EPA 300.0

Preparation Batches:

Dry Weight Basis

Batch: 1432 Soil Leachage (IC) on 04/17/2010 00:00 by WETC

Analytical Batches:

Batch: 1255 EPA 300.0 on 04/17/2010 13:24 by CFS

Parameters	Results					Batch Information		
	mg/kg-dry	Qual	Report Limit	MDL	DF	RegLmt	Prep	Analysis
Bromide	ND		6.36	0.405	1		1432	1255
Chloride	13.4		6.36	0.417	1		1432	1255
Fluoride	ND		6.36	0.346	1		1432	1255
Nitrogen, Nitrate (As N)	ND	Q	6.36	0.344	1		1430	1254
Nitrogen, Nitrite (As N)	ND	Q	6.36	0.335	1		1430	1254
Orthophosphate (As P)	ND		6.36	0.411	1		1432	1255
Sulfate	134		6.36	0.251	1		1432	1255

PHYSICAL PROPERTIES

Analysis Desc: EPA 120.1 (Water Extraction)

Analytical Batches:

Dry Weight Basis

Batch: 2846 EPA 120.1 (Water Extraction) on 04/16/2010 17:15 by PAC

Parameters	Results					Batch Information		
	umhos/cm @ 25C	Qual	Report Limit	MDL	DF	RegLmt	Prep	Analysis
Specific Conductivity	706	Q	100	6.47	1			2846

SEMIVOLATILE HYDROCARBONS

Analysis Desc: SW-846 8015B Fuels

Preparation Batches:

Dry Weight Basis

Batch: 1624 SW-846 3550B on 04/16/2010 16:22 by QMT

Analytical Batches:

Batch: 1428 SW-846 8015B Fuels on 04/19/2010 23:39 by NDW

Parameters	Results					Batch Information		
	mg/kg-dry	Qual	Report Limit	MDL	DF	RegLmt	Prep	Analysis
Diesel Range Organics(C10-C28)	ND		6.4	1.3	1		1624	1428
n-Pentacosane (S)	84.8 %		20-154		1		1624	1428

ICP METALS



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ANALYTICAL RESULTS

Workorder: H10040326 : Wilmuth No. 1

Project Number:

Lab ID: H10040326010

Date/Time Received: 4/13/2010 09:30 Matrix: Soil

Sample ID: MW-2 (9-11 FT)

Date/Time Collected: 4/6/2010 16:15

Analysis Desc: SW-846 6010B

Preparation Batches:

Dry Weight Basis

Batch: 1671 SW-846 3050A on 04/18/2010 12:30 by R_V

Analytical Batches:

Batch: 1349 SW-846 6010E on 04/22/2010 10:04 by EBG DF = 1.

Batch: 1357 SW-846 6010E on 04/22/2010 10:04 by EBG DF = 1.

Parameters	Results		Report Limit	MDL	DF	RegLmt	Batch Information	
	mg/kg-dry	Qual					Prep	Analysis
Aluminum	14200		12.7	6.12	1		1671	1357
Arsenic	5.17		0.636	0.218	1		1671	1349
Barium	193		0.636	0.0230	1		1671	1349
Boron	2.91		1.27	0.0681	1		1671	1357
Cadmium	ND		0.636	0.0214	1		1671	1349
Chromium	10.2		0.636	0.0845	1		1671	1349
Cobalt	6.46		0.636	0.0427	1		1671	1349
Copper	13.7		0.636	0.100	1		1671	1349
Iron	17500		1.27	0.383	1		1671	1349
Lead	8.97		0.636	0.135	1		1671	1349
Manganese	370		0.636	0.0551	1		1671	1349
Molybdenum	ND		0.636	0.0444	1		1671	1349
Nickel	8.47		0.636	0.0509	1		1671	1349
Selenium	ND		0.636	0.252	1		1671	1349
Silver	ND		0.636	0.0789	1		1671	1349
Zinc	47.5		1.27	0.275	1		1671	1349

VOLATILES

Analysis Desc: SW-846 8260B

Preparation Batches:

Dry Weight Basis

Batch: 1764 SW-846 5030 on 04/16/2010 10:49 by TLE

Analytical Batches:

Batch: 1765 SW-846 8260B on 04/16/2010 19:59 by TLE

Parameters	Results		Report Limit	MDL	DF	RegLmt	Batch Information	
	ug/kg-dry	Qual					Prep	Analysis
2-Butanone	ND		25	8.5	1		1764	1765
Acetone	ND		130	14	1		1764	1765
Acrylonitrile	ND		64	6.3	1		1764	1765
Benzene	ND		6.4	1.0	1		1764	1765
Bromobenzene	ND		6.4	0.76	1		1764	1765
Bromochloromethane	ND		6.4	0.92	1		1764	1765
Bromodichloromethane	ND		6.4	0.79	1		1764	1765
Bromoform	ND		6.4	0.64	1		1764	1765



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ANALYTICAL RESULTS

Workorder: H10040326 : Wilmuth No. 1

Project Number:

Lab ID: H10040326010

Date/Time Received: 4/13/2010 09:30

Matrix: Soil

Sample ID: MW-2 (9-11 FT)

Date/Time Collected: 4/6/2010 16:15

Parameters	Results					Batch Information	
	ug/kg-dry	Qual	Report Limit	MDL	DF	RegLmt	Prep Analysis
Bromomethane	ND		13	1.3	1		1764 1765
n-Butylbenzene	ND		6.4	1.3	1		1764 1765
sec-Butylbenzene	ND		6.4	1.2	1		1764 1765
tert-Butylbenzene	ND		6.4	1.3	1		1764 1765
Carbon disulfide	ND		6.4	1.1	1		1764 1765
Carbon tetrachloride	ND		6.4	0.99	1		1764 1765
Chlorobenzene	ND		6.4	0.91	1		1764 1765
Chloroethane	ND		13	1.4	1		1764 1765
2-Chloroethylvinyl ether	ND		13	1.6	1		1764 1765
Chloroform	ND		6.4	1.1	1		1764 1765
Chloromethane	ND		13	1.3	1		1764 1765
4-Chlorotoluene	ND		6.4	1.0	1		1764 1765
2-Chlorotoluene	ND		6.4	0.88	1		1764 1765
Dibromochloromethane	ND		6.4	0.69	1		1764 1765
1,2-Dibromo-3-chloropropane	ND		6.4	1.3	1		1764 1765
1,2-Dibromoethane	ND		6.4	0.76	1		1764 1765
Dibromomethane	ND		6.4	0.86	1		1764 1765
1,4-Dichlorobenzene	ND		6.4	1.1	1		1764 1765
1,3-Dichlorobenzene	ND		6.4	0.96	1		1764 1765
1,2-Dichlorobenzene	ND		6.4	0.89	1		1764 1765
Dichlorodifluoromethane	ND		13	1.2	1		1764 1765
1,2-Dichloroethane	ND		6.4	0.88	1		1764 1765
1,1-Dichloroethane	ND		6.4	1.3	1		1764 1765
1,2-Dichloroethene, Total	ND		6.4	1.1	1		1764 1765
1,1-Dichloroethene	ND		6.4	1.3	1		1764 1765
cis-1,2-Dichloroethene	ND		6.4	1.1	1		1764 1765
trans-1,2-Dichloroethene	ND		6.4	1.2	1		1764 1765
1,3-Dichloropropane	ND		6.4	0.97	1		1764 1765
2,2-Dichloropropane	ND		6.4	0.96	1		1764 1765
1,2-Dichloropropane	ND		6.4	0.67	1		1764 1765
cis-1,3-Dichloropropene	ND		6.4	0.74	1		1764 1765
trans-1,3-Dichloropropene	ND		6.4	0.65	1		1764 1765
1,1-Dichloropropene	ND		6.4	1.1	1		1764 1765
Ethylbenzene	ND		6.4	1.1	1		1764 1765
Hexachlorobutadiene	ND		6.4	1.5	1		1764 1765
2-Hexanone	ND		13	0.84	1		1764 1765
Isopropylbenzene (Cumene)	ND		6.4	1.3	1		1764 1765
4-Isopropyltoluene	ND		6.4	1.2	1		1764 1765
Methyl tert-Butyl Ether (MTBE)	ND		6.4	0.89	1		1764 1765
Methyl Isobutyl Ketone (MIBK)	ND		13	1.3	1		1764 1765



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ANALYTICAL RESULTS

Workorder: H10040326 : Wilmuth No. 1

Project Number:

Lab ID: H10040326010

Date/Time Received: 4/13/2010 09:30 Matrix: Soil

Sample ID: MW-2 (9-11 FT)

Date/Time Collected: 4/6/2010 16:15

Parameters	Results					Batch Information	
	ug/kg-dry	Qual	Report Limit	MDL	DF	RegLmt	Prep Analysis
Methylene chloride	8.0		6.4	1.1	1		1764 1765
Naphthalene	ND		6.4	0.60	1		1764 1765
n-Propylbenzene	ND		6.4	1.0	1		1764 1765
Styrene	ND		6.4	0.91	1		1764 1765
1,1,1,2-Tetrachloroethane	ND		6.4	0.72	1		1764 1765
1,1,2,2-Tetrachloroethane	ND		6.4	0.76	1		1764 1765
Tetrachloroethene	ND		6.4	1.3	1		1764 1765
Toluene	ND		6.4	0.96	1		1764 1765
1,2,4-Trichlorobenzene	ND		6.4	0.79	1		1764 1765
1,2,3-Trichlorobenzene	ND		6.4	1.2	1		1764 1765
1,1,1-Trichloroethane	ND		6.4	1.1	1		1764 1765
1,1,2-Trichloroethane	ND		6.4	0.79	1		1764 1765
Trichloroethene	ND		6.4	1.2	1		1764 1765
Trichlorofluoromethane	ND		6.4	1.3	1		1764 1765
1,2,3-Trichloropropane	ND		6.4	1.0	1		1764 1765
1,3,5-Trimethylbenzene	ND		6.4	0.92	1		1764 1765
1,2,4-Trimethylbenzene	ND		6.4	1.1	1		1764 1765
Vinyl acetate	ND		13	1.1	1		1764 1765
Vinyl chloride	ND		13	1.6	1		1764 1765
m,p-Xylene	ND		6.4	2.1	1		1764 1765
o-Xylene	ND		6.4	0.96	1		1764 1765
Xylenes, Total	ND		6.4	0.96	1		1764 1765
4-Bromofluorobenzene (S)	73.1 %		62-130		1		1764 1765
1,2-Dichloroethane-d4 (S)	113 %		64-130		1		1764 1765
Toluene-d8 (S)	90.6 %		70-140		1		1764 1765

SEMIVOLATILES

Analysis Desc: SW-846 8270C

Preparation Batches:

Dry Weight Basis

Batch: 1623 SW-846 3550B on 04/16/2010 15:32 by QMT

Analytical Batches:

Batch: 1213 SW-846 8270C on 04/19/2010 21:57 by GEY

Parameters	Results					Batch Information	
	ug/kg-dry	Qual	Report Limit	MDL	DF	RegLmt	Prep Analysis
Acenaphthene	ND		210	47	1		1623 1213
Acenaphthylene	ND		210	54	1		1623 1213
Aniline	ND		210	77	1		1623 1213
Anthracene	ND		210	46	1		1623 1213
Benzo(a)anthracene	ND		210	58	1		1623 1213
Benzo(a)pyrene	ND		210	72	1		1623 1213



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ANALYTICAL RESULTS

Workorder: H10040326 : Wilmuth No. 1

Project Number:

Lab ID: H10040326010

Date/Time Received: 4/13/2010 09:30

Matrix: Soil

Sample ID: MW-2 (9-11 FT)

Date/Time Collected: 4/6/2010 16:15

Parameters	Results					Batch Information	
	ug/kg-dry	Qual	Report Limit	MDL	DF	RegLmt	Prep Analysis
Benzo(b)fluoranthene	ND		210	58	1		1623 1213
Benzo(g,h,i)perylene	ND		210	53	1		1623 1213
Benzo(k)fluoranthene	ND		210	68	1		1623 1213
Benzoic acid	ND		850	140	1		1623 1213
Benzyl alcohol	ND		210	61	1		1623 1213
4-Bromophenyl phenyl ether	ND		210	53	1		1623 1213
Butyl benzyl phthalate	ND		210	76	1		1623 1213
Carbazole	ND		210	45	1		1623 1213
4-Chloro-3-methylphenol	ND		210	60	1		1623 1213
4-Chloroaniline	ND		210	50	1		1623 1213
Bis(2-Chloroethoxy)methane	ND		210	84	1		1623 1213
Bis(2-Chloroethyl)ether	ND		210	53	1		1623 1213
bis(2-Chloroisopropyl)ether	ND		210	60	1		1623 1213
2-Chloronaphthalene	ND		210	48	1		1623 1213
2-Chlorophenol	ND		210	48	1		1623 1213
4-Chlorophenyl phenyl ether	ND		210	58	1		1623 1213
Chrysene	ND		210	69	1		1623 1213
Cresols, Total	ND		210	50	1		1623 1213
Dibenz(a,h)anthracene	ND		210	60	1		1623 1213
Dibenzofuran	ND		210	50	1		1623 1213
1,4-Dichlorobenzene	ND		210	44	1		1623 1213
1,3-Dichlorobenzene	ND		210	190	1		1623 1213
1,2-Dichlorobenzene	ND		210	47	1		1623 1213
3,3'-Dichlorobenzidine	ND		210	57	1		1623 1213
2,4-Dichlorophenol	ND		210	50	1		1623 1213
Diethyl phthalate	ND		210	55	1		1623 1213
Dimethyl phthalate	ND		210	50	1		1623 1213
2,4-Dimethylphenol	ND		210	51	1		1623 1213
4,6-Dinitro-2-methylphenol	ND		210	33	1		1623 1213
2,4-Dinitrophenol	ND		210	190	1		1623 1213
2,4-Dinitrotoluene	ND		210	62	1		1623 1213
2,6-Dinitrotoluene	ND		210	47	1		1623 1213
Diphenylamine	ND		420	120	1		1623 1213
1,2-Diphenylhydrazine	ND		210	41	1		1623 1213
bis(2-Ethylhexyl)phthalate	ND		210	44	1		1623 1213
Fluoranthene	ND		210	50	1		1623 1213
Fluorene	ND		210	49	1		1623 1213
Hexachlorobenzene	ND		210	52	1		1623 1213
Hexachlorobutadiene	ND		210	53	1		1623 1213
Hexachlorocyclopentadiene	ND		210	67	1		1623 1213



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ANALYTICAL RESULTS

Workorder: H10040326 : Wilmuth No. 1

Project Number:

Lab ID: H10040326010

Date/Time Received: 4/13/2010 09:30

Matrix: Soil

Sample ID: MW-2 (9-11 FT)

Date/Time Collected: 4/6/2010 16:15

Parameters	Results			MDL	DF	RegLmt	Batch Information	
	ug/kg-dry	Qual	Report Limit				Prep	Analysis
Hexachloroethane	ND		210	48	1		1623	1213
Indeno(1,2,3-cd)pyrene	ND		210	75	1		1623	1213
Isophorone	ND		210	47	1		1623	1213
2-Methylnaphthalene	ND		210	55	1		1623	1213
3 & 4-Methylphenol	ND		210	59	1		1623	1213
2-Methylphenol (o-Cresol)	ND		210	50	1		1623	1213
Naphthalene	ND		210	47	1		1623	1213
4-Nitroaniline	ND		210	54	1		1623	1213
2-Nitroaniline	ND		210	43	1		1623	1213
3-Nitroaniline	ND		210	33	1		1623	1213
Nitrobenzene	ND		210	49	1		1623	1213
4-Nitrophenol	ND		210	36	1		1623	1213
2-Nitrophenol	ND		210	48	1		1623	1213
n-Nitrosodiphenylamine	ND		420	120	1		1623	1213
Pentachlorophenol	ND		210	49	1		1623	1213
Phenanthrene	ND		210	47	1		1623	1213
Phenol	ND		210	57	1		1623	1213
Pyrene	ND		210	51	1		1623	1213
Pyridine	ND		210	87	1		1623	1213
1,2,4-Trichlorobenzene	ND		210	190	1		1623	1213
2,4,6-Trichlorophenol	ND		210	50	1		1623	1213
2,4,5-Trichlorophenol	ND		210	58	1		1623	1213
Di-n-butyl phthalate	ND		210	64	1		1623	1213
n-Nitrosodi-n-propylamine	ND		210	51	1		1623	1213
n-Nitrosodimethylamine	ND		210	46	1		1623	1213
Di-n-octyl phthalate	ND		210	66	1		1623	1213
2-Fluorobiphenyl (S)	73 %		15-140		1		1623	1213
2-Fluorophenol (S)	86 %		15-122		1		1623	1213
Nitrobenzene-d5 (S)	75.4 %		10-134		1		1623	1213
Phenol-d6 (S)	92 %		10-123		1		1623	1213
Terphenyl-d14 (S)	85.3 %		18-166		1		1623	1213
2,4,6-Tribromophenol (S)	77.1 %		19-135		1		1623	1213

Analysis Desc: EPA 310.1

Preparation Batches:

Dry Weight Basis

Batch: 1426 Water Leachate on 04/16/2010 00:00 by ESK

Analytical Batches:

Batch: 2853 EPA 310.1 on 04/16/2010 16:30 by PAC

Parameters	Results			MDL	DF	RegLmt	Batch Information	
	mg/kg-dry	Qual	Report Limit				Prep	Analysis



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ANALYTICAL RESULTS

Workorder: H10040326 : Wilmuth No. 1

Project Number:

Lab ID: **H10040326010**

Date/Time Received: 4/13/2010 09:30

Matrix: Soil

Sample ID: **MW-2 (9-11 FT)**

Date/Time Collected: 4/6/2010 16:15

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information	
	mg/kg-dry						Prep	Analysis
Alkalinity, total as CaCO3	76.3		25.4	8.54	1		1426	2853

WET CHEMISTRY

Analysis Desc: EPA 9045D

Analytical Batches:

Dry Weight Basis

Batch: 2371 EPA 9045D on 04/16/2010 14:00 by PAC

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information	
	SU						Prep	Analysis
pH	7.82				1			2371
Temperature (oC)	22 °C				1			2371

Analysis Desc: ASTM D2216

Analytical Batches:

Dry Weight Basis

Batch: 2863 ASTM D2216 on 04/20/2010 00:00 by EB1

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information	
	%						Prep	Analysis
Percent Moisture	21.4				1			2863

METALS

Analysis Desc: SW-846 7471A

Preparation Batches:

Dry Weight Basis

Batch: 1121 SW-846 7471A on 04/19/2010 11:25 by F_S

Analytical Batches:

Batch: 1111 SW-846 7471A on 04/19/2010 13:15 by R_V

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information	
	mg/kg-dry						Prep	Analysis
Mercury	ND		0.0382	0.00814	1		1121	1111

Gasoline Range Organics (GRO)

Analysis Desc: SW-846 8015B GRO Gas

Preparation Batches:

Dry Weight Basis

Batch: 1267 SW-846 8015B GRO Gas on 04/16/2010 14:51 by GCV

Analytical Batches:

Batch: 1268 SW-846 8015B GRO Gas on 04/17/2010 00:09 by WLW

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information	
	mg/kg-dry						Prep	Analysis
Gasoline Range Organics	ND		0.13	0.038	1		1267	1268
1,4-Difluorobenzene (S)	99.1 %		63-142		1		1267	1268



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ANALYTICAL RESULTS

Workorder: H10040326 : Wilmuth No. 1

Project Number:

Lab ID: **H10040326010**

Date/Time Received: 4/13/2010 09:30 Matrix: Soil

Sample ID: **MW-2 (9-11 FT)**

Date/Time Collected: 4/6/2010 16:15

Parameters	Results		Report Limit	MDL	DF	RegLmt	Batch Information	
	mg/kg-dry	Qual					Prep	Analysis
4-Bromofluorobenzene (S)	94.4 %		50-159		1		1267	1268



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QUALITY CONTROL DATA

Workorder: H10040326 : Wilmuth No. 1

Project Number:

QC Batch: EXT0/1623

Analysis Method: SW-846 8270C

QC Batch Method: SW-846 3550B

Preparation: 04/16/2010 15:31 by QMT

Associated Lab Samples: H10040326001 H10040326002 H10040326003 H10040326004 H10040326005 H10040326006
H10040326007 H10040326008 H10040326009 H10040326010

METHOD BLANK: 39645

Analysis Date/Time Analyst: 04/19/2010 15:02 GEY

Parameter	Units	Blank Result	Qualifiers	Reporting Limit
Acenaphthene	ug/kg	ND		170
Acenaphthylene	ug/kg	ND		170
Aniline	ug/kg	ND		170
Anthracene	ug/kg	ND		170
Benzo(a)anthracene	ug/kg	ND		170
Benzo(a)pyrene	ug/kg	ND		170
Benzo(b)fluoranthene	ug/kg	ND		170
Benzo(g,h,i)perylene	ug/kg	ND		170
Benzo(k)fluoranthene	ug/kg	ND		170
Benzoic acid	ug/kg	ND		670
Benzyl alcohol	ug/kg	ND		170
Bis(2-Chloroethoxy)methane	ug/kg	ND		170
Bis(2-Chloroethyl)ether	ug/kg	ND		170
bis(2-Chloroisopropyl)ether	ug/kg	ND		170
bis(2-Ethylhexyl)phthalate	ug/kg	ND		170
4-Bromophenyl phenyl ether	ug/kg	ND		170
Butyl benzyl phthalate	ug/kg	ND		170
Carbazole	ug/kg	ND		170
4-Chloro-3-methylphenol	ug/kg	ND		170
4-Chloroaniline	ug/kg	ND		170
2-Chloronaphthalene	ug/kg	ND		170
2-Chlorophenol	ug/kg	ND		170
4-Chlorophenyl phenyl ether	ug/kg	ND		170
Chrysene	ug/kg	ND		170
Cresols, Total	ug/kg	ND		170
Di-n-butyl phthalate	ug/kg	ND		170
Di-n-octyl phthalate	ug/kg	ND		170
Dibenz(a,h)anthracene	ug/kg	ND		170
Dibenzofuran	ug/kg	ND		170
1,3-Dichlorobenzene	ug/kg	ND		170
1,2-Dichlorobenzene	ug/kg	ND		170
1,4-Dichlorobenzene	ug/kg	ND		170
2,4-Dichlorophenol	ug/kg	ND		170
Diethyl phthalate	ug/kg	ND		170
Dimethyl phthalate	ug/kg	ND		170
2,4-Dimethylphenol	ug/kg	ND		170
4,6-Dinitro-2-methylphenol	ug/kg	ND		170
2,4-Dinitrophenol	ug/kg	ND		170
2,6-Dinitrotoluene	ug/kg	ND		170

QC results presented in the QC Control Data have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules. Also, MS/MSD % recoveries are calculated by the SPL LIMS using any detected value greater than the MDL.



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QUALITY CONTROL DATA

Workorder: H10040326 : Wilmuth No. 1

Project Number:

METHOD BLANK: 39645

Analysis Date/Time Analyst: 04/19/2010 15:02 GEY

Parameter	Units	Blank Result	Qualifiers	Reporting Limit
2,4-Dinitrotoluene	ug/kg	ND		170
Diphenylamine	ug/kg	ND		330
1,2-Diphenylhydrazine	ug/kg	ND		170
Fluoranthene	ug/kg	ND		170
Fluorene	ug/kg	ND		170
Hexachlorobenzene	ug/kg	ND		170
Hexachlorobutadiene	ug/kg	ND		170
Hexachlorocyclopentadiene	ug/kg	ND		170
Hexachloroethane	ug/kg	ND		170
Indeno(1,2,3-cd)pyrene	ug/kg	ND		170
Isophorone	ug/kg	ND		170
2-Methylnaphthalene	ug/kg	ND		170
2-Methylphenol (o-Cresol)	ug/kg	ND		170
3 & 4-Methylphenol	ug/kg	ND		170
n-Nitrosodi-n-propylamine	ug/kg	ND		170
n-Nitrosodimethylamine	ug/kg	ND		170
n-Nitrosodiphenylamine	ug/kg	ND		330
Naphthalene	ug/kg	ND		170
3-Nitroaniline	ug/kg	ND		170
4-Nitroaniline	ug/kg	ND		170
2-Nitroaniline	ug/kg	ND		170
Nitrobenzene	ug/kg	ND		170
2-Nitrophenol	ug/kg	ND		170
4-Nitrophenol	ug/kg	ND		170
Pentachlorophenol	ug/kg	ND		170
Phenanthrene	ug/kg	ND		170
Phenol	ug/kg	ND		170
Pyrene	ug/kg	ND		170
Pyridine	ug/kg	ND		170
1,2,4-Trichlorobenzene	ug/kg	ND		170
2,4,6-Trichlorophenol	ug/kg	ND		170
2,4,5-Trichlorophenol	ug/kg	ND		170
3,3'-Dichlorobenzidine	ug/kg	ND		170
2-Fluorobiphenyl (S)	%	79.2		15-140
2-Fluorophenol (S)	%	86.9		15-122
Nitrobenzene-d5 (S)	%	77		10-134
Phenol-d6 (S)	%	93.1		10-123
Terphenyl-d14 (S)	%	87.4		18-166
2,4,6-Tribromophenol (S)	%	83.3		19-135

QC results presented in the QC Control Data have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules. Also, MS/MSD % recoveries are calculated by the SPL LIMS using any detected value greater than the MDL.



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QUALITY CONTROL DATA

Workorder: H10040326 : Willmuth No. 1

Project Number:

LABORATORY CONTROL SAMPLE: 39646

Analysis Date/Time Analyst: 04/19/2010 17:43 GEY

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits
Acenaphthene	ug/kg	830	753	90.4	30-160
Acenaphthylene	ug/kg	830	807	96.9	10-150
Aniline	ug/kg	1700	1510	90.4	10-160
Anthracene	ug/kg	830	754	90.5	27-133
Benzo(a)anthracene	ug/kg	830	805	96.6	33-143
Benzo(a)pyrene	ug/kg	830	680	81.6	17-163
Benzo(b)fluoranthene	ug/kg	830	782	93.8	24-159
Benzo(g,h,i)perylene	ug/kg	830	871	105	10-219
Benzo(k)fluoranthene	ug/kg	830	817	98.0	11-162
Benzoic acid	ug/kg	830	759	91.0	10-450
Benzyl alcohol	ug/kg	830	806	96.7	30-160
Bis(2-Chloroethoxy)methane	ug/kg	830	792	95.1	33-184
Bis(2-Chloroethyl)ether	ug/kg	830	740	88.7	28-158
bis(2-Chloroisopropyl)ether	ug/kg	830	751	90.1	36-166
bis(2-Ethylhexyl)phthalate	ug/kg	830	702	84.2	10-158
4-Bromophenyl phenyl ether	ug/kg	830	771	92.5	20-175
Butyl benzyl phthalate	ug/kg	830	748	89.8	10-152
Carbazole	ug/kg	830	731	87.8	45-135
4-Chloro-3-methylphenol	ug/kg	830	817	98.1	22-147
4-Chloroaniline	ug/kg	830	819	98.2	20-175
2-Chloronaphthalene	ug/kg	830	751	90.1	20-175
2-Chlorophenol	ug/kg	830	771	92.5	23-134
4-Chlorophenyl phenyl ether	ug/kg	830	732	87.9	25-158
Chrysene	ug/kg	830	790	94.8	17-168
Cresols, Total	ug/kg	1700	1700	102	40-160
Di-n-butyl phthalate	ug/kg	830	704	84.4	40-132
Di-n-octyl phthalate	ug/kg	830	738	88.6	10-146
Dibenz(a,h)anthracene	ug/kg	830	831	99.7	10-227
Dibenzofuran	ug/kg	830	775	93.0	30-160
1,3-Dichlorobenzene	ug/kg	830	694	83.3	10-172
1,2-Dichlorobenzene	ug/kg	830	718	86.2	32-129
1,4-Dichlorobenzene	ug/kg	830	693	83.2	20-124
2,4-Dichlorophenol	ug/kg	830	818	98.2	39-135
Diethyl phthalate	ug/kg	830	731	87.7	10-160
Dimethyl phthalate	ug/kg	830	752	90.3	10-112
2,4-Dimethylphenol	ug/kg	830	804	96.5	32-119
4,6-Dinitro-2-methylphenol	ug/kg	830	703	84.3	10-181
2,4-Dinitrophenol	ug/kg	830	705	84.6	10-191
2,6-Dinitrotoluene	ug/kg	830	804	96.5	30-150
2,4-Dinitrotoluene	ug/kg	830	832	99.8	30-150
Diphenylamine	ug/kg	1700	1640	98.3	30-160
1,2-Diphenylhydrazine	ug/kg	830	815	97.8	10-256
Fluoranthene	ug/kg	830	738	88.5	26-137
Fluorene	ug/kg	830	764	91.7	35-135
Hexachlorobenzene	ug/kg	830	774	92.9	10-152

QC results presented in the QC Control Data have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules. Also, MS/MSD % recoveries are calculated by the SPL LIMS using any detected value greater than the MDL.



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QUALITY CONTROL DATA

Workorder: H10040326 : Wilmuth No. 1

Project Number:

LABORATORY CONTROL SAMPLE: 39646

Analysis Date/Time Analyst: 04/19/2010 17:43 GEY

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits
Hexachlorobutadiene	ug/kg	830	686	82.3	20-140
Hexachlorocyclopentadiene	ug/kg	830	691	82.9	10-152
Hexachloroethane	ug/kg	830	676	81.1	25-118
Indeno(1,2,3-cd)pyrene	ug/kg	830	886	106	10-171
Isophorone	ug/kg	830	882	106	21-196
2-Methylnaphthalene	ug/kg	830	807	96.8	30-135
2-Methylphenol (o-Cresol)	ug/kg	830	795	95.4	40-160
3 & 4-Methylphenol	ug/kg	830	907	109	40-160
n-Nitrosodi-n-propylamine	ug/kg	830	803	96.3	10-230
n-Nitrosodimethylamine	ug/kg	830	716	85.9	10-150
n-Nitrosodiphenylamine	ug/kg	1700	1640	98.3	30-160
Naphthalene	ug/kg	830	749	89.9	21-133
3-Nitroaniline	ug/kg	830	688	82.5	20-175
4-Nitroaniline	ug/kg	830	710	85.2	20-175
2-Nitroaniline	ug/kg	830	796	95.6	20-175
Nitrobenzene	ug/kg	830	771	92.5	35-180
2-Nitrophenol	ug/kg	830	768	92.2	29-182
4-Nitrophenol	ug/kg	830	623	74.7	10-132
Pentachlorophenol	ug/kg	830	757	90.8	14-176
Phenanthrene	ug/kg	830	755	90.6	35-135
Phenol	ug/kg	830	881	106	44-120
Pyrene	ug/kg	830	878	105	34-138
Pyridine	ug/kg	1700	1260	75.8	10-150
1,2,4-Trichlorobenzene	ug/kg	830	743	89.1	34-116
2,4,6-Trichlorophenol	ug/kg	830	779	93.5	37-144
2,4,5-Trichlorophenol	ug/kg	830	765	91.8	40-150
3,3'-Dichlorobenzidine	ug/kg	830	517	62.0	10-261
2-Fluorobiphenyl (S)	%			87.0	15-140
2-Fluorophenol (S)	%			101	15-122
Nitrobenzene-d5 (S)	%			91.1	10-134
Phenol-d6 (S)	%			111	10-132
Terphenyl-d14 (S)	%			97.7	18-166
2,4,6-Tribromophenol (S)	%			110	19-135

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 39647

39648

Original: H10040326001

MS Analysis Date/Time Analyst: 04/19/2010 22:29 GEY

MSD Analysis Date/Time Analyst: 04/19/2010 23:00 GEY

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
Acenaphthene	ug/kg	ND	910	665	724	79.7	86.9	30-160	8.6	31

QC results presented in the QC Control Data have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules. Also, MS/MSD % recoveries are calculated by the SPL LIMS using any detected value greater than the MDL.



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QUALITY CONTROL DATA

Workorder: H10040326 : Wilmuth No. 1

Project Number:

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 39647

39648

Original: H10040326001

MS Analysis Date/Time Analyst: 04/19/2010 22:29 GEY

MSD Analysis Date/Time Analyst: 04/19/2010 23:00 GEY

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
Acenaphthylene	ug/kg	ND	910	708	769	84.9	92.3	10-150	8.4	50
Aniline	ug/kg	ND	1900	1390	1470	83.5	88.3	10-160	5.6	60
Anthracene	ug/kg	ND	910	619	664	74.3	79.7	27-133	7.0	50
Benzo(a)anthracene	ug/kg	ND	910	684	743	82.0	89.2	33-143	8.3	50
Benzo(a)pyrene	ug/kg	ND	910	585	636	70.2	76.3	17-163	8.3	60
Benzo(b)fluoranthene	ug/kg	ND	910	719	770	86.3	92.4	24-159	6.8	60
Benzo(g,h,i)perylene	ug/kg	ND	910	783	843	94.0	101	10-219	7.4	60
Benzo(k)fluoranthene	ug/kg	ND	910	661	725	79.3	87.0	11-162	9.3	60
Benzoic acid	ug/kg	ND	910	210	230	22.8	24.7	10-450	8.4	60
Benzyl alcohol	ug/kg	ND	910	737	782	88.4	93.8	30-160	5.9	60
Bis(2-Chloroethoxy)methane	ug/kg	ND	910	680	738	81.7	88.6	33-184	8.2	60
Bis(2-Chloroethyl)ether	ug/kg	ND	910	671	698	80.5	83.7	28-158	3.9	60
bis(2-Chloroisopropyl)ether	ug/kg	ND	910	676	715	81.2	85.8	36-166	5.6	60
bis(2-Ethylhexyl)phthalate	ug/kg	ND	910	643	703	77.2	84.4	10-158	8.9	60
4-Bromophenyl phenyl ether	ug/kg	ND	910	648	694	77.8	83.2	20-175	6.8	60
Butyl benzyl phthalate	ug/kg	ND	910	654	715	78.4	85.8	10-152	9.0	60
Carbazole	ug/kg	ND	910	599	665	71.8	79.8	45-135	10.5	60
4-Chloro-3-methylphenol	ug/kg	ND	910	700	754	84.1	90.5	22-147	7.4	42
4-Chloroaniline	ug/kg	ND	910	804	904	96.5	109	20-175	11.7	60
2-Chloronaphthalene	ug/kg	ND	910	670	705	80.3	84.6	20-175	5.2	60
2-Chlorophenol	ug/kg	ND	910	691	749	82.9	89.9	23-134	8.1	40
4-Chlorophenyl phenyl ether	ug/kg	ND	910	648	702	77.8	84.3	25-158	8.0	60
Chrysene	ug/kg	ND	910	669	719	80.3	86.3	17-168	7.1	60
Cresols, Total	ug/kg	ND	1900	1520	1660	91.5	99.3	40-160	8.2	60
Di-n-butyl phthalate	ug/kg	ND	910	612	666	73.4	80.0	40-132	8.6	60
Di-n-octyl phthalate	ug/kg	ND	910	692	761	83.0	91.3	10-146	9.5	60
Dibenz(a,h)anthracene	ug/kg	ND	910	741	793	88.9	95.2	10-227	6.8	60
Dibenzofuran	ug/kg	ND	910	674	744	80.8	89.3	30-160	9.9	60
1,3-Dichlorobenzene	ug/kg	ND	910	642	652	77.0	78.2	10-172	1.5	60
1,2-Dichlorobenzene	ug/kg	ND	910	668	679	80.1	81.5	32-129	1.7	60
1,4-Dichlorobenzene	ug/kg	ND	910	641	652	76.9	78.2	20-124	1.7	28
2,4-Dichlorophenol	ug/kg	ND	910	702	757	84.2	90.8	39-135	7.5	60
Diethyl phthalate	ug/kg	ND	910	635	690	76.1	82.9	10-160	8.4	60
Dimethyl phthalate	ug/kg	ND	910	664	716	79.6	85.9	10-112	7.6	60
2,4-Dimethylphenol	ug/kg	ND	910	675	756	81.1	90.8	32-119	11.3	60
4,6-Dinitro-2-methylphenol	ug/kg	ND	910	552	607	66.2	72.8	10-181	9.6	60
2,4-Dinitrophenol	ug/kg	ND	910	518	574	62.1	68.9	10-191	10.3	60
2,6-Dinitrotoluene	ug/kg	ND	910	714	763	85.7	91.6	30-150	6.6	60
2,4-Dinitrotoluene	ug/kg	ND	910	715	766	85.8	91.9	30-150	6.9	50
Diphenylamine	ug/kg	ND	1900	1370	1460	82.1	87.7	30-160	6.6	50
1,2-Diphenylhydrazine	ug/kg	ND	910	680	717	81.6	86.1	10-256	5.3	60
Fluoranthene	ug/kg	ND	910	601	658	72.1	79.0	26-137	9.2	60

QC results presented in the QC Control Data have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules. Also, MS/MSD % recoveries are calculated by the SPL LIMS using any detected value greater than the MDL.



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QUALITY CONTROL DATA

Workorder: H10040326 : Wilmuth No. 1

Project Number:

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 39647 39648 Original: H10040326001

MS Analysis Date/Time Analyst: 04/19/2010 22:29 GEY

MSD Analysis Date/Time Analyst: 04/19/2010 23:00 GEY

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
Fluorene	ug/kg	ND	910	658	725	78.9	87.0	35-135	9.7	60
Hexachlorobenzene	ug/kg	ND	910	627	697	75.2	83.6	10-152	10.6	60
Hexachlorobutadiene	ug/kg	ND	910	611	643	73.3	77.1	20-140	5.1	60
Hexachlorocyclopentadiene	ug/kg	ND	910	486	540	58.4	64.8	10-152	10.5	60
Hexachloroethane	ug/kg	ND	910	614	642	73.7	77.0	25-118	4.4	60
Indeno(1,2,3-cd)pyrene	ug/kg	ND	910	783	873	94.0	105	10-171	10.8	60
Isophorone	ug/kg	ND	910	770	842	92.4	101	21-196	8.9	60
2-Methylnaphthalene	ug/kg	ND	910	705	768	84.6	92.2	30-135	8.6	60
2-Methylphenol (o-Cresol)	ug/kg	ND	910	714	773	85.7	92.7	40-160	7.9	60
3 & 4-Methylphenol	ug/kg	ND	910	811	882	97.3	106	40-160	8.5	60
n-Nitrosodi-n-propylamine	ug/kg	ND	910	670	714	80.4	85.6	10-230	6.3	38
n-Nitrosodimethylamine	ug/kg	ND	910	664	671	79.7	80.5	10-150	1.0	60
n-Nitrosodiphenylamine	ug/kg	ND	1900	1370	1460	82.1	87.7	30-160	6.6	60
Naphthalene	ug/kg	ND	910	677	730	81.3	87.6	21-133	7.5	60
3-Nitroaniline	ug/kg	ND	910	641	734	76.9	88.1	20-175	13.7	60
4-Nitroaniline	ug/kg	ND	910	609	675	73.1	81.0	20-175	10.3	60
2-Nitroaniline	ug/kg	ND	910	695	762	83.4	91.5	20-175	9.2	60
Nitrobenzene	ug/kg	ND	910	680	729	81.6	87.5	35-180	7.0	60
2-Nitrophenol	ug/kg	ND	910	664	744	79.7	89.3	29-182	11.4	60
4-Nitrophenol	ug/kg	ND	910	530	640	63.6	76.8	10-132	18.8	50
Pentachlorophenol	ug/kg	ND	910	193	275	23.2	33.0	14-176	35.0	50
Phenanthrene	ug/kg	ND	910	623	671	74.8	80.5	35-135	7.4	60
Phenol	ug/kg	ND	910	802	696	96.3	83.6	44-120	14.1	42
Pyrene	ug/kg	ND	910	733	784	88.0	94.0	34-138	6.6	31
Pyridine	ug/kg	ND	1900	1190	1160	71.3	69.4	10-150	2.7	60
1,2,4-Trichlorobenzene	ug/kg	ND	910	654	704	78.5	84.5	34-116	7.3	28
2,4,6-Trichlorophenol	ug/kg	ND	910	666	724	79.9	86.8	37-144	8.3	60
2,4,5-Trichlorophenol	ug/kg	ND	910	659	729	79.0	87.5	40-150	10.1	60
3,3'-Dichlorobenzidine	ug/kg	ND	910	569	640	68.2	76.8	10-261	11.8	60
2-Fluorobiphenyl (S)	%	54				80.0	86.6	15-140		30
2-Fluorophenol (S)	%	59.5				97.0	101	15-122		30
Nitrobenzene-d5 (S)	%	54				82.1	88.5	10-134		30
Phenol-d6 (S)	%	63.3				105	110	10-132		30
Terphenyl-d14 (S)	%	58.1				82.9	90.7	18-166		30
2,4,6-Tribromophenol (S)	%	54.9				88.3	97.4	19-135		30

QC results presented in the QC Control Data have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules. Also, MS/MSD % recoveries are calculated by the SPL LIMS using any detected value greater than the MDL.



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QUALITY CONTROL DATA

Workorder: H10040326 : Wilmuth No. 1

Project Number:

QC Batch: WCSH/2371

Analysis Method: EPA 9045D

QC Batch Method: EPA 9045D

Associated Lab Samples: H10040326001 H10040326002 H10040326003 H10040326004 H10040326005 H10040326006
H10040326007 H10040326008 H10040326009 H10040326010

LABORATORY CONTROL SAMPLE: 39658

Analysis Date/Time Analyst: 04/16/2010 14:00 PAC

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits
pH	SU	7	7.05	101	98-102

SAMPLE DUPLICATE: 39657

Original: H10040326001

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	DF
WET CHEMISTRY						
pH	SU	9.71	9.70	0.1	5	1
Temperature (oC)	°C	23	23	0.0		1

QC results presented in the QC Control Data have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules. Also, MS/MSD % recoveries are calculated by the SPL LIMS using any detected value greater than the MDL.



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QUALITY CONTROL DATA

Workorder: H10040326 : Wilmuth No. 1

Project Number:

QC Batch: EXT0/1624 Analysis Method: SW-846 8015B Fuels
QC Batch Method: SW-846 3550B Preparation: 04/16/2010 16:21 by QMT
Associated Lab Samples: H10040326001 H10040326002 H10040326003 H10040326004 H10040326005 H10040326006
H10040326007 H10040326008 H10040326009 H10040326010

METHOD BLANK: 39678

Analysis Date/Time Analyst: 04/19/2010 18:14 NDW

Parameter	Units	Blank Result	Qualifiers	Reporting Limit
Diesel Range Organics(C10-C28)	mg/kg	ND		5.0
n-Pentacosane (S)	%	76		20-154

LABORATORY CONTROL SAMPLE: 39679

Analysis Date/Time Analyst: 04/19/2010 18:35 NDW

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits
Diesel Range Organics(C10-C28)	mg/kg	33	23.5	70.4	50-150
n-Pentacosane (S)	%			76.9	20-154

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 39680 39681 Original: H10040326001

MS Analysis Date/Time Analyst: 04/19/2010 19:15 NDW

MSD Analysis Date/Time Analyst: 04/19/2010 19:35 NDW

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
Diesel Range Organics(C10-C28)	mg/kg	2.4	36	31.7	31.1	88.9	87.0	21-175	2.0	50
n-Pentacosane (S)	%	83.8				92.9	95.2	20-154		50

QC results presented in the QC Control Data have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules. Also, MS/MSD % recoveries are calculated by the SPL LIMS using any detected value greater than the MDL.



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QUALITY CONTROL DATA

Workorder: H10040326 : Wilmuth No. 1

Project Number:

QC Batch: WETC/2846 Analysis Method: EPA 120.1 (Water Extraction)

QC Batch Method: EPA 120.1 (Water Extraction)

Associated Lab Samples: H10040326001 H10040326002 H10040326003 H10040326004 H10040326005 H10040326006
H10040326007 H10040326008 H10040326009 H10040326010

METHOD BLANK: 39743

Analysis Date/Time Analyst: 04/16/2010 17:15 PAC

Parameter	Units	Blank Result	Qualifiers	Reporting Limit
Specific Conductivity	umhos/cm @ 25C	ND		100

LABORATORY CONTROL SAMPLE: 39744

Analysis Date/Time Analyst: 04/16/2010 17:15 PAC

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits
Specific Conductivity	umhos/cm @ 25C	1410	1398	98.9	90-110

SAMPLE DUPLICATE: 39745

Original: H10040326001

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	DF
PHYSICAL PROPERTIES						
Specific Conductivity	umhos/c	2950	2950	0.0	10	1

QC results presented in the QC Control Data have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules. Also, MS/MSD % recoveries are calculated by the SPL LIMS using any detected value greater than the MDL.



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QUALITY CONTROL DATA

Workorder: H10040326 : Wilmuth No. 1

Project Number:

QC Batch:	WETP/1426	Analysis Method:	EPA 310.1			
QC Batch Method:	Water Leachate	Preparation:	04/16/2010 00:00 by ESK			
Associated Lab Samples:	H10040326001	H10040326002	H10040326003	H10040326004	H10040326005	H10040326006
	H10040326007	H10040326008	H10040326009	H10040326010		

METHOD BLANK: 40072

Analysis Date/Time Analyst: 04/16/2010 16:30 PAC

Parameter	Units	Blank Result	Qualifiers	Reporting Limit
Alkalinity, total as CaCO ₃	mg/kg	ND		20.0

LABORATORY CONTROL SAMPLE: 40071

Analysis Date/Time Analyst: 04/16/2010 16:30 PAC

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits
Alkalinity, total as CaCO ₃	mg/kg	654	650.0	99.4	90-110

QC results presented in the QC Control Data have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules. Also, MS/MSD % recoveries are calculated by the SPL LIMS using any detected value greater than the MDL.



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QUALITY CONTROL DATA

Workorder: H10040326 : Wilmuth No. 1

Project Number:

QC Batch: DIGM/1671

Analysis Method: SW-846 6010B

QC Batch Method: SW-846 3050A

Preparation: 04/18/2010 12:30 by R_V

Associated Lab Samples:	H10040326001	H10040326002	H10040326003	H10040326004	H10040326005	H10040326006
	H10040326007	H10040326008	H10040326009	H10040326010	H10040336001	H10040338004

METHOD BLANK: 39819

Analysis Date/Time Analyst: 04/19/2010 19:09 EBG

Parameter	Units	Blank Result	Qualifiers	Reporting Limit
Arsenic	mg/kg	ND		0.500
Barium	mg/kg	ND		0.500
Cadmium	mg/kg	ND		0.500
Chromium	mg/kg	ND		0.500
Cobalt	mg/kg	ND		0.500
Copper	mg/kg	ND		0.500
Iron	mg/kg	ND		1.00
Lead	mg/kg	ND		0.500
Manganese	mg/kg	ND		0.500
Molybdenum	mg/kg	ND		0.500
Nickel	mg/kg	ND		0.500
Selenium	mg/kg	ND		0.500
Silver	mg/kg	ND		0.500
Zinc	mg/kg	ND		1.00

Analysis Date/Time Analyst: 04/22/2010 08:16 EBG

Parameter	Units	Blank Result	Qualifiers	Reporting Limit
Aluminum	mg/kg	ND		10.0
Boron	mg/kg	ND		1.00

LABORATORY CONTROL SAMPLE: 39820

Analysis Date/Time Analyst: 04/19/2010 19:15 EBG

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits
Arsenic	mg/kg	280	248.2	88.6	80-120
Barium	mg/kg	520	472.6	90.9	80-120
Cadmium	mg/kg	182	162.9	89.5	80-120
Chromium	mg/kg	142	126.3	88.9	80-120
Cobalt	mg/kg	110	97.64	88.8	80-120
Copper	mg/kg	132	118.5	89.8	80-120
Iron	mg/kg	16600	14360	86.5	80-120
Lead	mg/kg	72	60.49	83.8	80-120
Manganese	mg/kg	331	288.7	87.2	80-120
Molybdenum	mg/kg	81	73.98	91.4	80-120
Nickel	mg/kg	155	136.6	88.1	80-120

QC results presented in the QC Control Data have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules. Also, MS/MSD % recoveries are calculated by the SPL LIMS using any detected value greater than the MDL.



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QUALITY CONTROL DATA

Workorder: H10040326 : Wilmuth No. 1

Project Number:

LABORATORY CONTROL SAMPLE: 39820

Analysis Date/Time Analyst: 04/19/2010 19:15 EBG

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits
Selenium	mg/kg	165	146.9	89.0	80-120
Silver	mg/kg	126	113.1	89.8	80-120
Zinc	mg/kg	346	309.9	89.6	80-120

LABORATORY CONTROL SAMPLE: 39820

Analysis Date/Time Analyst: 04/22/2010 08:21 EBG

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits
Aluminum	mg/kg	10400	8249	79.3 *	80-120
Boron	mg/kg	95	74.67	78.8 *	80-120

POST DIGESTION SPIKE & DUPLICATE: 39821 39822 Original: H10040326001

PDS Analysis Date/Time Analyst: 04/19/2010 19:43 EBG

PDSD Analysis Date/Time Analyst: 04/19/2010 19:49 EBG

Parameter	Units	Original Result	Spike Conc.	PDS Result	PDSD Result	PDS % Rec	PDSD % Rec	% Rec Limit	RPD	Max RPD
Cobalt	mg/kg	4.72	11	14.4	14.4	88.2	88.3	85-115	0.1	20
Copper	mg/kg	37.9	11	47.4	47.8	86.3	90.2	85-115	0.9	20
Nickel	mg/kg	5.71	11	15.6	15.6	89.9	89.6	85-115	0.2	20
Selenium	mg/kg	0.37	11	10.6	10.6	93.1	92.6	85-115	0.5	20

POST DIGESTION SPIKE & DUPLICATE: 39821 39822 Original: H10040326001

PDS Analysis Date/Time Analyst: 04/22/2010 08:50 EBG

PDSD Analysis Date/Time Analyst: 04/22/2010 08:56 EBG

Parameter	Units	Original Result	Spike Conc.	PDS Result	PDSD Result	PDS % Rec	PDSD % Rec	% Rec Limit	RPD	Max RPD
Boron	mg/kg	3.64	110	95.2	95.0	83.4 *	83.2 *	85-115	0.2	20

QC results presented in the QC Control Data have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules. Also, MS/MSD % recoveries are calculated by the SPL LIMS using any detected value greater than the MDL.



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QUALITY CONTROL DATA

Workorder: H10040326 : Wilmuth No. 1

Project Number:

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 39823 39824 Original: H10040326001

MS Analysis Date/Time Analyst: 04/19/2010 19:26 EBG

MSD Analysis Date/Time Analyst: 04/19/2010 19:32 EBG

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
Arsenic	mg/kg	5.1	11	13.96	13.46	80.7	76.1	75-125	3.7	20
Barium	mg/kg	172	11	203.6	175.7	NC	NC	75-125	NC	20
Cadmium	mg/kg	0.24	11	9.766	8.58	95.0	83.2	75-125	12.9	20
Chromium	mg/kg	6.02	11	16.89	15.06	98.9	82.3	75-125	11.4	20
Cobalt	mg/kg	4.72	11	14.15	11.77	85.8	64.1 *	75-125	18.4	20
Copper	mg/kg	37.9	11	45.99	34.13	73.5 *	-34.4 *	75-125	29.6 *	20
Iron	mg/kg	12800	110	13300	11580	NC	NC	75-125	NC	20
Lead	mg/kg	153	11	155.6	111.2	NC	NC	75-125	NC	20
Manganese	mg/kg	529	11	478.0	344.0	NC	NC	75-125	NC	20
Molybdenum	mg/kg	1.53	11	10.69	9.986	83.4	77.0	75-125	6.8	20
Nickel	mg/kg	5.71	11	15.0	12.99	84.5	66.2 *	75-125	14.4	20
Selenium	mg/kg	0.37	11	9.602	8.217	92.0	78.1	75-125	15.5	20
Silver	mg/kg	0.27	11	9.755	8.503	94.6	82.1	75-125	13.7	20
Zinc	mg/kg	650	11	594.0	511.5	NC	NC	75-125	NC	20

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 39823 39824 Original: H10040326001

MS Analysis Date/Time Analyst: 04/22/2010 08:33 EBG

MSD Analysis Date/Time Analyst: 04/22/2010 08:39 EBG

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
Aluminum	mg/kg	8530	110	8997	8970	NC	NC	75-125	NC	20
Boron	mg/kg	3.64	110	75.97	66.2	65.8 *	57.0 *	75-125	13.7	20

QC results presented in the QC Control Data have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules. Also, MS/MSD % recoveries are calculated by the SPL LIMS using any detected value greater than the MDL.



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QUALITY CONTROL DATA

Workorder: H10040326 : Wilmuth No. 1

Project Number:

QC Batch:	HGPR/1121	Analysis Method:	SW-846 7471A			
QC Batch Method:	SW-846 7471A	Preparation:	04/19/2010 11:25 by F_S			
Associated Lab Samples:	H10040326001	H10040326002	H10040326003	H10040326004	H10040326005	H10040326006
	H10040326007	H10040326008	H10040326009	H10040326010	H10040336001	H10040338004
	H10040340001					

METHOD BLANK: 39895

Analysis Date/Time Analyst: 04/19/2010 12:21 R_V

Parameter	Units	Blank Result	Qualifiers	Reporting Limit
Mercury	mg/kg	ND		0.0300

LABORATORY CONTROL SAMPLE: 39896

Analysis Date/Time Analyst: 04/19/2010 12:24 R_V

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits
Mercury	mg/kg	8	8.054	95.0	80-120

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 39897 39898 Original: H10040326001

MS Analysis Date/Time Analyst: 04/19/2010 12:29 R_V

MSD Analysis Date/Time Analyst: 04/19/2010 12:31 R_V

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
Mercury	mg/kg	0.0021	0.3	0.3301	0.3298	109	109	80-120	0.1	20

QC results presented in the QC Control Data have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules. Also, MS/MSD % recoveries are calculated by the SPL LIMS using any detected value greater than the MDL.



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QUALITY CONTROL DATA

Workorder: H10040326 : Wilmuth No. 1

Project Number:

QC Batch: WETP/1430 Analysis Method: EPA 300.0
QC Batch Method: Soil Leachage (IC) Preparation: 04/17/2010 00:00 by WETC
Associated Lab Samples: H10040326001 H10040326002 H10040326003 H10040326004 H10040326005 H10040326006
H10040326007 H10040326008 H10040326009 H10040326010

METHOD BLANK: 40009

Analysis Date/Time Analyst: 04/17/2010 09:38 CFS

Parameter	Units	Blank Result	Qualifiers	Reporting Limit
Nitrogen, Nitrite (As N)	mg/kg	ND		5.00
Nitrogen, Nitrate (As N)	mg/kg	ND		5.00

LABORATORY CONTROL SAMPLE: 40006

Analysis Date/Time Analyst: 04/17/2010 09:57 CFS

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits
Nitrogen, Nitrite (As N)	mg/kg	100	100.7	101	80-120
Nitrogen, Nitrate (As N)	mg/kg	100	95.38	95.4	80-120

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 40007 40008 Original: H10040326006

MS Analysis Date/Time Analyst: 04/17/2010 14:58 CFS

MSD Analysis Date/Time Analyst: 04/17/2010 15:17 CFS

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
Nitrogen, Nitrite (As N)	mg/kg	ND	121	99.19	97.51	99.2	97.5	75-125	1.7	20
Nitrogen, Nitrate (As N)	mg/kg	5.95	121	94.65	92.76	94.1	92.2	75-125	2.0	20

QC results presented in the QC Control Data have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules. Also, MS/MSD % recoveries are calculated by the SPL LIMS using any detected value greater than the MDL.



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QUALITY CONTROL DATA

Workorder: H10040326 : Willmuth No. 1

Project Number:

QC Batch: GCVS/1267 Analysis Method: SW-846 8015B GRO Gas
QC Batch Method: SW-846 5030 Preparation: 04/16/2010 14:51 by GCV
Associated Lab Samples: H10040326001 H10040326002 H10040326003 H10040326004 H10040326005 H10040326006
H10040326007 H10040326008 H10040326009 H10040326010

METHOD BLANK: 39963

Analysis Date/Time Analyst: 04/16/2010 16:08 WLV

Parameter	Units	Blank Result	Qualifiers	Reporting Limit
Gasoline Range Organics	mg/kg	ND		0.10
4-Bromofluorobenzene (S)	%	97.8		50-159
1,4-Difluorobenzene (S)	%	100		63-142

LABORATORY CONTROL SAMPLE: 39964

Analysis Date/Time Analyst: 04/16/2010 15:20 WLV

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits
Gasoline Range Organics	mg/kg	1.0	0.918	91.8	53-137
4-Bromofluorobenzene (S)	%			107	50-159
1,4-Difluorobenzene (S)	%			102	63-142

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 39965 39966 Original: H10040326001

MS Analysis Date/Time Analyst: 04/16/2010 17:49 WLV

MSD Analysis Date/Time Analyst: 04/16/2010 18:18 WLV

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
Gasoline Range Organics	mg/kg	0.0065	1.1	0.814	0.859	80.8	85.3	36-163	5.3	50
4-Bromofluorobenzene (S)	%	93.5				98.7	99.2	50-159		30
1,4-Difluorobenzene (S)	%	98.6				100	101	63-142		30

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QUALITY CONTROL DATA

Workorder: H10040326 : Wilmuth No. 1

Project Number:

QC Batch:	MSV/1764	Analysis Method:	SW-846 8260B			
QC Batch Method:	SW-846 5030	Preparation:	04/16/2010 00:00 by TLE			
Associated Lab Samples:	H10040276002	H10040276003	H10040326001	H10040326002	H10040326003	H10040326004
	H10040326005	H10040326006	H10040326007	H10040326008	H10040326009	H10040326010
	H10040336001					

METHOD BLANK: 39971

Analysis Date/Time Analyst: 04/16/2010 11:42 TLE

Parameter	Units	Blank Result	Qualifiers	Reporting Limit
Acetone	ug/kg	ND		100
Acrylonitrile	ug/kg	ND		50
Benzene	ug/kg	ND		5.0
Bromobenzene	ug/kg	ND		5.0
Bromochloromethane	ug/kg	ND		5.0
Bromodichloromethane	ug/kg	ND		5.0
Bromoform	ug/kg	ND		5.0
Bromomethane	ug/kg	ND		10
2-Butanone	ug/kg	ND		20
n-Butylbenzene	ug/kg	ND		5.0
sec-Butylbenzene	ug/kg	ND		5.0
tert-Butylbenzene	ug/kg	ND		5.0
Carbon disulfide	ug/kg	ND		5.0
Carbon tetrachloride	ug/kg	ND		5.0
Chlorobenzene	ug/kg	ND		5.0
Chloroethane	ug/kg	ND		10
2-Chloroethylvinyl ether	ug/kg	ND		10
Chloroform	ug/kg	ND		5.0
Chloromethane	ug/kg	ND		10
2-Chlorotoluene	ug/kg	ND		5.0
4-Chlorotoluene	ug/kg	ND		5.0
Dibromochloromethane	ug/kg	ND		5.0
1,2-Dibromo-3-chloropropane	ug/kg	ND		5.0
1,2-Dibromoethane	ug/kg	ND		5.0
Dibromomethane	ug/kg	ND		5.0
1,2-Dichlorobenzene	ug/kg	ND		5.0
1,3-Dichlorobenzene	ug/kg	ND		5.0
1,4-Dichlorobenzene	ug/kg	ND		5.0
Dichlorodifluoromethane	ug/kg	ND		10
1,1-Dichloroethane	ug/kg	ND		5.0
1,2-Dichloroethane	ug/kg	ND		5.0
1,1-Dichloroethene	ug/kg	ND		5.0
1,2-Dichloroethene, Total	ug/kg	ND		5.0
cis-1,2-Dichloroethene	ug/kg	ND		5.0
trans-1,2-Dichloroethene	ug/kg	ND		5.0
1,2-Dichloropropane	ug/kg	ND		5.0
1,3-Dichloropropane	ug/kg	ND		5.0
2,2-Dichloropropane	ug/kg	ND		5.0

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QUALITY CONTROL DATA

Workorder: H10040326 : Wilmuth No. 1

Project Number:

METHOD BLANK: 39971

Analysis Date/Time Analyst: 04/16/2010 11:42 TLE

Parameter	Units	Blank Result	Qualifiers	Reporting Limit
1,1-Dichloropropene	ug/kg	ND		5.0
cis-1,3-Dichloropropene	ug/kg	ND		5.0
trans-1,3-Dichloropropene	ug/kg	ND		5.0
Ethylbenzene	ug/kg	ND		5.0
Hexachlorobutadiene	ug/kg	ND		5.0
2-Hexanone	ug/kg	ND		10
Isopropylbenzene (Cumene)	ug/kg	ND		5.0
4-Isopropyltoluene	ug/kg	ND		5.0
Methyl tert-Butyl Ether (MTBE)	ug/kg	ND		5.0
Methylene chloride	ug/kg	ND		5.0
Methyl Isobutyl Ketone (MIBK)	ug/kg	ND		10
Naphthalene	ug/kg	ND		5.0
n-Propylbenzene	ug/kg	ND		5.0
Styrene	ug/kg	ND		5.0
1,1,1,2-Tetrachloroethane	ug/kg	ND		5.0
1,1,2,2-Tetrachloroethane	ug/kg	ND		5.0
Tetrachloroethene	ug/kg	ND		5.0
Toluene	ug/kg	ND		5.0
1,2,3-Trichlorobenzene	ug/kg	ND		5.0
1,2,4-Trichlorobenzene	ug/kg	ND		5.0
1,1,1-Trichloroethane	ug/kg	ND		5.0
1,1,2-Trichloroethane	ug/kg	ND		5.0
Trichloroethene	ug/kg	ND		5.0
Trichlorofluoromethane	ug/kg	ND		5.0
1,2,3-Trichloropropane	ug/kg	ND		5.0
1,2,4-Trimethylbenzene	ug/kg	ND		5.0
1,3,5-Trimethylbenzene	ug/kg	ND		5.0
Vinyl acetate	ug/kg	ND		10
Vinyl chloride	ug/kg	ND		10
m,p-Xylene	ug/kg	ND		5.0
o-Xylene	ug/kg	ND		5.0
Xylenes, Total	ug/kg	ND		5.0
4-Bromofluorobenzene (S)	%	76.6		62-130
1,2-Dichloroethane-d4 (S)	%	107		64-130
Toluene-d8 (S)	%	90.9		70-140

LABORATORY CONTROL SAMPLE: 39972

Analysis Date/Time Analyst: 04/16/2010 10:50 TLE

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits
Acetone	ug/kg	20	23	117	10-350
Acrylonitrile	ug/kg	20	28	139	20-200

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QUALITY CONTROL DATA

Workorder: H10040326 : Wilmuth No. 1

Project Number:

LABORATORY CONTROL SAMPLE: 39972

Analysis Date/Time Analyst: 04/16/2010 10:50 TLE

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits
Benzene	ug/kg	20	20.3	102	66-142
Bromobenzene	ug/kg	20	20.0	99.8	35-175
Bromochloromethane	ug/kg	20	20.4	102	35-175
Bromodichloromethane	ug/kg	20	17.7	88.3	35-175
Bromoform	ug/kg	20	16.2	80.8	35-175
Bromomethane	ug/kg	20	25.2	126	35-175
2-Butanone	ug/kg	20	23.6	118	10-235
n-Butylbenzene	ug/kg	20	21.3	106	35-175
sec-Butylbenzene	ug/kg	20	19.6	97.8	35-175
tert-Butylbenzene	ug/kg	20	18.4	92.0	35-175
Carbon disulfide	ug/kg	20	22.6	113	30-220
Carbon tetrachloride	ug/kg	20	16.2	81.2	35-175
Chlorobenzene	ug/kg	20	18.7	93.4	60-133
Chloroethane	ug/kg	20	25.2	126	35-175
2-Chloroethylvinyl ether	ug/kg	20	29.4	147	10-250
Chloroform	ug/kg	20	21.8	109	35-175
Chloromethane	ug/kg	20	20.6	103	35-175
2-Chlorotoluene	ug/kg	20	19.7	98.5	31-175
4-Chlorotoluene	ug/kg	20	19.5	97.4	35-175
Dibromochloromethane	ug/kg	20	15.8	79.1	35-175
1,2-Dibromo-3-chloropropane	ug/kg	20	18.0	89.8	15-175
1,2-Dibromoethane	ug/kg	20	20.5	103	35-175
Dibromomethane	ug/kg	20	17.1	85.7	35-175
1,2-Dichlorobenzene	ug/kg	20	19.1	95.4	35-175
1,3-Dichlorobenzene	ug/kg	20	19.4	97.1	35-175
1,4-Dichlorobenzene	ug/kg	20	18.6	93.2	35-175
Dichlorodifluoromethane	ug/kg	20	20.0	99.8	30-175
1,1-Dichloroethane	ug/kg	20	22.7	114	35-175
1,2-Dichloroethane	ug/kg	20	19.6	97.8	35-175
1,1-Dichloroethene	ug/kg	20	22.0	110	59-172
1,2-Dichloroethene, Total	ug/kg	40	45.3	113	35-175
cis-1,2-Dichloroethene	ug/kg	20	23.3	117	35-175
trans-1,2-Dichloroethene	ug/kg	20	21.9	110	35-175
1,2-Dichloropropane	ug/kg	20	22.2	111	35-175
1,3-Dichloropropane	ug/kg	20	20.4	102	35-175
2,2-Dichloropropane	ug/kg	20	20.7	104	35-175
1,1-Dichloropropene	ug/kg	20	21.2	106	35-175
cis-1,3-Dichloropropene	ug/kg	20	20.0	100	35-175
trans-1,3-Dichloropropene	ug/kg	20	17.8	88.9	35-175
Ethylbenzene	ug/kg	20	17.3	86.7	35-175
Hexachlorobutadiene	ug/kg	20	17.7	88.7	35-175
2-Hexanone	ug/kg	20	20.7	104	10-250
Isopropylbenzene (Cumene)	ug/kg	20	13.7	68.3	35-175
4-Isopropyltoluene	ug/kg	20	19.4	97.1	35-175
Methyl tert-Butyl Ether (MTBE)	ug/kg	40	43.8	109	35-175

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QUALITY CONTROL DATA

Workorder: H10040326 : Wilmuth No. 1

Project Number:

LABORATORY CONTROL SAMPLE: 39972

Analysis Date/Time Analyst: 04/16/2010 10:50 TLE

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits
Methylene chloride	ug/kg	20	22.6	113	35-175
Methyl Isobutyl Ketone (MIBK)	ug/kg	20	18.8	93.9	10-170
Naphthalene	ug/kg	20	19.9	99.7	20-175
n-Propylbenzene	ug/kg	20	17.6	88.2	35-175
Styrene	ug/kg	20	18.1	90.4	35-175
1,1,1,2-Tetrachloroethane	ug/kg	20	17.3	86.4	35-175
1,1,2,2-Tetrachloroethane	ug/kg	20	18.5	92.6	35-175
Tetrachloroethene	ug/kg	20	21.0	105	30-250
Toluene	ug/kg	20	18.9	94.7	59-139
1,2,3-Trichlorobenzene	ug/kg	20	19.6	97.9	20-200
1,2,4-Trichlorobenzene	ug/kg	20	18.0	90.1	40-200
1,1,1-Trichloroethane	ug/kg	20	19.4	97.0	35-175
1,1,2-Trichloroethane	ug/kg	20	20.5	103	35-175
Trichloroethene	ug/kg	20	18.7	93.5	60-140
Trichlorofluoromethane	ug/kg	20	17.7	88.3	17-250
1,2,3-Trichloropropane	ug/kg	20	19.0	95.0	35-175
1,2,4-Trimethylbenzene	ug/kg	20	18.8	93.9	35-175
1,3,5-Trimethylbenzene	ug/kg	20	18.7	93.6	35-175
Vinyl acetate	ug/kg	20	25.4	127	10-250
Vinyl chloride	ug/kg	20	22.6	113	30-175
m,p-Xylene	ug/kg	40	36.1	90.3	35-175
o-Xylene	ug/kg	20	18.7	93.6	35-175
Xylenes, Total	ug/kg	60	54.84	91.4	35-175
4-Bromofluorobenzene (S)	%			92.4	62-130
1,2-Dichloroethane-d4 (S)	%			92.5	64-130
Toluene-d8 (S)	%			93.4	70-140

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 39973

39974

Original: H10040276002

MS Analysis Date/Time Analyst: 04/16/2010 12:34 TLE

MSD Analysis Date/Time Analyst: 04/16/2010 13:01 TLE

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
Acetone	ug/kg	20	20	39	37	195	184	10-350	5.6	30
Acrylonitrile	ug/kg	ND	20	26	26	128	132	20-200	2.9	30
Benzene	ug/kg	ND	20	20.7	21.0	104	105	66-142	1.6	21
Bromobenzene	ug/kg	ND	20	28.8	31.3	144	156	35-175	8.3	30
Bromochloromethane	ug/kg	ND	20	22.0	21.5	110	107	35-175	2.5	30
Bromodichloromethane	ug/kg	ND	20	18.9	18.5	94.5	92.3	35-175	2.3	30
Bromoform	ug/kg	ND	20	14.1	14.0	70.5	69.8	35-175	1.0	30
Bromomethane	ug/kg	ND	20	25.5	27.7	127	139	35-175	8.4	30

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QUALITY CONTROL DATA

Workorder: H10040326 : Willmuth No. 1

Project Number:

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 39973

39974

Original: H10040276002

MS Analysis Date/Time Analyst: 04/16/2010 12:34 TLE

MSD Analysis Date/Time Analyst: 04/16/2010 13:01 TLE

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
2-Butanone	ug/kg	2.5	20	26.4	26.6	132	133	10-235	0.5	30
n-Butylbenzene	ug/kg	4.2	20	22.0	21.0	89.4	84.3	35-175	4.8	30
sec-Butylbenzene	ug/kg	3.3	20	22.6	22.8	96.5	97.1	35-175	0.6	30
tert-Butylbenzene	ug/kg	ND	20	20.1	21.3	101	106	35-175	5.5	30
Carbon disulfide	ug/kg	ND	20	24.8	24.9	124	125	30-220	0.4	30
Carbon tetrachloride	ug/kg	ND	20	16.7	16.6	83.4	83.0	35-175	0.4	30
Chlorobenzene	ug/kg	ND	20	18.3	19.6	91.5	98.2	60-133	7.1	21
Chloroethane	ug/kg	ND	20	27.6	29.4	138	147	35-175	6.5	30
2-Chloroethylvinyl ether	ug/kg	ND	20	36.6	36.4	183	182	10-250	0.5	30
Chloroform	ug/kg	ND	20	23.4	23.5	117	118	35-175	0.3	30
Chloromethane	ug/kg	ND	20	22.4	23.4	112	117	35-175	4.5	30
2-Chlorotoluene	ug/kg	ND	20	23.5	25.9	117	130	31-175	10.0	30
4-Chlorotoluene	ug/kg	ND	20	30.2	32.3	151	162	35-175	6.7	30
Dibromochloromethane	ug/kg	ND	20	14.8	15.1	74.0	75.5	35-175	2.0	30
1,2-Dibromo-3-chloropropane	ug/kg	ND	20	37.8	41.5	189 *	207 *	15-175	9.3	30
1,2-Dibromoethane	ug/kg	ND	20	20.4	21.1	102	106	35-175	3.4	30
Dibromomethane	ug/kg	ND	20	16.7	16.3	83.4	81.5	35-175	2.3	30
1,2-Dichlorobenzene	ug/kg	ND	20	21.0	22.3	105	112	35-175	6.3	30
1,3-Dichlorobenzene	ug/kg	ND	20	20.3	20.8	102	104	35-175	2.5	30
1,4-Dichlorobenzene	ug/kg	ND	20	19.8	20.2	99.2	101	35-175	1.9	30
Dichlorodifluoromethane	ug/kg	ND	20	21.4	22.0	107	110	30-175	2.5	30
1,1-Dichloroethane	ug/kg	ND	20	24.9	25.7	125	128	35-175	2.9	30
1,2-Dichloroethane	ug/kg	ND	20	20.5	20.1	103	101	35-175	2.0	30
1,1-Dichloroethene	ug/kg	ND	20	24.8	25.5	124	127	59-172	2.5	22
1,2-Dichloroethene, Total	ug/kg	ND	40	49.2	50.6	123	127	35-175	2.9	30
cis-1,2-Dichloroethene	ug/kg	ND	20	24.6	25.1	123	126	35-175	2.2	30
trans-1,2-Dichloroethene	ug/kg	ND	20	24.6	25.5	123	128	35-175	3.6	30
1,2-Dichloropropane	ug/kg	ND	20	22.8	23.6	114	118	35-175	3.7	30
1,3-Dichloropropane	ug/kg	ND	20	20.0	19.9	99.8	99.6	35-175	0.2	30
2,2-Dichloropropane	ug/kg	ND	20	22.1	22.9	110	115	35-175	3.7	30
1,1-Dichloropropene	ug/kg	ND	20	22.5	23.6	113	118	35-175	4.7	30
cis-1,3-Dichloropropene	ug/kg	ND	20	21.5	21.8	107	109	35-175	1.4	30
trans-1,3-Dichloropropene	ug/kg	ND	20	18.3	19.1	91.7	95.5	35-175	4.1	30
Ethylbenzene	ug/kg	1.7	20	21.0	21.6	96.2	99.5	35-175	3.1	30
Hexachlorobutadiene	ug/kg	ND	20	12.6	12.0	63.0	60.0	35-175	4.9	30
2-Hexanone	ug/kg	ND	20	21.7	21.6	108	108	10-250	0.0	30
Isopropylbenzene (Cumene)	ug/kg	1.7	20	13.7	14.0	59.9	61.7	35-175	2.7	30
4-Isopropyltoluene	ug/kg	3.1	20	21.2	21.7	106	109	35-175	2.5	30
Methyl tert-Butyl Ether (MTBE)	ug/kg	ND	40	46.4	46.2	116	115	35-175	0.5	30
Methylene chloride	ug/kg	7.9	20	23.3	23.1	76.8	75.8	35-175	0.9	30
Methyl Isobutyl Ketone (MIBK)	ug/kg	ND	20	23.5	24.1	118	121	10-170	2.5	30
Naphthalene	ug/kg	13	20	28.5	28.9	79.5	81.3	20-175	1.3	30

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QUALITY CONTROL DATA

Workorder: H10040326 : Wilmuth No. 1

Project Number:

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 39973

39974

Original: H10040276002

MS Analysis Date/Time Analyst: 04/16/2010 12:34 TLE

MSD Analysis Date/Time Analyst: 04/16/2010 13:01 TLE

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
n-Propylbenzene	ug/kg	4.7	20	28.3	29.8	118	125	35-175	5.1	30
Styrene	ug/kg	ND	20	18.2	18.8	91.0	94.1	35-175	3.4	30
1,1,1,2-Tetrachloroethane	ug/kg	ND	20	20.1	17.9	100	89.7	35-175	11.2	30
1,1,2,2-Tetrachloroethane	ug/kg	ND	20	15.5	17.1	77.7	85.4	35-175	9.4	30
Tetrachloroethene	ug/kg	3.1	20	19.9	19.9	84.0	83.9	30-250	0.1	30
Toluene	ug/kg	ND	20	19.4	20.5	96.8	102	59-139	5.8	21
1,2,3-Trichlorobenzene	ug/kg	ND	20	12.3	11.4	61.4	56.9	20-200	7.5	30
1,2,4-Trichlorobenzene	ug/kg	ND	20	13.0	13.7	64.9	68.6	40-200	5.6	30
1,1,1-Trichloroethane	ug/kg	ND	20	21.2	21.9	106	110	35-175	3.4	30
1,1,2-Trichloroethane	ug/kg	ND	20	21.7	21.1	108	106	35-175	2.5	30
Trichloroethene	ug/kg	ND	20	19.2	19.7	96.0	98.3	60-140	2.3	24
Trichlorofluoromethane	ug/kg	ND	20	19.9	19.6	99.7	98.1	17-250	1.7	30
1,2,3-Trichloropropane	ug/kg	ND	20	17.9	20.5	89.3	103	35-175	13.8	30
1,2,4-Trimethylbenzene	ug/kg	5.8	20	25.0	26.5	96.2	103	35-175	5.7	30
1,3,5-Trimethylbenzene	ug/kg	5	20	26.1	26.4	106	107	35-175	1.1	30
Vinyl acetate	ug/kg	ND	20	20.6	19.1	103	95.7	10-250	7.3	30
Vinyl chloride	ug/kg	ND	20	25.6	26.9	128	134	30-175	4.7	30
m,p-Xylene	ug/kg	1.3	40	35.1	36.0	84.6	86.8	35-175	2.5	30
o-Xylene	ug/kg	ND	20	17.4	17.9	86.9	89.3	35-175	2.8	30
Xylenes, Total	ug/kg	ND	60	52.51	53.88	87.5	89.8	35-175	2.6	30
4-Bromofluorobenzene (S)	%	84.1				82.1	79.5	62-130		
1,2-Dichloroethane-d4 (S)	%	106				93.4	91.5	64-130		
Toluene-d8 (S)	%	85.5				94.4	94.8	70-140		

QC results presented in the QC Control Data have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules. Also, MS/MSD % recoveries are calculated by the SPL LIMS using any detected value greater than the MDL.



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QUALITY CONTROL DATA

Workorder: H10040326 : Wilmuth No. 1

Project Number:

QC Batch: WETP/1432 Analysis Method: EPA 300.0
QC Batch Method: Soil Leachage (IC) Preparation: 04/17/2010 00:00 by WETC
Associated Lab Samples: H10040326001 H10040326002 H10040326003 H10040326004 H10040326005 H10040326006
H10040326007 H10040326008 H10040326009 H10040326010

METHOD BLANK: 40019

Analysis Date/Time Analyst: 04/17/2010 09:38 CFS

Parameter	Units	Blank Result	Qualifiers	Reporting Limit
Orthophosphate (As P)	mg/kg	ND		5.00
Sulfate	mg/kg	ND		5.00
Chloride	mg/kg	ND		5.00
Fluoride	mg/kg	ND		5.00
Bromide	mg/kg	ND		5.00

LABORATORY CONTROL SAMPLE: 40020

Analysis Date/Time Analyst: 04/17/2010 09:57 CFS

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits
Orthophosphate (As P)	mg/kg	100	104.8	105	80-120
Sulfate	mg/kg	100	98.84	98.8	80-120
Chloride	mg/kg	100	95.29	95.3	80-120
Fluoride	mg/kg	100	101.8	102	80-120
Bromide	mg/kg	100	96.08	96.1	80-120

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 40021 40022 Original: H10040326006

MS Analysis Date/Time Analyst: 04/17/2010 14:58 CFS

MSD Analysis Date/Time Analyst: 04/17/2010 15:17 CFS

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
Orthophosphate (As P)	mg/kg	ND	121	118.9	117.0	119	117	75-125	1.6	20
Sulfate	mg/kg	204	121	282.5	281.2	114	113	75-125	0.5	20
Chloride	mg/kg	25.2	121	115.2	114.1	94.4	93.3	75-125	1.0	20
Fluoride	mg/kg	2.52	121	101.3	99.63	98.7	97.1	75-125	1.6	20
Bromide	mg/kg	ND	121	94.29	94.39	94.3	94.4	75-125	0.1	20

QC results presented in the QC Control Data have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules. Also, MS/MSD % recoveries are calculated by the SPL LIMS using any detected value greater than the MDL.



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QUALITY CONTROL DATA

Workorder: H10040326 : Wilmuth No. 1

Project Number:

QC Batch: WETC/2863

Analysis Method: ASTM D2216

QC Batch Method: ASTM D2216

Associated Lab Samples:	H10040326001	H10040326002	H10040326003	H10040326004	H10040326005	H10040326006
	H10040326007	H10040326008	H10040326009	H10040326010		

SAMPLE DUPLICATE: 40096

Original: H10040326001

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	DF
PHYSICAL PROPERTIES						1
Percent Moisture	%	8.97	9.00	0.3		1

QC results presented in the QC Control Data have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules. Also, MS/MSD % recoveries are calculated by the SPL LIMS using any detected value greater than the MDL.



Legend

(S) - Indicates analyte is a surrogate

Qualifier	Qualifier Description
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MI	Matrix Interference
I	Estimated value, between MDL and PQL (Florida)
JN	The analysis indicates the presence of an analyte
C	MTBE results were not confirmed by GCMS
NC	Not Calculated - Sample concentration > 4 times the spike
*	Recovery/RPD value outside QC limits
E	Results exceed calibration range
H	Exceeds holding time
J	Estimated value
Q	Received past holding time
B	Analyte detected in the Method Blank
N	Recovery outside of control limits
D	Recovery out of range due to dilution
NC	Not Calculable (Sample Duplicate)
P	Pesticide dual column results, greater than 25%
TNTC	Too numerous to count



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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: H10040326 : Wilmuth No. 1

Project Number:

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
H10040326001	MW-4 (0-1.5 FT)	SW-846 3550B	EXTO/1623	SW-846 8270C	MSSV/1213
H10040326002	MW-4 (1.5-3.0 FT)	SW-846 3550B	EXTO/1623	SW-846 8270C	MSSV/1213
H10040326003	MW-4 (9-11 FT)	SW-846 3550B	EXTO/1623	SW-846 8270C	MSSV/1213
H10040326004	MW-1 (7-9 FT)	SW-846 3550B	EXTO/1623	SW-846 8270C	MSSV/1213
H10040326005	MW-1 (11-13 FT)	SW-846 3550B	EXTO/1623	SW-846 8270C	MSSV/1213
H10040326006	MW-3 (1.5-3.0 FT)	SW-846 3550B	EXTO/1623	SW-846 8270C	MSSV/1213
H10040326007	MW-3 (3.0-4.5 FT)	SW-846 3550B	EXTO/1623	SW-846 8270C	MSSV/1213
H10040326008	MW-3 (9-11 FT)	SW-846 3550B	EXTO/1623	SW-846 8270C	MSSV/1213
H10040326009	MW-2 (1.5-3.0 FT)	SW-846 3550B	EXTO/1623	SW-846 8270C	MSSV/1213
H10040326010	MW-2 (9-11 FT)	SW-846 3550B	EXTO/1623	SW-846 8270C	MSSV/1213
H10040326001	MW-4 (0-1.5 FT)	EPA 9045D	WCSH/2371		
H10040326002	MW-4 (1.5-3.0 FT)	EPA 9045D	WCSH/2371		
H10040326003	MW-4 (9-11 FT)	EPA 9045D	WCSH/2371		
H10040326004	MW-1 (7-9 FT)	EPA 9045D	WCSH/2371		
H10040326005	MW-1 (11-13 FT)	EPA 9045D	WCSH/2371		
H10040326006	MW-3 (1.5-3.0 FT)	EPA 9045D	WCSH/2371		
H10040326007	MW-3 (3.0-4.5 FT)	EPA 9045D	WCSH/2371		
H10040326008	MW-3 (9-11 FT)	EPA 9045D	WCSH/2371		
H10040326009	MW-2 (1.5-3.0 FT)	EPA 9045D	WCSH/2371		
H10040326010	MW-2 (9-11 FT)	EPA 9045D	WCSH/2371		
H10040326001	MW-4 (0-1.5 FT)	SW-846 3550B	EXTO/1624	SW-846 8015B Fuels	GCSV/1428
H10040326002	MW-4 (1.5-3.0 FT)	SW-846 3550B	EXTO/1624	SW-846 8015B Fuels	GCSV/1428
H10040326003	MW-4 (9-11 FT)	SW-846 3550B	EXTO/1624	SW-846 8015B Fuels	GCSV/1428
H10040326004	MW-1 (7-9 FT)	SW-846 3550B	EXTO/1624	SW-846 8015B Fuels	GCSV/1428
H10040326005	MW-1 (11-13 FT)	SW-846 3550B	EXTO/1624	SW-846 8015B Fuels	GCSV/1428
H10040326006	MW-3 (1.5-3.0 FT)	SW-846 3550B	EXTO/1624	SW-846 8015B Fuels	GCSV/1428
H10040326007	MW-3 (3.0-4.5 FT)	SW-846 3550B	EXTO/1624	SW-846 8015B Fuels	GCSV/1428
H10040326008	MW-3 (9-11 FT)	SW-846 3550B	EXTO/1624	SW-846 8015B Fuels	GCSV/1428
H10040326009	MW-2 (1.5-3.0 FT)	SW-846 3550B	EXTO/1624	SW-846 8015B Fuels	GCSV/1428
H10040326010	MW-2 (9-11 FT)	SW-846 3550B	EXTO/1624	SW-846 8015B Fuels	GCSV/1428
H10040326001	MW-4 (0-1.5 FT)	EPA 120.1 (Water Extraction)	WETC/2846		
H10040326002	MW-4 (1.5-3.0 FT)	EPA 120.1 (Water Extraction)	WETC/2846		
H10040326003	MW-4 (9-11 FT)	EPA 120.1 (Water Extraction)	WETC/2846		



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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: H10040326 : Wilmuth No. 1

Project Number:

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
H10040326004	MW-1 (7-9 FT)	EPA 120.1 (Water Extraction)	WETC/2846		
H10040326005	MW-1 (11-13 FT)	EPA 120.1 (Water Extraction)	WETC/2846		
H10040326006	MW-3 (1.5-3.0 FT)	EPA 120.1 (Water Extraction)	WETC/2846		
H10040326007	MW-3 (3.0-4.5 FT)	EPA 120.1 (Water Extraction)	WETC/2846		
H10040326008	MW-3 (9-11 FT)	EPA 120.1 (Water Extraction)	WETC/2846		
H10040326009	MW-2 (1.5-3.0 FT)	EPA 120.1 (Water Extraction)	WETC/2846		
H10040326010	MW-2 (9-11 FT)	EPA 120.1 (Water Extraction)	WETC/2846		
H10040326001	MW-4 (0-1.5 FT)	Water Leachate	WETP/1426	EPA 310.1	WETC/2853
H10040326002	MW-4 (1.5-3.0 FT)	Water Leachate	WETP/1426	EPA 310.1	WETC/2853
H10040326003	MW-4 (9-11 FT)	Water Leachate	WETP/1426	EPA 310.1	WETC/2853
H10040326004	MW-1 (7-9 FT)	Water Leachate	WETP/1426	EPA 310.1	WETC/2853
H10040326005	MW-1 (11-13 FT)	Water Leachate	WETP/1426	EPA 310.1	WETC/2853
H10040326006	MW-3 (1.5-3.0 FT)	Water Leachate	WETP/1426	EPA 310.1	WETC/2853
H10040326007	MW-3 (3.0-4.5 FT)	Water Leachate	WETP/1426	EPA 310.1	WETC/2853
H10040326008	MW-3 (9-11 FT)	Water Leachate	WETP/1426	EPA 310.1	WETC/2853
H10040326009	MW-2 (1.5-3.0 FT)	Water Leachate	WETP/1426	EPA 310.1	WETC/2853
H10040326010	MW-2 (9-11 FT)	Water Leachate	WETP/1426	EPA 310.1	WETC/2853
H10040326001	MW-4 (0-1.5 FT)	SW-846 3050A	DIGM/1671	SW-846 6010B	ICP/1349
H10040326002	MW-4 (1.5-3.0 FT)	SW-846 3050A	DIGM/1671	SW-846 6010B	ICP/1349
H10040326003	MW-4 (9-11 FT)	SW-846 3050A	DIGM/1671	SW-846 6010B	ICP/1349
H10040326004	MW-1 (7-9 FT)	SW-846 3050A	DIGM/1671	SW-846 6010B	ICP/1349
H10040326005	MW-1 (11-13 FT)	SW-846 3050A	DIGM/1671	SW-846 6010B	ICP/1349
H10040326006	MW-3 (1.5-3.0 FT)	SW-846 3050A	DIGM/1671	SW-846 6010B	ICP/1349
H10040326007	MW-3 (3.0-4.5 FT)	SW-846 3050A	DIGM/1671	SW-846 6010B	ICP/1349
H10040326008	MW-3 (9-11 FT)	SW-846 3050A	DIGM/1671	SW-846 6010B	ICP/1349
H10040326009	MW-2 (1.5-3.0 FT)	SW-846 3050A	DIGM/1671	SW-846 6010B	ICP/1349
H10040326010	MW-2 (9-11 FT)	SW-846 3050A	DIGM/1671	SW-846 6010B	ICP/1349
H10040326001	MW-4 (0-1.5 FT)	SW-846 3050A	DIGM/1671	SW-846 6010B	ICP/1357
H10040326002	MW-4 (1.5-3.0 FT)	SW-846 3050A	DIGM/1671	SW-846 6010B	ICP/1357
H10040326003	MW-4 (9-11 FT)	SW-846 3050A	DIGM/1671	SW-846 6010B	ICP/1357
H10040326004	MW-1 (7-9 FT)	SW-846 3050A	DIGM/1671	SW-846 6010B	ICP/1357
H10040326005	MW-1 (11-13 FT)	SW-846 3050A	DIGM/1671	SW-846 6010B	ICP/1357
H10040326006	MW-3 (1.5-3.0 FT)	SW-846 3050A	DIGM/1671	SW-846 6010B	ICP/1357



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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: H10040326 : Wilmoth No. 1

Project Number:

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
H10040326007	MW-3 (3.0-4.5 FT)	SW-846 3050A	DIGM/1671	SW-846 6010B	ICP/1357
H10040326008	MW-3 (9-11 FT)	SW-846 3050A	DIGM/1671	SW-846 6010B	ICP/1357
H10040326009	MW-2 (1.5-3.0 FT)	SW-846 3050A	DIGM/1671	SW-846 6010B	ICP/1357
H10040326010	MW-2 (9-11 FT)	SW-846 3050A	DIGM/1671	SW-846 6010B	ICP/1357
H10040326001	MW-4 (0-1.5 FT)	SW-846 7471A	HGPR/1121	SW-846 7471A	HG/1111
H10040326002	MW-4 (1.5-3.0 FT)	SW-846 7471A	HGPR/1121	SW-846 7471A	HG/1111
H10040326003	MW-4 (9-11 FT)	SW-846 7471A	HGPR/1121	SW-846 7471A	HG/1111
H10040326004	MW-1 (7-9 FT)	SW-846 7471A	HGPR/1121	SW-846 7471A	HG/1111
H10040326005	MW-1 (11-13 FT)	SW-846 7471A	HGPR/1121	SW-846 7471A	HG/1111
H10040326006	MW-3 (1.5-3.0 FT)	SW-846 7471A	HGPR/1121	SW-846 7471A	HG/1111
H10040326007	MW-3 (3.0-4.5 FT)	SW-846 7471A	HGPR/1121	SW-846 7471A	HG/1111
H10040326008	MW-3 (9-11 FT)	SW-846 7471A	HGPR/1121	SW-846 7471A	HG/1111
H10040326009	MW-2 (1.5-3.0 FT)	SW-846 7471A	HGPR/1121	SW-846 7471A	HG/1111
H10040326010	MW-2 (9-11 FT)	SW-846 7471A	HGPR/1121	SW-846 7471A	HG/1111
H10040326001	MW-4 (0-1.5 FT)	Soil Leachage (IC)	WETP/1430	EPA 300.0	IC/1254
H10040326002	MW-4 (1.5-3.0 FT)	Soil Leachage (IC)	WETP/1430	EPA 300.0	IC/1254
H10040326003	MW-4 (9-11 FT)	Soil Leachage (IC)	WETP/1430	EPA 300.0	IC/1254
H10040326004	MW-1 (7-9 FT)	Soil Leachage (IC)	WETP/1430	EPA 300.0	IC/1254
H10040326005	MW-1 (11-13 FT)	Soil Leachage (IC)	WETP/1430	EPA 300.0	IC/1254
H10040326006	MW-3 (1.5-3.0 FT)	Soil Leachage (IC)	WETP/1430	EPA 300.0	IC/1254
H10040326007	MW-3 (3.0-4.5 FT)	Soil Leachage (IC)	WETP/1430	EPA 300.0	IC/1254
H10040326008	MW-3 (9-11 FT)	Soil Leachage (IC)	WETP/1430	EPA 300.0	IC/1254
H10040326009	MW-2 (1.5-3.0 FT)	Soil Leachage (IC)	WETP/1430	EPA 300.0	IC/1254
H10040326010	MW-2 (9-11 FT)	Soil Leachage (IC)	WETP/1430	EPA 300.0	IC/1254
H10040326001	MW-4 (0-1.5 FT)	SW-846 8015B GRO Gas	GCVS/1267	SW-846 8015B GRO Gas	GCVS/1268
H10040326002	MW-4 (1.5-3.0 FT)	SW-846 8015B GRO Gas	GCVS/1267	SW-846 8015B GRO Gas	GCVS/1268
H10040326003	MW-4 (9-11 FT)	SW-846 8015B GRO Gas	GCVS/1267	SW-846 8015B GRO Gas	GCVS/1268
H10040326004	MW-1 (7-9 FT)	SW-846 8015B GRO Gas	GCVS/1267	SW-846 8015B GRO Gas	GCVS/1268
H10040326005	MW-1 (11-13 FT)	SW-846 8015B GRO Gas	GCVS/1267	SW-846 8015B GRO Gas	GCVS/1268
H10040326006	MW-3 (1.5-3.0 FT)	SW-846 8015B GRO Gas	GCVS/1267	SW-846 8015B GRO Gas	GCVS/1268
H10040326007	MW-3 (3.0-4.5 FT)	SW-846 8015B GRO Gas	GCVS/1267	SW-846 8015B GRO Gas	GCVS/1268
H10040326008	MW-3 (9-11 FT)	SW-846 8015B GRO Gas	GCVS/1267	SW-846 8015B GRO Gas	GCVS/1268



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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: H10040326 : Wilmuth No. 1

Project Number:

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
H10040326009	MW-2 (1.5-3.0 FT)	SW-846 8015B GRO Gas	GCVS/1267	SW-846 8015B GRO Gas	GCVS/1268
H10040326010	MW-2 (9-11 FT)	SW-846 8015B GRO Gas	GCVS/1267	SW-846 8015B GRO Gas	GCVS/1268
H10040326001	MW-4 (0-1.5 FT)	SW-846 5030	MSV/1764	SW-846 8260B	MSV/1765
H10040326002	MW-4 (1.5-3.0 FT)	SW-846 5030	MSV/1764	SW-846 8260B	MSV/1765
H10040326003	MW-4 (9-11 FT)	SW-846 5030	MSV/1764	SW-846 8260B	MSV/1765
H10040326004	MW-1 (7-9 FT)	SW-846 5030	MSV/1764	SW-846 8260B	MSV/1765
H10040326005	MW-1 (11-13 FT)	SW-846 5030	MSV/1764	SW-846 8260B	MSV/1765
H10040326006	MW-3 (1.5-3.0 FT)	SW-846 5030	MSV/1764	SW-846 8260B	MSV/1765
H10040326007	MW-3 (3.0-4.5 FT)	SW-846 5030	MSV/1764	SW-846 8260B	MSV/1765
H10040326008	MW-3 (9-11 FT)	SW-846 5030	MSV/1764	SW-846 8260B	MSV/1765
H10040326009	MW-2 (1.5-3.0 FT)	SW-846 5030	MSV/1764	SW-846 8260B	MSV/1765
H10040326010	MW-2 (9-11 FT)	SW-846 5030	MSV/1764	SW-846 8260B	MSV/1765
H10040326001	MW-4 (0-1.5 FT)	Soil Leachage (IC)	WETP/1432	EPA 300.0	IC/1255
H10040326002	MW-4 (1.5-3.0 FT)	Soil Leachage (IC)	WETP/1432	EPA 300.0	IC/1255
H10040326003	MW-4 (9-11 FT)	Soil Leachage (IC)	WETP/1432	EPA 300.0	IC/1255
H10040326004	MW-1 (7-9 FT)	Soil Leachage (IC)	WETP/1432	EPA 300.0	IC/1255
H10040326005	MW-1 (11-13 FT)	Soil Leachage (IC)	WETP/1432	EPA 300.0	IC/1255
H10040326006	MW-3 (1.5-3.0 FT)	Soil Leachage (IC)	WETP/1432	EPA 300.0	IC/1255
H10040326007	MW-3 (3.0-4.5 FT)	Soil Leachage (IC)	WETP/1432	EPA 300.0	IC/1255
H10040326008	MW-3 (9-11 FT)	Soil Leachage (IC)	WETP/1432	EPA 300.0	IC/1255
H10040326009	MW-2 (1.5-3.0 FT)	Soil Leachage (IC)	WETP/1432	EPA 300.0	IC/1255
H10040326010	MW-2 (9-11 FT)	Soil Leachage (IC)	WETP/1432	EPA 300.0	IC/1255
H10040326009	MW-2 (1.5-3.0 FT)	Soil Leachage (IC)	WETP/1255		
H10040326001	MW-4 (0-1.5 FT)	ASTM D2216	WETC/2863		
H10040326002	MW-4 (1.5-3.0 FT)	ASTM D2216	WETC/2863		
H10040326003	MW-4 (9-11 FT)	ASTM D2216	WETC/2863		
H10040326004	MW-1 (7-9 FT)	ASTM D2216	WETC/2863		
H10040326005	MW-1 (11-13 FT)	ASTM D2216	WETC/2863		
H10040326006	MW-3 (1.5-3.0 FT)	ASTM D2216	WETC/2863		
H10040326007	MW-3 (3.0-4.5 FT)	ASTM D2216	WETC/2863		
H10040326008	MW-3 (9-11 FT)	ASTM D2216	WETC/2863		
H10040326009	MW-2 (1.5-3.0 FT)	ASTM D2216	WETC/2863		



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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: H10040326 : Wilinuth No. 1

Project Number:

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
H10040326010	MW-2 (9-11 FT)	ASTM D2216	WETC/2863		



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Sample Receipt Checklist

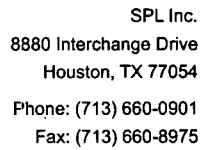
WorkOrder:	H10040326	Received By	LOG
Date and Time	04/13/2010 09:30	Carrier Name:	FEDEXS
Temperature:	3.0°C	Chilled By:	Not Chilled

1. Shipping container/cooler in good condition? YES
2. Custody seals intact on shipping container/cooler? YES
3. Custody seals intact on sample bottles? Not Present
4. Chain of custody present? YES
5. Chain of custody signed when relinquished and received? YES
6. Chain of custody agrees with sample labels? YES
7. Samples in proper container/bottle? YES
8. Samples containers intact? YES
9. Sufficient sample volume for indicated test? YES
10. All samples received within holding time? YES
11. Container/Temp Blank temperature in compliance? YES
12. Water - VOA vials have zero headspace? VOA Vials Not Present
13. Water - Preservation checked upon receipt(except VOA*)? Not Applicable

*VOA Preservation Checked After Sample Analysis

SPL Representative:
Client Name Contacted:
Client Instructions:

Contact Date & Time:



Report ID: H10040326_6125
Printed: 05/03/2010 10:58



SPL, Inc.
Analysis Request & Chain of Custody Record

SPL Workorder No. 2908385

Page 2 of 3

Client Name: Texas Tech / ConocoPhillips
Address: 6121 Indian School Rd NE # 200
City: Albuquerque State: NM Zip: 87110
Phone/Fax: 505-237-8440
Client Contact: Kelly Blanchard Email: kelly.blanchard@tchph.com
Project Name/No.: Altimath No. 1
Site Name:
Site Location: Aztec, NM
Invoice To: ConocoPhillips P.O. #
SAMPLE ID DATE TIME comp grab

SAMPLE ID	DATE	TIME	comp	grab	matrix	bottle	size	pres.	Number of Containers	Requested Analysis
MW-1 (11-13)	4-6-10	835		X	S	G	4/8	Ø	2	X
MW-1 (11-13)	4-6-10	835		X	S	G	16	Ø	1	X
MW-3 (15-30)	4-5-10	1440		X	S	G	1/8	Ø	2	X
MW-3 (15-30)	4-5-10	1440		X	S	G	16	Ø	1	X
MW-3 (30-45)	4-5-10	1450		X	S	G	4/8	Ø	2	X
MW-3 (30-45)	4-5-10	1450		X	S	G	16	Ø	1	X
MW-3 (9-11)	4-7-10	940		X	S	G	4/8	Ø	2	X
MW-3 (9-11)	4-7-10	940		X	S	G	16	Ø	1	X
MW-2 (15-30)	4-5-10	1340		X	S	G	4/8	Ø	2	X
MW-2 (15-30)	4-5-10	1340		X	S	G	16	Ø	1	X

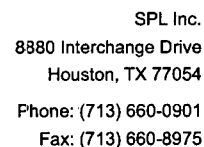
Client/Consultant Remarks: TOTAL METALS/6010B, 6020A & Mercury
SC = Specific Conductance
Laboratory remarks:
Intact? ☐ Y ☐ N
Temp: ☐ Y ☐ N

Requested TAT: ☐ 1 Business Day ☐ Contract ☒ Standard
☐ 2 Business Days ☒ Standard
☐ 3 Business Days
☐ Other
Rush TAT requires prior notice

Special Reporting Requirements Results: Fax ☐ Email ☒ Print ☒
Standard QC ☒ Level 3 QC ☐ Level 4 QC ☐ TX TRRP ☐ LA RRCAP ☐
Refrigerated by sample ☒
Refrigerated by McClure date 4-12-10 time 1315
5. Relinquished by: date time
6. Received by Laboratory: date time

Special Detection Limits (specify):
2. Received by:
4. Received by:
6. Received by Laboratory:
PVI review (initial):

☒ 8880 Interchange Drive
Houston, TX 77054 (713) 660-0901
☐ 500 Ambassador Caffery Parkway
Scott, LA 70583 (337) 237-4775
☐ 459 Hughes Drive
Traverse City, MI 49686 (231) 947-5777

Printed: 05/03/2010 10:58

APPENDIX C

April and June 2010 Groundwater Sampling Field Forms



TETRA TECH, INC.

WATER SAMPLING FIELD FORM

Project Name Wilmoth #1Page 1 of 4

Project No. _____

Site Location _____

Site/Well No. MW - 1Coded/
Replicate No. Dup @ 1600Date 4-8-10Weather Sunny, warmTime Sampling
Began 1535Time Sampling
Completed ~~1545~~ ~~1555~~ 1555

EVACUATION DATA

Description of Measuring Point (MP) Top of Casing

Height of MP Above/Below Land Surface _____

MP Elevation _____

Total Sounded Depth of Well Below MP 27.5

Water-Level Elevation _____

Held _____ Depth to Water Below MP 5.21Diameter of Casing 2"Wet _____ Water Column in Well 22.29Gallons Pumped/Bailed
Prior to Sampling 10.75Gallons per Foot 0.16Gallons in Well 3.56Sampling Pump Intake Setting
(feet below land surface) _____Purging Equipment Purge pump/BailerX3 = 10.69

SAMPLING DATA/FIELD PARAMETERS

Time	Temperature (°C)	pH	Conductivity (µS/cm)	TDS (g/L)	DO (mg/L)	DO %	ORP (mV)	Volume (gal.)
<u>5:45</u>	<u>10.99</u>	<u>7.16</u>	<u>2544</u>	<u>1.653</u>	<u>5.43</u>	<u>48.5</u>	<u>-99.2</u>	<u>9</u>
<u>5:47</u>	<u>10.99</u>	<u>7.21</u>	<u>2522</u>	<u>1.642</u>	<u>4.02</u>	<u>36.0</u>	<u>-103.5</u>	<u>9.5</u>
<u>5:48</u>	<u>10.91</u>	<u>7.24</u>	<u>2507</u>	<u>1.630</u>	<u>3.15</u>	<u>28.6</u>	<u>-108.2</u>	<u>9.75</u>
<u>5:49</u>	<u>10.90</u>	<u>7.24</u>	<u>2483</u>	<u>1.614</u>	<u>2.64</u>	<u>23.6</u>	<u>-112.5</u>	<u>10.00</u>
<u>6:50</u>	<u>10.80</u>	<u>7.25</u>	<u>2476</u>	<u>1.609</u>	<u>2.38</u>	<u>21.6</u>	<u>-114.3</u>	<u>10.25</u>

Sampling Equipment

Purge Pump/Bailer

Constituents Sampled

Container/Description

Preservative

SVOCs/VOCs 32 Ambers / 40 mL VOAs none HClDissolved Metals (NMU/QC) 16 oz plastic NoneIons / H₂O properties 16/32 oz Plastics NoneRemarks H₂O is brown with silt, no odor or sheen observedSampling Personnel Christine Matthews & Bernie Lauchas

Well Casing Volumes

Gal./ft.	1 1/4" = 0.077	2" = 0.16	3" = 0.37	4" = 0.65
	1 1/2" = 0.10	2 1/2" = 0.24	3 1/2" = 0.50	6" = 1.46

2 sets VOA's - VOCs/TPH GRO
4 Ambers - SVOCs/TPH PRO
1 Amber w/ H₂SO₄ - Nitrates
3 16 oz Plastics - metals, ions, properties
1 32 oz plastic - H₂O properties



TETRA TECH, INC.

WATER SAMPLING FIELD FORM

Project Name

Wilmoth #1

Page

2

of

4

Project No.

Site Location

Site/Well No.

MW-2

Coded/

Replicate No.

Date

4-8-10

Weather

sunny, warm

Time Sampling

Began

1440

Time Sampling

Completed

1515

EVACUATION DATA

Description of Measuring Point (MP) Top of Casing

Height of MP Above/Below Land Surface

MP Elevation

Total Sounded Depth of Well Below MP

32.25

Water-Level Elevation

Held

Depth to Water Below MP

6.48

Diameter of Casing

2"

Wet

Water Column in Well

25.77

Gallons Pumped/Bailed

Prior to Sampling

12.25

Gallons per Foot

.16

Gallons in Well

4.12

Sampling Pump Intake Setting

(feet below land surface)

Purging Equipment

Purge pump Bailer

X3 = 12.369

SAMPLING DATA/FIELD PARAMETERS

Time	Temperature (°C)	pH	Conductivity (µS/cm)	TDS (g/L)	DO (mg/L)	DO %	ORP (mV)	Volume (gal.)
1501	11.46	7.92	1726	1.122	7.56	67.9	-110.9	10.25
1504	10.79	7.61	1628	1.057	7.61	40.6	-108.6	10.50
1505	10.67	7.54	1598	1.033	3.52	31.9	-108.7	11.00
1506	10.41	7.50	1549	1.013	3.11	27.7	-109.4	11.25
1508	10.40	7.49	1549	1.006	2.75	24.5	-110.9	11.50

Sampling Equipment

Purge Pump Bailer

Constituents Sampled

Container Description

Preservative

Baseline

VOCs / SVOCs

40mL VOAs / 32oz Ambers

HCL / None

Dissolved Metals / Ambers

16oz Plastic

none

Ions / H₂O properties

16oz 32oz Plastics

none

Remarks

H₂O is brown with silt, no odor or sheen observed

Sampling Personnel

Bernie Lautes & Christine Matthews

Well Casing Volumes

Gal./ft.	1 1/4" = 0.077	2" = 0.16	3" = 0.37	4" = 0.65
	1 1/2" = 0.10	2 1/2" = 0.24	3 1/2" = 0.50	6" = 1.46



TETRA TECH, INC.

WATER SAMPLING FIELD FORM

Project Name Wilmuth #1Page 3 of 4

Project No. _____

Site Location _____

Site/Well No. MW - 3Coded/
Replicate No. _____Date 4-8-10Weather Sunny, warmTime Sampling
Began 1410Time Sampling
Completed 1445

EVACUATION DATA

Description of Measuring Point (MP) Top of Casing

Height of MP Above/Below Land Surface _____

MP Elevation _____

Total Sounded Depth of Well Below MP 32.5

Water-Level Elevation _____

Held _____ Depth to Water Below MP 6.37Diameter of Casing 2"Wet _____ Water Column in Well 26.13Gallons Pumped/Bailed
Prior to Sampling 12.75Gallons per Foot .16Gallons in Well 4.18 x 3Sampling Pump Intake Setting
(feet below land surface) _____Purging Equipment Purge pump / Bailer= 12.54

SAMPLING DATA/FIELD PARAMETERS

Time	Temperature (°C)	pH	Conductivity (µS/cm)	TDS (g/L)	DO (mg/L)	DO %	ORP (mV)	Volume (gal.)
<u>1437</u>	<u>12.27</u>	<u>7.12</u>	<u>1081</u>	<u>.703</u>	<u>5.48</u>	<u>51.9</u>	<u>-11.0</u>	<u>1.0</u>
<u>1440</u>	<u>11.60</u>	<u>7.17</u>	<u>1091</u>	<u>.709</u>	<u>4.48</u>	<u>41.0</u>	<u>-22.7</u>	<u>10.25</u>
<u>1441</u>	<u>11.27</u>	<u>7.19</u>	<u>1093</u>	<u>.710</u>	<u>4.05</u>	<u>36.8</u>	<u>-28.2</u>	<u>10.5</u>
<u>1442</u>	<u>11.04</u>	<u>7.21</u>	<u>1097</u>	<u>.711</u>	<u>3.71</u>	<u>34.0</u>	<u>-33.4</u>	<u>10.75</u>
<u>1443</u>	<u>11.00</u>	<u>7.23</u>	<u>1093</u>	<u>.710</u>	<u>3.48</u>	<u>31.5</u>	<u>-37.6</u>	<u>11.00</u>

Sampling Equipment

Purge Pump/Bailer

Constituents Sampled

Container Description

Preservative

Baseline VOCs/SVOCs 40ml VOA's / 32oz Ambers HCL NoneDissolved Metals (Amurea) 16oz Plastics noneIons / H₂O properties 16oz / 32oz Plastics NoneRemarks H₂O is brown and silty, no odor's no green observedSampling Personnel Bernie Lavetes & Christine Matthews

Well Casing Volumes

Gal./ft.	1 1/4" = 0.077	2" = 0.16	3" = 0.37	4" = 0.65
	1 1/2" = 0.10	2 1/2" = 0.24	3 1/2" = 0.50	6" = 1.46



TETRATECH, INC.

WATER SAMPLING FIELD FORM

Project Name Wilmut #1Page 4 of 4

Project No. _____

Site Location _____

Site/Well No. MW - 4Coded/
Replicate No. _____Date 4-8-10Weather sunny, warmTime Sampling
Began 1540Time Sampling
Completed 1615

EVACUATION DATA

Description of Measuring Point (MP) Top of Casing

Height of MP Above/Below Land Surface _____ MP Elevation _____

Total Sounded Depth of Well Below MP 27.5 32.4 Water-Level Elevation _____Held _____ Depth to Water Below MP 5.2 9.68 Diameter of Casing 2"Wet _____ Water Column in Well 22.72 Gallons Pumped/Bailed Prior to Sampling 11Gallons per Foot 3.63Gallons in Well x 3 = Sampling Pump Intake Setting (feet below land surface) _____Purging Equipment Purge pump / Bailer 10.90

SAMPLING DATA/FIELD PARAMETERS

Type	Temperature (°C)	pH	Conductivity (µS/cm)	TDS (g/L)	DO (mg/L)	DO %	ORP (mV)	Volume (gal.)
<u>1610</u>	<u>10.45</u>	<u>7.43</u>	<u>2191</u>	<u>1.425</u>	<u>5.53</u>	<u>49.7</u>	<u>-108.6</u>	<u>9.75</u>
<u>1611</u>	<u>10.45</u>	<u>7.47</u>	<u>2210</u>	<u>1.436</u>	<u>5.05</u>	<u>45.2</u>	<u>-108.9</u>	<u>10.00</u>
<u>1612</u>	<u>10.45</u>	<u>7.62</u>	<u>2202</u>	<u>1.430</u>	<u>4.57</u>	<u>40.2</u>	<u>-110.7</u>	<u>10.60</u>

Sampling Equipment Purge Pump/Bailer

Constituents Sampled

Container Description

Preservative

Baseline
VOCs/SVOCs 40ml VOA's / 32oz Amber HCL NoneDissolved Metals (NMWALL) 16oz plastic noneIons / H₂O properties 16oz / 32oz plastics noneRemarks H₂O is brown and silty, no odor or other observedSampling Personnel Christine Matthews & Bernie Lauetes

Well Casing Volumes

Gal./ft.	1 1/4" = 0.077	2" = 0.16	3" = 0.37	4" = 0.65
	1 1/2" = 0.10	2 1/2" = 0.24	3 1/2" = 0.50	6" = 1.46



TETRA TECH, INC.

WATER SAMPLING FIELD FORM

Project Name Willmuth No. 1Page 1 of 4

act No. _____

Site Location Aztec, NMSite/Well No. MW-1Coded/
Replicate No. Duplicate @ 1145Date 6/9/10Weather sunny, hot 75°Time Sampling
Began _____Time Sampling
Completed 1210

EVACUATION DATA

Description of Measuring Point (MP) Top of Casing

Height of MP Above/Below Land Surface _____ MP Elevation _____

Total Sounded Depth of Well Below MP 25.86 Water-Level Elevation _____Held _____ Depth to Water Below MP 1.94 Diameter of Casing 2"Wet _____ Water Column in Well 23.82 Gallons Pumped/Bailed Prior to Sampling 11.5

Gallons per Foot _____ 0.16

Gallons in Well 3.811 Sampling Pump Intake Setting (feet below land surface) _____Purging Equipment Purge pump / Bailer X3 = 11.43

SAMPLING DATA/FIELD PARAMETERS

Time	Temperature (°C)	pH	Conductivity (µS/cm³)	TDS (g/L)	DO (mg/L)	DO %	ORP (mV)	Volume (gal.)
<u>1202</u>	<u>11.69</u>	<u>7.02</u>	<u>1.339</u>	<u>—</u>	<u>2.01</u>	<u>19.3</u>	<u>103.5</u>	<u>10.5</u>
<u>1204</u>	<u>12.03</u>	<u>6.88</u>	<u>1.341</u>	<u>—</u>	<u>1.55</u>	<u>14.7</u>	<u>96.3</u>	<u>11.0</u>
<u>1206</u>	<u>12.19</u>	<u>6.87</u>	<u>1.348</u>	<u>—</u>	<u>1.48</u>	<u>13.9</u>	<u>91.3</u>	<u>11.5</u>

Sampling Equipment Purge Pump/Bailer

Constituents Sampled	Container Description	Preservative
<u>Sulfate & TDS chloride</u>	<u>32 oz plastic</u>	<u>none</u>
<u>Dissolved Mn</u>	<u>16 oz plastic</u>	<u>none</u>
<u>BTEX</u>	<u>(3) 40 mL vials</u>	<u>HCL</u>

Remarks H₂O is brown and silty, no odor or sheen observedSampling Personnel CM & CB

Well Casing Volumes

Gal./ft.	1 1/4" = 0.077	2" = 0.16	3" = 0.37	4" = 0.65
	1 1/2" = 0.10	2 1/2" = 0.24	3 1/2" = 0.50	6" = 1.46



TETRATECH, INC.

WATER SAMPLING FIELD FORM

Project Name Wilmoth No. 1Page 2 of 4

act No. _____

Site Location Aztec, NMSite/Well No. MW-2Coded/
Replicate No. _____Date 6/9/10Weather sunny, hot 75°Time Sampling
Began 1010 1000Time Sampling
Completed 1130

EVACUATION DATA

Description of Measuring Point (MI Top of Casing) _____

Height of MP Above/Below Land Surface _____ MP Elevation _____

Total Sounded Depth of Well Below MP 32.42 Water-Level Elevation _____Held _____ Depth to Water Below MP 3.68 Diameter of Casing 2"Wet _____ Water Column in Well 28.74 Gallons Pumped/Bailed Prior to Sampling 14Gallons per Foot 0.16Gallons in Well 4.5984 Sampling Pump Intake (feet below land) _____Purging Equipment Purge pump / Bailer X3 = 13.80

SAMPLING DATA/FIELD PARAMETERS

Time	Temperature (°C)	pH	Conductivity ($\mu\text{S}/\text{cm}^3$)	TDS (g/L)	DO (mg/L)	DO %	ORP (mV)	Volume (gal.)
<u>1121</u>	<u>13.17</u>	<u>7.42</u>	<u>1.213</u>	<u>—</u>	<u>1.54</u>	<u>14.7</u>	<u>77.2</u>	<u>12.5</u>
<u>1123</u>	<u>13.01</u>	<u>6.93</u>	<u>1.211</u>	<u>—</u>	<u>1.40</u>	<u>13.3</u>	<u>77.4</u>	<u>13.0</u>
<u>1225</u>	<u>12.51</u>	<u>6.66</u>	<u>1.208</u>	<u>—</u>	<u>1.30</u>	<u>12.1</u>	<u>11.8</u>	<u>13.5</u>

Sampling Equipment Purge Pump/Bailer

Constituents Sampled	Container Description	Preservative
<u>Sulfate & TDS Chloride</u>	<u>32 oz plastic</u>	<u>none</u>
<u>Dissolved Mn</u>	<u>16 oz plastic</u>	<u>none</u>
<u>BTEX</u>	<u>(3) 40 mL VOAS</u>	<u>HCl</u>

Remarks H₂O is brown and silty, no odor or green observedSampling Personnel CM & CB

Well Casing Volumes

Gal./ft.	1 1/4" = 0.077	2" = 0.16	3" = 0.37	4" = 0.65
	1 1/2" = 0.10	2 1/2" = 0.24	3 1/2" = 0.50	6" = 1.46



TETRA TECH, INC.

WATER SAMPLING FIELD FORM

Project Name Wilmuth No. 1Page 3 of 4

Site No. _____

Site Location Aztec, NMSite/Well No. MW-3Coded/
Replicate No. _____Date 6/9/10Weather Sunny, hot 75°Time Sampling
Began 1600Time Sampling
Completed 1110

EVACUATION DATA

Description of Measuring Point (MP) Top of Casing

Height of MP Above/Below Land Surface _____ MP Elevation _____

Total Sounded Depth of Well Below MP 32.75 Water-Level Elevation _____Held _____ Depth to Water Below MP 3.39 Diameter of Casing 2"Wet _____ Water Column in Well 29.36 Gallons Pumped/Bailed Prior to Sampling 14.25

Gallons per Foot _____ 0.16

Gallons in Well 4.1876 Sampling Pump Intake Setting (feet below land surface) _____Purging Equipment Purge pump/Bailer X3 = 14.09

SAMPLING DATA/FIELD PARAMETERS

Time	Temperature (°C)	pH	Conductivity (µS/cm³)	TDS (g/L)	DO (mg/L)	DO %	ORP (mV)	Volume (gal.)
1107	14.11	6.68	1.058	—	18.77	152.6	139.2	13.5
1108	13.13	6.40	1.055	—	2.53	22.6	146.7	14.0
1109	12.55	6.24	1.055	—	1.60	14.7	133.2	14.25

Sampling Equipment Purge Pump/Bailer

Constituents Sampled

Container Description

Preservative

Sulfate, TDS, Chloride 32oz plastic None

Dissolved Mn 16 oz plastic None

BTEX (3) 40ml VOA's HCL

Remarks H₂O is brown and silty, no odor or taste observedSampling Personnel CM

Well Casing Volumes

Gal./ft.	1 1/4" = 0.077	2" = 0.16	3" = 0.37	4" = 0.65
	1 1/2" = 0.10	2 1/2" = 0.24	3 1/2" = 0.50	6" = 1.46



TETRA TECH, INC.

WATER SAMPLING FIELD FORM

Project Name Wilmuth No. 1Page 4 of 4

act No. _____

Site Location Aztec, NMSite/Well No. MW - 4Coded/
Replicate No. _____Date 6/9/10Weather Sunny, hotTime Sampling
Began 130Time Sampling
Completed 135

EVACUATION DATA

Description of Measuring Point (MP) Top of Casing

Height of MP Above/Below Land Surface _____ MP Elevation _____

Total Sounded Depth of Well Below MP 32.52 Water-Level Elevation _____Held _____ Depth to Water Below MP 4.41 Diameter of Casing 2"Wet _____ Water Column in Well 28.11 Gallons Pumped/Bailed _____Gallons per Foot 0.16 Prior to Sampling _____Gallons in Well 4.4976 Sampling Pump Intake Setting _____Purging Equipment Purge pump / Bailer 83 = 13.49 (feet below land surface) _____

SAMPLING DATA/FIELD PARAMETERS

Time	Temperature (°C)	pH	Conductivity (µS/cm³)	TDS (g/L)	DO (mg/L)	DO %	ORP (mV)	Volume (gal.)
<u>149</u>	<u>13.92</u>	<u>7.43</u>	<u>1.732</u>	<u>—</u>	<u>8.16</u>	<u>68.9</u>	<u>107.3</u>	<u>12.75</u>
<u>150</u>	<u>13.65</u>	<u>7.29</u>	<u>1.714</u>	<u>—</u>	<u>9.16</u>	<u>20.0</u>	<u>97.8</u>	<u>13.0</u>
<u>152</u>	<u>13.50</u>	<u>7.14</u>	<u>1.673</u>	<u>—</u>	<u>1.69</u>	<u>16.1</u>	<u>91.0</u>	<u>5.5</u>

Sampling Equipment Purge Pump/Bailer

Constituents Sampled	Container Description	Preservative
<u>Sulfate & TDS</u>	<u>2 chloride 32oz plastic</u>	<u>None</u>
<u>Dissolved Mn</u>	<u>16 oz plastic</u>	<u>None</u>
<u>BTEX</u>	<u>(3) 240 ml VOA's</u>	<u>HCl</u>

Remarks _____

Sampling Personnel CM & CB

Well Casing Volumes

Gal./ft.	1 1/4" = 0.077	2" = 0.16	3" = 0.37	4" = 0.65
	1 1/2" = 0.10	2 1/2" = 0.24	3 1/2" = 0.50	6" = 1.46

APPENDIX D

April and June 2010 Groundwater Laboratory Analytical Reports



SPL Inc.
8880 Interchange Drive
Houston, TX 77054
Phone: (713) 660-0901
Fax: (713) 660-8975

Certificate of Analysis

April 26, 2010

Workorder: H10040214

Kelly Blanchard
Tetra Tech
6121 Indian School Road NE
Suite 200
Albuquerque, NM 87110

Project: Wilmuth No. 1
Project Number: Wilmuth No. 1
Site: Aztec, New Mexico
PO Number: ENFOS
NELAC Cert. No.: T104704205-09-1

This Report Contains A Total Of 75 Pages

Excluding Any Attachments



SPL Inc.
8880 Interchange Drive
Houston, TX 77054
Phone: (713) 660-0901
Fax: (713) 660-8975

Certificate of Analysis

April 26, 2010

Workorder: H10040214

Kelly Blanchard
Tetra Tech
6121 Indian School Road NE
Suite 200
Albuquerque, NM 87110

Project: Wilmuth No. 1
Project Number: Wilmuth No. 1
Site: Aztec, New Mexico
PO Number: ENFOS
NELAC Cert. No.: T104704205-09-1

I. SAMPLE RECEIPT:

All samples were received intact. The internal ice chest temperatures were measured on receipt and are recorded on the attached Sample Receipt Checklist.

Upon receipt of your samples, the lab received three sets of trip blanks however there was only one written on the COC. The lab logged in all trip blanks for BTEX analysis. The lab received one of the 16oz unpreserved plastic containers for sample "MW-3" with the lid off. In order to perform the requested analysis, the lab split sample from the 32oz unpreserved plastic into an unpreserved 16oz plastic to replace the container that was received with the lid off. In addition, the lab received pH out of method holding time.

II: ANALYSES AND EXCEPTIONS:

Volatile Organics analysis (8260B):

The results for 2-chloroethyl vinyl ether should be considered estimated due to compound decomposition as a result of acid preservation. The result for this compound is reported as "ND J" for all samples in the report.

Sample ID "MW-1" (SPL ID: H10040214001) was randomly selected for use in SPL's quality control program for Batch ID: MSV/1746. The Matrix Spike (MS) and Matrix Spike Duplicate (MSD) recoveries were outside of the advisable quality control limits for 2-Chloroethyl vinyl ether due to compound decomposition as a result of acid preservation. A Laboratory Control Sample (LCS) was analyzed as a quality control check for the analytical batch and all recoveries were within acceptable limits.

SW8015B - Diesel Range Organics analysis:

Due to limited sample volume, a Matrix Spike (MS) or Matrix Spike Duplicate (MSD) was not extracted for Batch ID: EXTO/1609. A Laboratory Control Sample (LCS) and a Laboratory Control Sample Duplicate (LCSD) were extracted with the analytical batch and serve as the batch quality control (QC). The LCS and LCSD recovered acceptably and precision criteria were met.

SM4500 - Nitrate+Nitrite as Nitrogen:

Your sample ID "MW-3" (SPL ID: H10040214003) was randomly selected for use in SPL's quality control program for Batch ID WETC/2872. The Matrix Spike (MS) and Matrix Spike Duplicate (MSD) recoveries were outside of the advisable quality control limits due to matrix interference. A Laboratory Control Sample (LCS) was analyzed as a quality control check for the analytical batch and all recoveries were within acceptable limits.



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Certificate of Analysis

April 26, 2010

Workorder: H10040214

Kelly Blanchard
Tetra Tech
6121 Indian School Road NE
Suite 200
Albuquerque, NM 87110

Project: Wilmuth No. 1
Project Number: Wilmuth No. 1
Site: Aztec, New Mexico
PO Number: ENFOS
NELAC Cert. No.: T104704205-09-1

III. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report (" mg/kg-dry " or " ug/kg-dry ").

Matrix spike (MS) and matrix spike duplicate (MSD) samples are chosen and tested at random from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. Since the MS and MSD are chosen at random from an analytical batch, the sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The Laboratory Control Sample (LCS) and the Method Blank (MB) are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

Some of the percent recoveries and RPD's on the QC report for the MS/MSD may be different than the calculated recoveries and RPD's using the sample result and the MS/MSD results that appear on the report because, the actual raw result is used to perform the calculations for percent recovery and RPD.

Any other exceptions associated with this report will be footnoted in the analytical result page(s) or the quality control summary page(s).

Please do not hesitate to contact us if you have any questions or comments pertaining to this data report. Please reference the above Certificate of Analysis Number.

This report shall not be reproduced except in full, without the written approval of the laboratory. The reported results are only representative of the samples submitted for testing.

SPL, Inc. is pleased to be of service to you. We anticipate working with you in fulfilling all your current and future analytical needs.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or by his designee, as verified by the following signature.



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Certificate of Analysis

April 26, 2010

Workorder: H10040214

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Erica Cardenas, Senior Project Manager

Enclosures



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SAMPLE SUMMARY

Workorder: H10040214 : Wilmuth No. 1

Project Number: Wilmuth No. 1

Lab ID	Sample ID	Matrix	COC ID	Date/Time Collected	Date/Time Received
H10040214001	MW-1	Water		4/8/2010 15:55	4/10/2010 09:30
H10040214002	MW-2	Water		4/8/2010 15:15	4/10/2010 09:30
H10040214003	MW-3	Water		4/8/2010 14:45	4/10/2010 09:30
H10040214004	MW-4	Water		4/8/2010 16:15	4/10/2010 09:30
H10040214005	Duplicate	Water		4/8/2010 16:00	4/10/2010 09:30
H10040214006	Trip Blank	Water		4/9/2010 17:30	4/10/2010 09:30
H10040214007	MW-2 Shallow	Water		4/6/2010 10:25	4/10/2010 09:30
H10040214008	Trip Blank 2	Water		4/6/2010 00:00	4/10/2010 09:30
H10040214009	Trip Blank 3	Water		4/6/2010 00:00	4/10/2010 09:30



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ANALYTICAL RESULTS

Workorder: H10040214 : Wilmuth No. 1

Project Number: Wilmuth No. 1

Lab ID: H10040214001

Date/Time Received: 4/10/2010 09:30 Matrix: Water

Sample ID: MW-1

Date/Time Collected: 4/8/2010 15:55

WET CHEMISTRY

Analysis Desc: EPA 300.0 Analytical Batches:
Batch: 1247 EPA 300.0 on 04/12/2010 19:08 by CFS DF = 100.
Batch: 1249 EPA 300.0 on 04/13/2010 13:07 by CFS DF = 1.

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information	
	mg/l						Prep	Analysis
Bromide	ND		0.500	0.0830	1			1249
Chloride	143		50.0	12.6	100			1247
Fluoride	0.999		0.500	0.0430	1			1249
Orthophosphate (As P)	ND		0.500	0.0420	1			1249
Sulfate	879		50.0	4.35	100			1247

Analysis Desc: SM 2320 B Analytical Batches:
Batch: 2823 SM 2320 B on 04/13/2010 12:30 by PAC

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information	
	mg/l						Prep	Analysis
Alkalinity, total as CaCO3	355		2.00	1.68	1			2823

Analysis Desc: SM 2340 C Analytical Batches:
Batch: 2817 SM 2340 C on 04/12/2010 15:45 by PAC

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information	
	mg/l						Prep	Analysis
Hardness as CaCO3	880		100	61.4	20			2817

Analysis Desc: SM 4500-H+ B Analytical Batches:
Batch: 2349 SM 4500-H+ B on 04/10/2010 12:00 by ESK

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information	
	SU						Prep	Analysis
pH	6.97	Q	0.100		1			2349

Analysis Desc: SM 2540 C Analytical Batches:
Batch: 1555 SM 2540 C on 04/13/2010 18:50 by CFS

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information	
	mg/l						Prep	Analysis
Residue, Filterable (TDS)	1780		100	39.4	10			1555



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ANALYTICAL RESULTS

Workorder: H10040214 : Wilmuth No. 1

Project Number: Wilmuth No. 1

Lab ID: H10040214001

Date/Time Received: 4/10/2010 09:30 Matrix: Water

Sample ID: MW-1

Date/Time Collected: 4/8/2010 15:55

SEMIVOLATILE HYDROCARBONS

Analysis Desc: SW-846 8015B Fuels

Preparation Batches:

Batch: 1609 SW-846 3510C on 04/13/2010 16:28 by A_G

Analytical Batches:

Batch: 1418 SW-846 8015B Fuels on 04/15/2010 03:55 by NDW

Parameters	Results					Batch Information	
	mg/l	Qual	Report Limit	MDL	DF	RegLmt	Prep Analysis
Diesel Range Organics (DRO)	0.20		0.10	0.029	1		1609 1418
n-Pentacosane (S)	84.2 %		20-150		1		1609 1418

ICP DISSOLVED METALS

Analysis Desc: SW-846 6010B

Preparation Batches:

Batch: 1656 SW-846 3010A on 04/12/2010 15:30 by R_V

Analytical Batches:

Batch: 1354 SW-846 6010B on 04/21/2010 03:10 by EBG

Parameters	Results					Batch Information	
	mg/l	Qual	Report Limit	MDL	DF	RegLmt	Prep Analysis
Aluminum	ND		0.100	0.0612	1		1656 1354
Arsenic	ND		0.00500	0.00140	1		1656 1354
Barium	0.0359		0.00500	0.000470	1		1656 1354
Boron	0.146		0.100	0.00100	1		1656 1354
Cadmium	ND		0.00500	0.000170	1		1656 1354
Chromium	ND		0.00500	0.000460	1		1656 1354
Cobalt	0.00550		0.00500	0.000170	1		1656 1354
Copper	ND		0.00500	0.000470	1		1656 1354
Iron	0.0213		0.0200	0.00640	1		1656 1354
Lead	ND		0.00500	0.000700	1		1656 1354
Manganese	3.03		0.00500	0.000300	1		1656 1354
Molybdenum	0.0104		0.00500	0.000250	1		1656 1354
Nickel	ND		0.00500	0.000650	1		1656 1354
Selenium	ND		0.0100	0.00190	1		1656 1354
Silver	ND		0.00500	0.000670	1		1656 1354
Zinc	ND		0.0100	0.00110	1		1656 1354

VOLATILES



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ANALYTICAL RESULTS

Workorder: H10040214 : Wilmuth No. 1

Project Number: Wilmuth No. 1

Lab ID: H10040214001

Date/Time Received: 4/10/2010 09:30 Matrix: Water

Sample ID: MW-1

Date/Time Collected: 4/8/2010 15:55

Analysis Desc: SW-846 8260B

SW-846 5030 Analytical Batches:

Batch: 1747 SW-846 8260B on 04/13/2010 10:31 by JMC

Parameters	Results		Report Limit	MDL	DF	RegLmt	Batch Information	
	ug/l	Qual					Prep	Analysis
2-Butanone	ND		12	0.89	1			1747
Acetone	ND		12	0.73	1			1747
Acrylonitrile	ND		5.0	1.4	1			1747
Benzene	ND		1.0	0.10	1			1747
Bromobenzene	ND		1.0	0.16	1			1747
Bromochloromethane	ND		1.0	0.27	1			1747
Bromodichloromethane	ND		1.0	0.19	1			1747
Bromoform	ND		1.0	0.23	1			1747
Bromomethane	ND		1.0	0.35	1			1747
n-Butylbenzene	ND		1.0	0.14	1			1747
sec-Butylbenzene	ND		1.0	0.12	1			1747
tert-Butylbenzene	ND		1.0	0.31	1			1747
Carbon disulfide	ND		5.0	0.29	1			1747
Carbon tetrachloride	ND		1.0	0.18	1			1747
Chlorobenzene	ND		1.0	0.11	1			1747
Chloroethane	ND		1.0	0.34	1			1747
2-Chloroethylvinyl ether	ND	J	5.0	0.19	1			1747
Chloroform	ND		1.0	0.15	1			1747
Chloromethane	ND		1.0	0.12	1			1747
4-Chlorotoluene	ND		1.0	0.34	1			1747
2-Chlorotoluene	ND		1.0	0.16	1			1747
Dibromochloromethane	ND		1.0	0.16	1			1747
1,2-Dibromo-3-chloropropane	ND		5.0	0.51	1			1747
1,2-Dibromoethane	ND		1.0	0.17	1			1747
Dibromomethane	ND		1.0	0.27	1			1747
1,4-Dichlorobenzene	ND		1.0	0.20	1			1747
1,3-Dichlorobenzene	ND		1.0	0.19	1			1747
1,2-Dichlorobenzene	ND		1.0	0.14	1			1747
Dichlorodifluoromethane	ND		1.0	0.47	1			1747
1,2-Dichloroethane	ND		1.0	0.23	1			1747
1,1-Dichloroethane	ND		1.0	0.19	1			1747
1,2-Dichloroethene, Total	ND		1.0	0.23	1			1747
1,1-Dichloroethene	ND		1.0	0.34	1			1747
cis-1,2-Dichloroethene	ND		1.0	0.23	1			1747
trans-1,2-Dichloroethene	ND		1.0	0.34	1			1747
1,3-Dichloropropane	ND		1.0	0.28	1			1747
2,2-Dichloropropane	ND		1.0	0.46	1			1747
1,2-Dichloropropane	ND		1.0	0.18	1			1747



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ANALYTICAL RESULTS

Workorder: H10040214 : Wilmuth No. 1

Project Number: Wilmuth No. 1

Lab ID: H10040214001

Date/Time Received: 4/10/2010 09:30

Matrix: Water

Sample ID: MW-1

Date/Time Collected: 4/8/2010 15:55

Parameters	Results					Batch Information	
	Qual	Report Limit	MDL	DF	RegLmt	Prep	Analysis
cis-1,3-Dichloropropene	ND	1.0	0.20	1			1747
trans-1,3-Dichloropropene	ND	1.0	0.15	1			1747
1,1-Dichloropropene	ND	1.0	0.20	1			1747
Ethylbenzene	ND	1.0	0.15	1			1747
Hexachlorobutadiene	ND	1.0	0.31	1			1747
2-Hexanone	ND	12	0.47	1			1747
Isopropylbenzene (Cumene)	ND	1.0	0.092	1			1747
4-Isopropyltoluene	8.2	1.0	0.17	1			1747
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.32	1			1747
Methyl Isobutyl Ketone (MIBK)	ND	12	0.14	1			1747
Methylene chloride	ND	5.0	0.32	1			1747
Naphthalene	ND	1.0	0.11	1			1747
n-Propylbenzene	ND	1.0	0.17	1			1747
Styrene	ND	1.0	0.10	1			1747
1,1,1,2-Tetrachloroethane	ND	1.0	0.094	1			1747
1,1,1,2,2-Tetrachloroethane	ND	1.0	0.14	1			1747
Tetrachloroethene	ND	1.0	0.14	1			1747
Toluene	ND	1.0	0.29	1			1747
1,2,4-Trichlorobenzene	ND	1.0	0.16	1			1747
1,2,3-Trichlorobenzene	ND	1.0	0.15	1			1747
1,1,1-Trichloroethane	ND	1.0	0.39	1			1747
1,1,2-Trichloroethane	ND	1.0	0.15	1			1747
Trichloroethene	ND	1.0	0.21	1			1747
Trichlorofluoromethane	ND	1.0	0.30	1			1747
1,2,3-Trichloropropane	ND	1.0	0.21	1			1747
1,3,5-Trimethylbenzene	ND	1.0	0.097	1			1747
1,2,4-Trimethylbenzene	ND	1.0	0.12	1			1747
Vinyl acetate	ND	1.0	0.20	1			1747
Vinyl chloride	ND	1.0	0.28	1			1747
m,p-Xylene	ND	1.0	0.18	1			1747
o-Xylene	ND	1.0	0.13	1			1747
Xylenes, Total	ND	1.0	0.13	1			1747
4-Bromofluorobenzene (S)	91.3 %	74-125		1			1747
1,2-Dichloroethane-d4 (S)	101 %	70-130		1			1747
Toluene-d8 (S)	101 %	82-118		1			1747

SEMIVOLATILES



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ANALYTICAL RESULTS

Workorder: H10040214 : Wilmuth No. 1

Project Number: Wilmuth No. 1

Lab ID: H10040214001

Date/Time Received: 4/10/2010 09:30 Matrix: Water

Sample ID: MW-1

Date/Time Collected: 4/8/2010 15:55

Analysis Desc: SW-846 8270C

Preparation Batches:

Batch: 1594 SW-846 3510C on 04/12/2010 10:41 by A_G

Analytical Batches:

Batch: 1207 SW-846 8270C on 04/13/2010 14:25 by EMR

Parameters	Results				DF	RegLmt	Batch Information	
	ug/l	Qual	Report Limit	MDL			Prep	Analysis
Acenaphthene	ND		5.6	1.6	1		1594	1207
Acenaphthylene	ND		5.6	1.6	1		1594	1207
Aniline	ND		5.6	2.8	1		1594	1207
Anthracene	ND		5.6	1.6	1		1594	1207
Benzo(a)anthracene	ND		5.6	1.6	1		1594	1207
Benzo(a)pyrene	ND		5.6	1.8	1		1594	1207
Benzo(b)fluoranthene	ND		5.6	1.7	1		1594	1207
Benzo(g,h,i)perylene	ND		5.6	1.7	1		1594	1207
Benzo(k)fluoranthene	ND		5.6	2.0	1		1594	1207
Benzoic acid	ND		28	4.4	1		1594	1207
Benzyl alcohol	ND		5.6	1.4	1		1594	1207
Bis(2-Chloroethoxy)methane	ND		5.6	2.6	1		1594	1207
Bis(2-Chloroethyl)ether	ND		5.6	1.8	1		1594	1207
bis(2-Chloroisopropyl)ether	ND		5.6	1.8	1		1594	1207
bis(2-Ethylhexyl)phthalate	ND		5.6	1.8	1		1594	1207
4-Bromophenyl phenyl ether	ND		5.6	1.7	1		1594	1207
Butyl benzyl phthalate	ND		5.6	1.8	1		1594	1207
Carbazole	ND		5.6	1.7	1		1594	1207
4-Chloro-3-methylphenol	ND		5.6	1.5	1		1594	1207
4-Chloroaniline	ND		5.6	1.4	1		1594	1207
2-Chloronaphthalene	ND		5.6	1.8	1		1594	1207
2-Chlorophenol	ND		5.6	1.5	1		1594	1207
4-Chlorophenyl phenyl ether	ND		5.6	1.9	1		1594	1207
Chrysene	ND		5.6	1.7	1		1594	1207
Cresols, Total	ND		5.6	1.5	1		1594	1207
Di-n-butyl phthalate	ND		5.6	1.8	1		1594	1207
Di-n-octyl phthalate	ND		5.6	1.8	1		1594	1207
Dibenz(a,h)anthracene	ND		5.6	1.6	1		1594	1207
Dibenzofuran	ND		5.6	1.6	1		1594	1207
1,3-Dichlorobenzene	ND		5.6	1.6	1		1594	1207
1,2-Dichlorobenzene	ND		5.6	1.6	1		1594	1207
1,4-Dichlorobenzene	ND		5.6	1.6	1		1594	1207
2,4-Dichlorophenol	ND		5.6	1.4	1		1594	1207
Diethyl phthalate	ND		5.6	1.7	1		1594	1207
Dimethyl phthalate	ND		5.6	1.7	1		1594	1207



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ANALYTICAL RESULTS

Workorder: H10040214 : Wilmuth No. 1

Project Number: Wilmuth No. 1

Lab ID: H10040214001

Date/Time Received: 4/10/2010 09:30

Matrix: Water

Sample ID: MW-1

Date/Time Collected: 4/8/2010 15:55

Parameters	Results					Batch Information	
	Qual	Report Limit	MDL	DF	RegLmt	Prep	Analysis
2,4-Dimethylphenol	ND	5.6	1.6	1		1594	1207
4,6-Dinitro-2-methylphenol	ND	28	4.6	1		1594	1207
2,4-Dinitrophenol	ND	28	4.7	1		1594	1207
2,6-Dinitrotoluene	ND	5.6	1.6	1		1594	1207
2,4-Dinitrotoluene	ND	5.6	1.4	1		1594	1207
Diphenylamine	ND	11	2.2	1		1594	1207
1,2-Diphenylhydrazine	ND	11	4.4	1		1594	1207
Fluoranthene	ND	5.6	1.6	1		1594	1207
Fluorene	ND	5.6	1.6	1		1594	1207
Hexachlorobenzene	ND	5.6	1.7	1		1594	1207
Hexachlorobutadiene	ND	5.6	1.7	1		1594	1207
Hexachlorocyclopentadiene	ND	5.6	1.2	1		1594	1207
Hexachloroethane	ND	5.6	1.5	1		1594	1207
Indeno(1,2,3-cd)pyrene	ND	5.6	1.6	1		1594	1207
Isophorone	ND	5.6	1.5	1		1594	1207
2-Methylnaphthalene	ND	5.6	1.7	1		1594	1207
2-Methylphenol (o-Cresol)	ND	5.6	1.5	1		1594	1207
3 & 4-Methylphenol	ND	5.6	1.5	1		1594	1207
n-Nitrosodi-n-propylamine	ND	5.6	1.7	1		1594	1207
n-Nitrosodimethylamine	ND	5.6	1.7	1		1594	1207
n-Nitrosodiphenylamine	ND	5.6	2.2	1		1594	1207
Naphthalene	ND	5.6	1.6	1		1594	1207
3-Nitroaniline	ND	28	4.3	1		1594	1207
4-Nitroaniline	ND	28	3.4	1		1594	1207
2-Nitroaniline	ND	28	4.7	1		1594	1207
Nitrobenzene	ND	5.6	1.6	1		1594	1207
2-Nitrophenol	ND	5.6	1.5	1		1594	1207
4-Nitrophenol	ND	28	5.8	1		1594	1207
Pentachlorophenol	ND	28	1.2	1		1594	1207
Phenanthrene	ND	5.6	1.7	1		1594	1207
Phenol	ND	5.6	1.7	1		1594	1207
Pyrene	ND	5.6	1.7	1		1594	1207
Pyridine	ND	5.6	2.7	1		1594	1207
1,2,4-Trichlorobenzene	ND	5.6	1.6	1		1594	1207
2,4,6-Trichlorophenol	ND	5.6	1.5	1		1594	1207
2,4,5-Trichlorophenol	ND	11	1.3	1		1594	1207
3,3'-Dichlorobenzidine	ND	11	3.4	1		1594	1207
2-Fluorobiphenyl (S)	85.2 %	45-108		1		1594	1207
2-Fluorophenol (S)	72 %	18-113		1		1594	1207
Nitrobenzene-d5 (S)	86.1 %	41-113		1		1594	1207
Phenol-d6 (S)	59.1 %	10-113		1		1594	1207



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ANALYTICAL RESULTS

Workorder: H10040214 : Wilmuth No. 1

Project Number: Wilmuth No. 1

Lab ID: H10040214001

Date/Time Received: 4/10/2010 09:30

Matrix: Water

Sample ID: MW-1

Date/Time Collected: 4/8/2010 15:55

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information	
							Prep	Analysis
Terphenyl-d14 (S)	97.2 %		43-122		1		1594	1207
2,4,6-Tribromophenol (S)	103 %		25-154		1		1594	1207

PHYSICAL PROPERTIES

Analysis Desc: EPA 120.1

Analytical Batches:

Batch: 2803 EPA 120.1 on 04/10/2010 12:00 by ESK

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information	
	umhos/cm @ 25C						Prep	Analysis
Specific Conductivity	2350	Q	10.0	0.647	1			2803

METALS

Analysis Desc: SW-846 7470A

Preparation Batches:

Batch: 1118 SW-846 7470A on 04/13/2010 12:00 by F_S

Analytical Batches:

Batch: 1109 SW-846 7470A on 04/13/2010 15:44 by R_V

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information	
	mg/l						Prep	Analysis
Mercury	ND		0.000200	0.0000851	1		1118	1109

DISSOLVED METALS

Analysis Desc: SW-846 7470A

Preparation Batches:

Batch: 1119 SW-846 7470A on 04/13/2010 12:00 by F_S

Analytical Batches:

Batch: 1109 SW-846 7470A on 04/13/2010 16:41 by R_V

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information	
	ug/l						Prep	Analysis
Mercury	ND		0.200	0.0851	1		1119	1109

Analysis Desc: SM 4500 NO3 F

Analytical Batches:

Batch: 2872 SM 4500 NO3 F on 04/21/2010 09:30 by ESK

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information	
	mg/l						Prep	Analysis
Nitrate+Nitrite (as Nitrogen)	ND		0.500	0.0791	1			2872



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ANALYTICAL RESULTS

Workorder: H10040214 : Wilmuth No. 1

Project Number: Wilmuth No. 1

Lab ID: H10040214001

Date/Time Received: 4/10/2010 09:30

Matrix: Water

Sample ID: MW-1

Date/Time Collected: 4/8/2010 15:55

Gasoline Range Organics (GRO)

Analysis Desc: SW-846 8015B GRO Gas

SW-846 8015B GRO Gas Analytical Batches:

Batch: 1550 SW-846 8015B GRO Gas on 04/17/2010 13:07 by JWS

Parameters	Results			MDL	DF	RegLmt	Batch Information	
	mg/l	Qual	Report Limit				Prep	Analysis
Gasoline Range Organics	ND		0.10	0.017	1			1550
1,4-Difluorobenzene (S)	95.9 %		60-155		1			1550
4-Bromofluorobenzene (S)	88.6 %		50-158		1			1550



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ANALYTICAL RESULTS

Workorder: H10040214 : Wilmuth No. 1

Project Number: Wilmuth No. 1

Lab ID: H10040214002

Date/Time Received: 4/10/2010 09:30

Matrix: Water

Sample ID: MW-2

Date/Time Collected: 4/8/2010 15:15

WET CHEMISTRY

Analysis Desc: EPA 300.0

Analytical Batches:

Batch: 1247 EPA 300.0 on 04/12/2010 19:25 by CFS DF = 100.

Batch: 1249 EPA 300.0 on 04/13/2010 13:23 by CFS DF = 1.

Batch: 1249 EPA 300.0 on 04/13/2010 15:58 by CFS DF = 10.

Parameters	Results					RegLmt	Batch Information	
	mg/l	Qual	Report Limit	MDL	DF		Prep	Analysis
Bromide	ND		0.500	0.0830	1			1249
Chloride	27.7		5.00	1.26	10			1249
Fluoride	0.729		0.500	0.0430	1			1249
Orthophosphate (As P)	ND		0.500	0.0420	1			1249
Sulfate	533		50.0	4.35	100			1247

Analysis Desc: SM 2320 B

Analytical Batches:

Batch: 2823 SM 2320 B on 04/13/2010 12:30 by PAC

Parameters	Results					RegLmt	Batch Information	
	mg/l	Qual	Report Limit	MDL	DF		Prep	Analysis
Alkalinity, total as CaCO3	278		2.00	1.68	1			2823

Analysis Desc: SM 2340 C

Analytical Batches:

Batch: 2817 SM 2340 C on 04/12/2010 15:45 by PAC

Parameters	Results					RegLmt	Batch Information	
	mg/l	Qual	Report Limit	MDL	DF		Prep	Analysis
Hardness as CaCO3	1080		100	61.4	20			2817

Analysis Desc: SM 4500-H+ B

Analytical Batches:

Batch: 2349 SM 4500-H+ B on 04/10/2010 12:00 by ESK

Parameters	Results					RegLmt	Batch Information	
	SU	Qual	Report Limit	MDL	DF		Prep	Analysis
pH	7.18	Q	0.100		1			2349

Analysis Desc: SM 2540 C

Analytical Batches:

Batch: 1555 SM 2540 C on 04/13/2010 18:50 by CFS

Parameters	Results					RegLmt	Batch Information	
	mg/l	Qual	Report Limit	MDL	DF		Prep	Analysis
Residue, Filterable (TDS)	1120		100	39.4	10			1555



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ANALYTICAL RESULTS

Workorder: H10040214 : Wilmuth No. 1

Project Number: Wilmuth No. 1

Lab ID: H10040214002

Date/Time Received: 4/10/2010 09:30

Matrix: Water

Sample ID: MW-2

Date/Time Collected: 4/8/2010 15:15

SEMIVOLATILE HYDROCARBONS

Analysis Desc: SW-846 8015B Fuels

Preparation Batches:

Batch: 1609 SW-846 3510C on 04/13/2010 16:28 by A_G

Analytical Batches:

Batch: 1418 SW-846 8015B Fuels on 04/15/2010 04:15 by NDW

Parameters	Results					Batch Information	
	mg/l	Qual	Report Limit	MDL	DF	RegLmt	Prep Analysis
Diesel Range Organics (DRO)	ND		0.10	0.029	1		1609 1418
n-Pentacosane (S)	69.2 %		20-150		1		1609 1418

ICP DISSOLVED METALS

Analysis Desc: SW-846 6010B

Preparation Batches:

Batch: 1656 SW-846 3010A on 04/12/2010 15:30 by R_V

Analytical Batches:

Batch: 1354 SW-846 6010B on 04/21/2010 03:16 by EBG

Parameters	Results					Batch Information	
	mg/l	Qual	Report Limit	MDL	DF	RegLmt	Prep Analysis
Aluminum	ND		0.100	0.0612	1		1656 1354
Arsenic	ND		0.00500	0.00140	1		1656 1354
Barium	0.0262		0.00500	0.000470	1		1656 1354
Boron	0.112		0.100	0.00100	1		1656 1354
Cadmium	ND		0.00500	0.000170	1		1656 1354
Chromium	ND		0.00500	0.000460	1		1656 1354
Cobalt	ND		0.00500	0.000170	1		1656 1354
Copper	ND		0.00500	0.000470	1		1656 1354
Iron	ND		0.0200	0.00640	1		1656 1354
Lead	ND		0.00500	0.000700	1		1656 1354
Manganese	2.48		0.00500	0.000300	1		1656 1354
Molybdenum	0.00630		0.00500	0.000250	1		1656 1354
Nickel	ND		0.00500	0.000650	1		1656 1354
Selenium	ND		0.0100	0.00190	1		1656 1354
Silver	ND		0.00500	0.000670	1		1656 1354
Zinc	ND		0.0100	0.00110	1		1656 1354

VOLATILES



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ANALYTICAL RESULTS

Workorder: H10040214 : Wilmuth No. 1

Project Number: Wilmuth No. 1

Lab ID: H10040214002

Date/Time Received: 4/10/2010 09:30

Matrix: Water

Sample ID: MW-2

Date/Time Collected: 4/8/2010 15:15

Analysis Desc: SW-846 8260B

SW-846 5030 Analytical Batches:

Batch: 1747 SW-846 8260B on 04/13/2010 10:59 by JMC

Parameters	Results					Batch Information	
	ug/l	Qual	Report Limit	MDL	DF	RegLmt	Prep Analysis
2-Butanone	ND		12	0.89	1		1747
Acetone	ND		12	0.73	1		1747
Acrylonitrile	ND		5.0	1.4	1		1747
Benzene	ND		1.0	0.10	1		1747
Bromobenzene	ND		1.0	0.16	1		1747
Bromochloromethane	ND		1.0	0.27	1		1747
Bromodichloromethane	ND		1.0	0.19	1		1747
Bromoform	ND		1.0	0.23	1		1747
Bromomethane	ND		1.0	0.35	1		1747
n-Butylbenzene	ND		1.0	0.14	1		1747
sec-Butylbenzene	ND		1.0	0.12	1		1747
tert-Butylbenzene	ND		1.0	0.31	1		1747
Carbon disulfide	ND		5.0	0.29	1		1747
Carbon tetrachloride	ND		1.0	0.18	1		1747
Chlorobenzene	ND		1.0	0.11	1		1747
Chloroethane	ND		1.0	0.34	1		1747
2-Chloroethylvinyl ether	ND	J	5.0	0.19	1		1747
Chloroform	ND		1.0	0.15	1		1747
Chloromethane	ND		1.0	0.12	1		1747
4-Chlorotoluene	ND		1.0	0.34	1		1747
2-Chlorotoluene	ND		1.0	0.16	1		1747
Dibromochloromethane	ND		1.0	0.16	1		1747
1,2-Dibromo-3-chloropropane	ND		5.0	0.51	1		1747
1,2-Dibromoethane	ND		1.0	0.17	1		1747
Dibromomethane	ND		1.0	0.27	1		1747
1,4-Dichlorobenzene	ND		1.0	0.20	1		1747
1,3-Dichlorobenzene	ND		1.0	0.19	1		1747
1,2-Dichlorobenzene	ND		1.0	0.14	1		1747
Dichlorodifluoromethane	ND		1.0	0.47	1		1747
1,2-Dichloroethane	ND		1.0	0.23	1		1747
1,1-Dichloroethane	ND		1.0	0.19	1		1747
1,2-Dichloroethene, Total	ND		1.0	0.23	1		1747
1,1-Dichloroethene	ND		1.0	0.34	1		1747
cis-1,2-Dichloroethene	ND		1.0	0.23	1		1747
trans-1,2-Dichloroethene	ND		1.0	0.34	1		1747
1,3-Dichloropropane	ND		1.0	0.28	1		1747
2,2-Dichloropropane	ND		1.0	0.46	1		1747
1,2-Dichloropropane	ND		1.0	0.18	1		1747



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ANALYTICAL RESULTS

Workorder: H10040214 : Wilmuth No. 1

Project Number: Wilmuth No. 1

Lab ID: H10040214002

Date/Time Received: 4/10/2010 09:30

Matrix: Water

Sample ID: MW-2

Date/Time Collected: 4/8/2010 15:15

Parameters	Results					Batch Information	
	Qual	Report Limit	MDL	DF	RegLmt	Prep	Analysis
cis-1,3-Dichloropropene	ND	1.0	0.20	1			1747
trans-1,3-Dichloropropene	ND	1.0	0.15	1			1747
1,1-Dichloropropene	ND	1.0	0.20	1			1747
Ethylbenzene	ND	1.0	0.15	1			1747
Hexachlorobutadiene	ND	1.0	0.31	1			1747
2-Hexanone	ND	12	0.47	1			1747
Isopropylbenzene (Cumene)	ND	1.0	0.092	1			1747
4-Isopropyltoluene	1.7	1.0	0.17	1			1747
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.32	1			1747
Methyl Isobutyl Ketone (MIBK)	ND	12	0.14	1			1747
Methylene chloride	ND	5.0	0.32	1			1747
Naphthalene	ND	1.0	0.11	1			1747
n-Propylbenzene	ND	1.0	0.17	1			1747
Styrene	ND	1.0	0.10	1			1747
1,1,1,2-Tetrachloroethane	ND	1.0	0.094	1			1747
1,1,2,2-Tetrachloroethane	ND	1.0	0.14	1			1747
Tetrachloroethene	ND	1.0	0.14	1			1747
Toluene	ND	1.0	0.29	1			1747
1,2,4-Trichlorobenzene	ND	1.0	0.16	1			1747
1,2,3-Trichlorobenzene	ND	1.0	0.15	1			1747
1,1,1-Trichloroethane	ND	1.0	0.39	1			1747
1,1,2-Trichloroethane	ND	1.0	0.15	1			1747
Trichloroethene	ND	1.0	0.21	1			1747
Trichlorofluoromethane	ND	1.0	0.30	1			1747
1,2,3-Trichloropropane	ND	1.0	0.21	1			1747
1,3,5-Trimethylbenzene	ND	1.0	0.097	1			1747
1,2,4-Trimethylbenzene	ND	1.0	0.12	1			1747
Vinyl acetate	ND	1.0	0.20	1			1747
Vinyl chloride	ND	1.0	0.28	1			1747
m,p-Xylene	ND	1.0	0.18	1			1747
o-Xylene	ND	1.0	0.13	1			1747
Xylenes, Total	ND	1.0	0.13	1			1747
4-Bromofluorobenzene (S)	90.8 %	74-125		1			1747
1,2-Dichloroethane-d4 (S)	98 %	70-130		1			1747
Toluene-d8 (S)	102 %	82-118		1			1747

SEMIVOLATILES



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ANALYTICAL RESULTS

Workorder: H10040214 : Wilmuth No. 1

Project Number: Wilmuth No. 1

Lab ID: H10040214002

Date/Time Received: 4/10/2010 09:30 Matrix: Water

Sample ID: MW-2

Date/Time Collected: 4/8/2010 15:15

Analysis Desc: SW-846 8270C

Preparation Batches:

Batch: 1594 SW-846 3510C on 04/12/2010 10:41 by A_G

Analytical Batches:

Batch: 1207 SW-846 8270C on 04/13/2010 14:59 by EMR

Parameters	Results				DF	RegLmt	Batch Information	
	ug/l	Qual	Report Limit	MDL			Prep	Analysis
Acenaphthene	ND		5.5	1.6	1		1594	1207
Acenaphthylene	ND		5.5	1.5	1		1594	1207
Aniline	ND		5.5	2.7	1		1594	1207
Anthracene	ND		5.5	1.5	1		1594	1207
Benzo(a)anthracene	ND		5.5	1.6	1		1594	1207
Benzo(a)pyrene	ND		5.5	1.7	1		1594	1207
Benzo(b)fluoranthene	ND		5.5	1.7	1		1594	1207
Benzo(g,h,i)perylene	ND		5.5	1.7	1		1594	1207
Benzo(k)fluoranthene	ND		5.5	1.9	1		1594	1207
Benzoic acid	ND		27	4.3	1		1594	1207
Benzyl alcohol	ND		5.5	1.4	1		1594	1207
Bis(2-Chloroethoxy)methane	ND		5.5	2.5	1		1594	1207
Bis(2-Chloroethyl)ether	ND		5.5	1.7	1		1594	1207
bis(2-Chloroisopropyl)ether	ND		5.5	1.8	1		1594	1207
bis(2-Ethylhexyl)phthalate	ND		5.5	1.8	1		1594	1207
4-Bromophenyl phenyl ether	ND		5.5	1.6	1		1594	1207
Butyl benzyl phthalate	ND		5.5	1.7	1		1594	1207
Carbazole	ND		5.5	1.6	1		1594	1207
4-Chloro-3-methylphenol	ND		5.5	1.5	1		1594	1207
4-Chloroaniline	ND		5.5	1.4	1		1594	1207
2-Chloronaphthalene	ND		5.5	1.7	1		1594	1207
2-Chlorophenol	ND		5.5	1.5	1		1594	1207
4-Chlorophenyl phenyl ether	ND		5.5	1.8	1		1594	1207
Chrysene	ND		5.5	1.6	1		1594	1207
Cresols, Total	ND		5.5	1.5	1		1594	1207
Di-n-butyl phthalate	ND		5.5	1.7	1		1594	1207
Di-n-octyl phthalate	ND		5.5	1.7	1		1594	1207
Dibenz(a,h)anthracene	ND		5.5	1.5	1		1594	1207
Dibenzofuran	ND		5.5	1.6	1		1594	1207
1,3-Dichlorobenzene	ND		5.5	1.5	1		1594	1207
1,2-Dichlorobenzene	ND		5.5	1.5	1		1594	1207
1,4-Dichlorobenzene	ND		5.5	1.5	1		1594	1207
2,4-Dichlorophenol	ND		5.5	1.4	1		1594	1207
Diethyl phthalate	ND		5.5	1.6	1		1594	1207
Dimethyl phthalate	ND		5.5	1.7	1		1594	1207



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ANALYTICAL RESULTS

Workorder: H10040214 : Wilmuth No. 1

Project Number: Wilmuth No. 1

Lab ID: H10040214002

Date/Time Received: 4/10/2010 09:30

Matrix: Water

Sample ID: MW-2

Date/Time Collected: 4/8/2010 15:15

Parameters	Results					Batch Information	
	Qual	Report Limit	MDL	DF	RegLmt	Prep	Analysis
2,4-Dimethylphenol	ND	5.5	1.6	1		1594	1207
4,6-Dinitro-2-methylphenol	ND	27	4.5	1		1594	1207
2,4-Dinitrophenol	ND	27	4.6	1		1594	1207
2,6-Dinitrotoluene	ND	5.5	1.6	1		1594	1207
2,4-Dinitrotoluene	ND	5.5	1.3	1		1594	1207
Diphenylamine	ND	11	2.2	1		1594	1207
1,2-Diphenylhydrazine	ND	11	4.3	1		1594	1207
Fluoranthene	ND	5.5	1.5	1		1594	1207
Fluorene	ND	5.5	1.6	1		1594	1207
Hexachlorobenzene	ND	5.5	1.7	1		1594	1207
Hexachlorobutadiene	ND	5.5	1.6	1		1594	1207
Hexachlorocyclopentadiene	ND	5.5	1.2	1		1594	1207
Hexachloroethane	ND	5.5	1.4	1		1594	1207
Indeno(1,2,3-cd)pyrene	ND	5.5	1.5	1		1594	1207
Isophorone	ND	5.5	1.5	1		1594	1207
2-Methylnaphthalene	ND	5.5	1.6	1		1594	1207
2-Methylphenol (o-Cresol)	ND	5.5	1.5	1		1594	1207
3 & 4-Methylphenol	ND	5.5	1.5	1		1594	1207
n-Nitrosodi-n-propylamine	ND	5.5	1.7	1		1594	1207
n-Nitrosodimethylamine	ND	5.5	1.7	1		1594	1207
n-Nitrosodiphenylamine	ND	5.5	2.2	1		1594	1207
Naphthalene	ND	5.5	1.6	1		1594	1207
3-Nitroaniline	ND	27	4.2	1		1594	1207
4-Nitroaniline	ND	27	3.3	1		1594	1207
2-Nitroaniline	ND	27	4.6	1		1594	1207
Nitrobenzene	ND	5.5	1.6	1		1594	1207
2-Nitrophenol	ND	5.5	1.5	1		1594	1207
4-Nitrophenol	ND	27	5.7	1		1594	1207
Pentachlorophenol	ND	27	1.2	1		1594	1207
Phenanthrene	ND	5.5	1.7	1		1594	1207
Phenol	ND	5.5	1.7	1		1594	1207
Pyrene	ND	5.5	1.7	1		1594	1207
Pyridine	ND	5.5	2.6	1		1594	1207
1,2,4-Trichlorobenzene	ND	5.5	1.6	1		1594	1207
2,4,6-Trichlorophenol	ND	5.5	1.4	1		1594	1207
2,4,5-Trichlorophenol	ND	11	1.3	1		1594	1207
3,3'-Dichlorobenzidine	ND	11	3.3	1		1594	1207
2-Fluorobiphenyl (S)	86.9 %	45-108		1		1594	1207
2-Fluorophenol (S)	71.3 %	18-113		1		1594	1207
Nitrobenzene-d5 (S)	84 %	41-113		1		1594	1207
Phenol-d6 (S)	52.6 %	10-113		1		1594	1207



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ANALYTICAL RESULTS

Workorder: H10040214 : Wilmuth No. 1

Project Number: Wilmuth No. 1

Lab ID: H10040214002

Date/Time Received: 4/10/2010 09:30

Matrix: Water

Sample ID: MW-2

Date/Time Collected: 4/8/2010 15:15

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information	
							Prep	Analysis
Terphenyl-d14 (S)	100 %		43-122		1		1594	1207
2,4,6-Tribromophenol (S)	102 %		25-154		1		1594	1207

PHYSICAL PROPERTIES

Analysis Desc: EPA 120.1

Analytical Batches:

Batch: 2803 EPA 120.1 on 04/10/2010 12:00 by ESK

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information	
	umhos/cm @ 25C						Prep	Analysis
Specific Conductivity	1580	Q	10.0	0.647	1			2803

METALS

Analysis Desc: SW-846 7470A

Preparation Batches:

Batch: 1118 SW-846 7470A on 04/13/2010 12:00 by F_S

Analytical Batches:

Batch: 1109 SW-846 7470A on 04/13/2010 15:51 by R_V

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information	
	mg/l						Prep	Analysis
Mercury	ND		0.000200	0.0000851	1		1118	1109

DISSOLVED METALS

Analysis Desc: SW-846 7470A

Preparation Batches:

Batch: 1119 SW-846 7470A on 04/13/2010 12:00 by F_S

Analytical Batches:

Batch: 1109 SW-846 7470A on 04/13/2010 16:50 by R_V

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information	
	ug/l						Prep	Analysis
Mercury	ND		0.200	0.0851	1		1119	1109

Analysis Desc: SM 4500 NO3 F

Analytical Batches:

Batch: 2872 SM 4500 NO3 F on 04/21/2010 09:30 by ESK

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information	
	mg/l						Prep	Analysis
Nitrate+Nitrite (as Nitrogen)	ND		0.500	0.0791	1			2872



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ANALYTICAL RESULTS

Workorder: H10040214 : Wilmuth No. 1

Project Number: Wilmuth No. 1

Lab ID: H10040214002

Date/Time Received: 4/10/2010 09:30 Matrix: Water

Sample ID: MW-2

Date/Time Collected: 4/8/2010 15:15

Gasoline Range Organics (GRO)

Analysis Desc: SW-846 8015B GRO Gas

SW-846 8015B GRO Gas Analytical Batches:

Batch: 1550 SW-846 8015B GRO Gas on 04/17/2010 13:35 by JWS

Parameters	Results			MDL	DF	RegLmt	Batch Information	
	mg/l	Qual	Report Limit				Prep	Analysis
Gasoline Range Organics	ND		0.10	0.017	1			1550
1,4-Difluorobenzene (S)	95 %		60-155		1			1550
4-Bromofluorobenzene (S)	88.2 %		50-158		1			1550



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ANALYTICAL RESULTS

Workorder: H10040214 : Wilmuth No. 1

Project Number: Wilmuth No. 1

Lab ID: H10040214003

Date/Time Received: 4/10/2010 09:30 Matrix: Water

Sample ID: MW-3

Date/Time Collected: 4/8/2010 14:45

WET CHEMISTRY

Analysis Desc: EPA 300.0

Analytical Batches:

Batch: 1247 EPA 300.0 on 04/12/2010 19:42 by CFS DF = 100.

Batch: 1249 EPA 300.0 on 04/13/2010 13:40 by CFS DF = 1.

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information	
	mg/l						Prep	Analysis
Bromide	ND		0.500	0.0830	1			1249
Chloride	19.2		0.500	0.126	1			1249
Fluoride	0.785		0.500	0.0430	1			1249
Orthophosphate (As P)	ND		0.500	0.0420	1			1249
Sulfate	259		50.0	4.35	100			1247

Analysis Desc: SM 2320 B

Analytical Batches:

Batch: 2823 SM 2320 B on 04/13/2010 12:30 by PAC

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information	
	mg/l						Prep	Analysis
Alkalinity, total as CaCO ₃	294		2.00	1.68	1			2823

Analysis Desc: SM 2340 C

Analytical Batches:

Batch: 2817 SM 2340 C on 04/12/2010 15:45 by PAC

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information	
	mg/l						Prep	Analysis
Hardness as CaCO ₃	1200		100	61.4	20			2817

Analysis Desc: SM 4500-H+ B

Analytical Batches:

Batch: 2349 SM 4500-H+ B on 04/10/2010 12:00 by ESK

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information	
	SU						Prep	Analysis
pH	7.18	Q	0.100		1			2349

Analysis Desc: SM 2540 C

Analytical Batches:

Batch: 1555 SM 2540 C on 04/13/2010 18:50 by CFS

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information	
	mg/l						Prep	Analysis
Residue, Filterable (TDS)	930		100	39.4	10			1555



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ANALYTICAL RESULTS

Workorder: H10040214 : Wilmuth No. 1

Project Number: Wilmuth No. 1

Lab ID: H10040214003

Date/Time Received: 4/10/2010 09:30

Matrix: Water

Sample ID: MW-3

Date/Time Collected: 4/8/2010 14:45

SEMIVOLATILE HYDROCARBONS

Analysis Desc: SW-846 8015B Fuels

Preparation Batches:

Batch: 1609 SW-846 3510C on 04/13/2010 16:27 by A_G

Analytical Batches:

Batch: 1418 SW-846 8015B Fuels on 04/15/2010 04:36 by NDW

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information	
	mg/l						Prep	Analysis
Diesel Range Organics (DRO)	ND		0.10	0.029	1		1609	1418
n-Pentacosane (S)	68.1 %		20-150		1		1609	1418

ICP DISSOLVED METALS

Analysis Desc: SW-846 6010B

Preparation Batches:

Batch: 1656 SW-846 3010A on 04/12/2010 15:30 by R_V

Analytical Batches:

Batch: 1354 SW-846 6010B on 04/21/2010 03:21 by EBG

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information	
	mg/l						Prep	Analysis
Aluminum	ND		0.100	0.0612	1		1656	1354
Arsenic	ND		0.00500	0.00140	1		1656	1354
Barium	0.0285		0.00500	0.000470	1		1656	1354
Boron	ND		0.100	0.00100	1		1656	1354
Cadmium	ND		0.00500	0.000170	1		1656	1354
Chromium	ND		0.00500	0.000460	1		1656	1354
Cobalt	ND		0.00500	0.000170	1		1656	1354
Copper	ND		0.00500	0.000470	1		1656	1354
Iron	ND		0.0200	0.00640	1		1656	1354
Lead	ND		0.00500	0.000700	1		1656	1354
Manganese	1.38		0.00500	0.000300	1		1656	1354
Molybdenum	0.00700		0.00500	0.000250	1		1656	1354
Nickel	ND		0.00500	0.000650	1		1656	1354
Selenium	ND		0.0100	0.00190	1		1656	1354
Silver	ND		0.00500	0.000670	1		1656	1354
Zinc	ND		0.0100	0.00110	1		1656	1354

VOLATILES



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ANALYTICAL RESULTS

Workorder: H10040214 : Wilmuth No. 1

Project Number: Wilmuth No. 1

Lab ID: H10040214003

Date/Time Received: 4/10/2010 09:30 Matrix: Water

Sample ID: MW-3

Date/Time Collected: 4/8/2010 14:45

Analysis Desc: SW-846 8260B

SW-846 5030 Analytical Batches:

Batch: 1747 SW-846 8260B on 04/13/2010 11:26 by JMC

Parameters	Results					Batch Information	
	ug/l	Qual	Report Limit	MDL	DF	RegLmt	Prep Analysis
2-Butanone	ND		12	0.89	1		1747
Acetone	ND		12	0.73	1		1747
Acrylonitrile	ND		5.0	1.4	1		1747
Benzene	ND		1.0	0.10	1		1747
Bromobenzene	ND		1.0	0.16	1		1747
Bromochloromethane	ND		1.0	0.27	1		1747
Bromodichloromethane	ND		1.0	0.19	1		1747
Bromoform	ND		1.0	0.23	1		1747
Bromomethane	ND		1.0	0.35	1		1747
n-Butylbenzene	ND		1.0	0.14	1		1747
sec-Butylbenzene	ND		1.0	0.12	1		1747
tert-Butylbenzene	ND		1.0	0.31	1		1747
Carbon disulfide	ND		5.0	0.29	1		1747
Carbon tetrachloride	ND		1.0	0.18	1		1747
Chlorobenzene	ND		1.0	0.11	1		1747
Chloroethane	ND		1.0	0.34	1		1747
2-Chloroethylvinyl ether	ND	J	5.0	0.19	1		1747
Chloroform	ND		1.0	0.15	1		1747
Chloromethane	ND		1.0	0.12	1		1747
4-Chlorotoluene	ND		1.0	0.34	1		1747
2-Chlorotoluene	ND		1.0	0.16	1		1747
Dibromochloromethane	ND		1.0	0.16	1		1747
1,2-Dibromo-3-chloropropane	ND		5.0	0.51	1		1747
1,2-Dibromoethane	ND		1.0	0.17	1		1747
Dibromomethane	ND		1.0	0.27	1		1747
1,4-Dichlorobenzene	ND		1.0	0.20	1		1747
1,3-Dichlorobenzene	ND		1.0	0.19	1		1747
1,2-Dichlorobenzene	ND		1.0	0.14	1		1747
Dichlorodifluoromethane	ND		1.0	0.47	1		1747
1,2-Dichloroethane	ND		1.0	0.23	1		1747
1,1-Dichloroethane	ND		1.0	0.19	1		1747
1,2-Dichloroethene, Total	ND		1.0	0.23	1		1747
1,1-Dichloroethene	ND		1.0	0.34	1		1747
cis-1,2-Dichloroethene	ND		1.0	0.23	1		1747
trans-1,2-Dichloroethene	ND		1.0	0.34	1		1747
1,3-Dichloropropane	ND		1.0	0.28	1		1747
2,2-Dichloropropane	ND		1.0	0.46	1		1747
1,2-Dichloropropane	ND		1.0	0.18	1		1747



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ANALYTICAL RESULTS

Workorder: H10040214 : Wilmuth No. 1

Project Number: Wilmuth No. 1

Lab ID: H10040214003

Date/Time Received: 4/10/2010 09:30

Matrix: Water

Sample ID: MW-3

Date/Time Collected: 4/8/2010 14:45

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information	
							Prep	Analysis
cis-1,3-Dichloropropene	ND		1.0	0.20	1			1747
trans-1,3-Dichloropropene	ND		1.0	0.15	1			1747
1,1-Dichloropropene	ND		1.0	0.20	1			1747
Ethylbenzene	ND		1.0	0.15	1			1747
Hexachlorobutadiene	ND		1.0	0.31	1			1747
2-Hexanone	ND		12	0.47	1			1747
Isopropylbenzene (Cumene)	ND		1.0	0.092	1			1747
4-Isopropyltoluene	2.4		1.0	0.17	1			1747
Methyl tert-Butyl Ether (MTBE)	ND		1.0	0.32	1			1747
Methyl Isobutyl Ketone (MIBK)	ND		12	0.14	1			1747
Methylene chloride	ND		5.0	0.32	1			1747
Naphthalene	ND		1.0	0.11	1			1747
n-Propylbenzene	ND		1.0	0.17	1			1747
Styrene	ND		1.0	0.10	1			1747
1,1,1,2-Tetrachloroethane	ND		1.0	0.094	1			1747
1,1,2,2-Tetrachloroethane	ND		1.0	0.14	1			1747
Tetrachloroethene	ND		1.0	0.14	1			1747
Toluene	ND		1.0	0.29	1			1747
1,2,4-Trichlorobenzene	ND		1.0	0.16	1			1747
1,2,3-Trichlorobenzene	ND		1.0	0.15	1			1747
1,1,1-Trichloroethane	ND		1.0	0.39	1			1747
1,1,2-Trichloroethane	ND		1.0	0.15	1			1747
Trichloroethene	ND		1.0	0.21	1			1747
Trichlorofluoromethane	ND		1.0	0.30	1			1747
1,2,3-Trichloropropane	ND		1.0	0.21	1			1747
1,3,5-Trimethylbenzene	ND		1.0	0.097	1			1747
1,2,4-Trimethylbenzene	ND		1.0	0.12	1			1747
Vinyl acetate	ND		1.0	0.20	1			1747
Vinyl chloride	ND		1.0	0.28	1			1747
m,p-Xylene	ND		1.0	0.18	1			1747
o-Xylene	ND		1.0	0.13	1			1747
Xylenes, Total	ND		1.0	0.13	1			1747
4-Bromofluorobenzene (S)	94.8 %		74-125		1			1747
1,2-Dichloroethane-d4 (S)	103 %		70-130		1			1747
Toluene-d8 (S)	106 %		82-118		1			1747

SEMIVOLATILES



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ANALYTICAL RESULTS

Workorder: H10040214 : Wilmuth No. 1

Project Number: Wilmuth No. 1

Lab ID: H10040214003

Date/Time Received: 4/10/2010 09:30 Matrix: Water

Sample ID: MW-3

Date/Time Collected: 4/8/2010 14:45

Analysis Desc: SW-846 8270C

Preparation Batches:

Batch: 1594 SW-846 3510C on 04/12/2010 10:40 by A_G

Analytical Batches:

Batch: 1207 SW-846 8270C on 04/13/2010 15:32 by EMR

Parameters	Results		Report Limit	MDL	DF	RegLmt	Batch Information	
	ug/l	Qual					Prep	Analysis
Acenaphthene	ND		5.7	1.6	1		1594	1207
Acenaphthylene	ND		5.7	1.6	1		1594	1207
Aniline	ND		5.7	2.8	1		1594	1207
Anthracene	ND		5.7	1.6	1		1594	1207
Benzo(a)anthracene	ND		5.7	1.6	1		1594	1207
Benzo(a)pyrene	ND		5.7	1.8	1		1594	1207
Benzo(b)fluoranthene	ND		5.7	1.8	1		1594	1207
Benzo(g,h,i)perylene	ND		5.7	1.7	1		1594	1207
Benzo(k)fluoranthene	ND		5.7	2.0	1		1594	1207
Benzoic acid	ND		28	4.5	1		1594	1207
Benzyl alcohol	ND		5.7	1.4	1		1594	1207
Bis(2-Chloroethoxy)methane	ND		5.7	2.6	1		1594	1207
Bis(2-Chloroethyl)ether	ND		5.7	1.8	1		1594	1207
bis(2-Chloroisopropyl)ether	ND		5.7	1.8	1		1594	1207
bis(2-Ethylhexyl)phthalate	ND		5.7	1.8	1		1594	1207
4-Bromophenyl phenyl ether	ND		5.7	1.7	1		1594	1207
Butyl benzyl phthalate	ND		5.7	1.8	1		1594	1207
Carbazole	ND		5.7	1.7	1		1594	1207
4-Chloro-3-methylphenol	ND		5.7	1.6	1		1594	1207
4-Chloroaniline	ND		5.7	1.5	1		1594	1207
2-Chloronaphthalene	ND		5.7	1.8	1		1594	1207
2-Chlorophenol	ND		5.7	1.5	1		1594	1207
4-Chlorophenyl phenyl ether	ND		5.7	1.9	1		1594	1207
Chrysene	ND		5.7	1.7	1		1594	1207
Cresols, Total	ND		5.7	1.5	1		1594	1207
Di-n-butyl phthalate	ND		5.7	1.8	1		1594	1207
Di-n-octyl phthalate	ND		5.7	1.8	1		1594	1207
Dibenz(a,h)anthracene	ND		5.7	1.6	1		1594	1207
Dibenzofuran	ND		5.7	1.6	1		1594	1207
1,3-Dichlorobenzene	ND		5.7	1.6	1		1594	1207
1,2-Dichlorobenzene	ND		5.7	1.6	1		1594	1207
1,4-Dichlorobenzene	ND		5.7	1.6	1		1594	1207
2,4-Dichlorophenol	ND		5.7	1.4	1		1594	1207
Diethyl phthalate	ND		5.7	1.7	1		1594	1207
Dimethyl phthalate	ND		5.7	1.7	1		1594	1207



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ANALYTICAL RESULTS

Workorder: H10040214 : Wilmuth No. 1

Project Number: Wilmuth No. 1

Lab ID: H10040214003

Date/Time Received: 4/10/2010 09:30

Matrix: Water

Sample ID: MW-3

Date/Time Collected: 4/8/2010 14:45

Parameters	Results					Batch Information	
	Qual	Report Limit	MDL	DF	RegLmt	Prep	Analysis
2,4-Dimethylphenol	ND	5.7	1.7	1		1594	1207
4,6-Dinitro-2-methylphenol	ND	28	4.7	1		1594	1207
2,4-Dinitrophenol	ND	28	4.7	1		1594	1207
2,6-Dinitrotoluene	ND	5.7	1.6	1		1594	1207
2,4-Dinitrotoluene	ND	5.7	1.4	1		1594	1207
Diphenylamine	ND	11	2.3	1		1594	1207
1,2-Diphenylhydrazine	ND	11	4.5	1		1594	1207
Fluoranthene	ND	5.7	1.6	1		1594	1207
Fluorene	ND	5.7	1.6	1		1594	1207
Hexachlorobenzene	ND	5.7	1.7	1		1594	1207
Hexachlorobutadiene	ND	5.7	1.7	1		1594	1207
Hexachlorocyclopentadiene	ND	5.7	1.2	1		1594	1207
Hexachloroethane	ND	5.7	1.5	1		1594	1207
Indeno(1,2,3-cd)pyrene	ND	5.7	1.6	1		1594	1207
Isophorone	ND	5.7	1.6	1		1594	1207
2-Methylnaphthalene	ND	5.7	1.7	1		1594	1207
2-Methylphenol (o-Cresol)	ND	5.7	1.5	1		1594	1207
3 & 4-Methylphenol	ND	5.7	1.5	1		1594	1207
n-Nitrosodi-n-propylamine	ND	5.7	1.8	1		1594	1207
n-Nitrosodimethylamine	ND	5.7	1.7	1		1594	1207
n-Nitrosodiphenylamine	ND	5.7	2.3	1		1594	1207
Naphthalene	ND	5.7	1.7	1		1594	1207
3-Nitroaniline	ND	28	4.4	1		1594	1207
4-Nitroaniline	ND	28	3.4	1		1594	1207
2-Nitroaniline	ND	28	4.8	1		1594	1207
Nitrobenzene	ND	5.7	1.6	1		1594	1207
2-Nitrophenol	ND	5.7	1.5	1		1594	1207
4-Nitrophenol	ND	28	5.9	1		1594	1207
Pentachlorophenol	ND	28	1.2	1		1594	1207
Phenanthrene	ND	5.7	1.7	1		1594	1207
Phenol	ND	5.7	1.7	1		1594	1207
Pyrene	ND	5.7	1.8	1		1594	1207
Pyridine	ND	5.7	2.7	1		1594	1207
1,2,4-Trichlorobenzene	ND	5.7	1.6	1		1594	1207
2,4,6-Trichlorophenol	ND	5.7	1.5	1		1594	1207
2,4,5-Trichlorophenol	ND	11	1.3	1		1594	1207
3,3'-Dichlorobenzidine	ND	11	3.4	1		1594	1207
2-Fluorobiphenyl (S)	60.4 %	45-108		1		1594	1207
2-Fluorophenol (S)	50.6 %	18-113		1		1594	1207
Nitrobenzene-d5 (S)	58.2 %	41-113		1		1594	1207
Phenol-d6 (S)	38 %	10-113		1		1594	1207



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ANALYTICAL RESULTS

Workorder: H10040214 : Wilmuth No. 1

Project Number: Wilmuth No. 1

Lab ID: H10040214003

Date/Time Received: 4/10/2010 09:30

Matrix: Water

Sample ID: MW-3

Date/Time Collected: 4/8/2010 14:45

Parameters	Results					Batch Information	
	Qual	Report Limit	MDL	DF	RegLmt	Prep	Analysis
Terphenyl-d14 (S)	67 %	43-122		1		1594	1207
2,4,6-Tribromophenol (S)	66.5 %	25-154		1		1594	1207

PHYSICAL PROPERTIES

Analysis Desc: EPA 120.1

Analytical Batches:

Batch: 2803 EPA 120.1 on 04/10/2010 12:00 by ESK

Parameters	Results					Batch Information	
	Qual	Report Limit	MDL	DF	RegLmt	Prep	Analysis
Specific Conductivity	1090 Q	10.0	0.647	1			2803

METALS

Analysis Desc: SW-846 7470A

Preparation Batches:

Batch: 1118 SW-846 7470A on 04/13/2010 12:00 by F_S

Analytical Batches:

Batch: 1109 SW-846 7470A on 04/13/2010 15:54 by R_V

Parameters	Results					Batch Information	
	Qual	Report Limit	MDL	DF	RegLmt	Prep	Analysis
Mercury	ND	0.000200	0.0000851	1		1118	1109

DISSOLVED METALS

Analysis Desc: SW-846 7470A

Preparation Batches:

Batch: 1119 SW-846 7470A on 04/13/2010 12:00 by F_S

Analytical Batches:

Batch: 1109 SW-846 7470A on 04/13/2010 16:52 by R_V

Parameters	Results					Batch Information	
	Qual	Report Limit	MDL	DF	RegLmt	Prep	Analysis
Mercury	ND	0.200	0.0851	1		1119	1109

Analysis Desc: SM 4500 NO3 F

Analytical Batches:

Batch: 2872 SM 4500 NO3 F on 04/21/2010 09:30 by ESK

Parameters	Results					Batch Information	
	Qual	Report Limit	MDL	DF	RegLmt	Prep	Analysis
Nitrate+Nitrite (as Nitrogen)	ND	0.500	0.0791	1			2872



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ANALYTICAL RESULTS

Workorder: H10040214 : Wilmuth No. 1

Project Number: Wilmuth No. 1

Lab ID: H10040214003

Date/Time Received: 4/10/2010 09:30

Matrix: Water

Sample ID: MW-3

Date/Time Collected: 4/8/2010 14:45

Gasoline Range Organics (GRO)

Analysis Desc: SW-846 8015B GRO Gas

SW-846 8015B GRO Gas Analytical Batches:

Batch: 1550 SW-846 8015B GRO Gas on 04/17/2010 14:02 by JWS

Parameters	Results					Batch Information	
	mg/l	Qual	Report Limit	MDL	DF	RegLmt	Prep Analysis
Gasoline Range Organics	ND		0.10	0.017	1		1550
1,4-Difluorobenzene (S)	94.8 %		60-155		1		1550
4-Bromofluorobenzene (S)	88.4 %		50-158		1		1550



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ANALYTICAL RESULTS

Workorder: H10040214 : Wilmuth No. 1

Project Number: Wilmuth No. 1

Lab ID: H10040214004

Date/Time Received: 4/10/2010 09:30 Matrix: Water

Sample ID: MW-4

Date/Time Collected: 4/8/2010 16:15

WET CHEMISTRY

Analysis Desc: EPA 300.0

Analytical Batches:

Batch: 1247 EPA 300.0 on 04/12/2010 19:58 by CFS DF = 100

Batch: 1249 EPA 300.0 on 04/13/2010 15:25 by CFS DF = 1

Batch: 1249 EPA 300.0 on 04/13/2010 16:15 by CFS DF = 10

Parameters	Results		Report Limit	MDL	DF	RegLmt	Batch Information	
	mg/l	Qual					Prep	Analysis
Bromide	ND		0.500	0.0830	1			1249
Chloride	40.0		5.00	1.26	10			1249
Fluoride	0.839		0.500	0.0430	1			1249
Orthophosphate (As P)	ND		0.500	0.0420	1			1249
Sulfate	918		50.0	4.35	100			1247

Analysis Desc: SM 2320 B

Analytical Batches:

Batch: 2823 SM 2320 B on 04/13/2010 12:30 by PAC

Parameters	Results		Report Limit	MDL	DF	RegLmt	Batch Information	
	mg/l	Qual					Prep	Analysis
Alkalinity, total as CaCO3	286		2.00	1.68	1			2823

Analysis Desc: SM 2340 C

Analytical Batches:

Batch: 2817 SM 2340 C on 04/12/2010 15:45 by PAC

Parameters	Results		Report Limit	MDL	DF	RegLmt	Batch Information	
	mg/l	Qual					Prep	Analysis
Hardness as CaCO3	1360		100	61.4	20			2817

Analysis Desc: SM 4500-H+ B

Analytical Batches:

Batch: 2349 SM 4500-H+ B on 04/10/2010 12:00 by ESK

Parameters	Results		Report Limit	MDL	DF	RegLmt	Batch Information	
	SU	Qual					Prep	Analysis
pH	7.15	Q	0.100		1			2349

Analysis Desc: SM 2540 C

Analytical Batches:

Batch: 1555 SM 2540 C on 04/13/2010 18:50 by CFS

Parameters	Results		Report Limit	MDL	DF	RegLmt	Batch Information	
	mg/l	Qual					Prep	Analysis
Residue, Filterable (TDS)	1900		100	39.4	10			1555



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ANALYTICAL RESULTS

Workorder: H10040214 : Wilmuth No. 1

Project Number: Wilmuth No. 1

Lab ID: H10040214004

Date/Time Received: 4/10/2010 09:30

Matrix: Water

Sample ID: MW-4

Date/Time Collected: 4/8/2010 16:15

SEMIVOLATILE HYDROCARBONS

Analysis Desc: SW-846 8015B Fuels

Preparation Batches:

Batch: 1609 SW-846 3510C on 04/13/2010 16:28 by A_G

Analytical Batches:

Batch: 1418 SW-846 8015B Fuels on 04/15/2010 04:56 by NDW

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information	
	mg/l						Prep	Analysis
Diesel Range Organics (DRO)	0.28		0.10	0.029	1		1609	1418
n-Pentacosane (S)	80.7 %		20-150		1		1609	1418

ICP DISSOLVED METALS

Analysis Desc: SW-846 6010B

Preparation Batches:

Batch: 1656 SW-846 3010A on 04/12/2010 15:30 by R_V

Analytical Batches:

Batch: 1354 SW-846 6010B on 04/21/2010 03:27 by EBG

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information	
	mg/l						Prep	Analysis
Aluminum	ND		0.100	0.0612	1		1656	1354
Arsenic	ND		0.00500	0.00140	1		1656	1354
Barium	0.0342		0.00500	0.000470	1		1656	1354
Boron	0.141		0.100	0.00100	1		1656	1354
Cadmium	ND		0.00500	0.000170	1		1656	1354
Chromium	ND		0.00500	0.000460	1		1656	1354
Cobalt	0.00620		0.00500	0.000170	1		1656	1354
Copper	ND		0.00500	0.000470	1		1656	1354
Iron	ND		0.0200	0.00640	1		1656	1354
Lead	ND		0.00500	0.000700	1		1656	1354
Manganese	3.94		0.00500	0.000300	1		1656	1354
Molybdenum	0.0110		0.00500	0.000250	1		1656	1354
Nickel	ND		0.00500	0.000650	1		1656	1354
Selenium	ND		0.0100	0.00190	1		1656	1354
Silver	ND		0.00500	0.000670	1		1656	1354
Zinc	ND		0.0100	0.00110	1		1656	1354

VOLATILES



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ANALYTICAL RESULTS

Workorder: H10040214 : Wilmuth No. 1

Project Number: Wilmuth No. 1

Lab ID: H10040214004

Date/Time Received: 4/10/2010 09:30

Matrix: Water

Sample ID: MW-4

Date/Time Collected: 4/8/2010 16:15

Analysis Desc: SW-846 8260B

SW-846 5030 Analytical Batches:

Batch: 1747 SW-846 8260B on 04/13/2010 11:54 by JMC

Parameters	Results		Report Limit	MDL	DF	RegLmt	Batch Information	
	ug/l	Qual					Prep	Analysis
2-Butanone	ND		12	0.89	1			1747
Acetone	ND		12	0.73	1			1747
Acrylonitrile	ND		5.0	1.4	1			1747
Benzene	ND		1.0	0.10	1			1747
Bromobenzene	ND		1.0	0.16	1			1747
Bromochloromethane	ND		1.0	0.27	1			1747
Bromodichloromethane	ND		1.0	0.19	1			1747
Bromoform	ND		1.0	0.23	1			1747
Bromomethane	ND		1.0	0.35	1			1747
n-Butylbenzene	ND		1.0	0.14	1			1747
sec-Butylbenzene	ND		1.0	0.12	1			1747
tert-Butylbenzene	ND		1.0	0.31	1			1747
Carbon disulfide	ND		5.0	0.29	1			1747
Carbon tetrachloride	ND		1.0	0.18	1			1747
Chlorobenzene	ND		1.0	0.11	1			1747
Chloroethane	ND		1.0	0.34	1			1747
2-Chloroethylvinyl ether	ND	J	5.0	0.19	1			1747
Chloroform	ND		1.0	0.15	1			1747
Chloromethane	ND		1.0	0.12	1			1747
4-Chlorotoluene	ND		1.0	0.34	1			1747
2-Chlorotoluene	ND		1.0	0.16	1			1747
Dibromochloromethane	ND		1.0	0.16	1			1747
1,2-Dibromo-3-chloropropane	ND		5.0	0.51	1			1747
1,2-Dibromoethane	ND		1.0	0.17	1			1747
Dibromomethane	ND		1.0	0.27	1			1747
1,4-Dichlorobenzene	ND		1.0	0.20	1			1747
1,3-Dichlorobenzene	ND		1.0	0.19	1			1747
1,2-Dichlorobenzene	ND		1.0	0.14	1			1747
Dichlorodifluoromethane	ND		1.0	0.47	1			1747
1,2-Dichloroethane	ND		1.0	0.23	1			1747
1,1-Dichloroethane	ND		1.0	0.19	1			1747
1,2-Dichloroethene, Total	ND		1.0	0.23	1			1747
1,1-Dichloroethene	ND		1.0	0.34	1			1747
cis-1,2-Dichloroethene	ND		1.0	0.23	1			1747
trans-1,2-Dichloroethene	ND		1.0	0.34	1			1747
1,3-Dichloropropane	ND		1.0	0.28	1			1747
2,2-Dichloropropane	ND		1.0	0.46	1			1747
1,2-Dichloropropane	ND		1.0	0.18	1			1747



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ANALYTICAL RESULTS

Workorder: H10040214 : Wilmuth No. 1

Project Number: Wilmuth No. 1

Lab ID: H10040214004

Date/Time Received: 4/10/2010 09:30

Matrix: Water

Sample ID: MW-4

Date/Time Collected: 4/8/2010 16:15

Parameters	Results					Batch Information	
	Qual	Report Limit	MDL	DF	RegLmt	Prep	Analysis
cis-1,3-Dichloropropene	ND	1.0	0.20	1			1747
trans-1,3-Dichloropropene	ND	1.0	0.15	1			1747
1,1-Dichloropropene	ND	1.0	0.20	1			1747
Ethylbenzene	ND	1.0	0.15	1			1747
Hexachlorobutadiene	ND	1.0	0.31	1			1747
2-Hexanone	ND	12	0.47	1			1747
Isopropylbenzene (Cumene)	ND	1.0	0.092	1			1747
4-Isopropyltoluene	21	1.0	0.17	1			1747
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.32	1			1747
Methyl Isobutyl Ketone (MIBK)	ND	12	0.14	1			1747
Methylene chloride	ND	5.0	0.32	1			1747
Naphthalene	ND	1.0	0.11	1			1747
n-Propylbenzene	ND	1.0	0.17	1			1747
Styrene	ND	1.0	0.10	1			1747
1,1,1,2-Tetrachloroethane	ND	1.0	0.094	1			1747
1,1,2,2-Tetrachloroethane	ND	1.0	0.14	1			1747
Tetrachloroethene	ND	1.0	0.14	1			1747
Toluene	ND	1.0	0.29	1			1747
1,2,4-Trichlorobenzene	ND	1.0	0.16	1			1747
1,2,3-Trichlorobenzene	ND	1.0	0.15	1			1747
1,1,1-Trichloroethane	ND	1.0	0.39	1			1747
1,1,2-Trichloroethane	ND	1.0	0.15	1			1747
Trichloroethene	ND	1.0	0.21	1			1747
Trichlorofluoromethane	ND	1.0	0.30	1			1747
1,2,3-Trichloropropane	ND	1.0	0.21	1			1747
1,3,5-Trimethylbenzene	ND	1.0	0.097	1			1747
1,2,4-Trimethylbenzene	ND	1.0	0.12	1			1747
Vinyl acetate	ND	1.0	0.20	1			1747
Vinyl chloride	ND	1.0	0.28	1			1747
m,p-Xylene	ND	1.0	0.18	1			1747
o-Xylene	ND	1.0	0.13	1			1747
Xylenes, Total	ND	1.0	0.13	1			1747
4-Bromofluorobenzene (S)	91.3 %	74-125		1			1747
1,2-Dichloroethane-d4 (S)	102 %	70-130		1			1747
Toluene-d8 (S)	101 %	82-118		1			1747

SEMIVOLATILES



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ANALYTICAL RESULTS

Workorder: H10040214 : Wilmuth No. 1

Project Number: Wilmuth No. 1

Lab ID: H10040214004

Date/Time Received: 4/10/2010 09:30 Matrix: Water

Sample ID: MW-4

Date/Time Collected: 4/8/2010 16:15

Analysis Desc: SW-846 8270C

Preparation Batches:

Batch: 1594 SW-846 3510C on 04/12/2010 10:41 by A_G

Analytical Batches:

Batch: 1207 SW-846 8270C on 04/13/2010 16:06 by EMR

Parameters	Results					Batch Information	
	ug/l	Qual	Report Limit	MDL	DF	RegLmt	Prep Analysis
Acenaphthene	ND		5.7	1.6	1		1594 1207
Acenaphthylene	ND		5.7	1.6	1		1594 1207
Aniline	ND		5.7	2.9	1		1594 1207
Anthracene	ND		5.7	1.6	1		1594 1207
Benzo(a)anthracene	ND		5.7	1.6	1		1594 1207
Benzo(a)pyrene	ND		5.7	1.8	1		1594 1207
Benzo(b)fluoranthene	ND		5.7	1.8	1		1594 1207
Benzo(g,h,i)perylene	ND		5.7	1.7	1		1594 1207
Benzo(k)fluoranthene	ND		5.7	2.0	1		1594 1207
Benzoic acid	ND		29	4.5	1		1594 1207
Benzyl alcohol	ND		5.7	1.4	1		1594 1207
Bis(2-Chloroethoxy)methane	ND		5.7	2.6	1		1594 1207
Bis(2-Chloroethyl)ether	ND		5.7	1.8	1		1594 1207
bis(2-Chloroisopropyl)ether	ND		5.7	1.8	1		1594 1207
bis(2-Ethylhexyl)phthalate	ND		5.7	1.9	1		1594 1207
4-Bromophenyl phenyl ether	ND		5.7	1.7	1		1594 1207
Butyl benzyl phthalate	ND		5.7	1.8	1		1594 1207
Carbazole	ND		5.7	1.7	1		1594 1207
4-Chloro-3-methylphenol	ND		5.7	1.6	1		1594 1207
4-Chloroaniline	ND		5.7	1.5	1		1594 1207
2-Chloronaphthalene	ND		5.7	1.8	1		1594 1207
2-Chlorophenol	ND		5.7	1.5	1		1594 1207
4-Chlorophenyl phenyl ether	ND		5.7	1.9	1		1594 1207
Chrysene	ND		5.7	1.7	1		1594 1207
Cresols, Total	ND		5.7	1.6	1		1594 1207
Di-n-butyl phthalate	ND		5.7	1.8	1		1594 1207
Di-n-octyl phthalate	ND		5.7	1.8	1		1594 1207
Dibenz(a,h)anthracene	ND		5.7	1.6	1		1594 1207
Dibenzofuran	ND		5.7	1.7	1		1594 1207
1,3-Dichlorobenzene	ND		5.7	1.6	1		1594 1207
1,2-Dichlorobenzene	ND		5.7	1.6	1		1594 1207
1,4-Dichlorobenzene	ND		5.7	1.6	1		1594 1207
2,4-Dichlorophenol	ND		5.7	1.4	1		1594 1207
Diethyl phthalate	ND		5.7	1.7	1		1594 1207
Dimethyl phthalate	ND		5.7	1.7	1		1594 1207



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ANALYTICAL RESULTS

Workorder: H10040214 : Wilmuth No. 1

Project Number: Wilmuth No. 1

Lab ID: H10040214004

Date/Time Received: 4/10/2010 09:30

Matrix: Water

Sample ID: MW-4

Date/Time Collected: 4/8/2010 16:15

Parameters	Results					Batch Information	
	Qual	Report Limit	MDL	DF	RegLmt	Prep	Analysis
2,4-Dimethylphenol	ND	5.7	1.7	1		1594	1207
4,6-Dinitro-2-methylphenol	ND	29	4.7	1		1594	1207
2,4-Dinitrophenol	ND	29	4.8	1		1594	1207
2,6-Dinitrotoluene	ND	5.7	1.6	1		1594	1207
2,4-Dinitrotoluene	ND	5.7	1.4	1		1594	1207
Diphenylamine	ND	11	2.3	1		1594	1207
1,2-Diphenylhydrazine	ND	11	4.5	1		1594	1207
Fluoranthene	ND	5.7	1.6	1		1594	1207
Fluorene	ND	5.7	1.6	1		1594	1207
Hexachlorobenzene	ND	5.7	1.7	1		1594	1207
Hexachlorobutadiene	ND	5.7	1.7	1		1594	1207
Hexachlorocyclopentadiene	ND	5.7	1.2	1		1594	1207
Hexachloroethane	ND	5.7	1.5	1		1594	1207
Indeno(1,2,3-cd)pyrene	ND	5.7	1.6	1		1594	1207
Isophorone	ND	5.7	1.6	1		1594	1207
2-Methylnaphthalene	ND	5.7	1.7	1		1594	1207
2-Methylphenol (o-Cresol)	ND	5.7	1.6	1		1594	1207
3 & 4-Methylphenol	ND	5.7	1.6	1		1594	1207
n-Nitrosodi-n-propylamine	ND	5.7	1.8	1		1594	1207
n-Nitrosodimethylamine	ND	5.7	1.7	1		1594	1207
n-Nitrosodiphenylamine	ND	5.7	2.3	1		1594	1207
Naphthalene	ND	5.7	1.7	1		1594	1207
3-Nitroaniline	ND	29	4.4	1		1594	1207
4-Nitroaniline	ND	29	3.5	1		1594	1207
2-Nitroaniline	ND	29	4.8	1		1594	1207
Nitrobenzene	ND	5.7	1.7	1		1594	1207
2-Nitrophenol	ND	5.7	1.6	1		1594	1207
4-Nitrophenol	ND	29	6.0	1		1594	1207
Pentachlorophenol	ND	29	1.2	1		1594	1207
Phenanthrene	ND	5.7	1.8	1		1594	1207
Phenol	ND	5.7	1.8	1		1594	1207
Pyrene	ND	5.7	1.8	1		1594	1207
Pyridine	ND	5.7	2.7	1		1594	1207
1,2,4-Trichlorobenzene	ND	5.7	1.6	1		1594	1207
2,4,6-Trichlorophenol	ND	5.7	1.5	1		1594	1207
2,4,5-Trichlorophenol	ND	11	1.3	1		1594	1207
3,3'-Dichlorobenzidine	ND	11	3.4	1		1594	1207
2-Fluorobiphenyl (S)	79.3 %	45-108		1		1594	1207
2-Fluorophenol (S)	68 %	18-113		1		1594	1207
Nitrobenzene-d5 (S)	76.7 %	41-113		1		1594	1207
Phenol-d6 (S)	52.5 %	10-113		1		1594	1207



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ANALYTICAL RESULTS

Workorder: H10040214 : Wilmuth No. 1

Project Number: Wilmuth No. 1

Lab ID: H10040214004

Date/Time Received: 4/10/2010 09:30

Matrix: Water

Sample ID: MW-4

Date/Time Collected: 4/8/2010 16:15

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information	
							Prep	Analysis
Terphenyl-d14 (S)	96.4 %		43-122		1		1594	1207
2,4,6-Tribromophenol (S)	94 %		25-154		1		1594	1207

PHYSICAL PROPERTIES

Analysis Desc: EPA 120.1

Analytical Batches:

Batch: 2803 EPA 120.1 on 04/10/2010 12:00 by ESK

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information	
	umhos/cm @ 25C						Prep	Analysis
Specific Conductivity	2110	Q	10.0	0.647	1			2803

METALS

Analysis Desc: SW-846 7470A

Preparation Batches:

Batch: 1118 SW-846 7470A on 04/13/2010 12:00 by F_S

Analytical Batches:

Batch: 1109 SW-846 7470A on 04/13/2010 15:56 by R_V

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information	
	mg/l						Prep	Analysis
Mercury	ND		0.000200	0.0000851	1		1118	1109

DISSOLVED METALS

Analysis Desc: SW-846 7470A

Preparation Batches:

Batch: 1119 SW-846 7470A on 04/13/2010 12:00 by F_S

Analytical Batches:

Batch: 1109 SW-846 7470A on 04/13/2010 16:54 by R_V

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information	
	ug/l						Prep	Analysis
Mercury	ND		0.200	0.0851	1		1119	1109

Analysis Desc: SM 4500 NO3 F

Analytical Batches:

Batch: 2872 SM 4500 NO3 F on 04/21/2010 09:30 by ESK

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information	
	mg/l						Prep	Analysis
Nitrate+Nitrite (as Nitrogen)	ND		0.500	0.0791	1			2872



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ANALYTICAL RESULTS

Workorder: H10040214 : Wilmuth No. 1

Project Number: Wilmuth No. 1

Lab ID: H10040214004

Date/Time Received: 4/10/2010 09:30 Matrix: Water

Sample ID: MW-4

Date/Time Collected: 4/8/2010 16:15

Gasoline Range Organics (GRO)

Analysis Desc: SW-846 8015B GRO Gas

SW-846 8015B GRO Gas Analytical Batches:

Batch: 1550 SW-846 8015B GRO Gas on 04/17/2010 14:30 by JWS

Parameters	Results					Batch Information		
	mg/l	Qual	Report Limit	MDL	DF	RegLmt	Prep	Analysis
Gasoline Range Organics	ND		0.10	0.017	1			1550
1,4-Difluorobenzene (S)	95.3 %		60-155		1			1550
4-Bromofluorobenzene (S)	88.2 %		50-158		1			1550



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ANALYTICAL RESULTS

Workorder: H10040214 : Wilmuth No. 1

Project Number: Wilmuth No. 1

Lab ID: H10040214005

Date/Time Received: 4/10/2010 09:30

Matrix: Water

Sample ID: Duplicate

Date/Time Collected: 4/8/2010 16:00

VOLATILES

Analysis Desc: SW-846 8260B

SW-846 5030 Analytical Batches:

Batch: 1747 SW-846 8260B on 04/13/2010 05:02 by JMC

Parameters	Results		Report Limit	MDL	DF	RegLmt	Batch Information	
	ug/l	Qual					Prep	Analysis
Benzene	ND		1.0	0.10	1			1747
Ethylbenzene	ND		1.0	0.15	1			1747
Toluene	1.1		1.0	0.29	1			1747
Total BTEX	2.1		1.0	0.10	1			1747
m,p-Xylene	1.0		1.0	0.18	1			1747
o-Xylene	ND		1.0	0.13	1			1747
Xylenes, Total	1		1.0	0.13	1			1747
4-Bromofluorobenzene (S)	93 %		74-125		1			1747
1,2-Dichloroethane-d4 (S)	99 %		70-130		1			1747
Toluene-d8 (S)	101 %		82-118		1			1747



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ANALYTICAL RESULTS

Workorder: H10040214 : Wilmuth No. 1

Project Number: Wilmuth No. 1

Lab ID: H10040214006

Date/Time Received: 4/10/2010 09:30 Matrix: Water

Sample ID: Trip Blank

Date/Time Collected: 4/9/2010 17:30

VOLATILES

Analysis Desc: SW-846 8260B

SW-846 5030 Analytical Batches:

Batch: 1747 SW-846 8260B on 04/13/2010 05:30 by JMC

Parameters	Results					Batch Information	
	ug/l	Qual	Report Limit	MDL	DF	RegLmt	Prep Analysis
Benzene	ND		1.0	0.10	1		1747
Ethylbenzene	ND		1.0	0.15	1		1747
Toluene	ND		1.0	0.29	1		1747
m,p-Xylene	ND		1.0	0.18	1		1747
o-Xylene	ND		1.0	0.13	1		1747
Xylenes, Total	ND		1.0	0.13	1		1747
4-Bromofluorobenzene (S)	94.1 %		74-125		1		1747
1,2-Dichloroethane-d4 (S)	94.8 %		70-130		1		1747
Toluene-d8 (S)	106 %		82-118		1		1747



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ANALYTICAL RESULTS

Workorder: H10040214 : Wilmuth No. 1

Project Number: Wilmuth No. 1

Lab ID: H10040214007

Date/Time Received: 4/10/2010 09:30

Matrix: Water

Sample ID: MW-2 Shallow

Date/Time Collected: 4/6/2010 10:25

WET CHEMISTRY

Analysis Desc: EPA 300.0

Analytical Batches:

Batch: 1247 EPA 300.0 on 04/12/2010 20:48 by CFS

Parameters	Results		Report Limit	MDL	DF	RegLmt	Batch Information	
	mg/l	Qual					Prep	Analysis
Chloride	115		50.0	12.6	100			1247

VOLATILES

Analysis Desc: SW-846 8260B

SW-846 5030Analytical Batches:

Batch: 1747 SW-846 8260B on 04/13/2010 05:58 by JMC

Parameters	Results		Report Limit	MDL	DF	RegLmt	Batch Information	
	ug/l	Qual					Prep	Analysis
Benzene	ND		1.0	0.10	1			1747
Ethylbenzene	ND		1.0	0.15	1			1747
Toluene	ND		1.0	0.29	1			1747
m,p-Xylene	ND		1.0	0.18	1			1747
o-Xylene	ND		1.0	0.13	1			1747
Xylenes, Total	ND		1.0	0.13	1			1747
4-Bromofluorobenzene (S)	92.7 %		74-125		1			1747
1,2-Dichloroethane-d4 (S)	97.1 %		70-130		1			1747
Toluene-d8 (S)	102 %		82-118		1			1747



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ANALYTICAL RESULTS

Workorder: H10040214 : Wilmuth No. 1

Project Number: Wilmuth No. 1

Lab ID: H10040214008

Date/Time Received: 4/10/2010 09:30

Matrix: Water

Sample ID: Trip Blank 2

Date/Time Collected: 4/6/2010 00:00

VOLATILES

Analysis Desc: SW-846 8260B

SW-846 5030 Analytical Batches:

Batch: 1747 SW-846 8260B on 04/13/2010 06:26 by JMC

Parameters	Results				DF	RegLmt	Batch Information	
	ug/l	Qual	Report Limit	MDL			Prep	Analysis
Benzene	ND		1.0	0.10	1			1747
Ethylbenzene	ND		1.0	0.15	1			1747
Toluene	ND		1.0	0.29	1			1747
m,p-Xylene	ND		1.0	0.18	1			1747
o-Xylene	ND		1.0	0.13	1			1747
Xylenes, Total	ND		1.0	0.13	1			1747
4-Bromofluorobenzene (S)	92.5 %		74-125		1			1747
1,2-Dichloroethane-d4 (S)	102 %		70-130		1			1747
Toluene-d8 (S)	104 %		82-118		1			1747



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ANALYTICAL RESULTS

Workorder: H10040214 : Wilmuth No. 1

Project Number: Wilmuth No. 1

Lab ID: H10040214009

Date/Time Received: 4/10/2010 09:30 Matrix: Water

Sample ID: Trip Blank 3

Date/Time Collected: 4/6/2010 00:00

VOLATILES

Analysis Desc: SW-846 8260B

SW-846 5030 Analytical Batches:

Batch: 1747 SW-846 8260B on 04/13/2010 06:55 by JMC

Parameters	Results		Report Limit	MDL	DF	RegLmt	Batch Information	
	ug/l	Qual					Prep	Analysis
Benzene	ND		1.0	0.10	1			1747
Ethylbenzene	ND		1.0	0.15	1			1747
Toluene	ND		1.0	0.29	1			1747
m,p-Xylene	ND		1.0	0.18	1			1747
o-Xylene	ND		1.0	0.13	1			1747
Xylenes, Total	ND		1.0	0.13	1			1747
4-Bromofluorobenzene (S)	90.4 %		74-125		1			1747
1,2-Dichloroethane-d4 (S)	98.2 %		70-130		1			1747
Toluene-d8 (S)	102 %		82-118		1			1747



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QUALITY CONTROL DATA

Workorder: H10040214 : Wilmuth No. 1

Project Number: Wilmuth No. 1

QC Batch: WCSH/2349 Analysis Method: SM 4500-H+ B
QC Batch Method: SM 4500-H+ B
Associated Lab Samples: H10040214001 H10040214002 H10040214003 H10040214004

LABORATORY CONTROL SAMPLE: 38482

Analysis Date/Time Analyst: 04/10/2010 12:00 ESK

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits
pH	SU	7	7.03	100	98-102

SAMPLE DUPLICATE: 38483

Original: H10040214001

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	DF
WET CHEMISTRY						
pH	SU	6.97	6.98	0.1	5	1

QC results presented in the QC Control Data have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules. Also, MS/MSD % recoveries are calculated by the SPL LIMS using any detected value greater than the MDL.



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QUALITY CONTROL DATA

Workorder: H10040214 : Wilmuth No. 1

Project Number: Wilmuth No. 1

QC Batch: WETC/2803 Analysis Method: EPA 120.1
QC Batch Method: EPA 120.1
Associated Lab Samples: H10040214001 H10040214002 H10040214003 H10040214004

METHOD BLANK: 38484

Analysis Date/Time Analyst: 04/10/2010 12:00 ESK

Parameter	Units	Blank Result	Qualifiers	Reporting Limit
Specific Conductivity	umhos/cm @ 25C	ND		10.0

LABORATORY CONTROL SAMPLE: 38485

Analysis Date/Time Analyst: 04/10/2010 12:00 ESK

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits
Specific Conductivity	umhos/cm @ 25C	1410	1397	98.9	90-110

SAMPLE DUPLICATE: 38487

Original: H10040214002

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	DF
PHYSICAL PROPERTIES						1
Specific Conductivity	umhos/c	1580	1580	0.2	20	1

QC results presented in the QC Control Data have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules. Also, MS/MSD % recoveries are calculated by the SPL LIMS using any detected value greater than the MDL.



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QUALITY CONTROL DATA

Workorder: H10040214 : Wilmuth No. 1

Project Number: Wilmuth No. 1

QC Batch: EXT0/1594 Analysis Method: SW-846 8270C
QC Batch Method: SW-846 3510C Preparation: 04/12/2010 10:39 by A_G
Associated Lab Samples: H10040214001 H10040214002 H10040214003 H10040214004

METHOD BLANK: 38557

Analysis Date/Time Analyst: 04/13/2010 09:22 EMR

Parameter	Units	Blank Result Qualifiers	Reporting Limit
Acenaphthene	ug/l	ND	5.0
Acenaphthylene	ug/l	ND	5.0
Aniline	ug/l	ND	5.0
Anthracene	ug/l	ND	5.0
Benzo(a)anthracene	ug/l	ND	5.0
Benzo(a)pyrene	ug/l	ND	5.0
Benzo(b)fluoranthene	ug/l	ND	5.0
Benzo(g,h,i)perylene	ug/l	ND	5.0
Benzo(k)fluoranthene	ug/l	ND	5.0
Benzoic acid	ug/l	ND	25
Benzyl alcohol	ug/l	ND	5.0
Bis(2-Chloroethoxy)methane	ug/l	ND	5.0
Bis(2-Chloroethyl)ether	ug/l	ND	5.0
bis(2-Chloroisopropyl)ether	ug/l	ND	5.0
bis(2-Ethylhexyl)phthalate	ug/l	ND	5.0
4-Bromophenyl phenyl ether	ug/l	ND	5.0
Butyl benzyl phthalate	ug/l	ND	5.0
Carbazole	ug/l	ND	5.0
4-Chloro-3-methylphenol	ug/l	ND	5.0
4-Chloroaniline	ug/l	ND	5.0
2-Chloronaphthalene	ug/l	ND	5.0
2-Chlorophenol	ug/l	ND	5.0
4-Chlorophenyl phenyl ether	ug/l	ND	5.0
Chrysene	ug/l	ND	5.0
Cresols, Total	ug/l	ND	5.0
Di-n-butyl phthalate	ug/l	ND	5.0
Di-n-octyl phthalate	ug/l	ND	5.0
Dibenz(a,h)anthracene	ug/l	ND	5.0
Dibenzofuran	ug/l	ND	5.0
1,3-Dichlorobenzene	ug/l	ND	5.0
1,2-Dichlorobenzene	ug/l	ND	5.0
1,4-Dichlorobenzene	ug/l	ND	5.0
2,4-Dichlorophenol	ug/l	ND	5.0
Diethyl phthalate	ug/l	ND	5.0
Dimethyl phthalate	ug/l	ND	5.0
2,4-Dimethylphenol	ug/l	ND	5.0
4,6-Dinitro-2-methylphenol	ug/l	ND	25
2,4-Dinitrophenol	ug/l	ND	25
2,6-Dinitrotoluene	ug/l	ND	5.0
2,4-Dinitrotoluene	ug/l	ND	5.0

QC results presented in the QC Control Data have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules. Also, MS/MSD % recoveries are calculated by the SPL LIMS using any detected value greater than the MDL.



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QUALITY CONTROL DATA

Workorder: H10040214 : Wilmuth No. 1

Project Number: Wilmuth No. 1

METHOD BLANK: 38557

Analysis Date/Time Analyst: 04/13/2010 09:22 EMR

Parameter	Units	Blank Result	Qualifiers	Reporting Limit
Diphenylamine	ug/l	ND		10
1,2-Diphenylhydrazine	ug/l	ND		10
Fluoranthene	ug/l	ND		5.0
Fluorene	ug/l	ND		5.0
Hexachlorobenzene	ug/l	ND		5.0
Hexachlorobutadiene	ug/l	ND		5.0
Hexachlorocyclopentadiene	ug/l	ND		5.0
Hexachloroethane	ug/l	ND		5.0
Indeno(1,2,3-cd)pyrene	ug/l	ND		5.0
Isophorone	ug/l	ND		5.0
2-Methylnaphthalene	ug/l	ND		5.0
2-Methylphenol (o-Cresol)	ug/l	ND		5.0
3 & 4-Methylphenol	ug/l	ND		5.0
n-Nitrosodi-n-propylamine	ug/l	ND		5.0
n-Nitrosodimethylamine	ug/l	ND		5.0
n-Nitrosodiphenylamine	ug/l	ND		5.0
Naphthalene	ug/l	ND		5.0
3-Nitroaniline	ug/l	ND		25
4-Nitroaniline	ug/l	ND		25
2-Nitroaniline	ug/l	ND		25
Nitrobenzene	ug/l	ND		5.0
2-Nitrophenol	ug/l	ND		5.0
4-Nitrophenol	ug/l	ND		25
Pentachlorophenol	ug/l	ND		25
Phenanthrene	ug/l	ND		5.0
Phenol	ug/l	ND		5.0
Pyrene	ug/l	ND		5.0
Pyridine	ug/l	ND		5.0
1,2,4-Trichlorobenzene	ug/l	ND		5.0
2,4,6-Trichlorophenol	ug/l	ND		5.0
2,4,5-Trichlorophenol	ug/l	ND		10
3,3'-Dichlorobenzidine	ug/l	ND		10
2-Fluorobiphenyl (S)	%	83.6		45-108
2-Fluorophenol (S)	%	76.7		18-113
Nitrobenzene-d5 (S)	%	85.7		41-113
Phenol-d6 (S)	%	64.7		10-113
Terphenyl-d14 (S)	%	106		43-122
2,4,6-Tribromophenol (S)	%	95.3		25-154

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QUALITY CONTROL DATA

Workorder: H10040214 : Wilmuth No. 1

Project Number: Wilmuth No. 1

LABORATORY CONTROL SAMPLE & LCSD: 38558 38559

LCS Analysis Date/Time Analyst: 04/13/2010 09:56 EMR

LCSD Analysis Date/Time 04/13/2010 13:51 EMR

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD
Acenaphthene	ug/l	25	20.4	20.5	82.0	82.0	52-117	0.5	30
Acenaphthylene	ug/l	25	21.3	21.6	85.0	86.0	53-117	1.2	30
Aniline	ug/l	50	37.7	38.5	75.0	77.0	47-106	2.1	30
Anthracene	ug/l	25	20.8	20.6	83.0	82.0	49-126	0.7	30
Benzo(a)anthracene	ug/l	25	21.9	22.2	88.0	89.0	53-121	1.1	30
Benzo(a)pyrene	ug/l	25	18.1	18.2	72.0	73.0	47-100	0.8	30
Benzo(b)fluoranthene	ug/l	25	20.8	21.0	83.0	84.0	52-113	1.0	30
Benzo(g,h,i)perylene	ug/l	25	22.0	21.7	88.0	87.0	52-121	1.6	30
Benzo(k)fluoranthene	ug/l	25	21.7	22.0	87.0	88.0	54-117	1.6	30
Benzoic acid	ug/l	25	ND	ND	43.0	39.0	10-133	9.7	30
Benzyl alcohol	ug/l	25	17.6	17.8	70.0	71.0	40-127	1.1	30
Bis(2-Chloroethoxy)methane	ug/l	25	17.9	19.0	72.0	76.0	47-113	6.2	30
Bis(2-Chloroethyl)ether	ug/l	25	18.5	19.0	74.0	76.0	48-112	2.9	30
bis(2-Chloroisopropyl)ether	ug/l	25	16.9	17.8	68.0	71.0	50-150	4.9	30
bis(2-Ethylhexyl)phthalate	ug/l	25	23.6	25.6	95.0	100	42-139	8.1	30
4-Bromophenyl phenyl ether	ug/l	25	19.4	19.3	78.0	77.0	53-121	0.5	30
Butyl benzyl phthalate	ug/l	25	23.8	25.2	95.0	100	40-139	5.9	30
Carbazole	ug/l	25	20.7	20.0	83.0	80.0	47-123	3.4	30
4-Chloro-3-methylphenol	ug/l	25	20.6	21.0	82.0	84.0	49-120	1.9	30
4-Chloroaniline	ug/l	25	19.4	19.5	78.0	78.0	54-116	0.3	30
2-Chloronaphthalene	ug/l	25	20.1	20.3	80.0	81.0	52-118	1.0	30
2-Chlorophenol	ug/l	25	20.4	20.6	82.0	82.0	50-115	0.5	30
4-Chlorophenyl phenyl ether	ug/l	25	19.7	20.1	79.0	80.0	54-116	2.0	30
Chrysene	ug/l	25	21.7	21.8	87.0	87.0	53-117	0.2	30
Cresols, Total	ug/l	50	42.6	42.0	85.0	84.0	44-132	1.2	30
Di-n-butyl phthalate	ug/l	25	22.4	23.4	90.0	94.0	42-141	4.6	30
Di-n-octyl phthalate	ug/l	25	22.5	24.1	90.0	96.0	40-135	6.9	30
Dibenz(a,h)anthracene	ug/l	25	21.6	20.8	86.0	83.0	49-120	3.5	30
Dibenzofuran	ug/l	25	20.7	20.8	83.0	83.0	55-119	0.5	30
1,3-Dichlorobenzene	ug/l	25	18.5	18.8	74.0	75.0	49-106	1.9	30
1,2-Dichlorobenzene	ug/l	25	19.3	19.5	77.0	78.0	50-109	1.0	30
1,4-Dichlorobenzene	ug/l	25	18.2	18.6	73.0	74.0	48-106	1.6	30
2,4-Dichlorophenol	ug/l	25	18.2	18.6	73.0	74.0	50-110	2.2	30
Diethyl phthalate	ug/l	25	21.6	22.0	87.0	88.0	45-129	1.8	30
Dimethyl phthalate	ug/l	25	21.2	21.7	85.0	87.0	52-122	2.1	30
2,4-Dimethylphenol	ug/l	25	19.8	20.8	79.0	83.0	50-120	4.9	30
4,6-Dinitro-2-methylphenol	ug/l	25	ND	ND	88.0	88.0	23-127	0.5	30
2,4-Dinitrophenol	ug/l	25	ND	ND	67.0	69.0	10-122	1.8	30
2,6-Dinitrotoluene	ug/l	25	22.8	22.5	91.0	90.0	48-127	1.5	30
2,4-Dinitrotoluene	ug/l	25	23.5	23.6	94.0	94.0	50-129	0.2	30
Diphenylamine	ug/l	50	44.6	44.2	89.0	88.0	62-136	0.9	30
1,2-Diphenylhydrazine	ug/l	25	21.0	21.9	84.0	88.0	40-142	4.0	30
Fluoranthene	ug/l	25	22.2	21.3	89.0	85.0	49-132	3.9	30

QC results presented in the QC Control Data have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules. Also, MS/MSD % recoveries are calculated by the SPL LIMS using any detected value greater than the MDL.



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QUALITY CONTROL DATA

Workorder: H10040214 : Wilmuth No. 1

Project Number: Wilmuth No. 1

LABORATORY CONTROL SAMPLE & LCSD: 38558

38559

LCS Analysis Date/Time Analyst: 04/13/2010 09:56 EMR

LCSD Analysis Date/Time 04/13/2010 13:51 EMR

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD
Fluorene	ug/l	25	20.7	21.1	83.0	84.0	54-119	1.9	30
Hexachlorobenzene	ug/l	25	18.6	18.6	74.0	75.0	53-117	0.3	30
Hexachlorobutadiene	ug/l	25	17.8	18.0	71.0	72.0	49-106	1.1	30
Hexachlorocyclopentadiene	ug/l	25	9.15	9.25	37.0	37.0	17-105	1.1	30
Hexachloroethane	ug/l	25	18.5	19.3	74.0	77.0	42-110	4.2	30
Indeno(1,2,3-cd)pyrene	ug/l	25	21.6	19.2	86.0	77.0	50-129	12.0	30
Isophorone	ug/l	25	22.4	23.0	90.0	92.0	52-134	2.6	30
2-Methylnaphthalene	ug/l	25	20.4	20.8	82.0	83.0	52-116	1.9	30
2-Methylphenol (o-Cresol)	ug/l	25	19.6	19.8	78.0	79.0	49-118	0.8	30
3 & 4-Methylphenol	ug/l	25	23.0	22.3	92.0	89.0	44-132	2.9	30
n-Nitrosodi-n-propylamine	ug/l	25	19.3	20.2	77.0	81.0	47-118	4.3	30
n-Nitrosodimethylamine	ug/l	25	16.2	16.0	65.0	64.0	32-121	1.2	30
n-Nitrosodiphenylamine	ug/l	50	44.6	44.2	89.0	88.0	62-136	0.9	30
Naphthalene	ug/l	25	19.8	19.8	79.0	79.0	53-111	0.3	30
3-Nitroaniline	ug/l	25	ND	ND	72.0	75.0	31-114	4.9	30
4-Nitroaniline	ug/l	25	ND	ND	75.0	72.0	41-118	4.6	30
2-Nitroaniline	ug/l	25	ND	ND	80.0	82.0	43-127	3.0	30
Nitrobenzene	ug/l	25	19.2	19.4	77.0	77.0	47-116	0.5	30
2-Nitrophenol	ug/l	25	19.9	20.0	80.0	80.0	29-182	0.8	30
4-Nitrophenol	ug/l	25	ND	ND	67.0	77.0	21-130	14.0	30
Pentachlorophenol	ug/l	25	ND	ND	70.0	69.0	52-115	1.7	30
Phenanthrene	ug/l	25	20.8	20.4	83.0	82.0	49-124	1.7	30
Phenol	ug/l	25	19.0	19.6	76.0	78.0	37-128	3.4	30
Pyrene	ug/l	25	23.0	23.6	92.0	95.0	52-122	3.0	30
Pyridine	ug/l	50	31.1	28.1	62.0	56.0	37-99	10.0	30
1,2,4-Trichlorobenzene	ug/l	25	18.7	18.9	75.0	76.0	52-109	1.1	30
2,4,6-Trichlorophenol	ug/l	25	19.4	20.0	78.0	80.0	38-150	2.8	30
2,4,5-Trichlorophenol	ug/l	25	18.9	19.0	76.0	76.0	48-120	0.3	30
3,3'-Dichlorobenzidine	ug/l	25	17.7	17.8	71.0	71.0	30-104	0.3	30
2-Fluorobiphenyl (S)	%				77.6	79.2	45-108		30
2-Fluorophenol (S)	%				70.7	71.3	18-113		30
Nitrobenzene-d5 (S)	%				81.0	82.0	41-113		30
Phenol-d6 (S)	%				57.5	58.3	10-113		30
Terphenyl-d14 (S)	%				89.8	95.5	43-122		30
2,4,6-Tribromophenol (S)	%				98.0	98.0	25-154		30

QC results presented in the QC Control Data have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules. Also, MS/MSD % recoveries are calculated by the SPL LIMS using any detected value greater than the MDL.



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QUALITY CONTROL DATA

Workorder: H10040214 : Wilmuth No. 1

Project Number: Wilmuth No. 1

QC Batch: DIGM/1656 Analysis Method: SW-846 6010B
QC Batch Method: SW-846 3010A Preparation: 04/12/2010 15:30 by R_V
Associated Lab Samples: H10040214001 H10040214002 H10040214003 H10040214004

METHOD BLANK: 38728

Analysis Date/Time Analyst: 04/21/2010 09:49 EBG

Parameter	Units	Blank Result	Qualifiers	Reporting Limit
Aluminum	mg/l	ND		0.100
Arsenic	mg/l	ND		0.00500
Barium	mg/l	ND		0.00500
Boron	mg/l	ND		0.100
Cadmium	mg/l	ND		0.00500
Chromium	mg/l	ND		0.00500
Cobalt	mg/l	ND		0.00500
Copper	mg/l	ND		0.00500
Iron	mg/l	ND		0.0200
Lead	mg/l	ND		0.00500
Manganese	mg/l	ND		0.00500
Molybdenum	mg/l	ND		0.00500
Nickel	mg/l	ND		0.00500
Selenium	mg/l	ND		0.0100
Silver	mg/l	ND		0.00500
Zinc	mg/l	ND		0.0100

LABORATORY CONTROL SAMPLE: 38729

Analysis Date/Time Analyst: 04/21/2010 01:57 EBG

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits
Aluminum	mg/l	1.0	0.9163	91.6	80-120
Arsenic	mg/l	0.10	0.1067	107	80-120
Barium	mg/l	0.10	0.0986	98.6	80-120
Boron	mg/l	1.0	0.9064	90.6	80-120
Cadmium	mg/l	0.10	0.111	111	80-120
Chromium	mg/l	0.10	0.1007	101	80-120
Cobalt	mg/l	0.10	0.1061	106	80-120
Copper	mg/l	0.10	0.097	97.0	80-120
Iron	mg/l	1.0	1.024	102	80-120
Lead	mg/l	0.10	0.1123	112	80-120
Manganese	mg/l	0.10	0.1004	100	80-120
Molybdenum	mg/l	0.10	0.1086	109	80-120
Nickel	mg/l	0.10	0.1093	109	80-120
Selenium	mg/l	0.10	0.1112	111	80-120
Silver	mg/l	0.10	0.0983	98.3	80-120
Zinc	mg/l	0.10	0.1088	109	80-120

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QUALITY CONTROL DATA

Workorder: H10040214 : Wilmuth No. 1

Project Number: Wilmuth No. 1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 38730 38731 Original: H10040210001

MS Analysis Date/Time Analyst: 04/21/2010 02:08 EBG

MSD Analysis Date/Time Analyst: 04/21/2010 02:14 EBG

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
Aluminum	mg/l	ND	1.0	0.8788	0.9426	87.9	94.3	75-125	7.0	20
Arsenic	mg/l	ND	0.10	0.1023	0.1071	102	107	75-125	4.6	20
Barium	mg/l	0.148	0.10	0.2353	0.2491	87.2	101	75-125	5.7	20
Boron	mg/l	0.05	1.0	0.8811	0.9134	88.1	91.3	75-125	3.6	20
Cadmium	mg/l	0.0001	0.10	0.1003	0.1064	100	106	75-125	5.9	20
Chromium	mg/l	0.0005	0.10	0.100	0.1049	100	105	75-125	4.8	20
Cobalt	mg/l	0.0012	0.10	0.0944	0.1008	94.4	101	75-125	6.6	20
Copper	mg/l	0.0004	0.10	0.0966	0.0997	96.6	99.7	75-125	3.2	20
Iron	mg/l	0.0077	1.0	0.9924	1.064	99.2	106	75-125	7.0	20
Lead	mg/l	ND	0.10	0.0977	0.1036	97.7	104	75-125	5.9	20
Manganese	mg/l	0.896	0.10	0.949	0.9965	NC	NC	75-125	NC	20
Molybdenum	mg/l	0.0034	0.10	0.102	0.1103	102	110	75-125	7.8	20
Nickel	mg/l	0.0011	0.10	0.0971	0.1043	97.1	104	75-125	7.2	20
Selenium	mg/l	0.0007	0.10	0.1033	0.1099	103	110	75-125	6.2	20
Silver	mg/l	0.0005	0.10	0.1005	0.101	100	101	75-125	0.5	20
Zinc	mg/l	0.0031	0.10	0.1017	0.108	102	108	75-125	6.0	20

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QUALITY CONTROL DATA

Workorder: H10040214 : Wilmuth No. 1

Project Number: Wilmuth No. 1

QC Batch: WETC/2817

Analysis Method: SM 2340 C

QC Batch Method: SM 2340 C

Associated Lab Samples: H10040198001 H10040198002 H10040214001 H10040214002 H10040214003 H10040214004

METHOD BLANK: 38798

Analysis Date/Time Analyst: 04/12/2010 15:45 PAC

Parameter	Units	Blank Result	Qualifiers	Reporting Limit
Hardness as CaCO ₃	mg/l	ND		5.00

LABORATORY CONTROL SAMPLE: 38799

Analysis Date/Time Analyst: 04/12/2010 15:45 PAC

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits
Hardness as CaCO ₃	mg/l	220	220.0	100	85-115

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 38800 38801 Original: H10040198002

MS Analysis Date/Time Analyst: 04/12/2010 15:45 PAC

MSD Analysis Date/Time Analyst: 04/12/2010 15:45 PAC

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
Hardness as CaCO ₃	mg/l	260	250	510.0	510.0	100	100	80-120	0.0	20

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QUALITY CONTROL DATA

Workorder: H10040214 : Wilmuth No. 1

Project Number: Wilmuth No. 1

QC Batch: IC/1247

Analysis Method: EPA 300.0

QC Batch Method: EPA 300.0

Associated Lab Samples: H10040214001 H10040214002 H10040214003 H10040214004 H10040214007 H10040233001

METHOD BLANK: 38825

Analysis Date/Time Analyst: 04/12/2010 17:28 CFS

Parameter	Units	Blank Result	Qualifiers	Reporting Limit
Sulfate	mg/l	ND		0.500
Chloride	mg/l	ND		0.500

LABORATORY CONTROL SAMPLE & LCSD: 38826 38842

LCS Analysis Date/Time Analyst: 04/12/2010 16:38 CFS

LCSD Analysis Date/Time 04/12/2010 22:45 CFS

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD
Sulfate	mg/l	10	9.683	9.796	96.8	98.0	85-115	1.2	20
Chloride	mg/l	10	9.469	9.629	94.7	96.3	85-115	1.7	20

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 38827 38828 Original: H10040233001

MS Analysis Date/Time Analyst: 04/12/2010 22:11 CFS

MSD Analysis Date/Time Analyst: 04/12/2010 22:28 CFS

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
Sulfate	mg/l	0.325	10	10.71	9.056	107	90.6	80-120	16.7	20

QC results presented in the QC Control Data have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules. Also, MS/MSD % recoveries are calculated by the SPL LIMS using any detected value greater than the MDL.



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QUALITY CONTROL DATA

Workorder: H10040214 : Wilmuth No. 1

Project Number: Wilmuth No. 1

QC Batch: HGPR/1118 Analysis Method: SW-846 7470A
QC Batch Method: SW-846 7470A Preparation: 04/13/2010 12:00 by F_S
Associated Lab Samples: H10040214001 H10040214002 H10040214003 H10040214004 H10040236004

METHOD BLANK: 38862

Analysis Date/Time Analyst: 04/13/2010 15:39 R_V

Parameter	Units	Blank Result	Qualifiers	Reporting Limit
Mercury	mg/l	ND		0.000200

LABORATORY CONTROL SAMPLE: 38863

Analysis Date/Time Analyst: 04/13/2010 15:42 R_V

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits
Mercury	mg/l	0.002	0.001827	91.4	80-120

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 38860 38861 Original: H10040214001

MS Analysis Date/Time Analyst: 04/13/2010 15:37 R_V

MSD Analysis Date/Time Analyst: 04/13/2010 15:47 R_V

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
Mercury	mg/l	ND	0.002	0.00177	0.00183	88.5	91.5	75-125	3.4	20

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QUALITY CONTROL DATA

Workorder: H10040214 : Wilmuth No. 1

Project Number: Wilmuth No. 1

QC Batch: HGPR/1119 Analysis Method: SW-846 7470A
QC Batch Method: SW-846 7470A Preparation: 04/13/2010 12:00 by F_S
Associated Lab Samples: H10040214001 H10040214002 H10040214003 H10040214004

METHOD BLANK: 38874

Analysis Date/Time Analyst: 04/13/2010 16:36 R_V

Parameter	Units	Blank Result	Qualifiers	Reporting Limit
Mercury	ug/l	ND		0.200

LABORATORY CONTROL SAMPLE: 38875

Analysis Date/Time Analyst: 04/13/2010 16:38 R_V

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits
Mercury	ug/l	2	1.881	94.0	80-120

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 38872 38873 Original: H10040214001

MS Analysis Date/Time Analyst: 04/13/2010 16:43 R_V

MSD Analysis Date/Time Analyst: 04/13/2010 16:45 R_V

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
Mercury	ug/l	ND	2	1.813	1.841	90.6	92.1	75-125	1.6	20

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QUALITY CONTROL DATA

Workorder: H10040214 : Wilmuth No. 1

Project Number: Wilmuth No. 1

QC Batch: EXT0/1609 Analysis Method: SW-846 8015B Fuels
QC Batch Method: SW-846 3510C Preparation: 04/13/2010 16:27 by A_G
Associated Lab Samples: H10040214001 H10040214002 H10040214003 H10040214004

METHOD BLANK: 38983

Analysis Date/Time Analyst: 04/15/2010 16:08 NDW

Parameter	Units	Blank Result	Qualifiers	Reporting Limit
Diesel Range Organics (DRO)	mg/l	ND		0.10
n-Pentacosane (S)	%	88.1		20-150

LABORATORY CONTROL SAMPLE & LCSD: 38984 38985

LCS Analysis Date/Time Analyst: 04/15/2010 03:14 NDW

LCSD Analysis Date/Time 04/15/2010 03:35 NDW

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD
Diesel Range Organics (DRO)	mg/l	1.0	0.728	0.645	72.8	64.5	21-150	12.1	40
n-Pentacosane (S)	%				69.1	66.4	20-150		30

QC results presented in the QC Control Data have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules. Also, MS/MSD % recoveries are calculated by the SPL LIMS using any detected value greater than the MDL.



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QUALITY CONTROL DATA

Workorder: H10040214 : Wilmuth No. 1

Project Number: Wilmuth No. 1

QC Batch: WETS/1555

Analysis Method: SM 2540 C

QC Batch Method: SM 2540 C

Associated Lab Samples: H10040188001 H10040188002 H10040206001 H10040214001 H10040214002 H10040214003
H10040214004 H10040257001

METHOD BLANK: 39034

Analysis Date/Time Analyst: 04/13/2010 18:50 CFS

Parameter	Units	Blank Result	Qualifiers	Reporting Limit
Residue, Filterable (TDS)	mg/l	ND		10.0

LABORATORY CONTROL SAMPLE & LCSD: 39035 39038

LCS Analysis Date/Time Analyst: 04/13/2010 18:50 CFS

LCSD Analysis Date/Time 04/13/2010 18:50 CFS

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD
Residue, Filterable (TDS)	mg/l	200	202.0	199.0	101	99.5	95-107	1.5	10

SAMPLE DUPLICATE: 39036

Original: H10040206001

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	DF
WET CHEMISTRY						1
Residue, Filterable (TDS)	mg/l	1420	1420	0.1	10	1

SAMPLE DUPLICATE: 39037

Original: H10040214004

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	DF
WET CHEMISTRY						10
Residue, Filterable (TDS)	mg/l	1900	1910	0.5	10	10

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QUALITY CONTROL DATA

Workorder: H10040214 : Wilmuth No. 1

Project Number: Wilmuth No. 1

QC Batch: WETC/2823

Analysis Method: SM 2320 B

QC Batch Method: SM 2320 B

Associated Lab Samples: H10040214001 H10040214002 H10040214003 H10040214004 H10040256001

METHOD BLANK: 39051

Analysis Date/Time Analyst: 04/13/2010 12:30 PAC

Parameter	Units	Blank Result	Qualifiers	Reporting Limit
Alkalinity, total as CaCO ₃	mg/l	ND		2.00

LABORATORY CONTROL SAMPLE: 39052

Analysis Date/Time Analyst: 04/13/2010 12:30 PAC

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits
Alkalinity, total as CaCO ₃	mg/l	66	64.0	97.7	90-110

SAMPLE DUPLICATE: 39053

Original: H10040214001

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	DF
WET CHEMISTRY						1
Alkalinity, total as CaCO ₃	mg/l	355	355	0.0	20	1

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QUALITY CONTROL DATA

Workorder: H10040214 : Wilmuth No. 1

Project Number: Wilmuth No. 1

QC Batch: MSV/1746

Analysis Method: SW-846 8260B

QC Batch Method: SW-846 5030

Preparation: 04/12/2010 00:00 by JMC

Associated Lab Samples: H10040214001 H10040214002 H10040214003 H10040214004 H10040214005 H10040214006
H10040214007 H10040214008 H10040214009

METHOD BLANK: 39063

Analysis Date/Time Analyst: 04/13/2010 01:21 JMC

Parameter	Units	Blank Result	Qualifiers	Reporting Limit
Acetone	ug/l	ND		12
Acrylonitrile	ug/l	ND		5.0
Benzene	ug/l	ND		1.0
Bromobenzene	ug/l	ND		1.0
Bromochloromethane	ug/l	ND		1.0
Bromodichloromethane	ug/l	ND		1.0
Bromoform	ug/l	ND		1.0
Bromomethane	ug/l	ND		1.0
2-Butanone	ug/l	ND		12
n-Butylbenzene	ug/l	ND		1.0
sec-Butylbenzene	ug/l	ND		1.0
tert-Butylbenzene	ug/l	ND		1.0
Carbon disulfide	ug/l	ND		5.0
Carbon tetrachloride	ug/l	ND		1.0
Chlorobenzene	ug/l	ND		1.0
Chloroethane	ug/l	ND		1.0
2-Chloroethylvinyl ether	ug/l	ND		5.0
Chloroform	ug/l	ND		1.0
Chloromethane	ug/l	ND		1.0
2-Chlorotoluene	ug/l	ND		1.0
4-Chlorotoluene	ug/l	ND		1.0
Dibromochloromethane	ug/l	ND		1.0
1,2-Dibromo-3-chloropropane	ug/l	ND		5.0
1,2-Dibromoethane	ug/l	ND		1.0
Dibromomethane	ug/l	ND		1.0
1,2-Dichlorobenzene	ug/l	ND		1.0
1,3-Dichlorobenzene	ug/l	ND		1.0
1,4-Dichlorobenzene	ug/l	ND		1.0
Dichlorodifluoromethane	ug/l	ND		1.0
1,1-Dichloroethane	ug/l	ND		1.0
1,2-Dichloroethane	ug/l	ND		1.0
1,1-Dichloroethene	ug/l	ND		1.0
1,2-Dichloroethene, Total	ug/l	ND		1.0
cis-1,2-Dichloroethene	ug/l	ND		1.0
trans-1,2-Dichloroethene	ug/l	ND		1.0
1,2-Dichloropropane	ug/l	ND		1.0
1,3-Dichloropropane	ug/l	ND		1.0
2,2-Dichloropropane	ug/l	ND		1.0
1,1-Dichloropropene	ug/l	ND		1.0

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QUALITY CONTROL DATA

Workorder: H10040214 : Wilmuth No. 1

Project Number: Wilmuth No. 1

METHOD BLANK: 39063

Analysis Date/Time Analyst: 04/13/2010 01:21 JMC

Parameter	Units	Blank Result	Qualifiers	Reporting Limit
cis-1,3-Dichloropropene	ug/l	ND		1.0
trans-1,3-Dichloropropene	ug/l	ND		1.0
Ethylbenzene	ug/l	ND		1.0
Hexachlorobutadiene	ug/l	ND		1.0
2-Hexanone	ug/l	ND		12
Isopropylbenzene (Cumene)	ug/l	ND		1.0
4-Isopropyltoluene	ug/l	ND		1.0
Methyl tert-Butyl Ether (MTBE)	ug/l	ND		1.0
Methylene chloride	ug/l	ND		5.0
Methyl Isobutyl Ketone (MIBK)	ug/l	ND		12
Naphthalene	ug/l	ND		1.0
n-Propylbenzene	ug/l	ND		1.0
Styrene	ug/l	ND		1.0
1,1,1,2-Tetrachloroethane	ug/l	ND		1.0
1,1,2,2-Tetrachloroethane	ug/l	ND		1.0
Tetrachloroethene	ug/l	ND		1.0
Toluene	ug/l	ND		1.0
1,2,3-Trichlorobenzene	ug/l	ND		1.0
1,2,4-Trichlorobenzene	ug/l	ND		1.0
1,1,1-Trichloroethane	ug/l	ND		1.0
1,1,2-Trichloroethane	ug/l	ND		1.0
Trichloroethene	ug/l	ND		1.0
Trichlorofluoromethane	ug/l	ND		1.0
1,2,3-Trichloropropane	ug/l	ND		1.0
1,2,4-Trimethylbenzene	ug/l	ND		1.0
1,3,5-Trimethylbenzene	ug/l	ND		1.0
Vinyl acetate	ug/l	ND		1.0
Vinyl chloride	ug/l	ND		1.0
m,p-Xylene	ug/l	ND		1.0
o-Xylene	ug/l	ND		1.0
Xylenes, Total	ug/l	ND		1.0
4-Bromofluorobenzene (S)	%	92.3		74-125
1,2-Dichloroethane-d4 (S)	%	99.9		70-130
Toluene-d8 (S)	%	102		82-118

LABORATORY CONTROL SAMPLE: 39064

Analysis Date/Time Analyst: 04/13/2010 12:21 JMC

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits
Acetone	ug/l	20	13.9	69.7	10-200
Acrylonitrile	ug/l	20	19.4	97.2	54-155
Benzene	ug/l	20	20.0	100	74-123

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QUALITY CONTROL DATA

Workorder: H10040214 : Wilmuth No. 1

Project Number: Wilmuth No. 1

LABORATORY CONTROL SAMPLE: 39064

Analysis Date/Time Analyst: 04/13/2010 12:21 JMC

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits
Bromobenzene	ug/l	20	18.8	94.0	68-125
Bromochloromethane	ug/l	20	20.8	104	71-124
Bromodichloromethane	ug/l	20	19.1	95.6	72-128
Bromoform	ug/l	20	15.6	77.9	60-128
Bromomethane	ug/l	20	18.6	93.0	53-130
2-Butanone	ug/l	20	18.5	92.6	22-183
n-Butylbenzene	ug/l	20	18.9	94.3	62-136
sec-Butylbenzene	ug/l	20	19.0	94.9	63-131
tert-Butylbenzene	ug/l	20	17.6	88.1	59-131
Carbon disulfide	ug/l	20	15.8	79.1	41-143
Carbon tetrachloride	ug/l	20	19.7	98.4	59-142
Chlorobenzene	ug/l	20	19.9	99.6	75-125
Chloroethane	ug/l	20	17.6	88.1	60-134
2-Chloroethylvinyl ether	ug/l	20	23.8	119	10-179
Chloroform	ug/l	20	18.3	91.6	71-127
Chloromethane	ug/l	20	19.9	99.5	50-139
2-Chlorotoluene	ug/l	20	19.2	95.9	64-132
4-Chlorotoluene	ug/l	20	18.3	91.6	61-132
Dibromochloromethane	ug/l	20	17.2	86.2	65-130
1,2-Dibromo-3-chloropropane	ug/l	20	16.6	83.0	44-141
1,2-Dibromoethane	ug/l	20	20.8	104	75-124
Dibromomethane	ug/l	20	20.4	102	79-124
1,2-Dichlorobenzene	ug/l	20	18.6	92.8	68-124
1,3-Dichlorobenzene	ug/l	20	19.0	94.8	68-127
1,4-Dichlorobenzene	ug/l	20	18.0	90.0	68-124
Dichlorodifluoromethane	ug/l	20	16.6	83.2	22-162
1,1-Dichloroethane	ug/l	20	19.1	95.4	68-132
1,2-Dichloroethane	ug/l	20	19.7	98.3	61-138
1,1-Dichloroethene	ug/l	20	17.8	88.9	65-134
1,2-Dichloroethene, Total	ug/l	40	37.5	93.8	66-128
cis-1,2-Dichloroethene	ug/l	20	19.8	98.8	71-128
trans-1,2-Dichloroethene	ug/l	20	17.7	88.7	66-128
1,2-Dichloropropane	ug/l	20	21.6	108	78-123
1,3-Dichloropropane	ug/l	20	21.6	108	76-125
2,2-Dichloropropane	ug/l	20	20.3	101	42-142
1,1-Dichloropropene	ug/l	20	19.6	97.8	68-126
cis-1,3-Dichloropropene	ug/l	20	19.2	95.9	67-128
trans-1,3-Dichloropropene	ug/l	20	18.0	89.8	60-128
Ethylbenzene	ug/l	20	20.3	101	72-127
Hexachlorobutadiene	ug/l	20	18.0	90.2	45-152
2-Hexanone	ug/l	20	23.9	120	31-178
Isopropylbenzene (Cumene)	ug/l	20	14.8	74.2	58-130
4-Isopropyltoluene	ug/l	20	18.1	90.5	63-136
Methyl tert-Butyl Ether (MTBE)	ug/l	40	32.4	81.0	63-123
Methylene chloride	ug/l	20	17.1	85.5	61-135

QC results presented in the QC Control Data have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules. Also, MS/MSD % recoveries are calculated by the SPL LIMS using any detected value greater than the MDL.



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QUALITY CONTROL DATA

Workorder: H10040214 : Wilmuth No. 1

Project Number: Wilmuth No. 1

LABORATORY CONTROL SAMPLE: 39064

Analysis Date/Time Analyst: 04/13/2010 12:21 JMC

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits
Methyl Isobutyl Ketone (MIBK)	ug/l	20	23.1	115	10-159
Naphthalene	ug/l	20	16.6	83.2	33-148
n-Propylbenzene	ug/l	20	17.3	86.7	57-131
Styrene	ug/l	20	19.4	96.8	69-120
1,1,1,2-Tetrachloroethane	ug/l	20	19.6	97.8	71-128
1,1,1,2,2-Tetrachloroethane	ug/l	20	20.5	103	60-133
Tetrachloroethene	ug/l	20	24.7	124	45-173
Toluene	ug/l	20	20.8	104	74-126
1,2,3-Trichlorobenzene	ug/l	20	17.3	86.4	36-154
1,2,4-Trichlorobenzene	ug/l	20	17.1	85.4	69-144
1,1,1-Trichloroethane	ug/l	20	18.8	93.8	61-135
1,1,2-Trichloroethane	ug/l	20	21.2	106	77-127
Trichloroethene	ug/l	20	22.4	112	79-131
Trichlorofluoromethane	ug/l	20	17.8	89.1	49-153
1,2,3-Trichloropropane	ug/l	20	20.4	102	38-153
1,2,4-Trimethylbenzene	ug/l	20	18.2	91.1	64-128
1,3,5-Trimethylbenzene	ug/l	20	18.1	90.5	61-127
Vinyl acetate	ug/l	20	19.0	95.0	10-167
Vinyl chloride	ug/l	20	19.4	96.8	51-148
m,p-Xylene	ug/l	40	42.2	105	71-129
o-Xylene	ug/l	20	20.0	100	74-130
Xylenes, Total	ug/l	60	62.18	104	71-130
4-Bromofluorobenzene (S)	%			99.3	74-125
1,2-Dichloroethane-d4 (S)	%			98.5	70-130
Toluene-d8 (S)	%			101	82-118

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 39065

39066

Original: H10040214001

MS Analysis Date/Time Analyst: 04/13/2010 02:43 JMC

MSD Analysis Date/Time Analyst: 04/13/2010 03:11 JMC

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
Acetone	ug/l	9.2	20	20.6	20.8	56.7	57.6	10-400	0.8	20
Acrylonitrile	ug/l	ND	20	19.0	18.5	95.1	92.6	15-250	2.6	20
Benzene	ug/l	ND	20	19.8	18.5	99.0	92.3	70-124	7.0	20
Bromobenzene	ug/l	ND	20	18.6	17.7	93.0	88.7	35-175	4.7	20
Bromochloromethane	ug/l	ND	20	18.5	19.1	92.6	95.7	35-175	3.3	20
Bromodichloromethane	ug/l	ND	20	18.9	18.4	94.3	91.8	35-175	2.8	20
Bromoform	ug/l	ND	20	17.2	17.1	86.2	85.4	35-175	0.9	20
Bromomethane	ug/l	ND	20	17.2	17.1	85.9	85.6	35-175	0.3	20
2-Butanone	ug/l	3.4	20	16.8	16.7	67.4	66.6	10-235	0.9	20

QC results presented in the QC Control Data have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules. Also, MS/MSD % recoveries are calculated by the SPL LIMS using any detected value greater than the MDL.



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QUALITY CONTROL DATA

Workorder: H10040214 : Wilmuth No. 1

Project Number: Wilmuth No. 1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 39065

39066

Original: H10040214001

MS Analysis Date/Time Analyst: 04/13/2010 02:43 JMC

MSD Analysis Date/Time Analyst: 04/13/2010 03:11 JMC

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
n-Butylbenzene	ug/l	ND	20	16.0	15.0	80.0	74.8	35-175	6.7	20
sec-Butylbenzene	ug/l	ND	20	16.9	15.0	84.6	74.9	35-175	12.3	20
tert-Butylbenzene	ug/l	ND	20	16.6	14.1	82.8	70.6	35-175	15.9	20
Carbon disulfide	ug/l	ND	20	14.0	12.9	69.9	64.3	30-225	8.4	20
Carbon tetrachloride	ug/l	ND	20	18.2	15.4	91.1	77.2	35-175	16.6	20
Chlorobenzene	ug/l	ND	20	18.6	17.9	93.1	89.3	67-136	4.2	20
Chloroethane	ug/l	ND	20	16.0	14.8	80.2	73.8	35-175	8.3	20
2-Chloroethylvinyl ether	ug/l	ND	20	ND	ND	0.0 *	0.0 *	10-250	0.0	20
Chloroform	ug/l	ND	20	17.2	16.5	85.8	82.4	35-175	4.0	20
Chloromethane	ug/l	ND	20	18.4	17.3	92.0	86.6	35-175	6.1	20
2-Chlorotoluene	ug/l	ND	20	18.5	16.5	92.4	82.4	31-175	11.5	20
4-Chlorotoluene	ug/l	ND	20	17.8	16.8	88.9	84.2	31-175	5.4	20
Dibromochloromethane	ug/l	ND	20	18.3	18.5	91.3	92.5	35-175	1.3	20
1,2-Dibromo-3-chloropropane	ug/l	ND	20	17.5	17.8	87.5	89.0	15-175	1.7	20
1,2-Dibromoethane	ug/l	ND	20	20.7	20.2	104	101	35-175	2.3	20
Dibromomethane	ug/l	ND	20	19.4	19.2	96.8	96.2	35-175	0.6	20
1,2-Dichlorobenzene	ug/l	ND	20	17.6	16.7	87.9	83.6	35-175	5.0	20
1,3-Dichlorobenzene	ug/l	ND	20	17.4	16.3	86.8	81.3	35-175	6.6	20
1,4-Dichlorobenzene	ug/l	ND	20	16.8	15.4	84.1	77.2	35-175	8.6	20
Dichlorodifluoromethane	ug/l	ND	20	13.0	11.5	65.1	57.5	32-175	12.3	20
1,1-Dichloroethane	ug/l	ND	20	18.0	17.4	90.1	87.1	35-175	3.3	20
1,2-Dichloroethane	ug/l	ND	20	17.1	17.2	85.6	85.8	35-175	0.2	20
1,1-Dichloroethene	ug/l	ND	20	15.6	14.7	78.2	73.4	61-146	6.4	20
1,2-Dichloroethene, Total	ug/l	ND	40	35.2	33.2	88.0	82.9	35-175	5.9	20
cis-1,2-Dichloroethene	ug/l	ND	20	18.9	18.1	94.7	90.4	35-175	4.6	20
trans-1,2-Dichloroethene	ug/l	ND	20	16.3	15.1	81.3	75.5	35-175	7.4	20
1,2-Dichloropropane	ug/l	ND	20	21.4	20.3	107	102	35-175	5.0	20
1,3-Dichloropropane	ug/l	ND	20	20.3	20.2	101	101	35-175	0.5	20
2,2-Dichloropropane	ug/l	ND	20	17.7	15.9	88.5	79.7	35-175	10.5	20
1,1-Dichloropropene	ug/l	ND	20	17.6	15.9	88.2	79.3	35-175	10.6	20
cis-1,3-Dichloropropene	ug/l	ND	20	19.3	18.4	96.5	92.1	35-175	4.7	20
trans-1,3-Dichloropropene	ug/l	ND	20	17.7	17.8	88.5	88.8	35-175	0.4	20
Ethylbenzene	ug/l	ND	20	20.3	18.4	101	91.8	35-175	9.9	20
Hexachlorobutadiene	ug/l	ND	20	14.6	13.4	73.2	67.1	43-144	8.7	20
2-Hexanone	ug/l	0.95	20	23.8	23.1	114	111	10-250	3.0	20
Isopropylbenzene (Cumene)	ug/l	ND	20	13.9	12.4	69.7	62.0	35-175	11.8	20
4-Isopropyltoluene	ug/l	8.2	20	24.2	22.4	80.0	71.1	35-175	7.6	20
Methyl tert-Butyl Ether (MTBE)	ug/l	ND	40	33.3	33.4	83.4	83.4	35-175	0.1	20
Methylene chloride	ug/l	ND	20	15.9	16.3	79.4	81.7	35-175	2.8	20
Methyl Isobutyl Ketone (MIBK)	ug/l	ND	20	23.1	23.2	115	116	10-175	0.4	20
Naphthalene	ug/l	ND	20	19.4	17.6	97.2	88.0	20-210	9.9	20
n-Propylbenzene	ug/l	ND	20	17.2	15.8	86.1	78.8	35-175	8.8	20

QC results presented in the QC Control Data have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules. Also, MS/MSD % recoveries are calculated by the SPL LIMS using any detected value greater than the MDL.



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QUALITY CONTROL DATA

Workorder: H10040214 : Wilmuth No. 1

Project Number: Wilmuth No. 1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 39065

39066

Original: H10040214001

MS Analysis Date/Time Analyst: 04/13/2010 02:43 JMC

MSD Analysis Date/Time Analyst: 04/13/2010 03:11 JMC

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
Styrene	ug/l	ND	20	17.8	17.0	89.0	85.2	35-175	4.4	20
1,1,1,2-Tetrachloroethane	ug/l	ND	20	19.1	18.6	95.3	93.2	35-175	2.2	20
1,1,2,2-Tetrachloroethane	ug/l	ND	20	19.6	19.1	97.9	95.6	35-175	2.4	20
Tetrachloroethene	ug/l	ND	20	22.6	20.4	113	102	26-250	10.6	20
Toluene	ug/l	ND	20	21.7	19.6	108	98.1	70-131	9.9	20
1,2,3-Trichlorobenzene	ug/l	ND	20	15.9	15.7	79.6	78.7	27-187	1.1	20
1,2,4-Trichlorobenzene	ug/l	ND	20	15.8	15.5	79.2	77.3	34-150	2.4	20
1,1,1-Trichloroethane	ug/l	ND	20	17.1	15.7	85.6	78.4	35-175	8.9	20
1,1,2-Trichloroethane	ug/l	ND	20	20.7	20.2	104	101	35-175	2.4	20
Trichloroethene	ug/l	ND	20	20.7	18.5	103	92.5	60-140	11.1	20
Trichlorofluoromethane	ug/l	ND	20	14.4	13.1	72.0	65.3	17-250	9.7	20
1,2,3-Trichloropropane	ug/l	ND	20	20.2	19.4	101	97.2	35-175	3.8	20
1,2,4-Trimethylbenzene	ug/l	ND	20	18.7	16.5	93.3	82.7	35-175	12.1	20
1,3,5-Trimethylbenzene	ug/l	ND	20	17.5	15.6	87.6	78.1	35-175	11.4	20
Vinyl acetate	ug/l	ND	20	16.2	16.2	81.2	81.1	10-250	0.1	20
Vinyl chloride	ug/l	ND	20	17.3	16.6	86.5	83.0	31-175	4.1	20
m,p-Xylene	ug/l	ND	40	43.1	39.0	108	97.5	35-175	9.9	20
o-Xylene	ug/l	ND	20	20.7	19.0	103	95.2	35-175	8.3	20
Xylenes, Total	ug/l	ND	60	63.78	58.05	106	96.8	35-175	9.4	20
4-Bromofluorobenzene (S)	%	91.3				97.4	99.3	74-125		30
1,2-Dichloroethane-d4 (S)	%	101				94.9	92.8	70-130		30
Toluene-d8 (S)	%	101				104	105	82-118		30

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QUALITY CONTROL DATA

Workorder: H10040214 : Wilmuth No. 1

Project Number: Wilmuth No. 1

QC Batch: IC/1249

Analysis Method: EPA 300.0

QC Batch Method: EPA 300.0

Associated Lab Samples: H10040214001 H10040214002 H10040214003 H10040214004 H10040245001 H10040256001
H10040261001

METHOD BLANK: 39107

Analysis Date/Time Analyst: 04/13/2010 11:10 CFS

Parameter	Units	Blank Result	Qualifiers	Reporting Limit
Orthophosphate (As P)	mg/l	ND		0.500
Chloride	mg/l	ND		0.500
Fluoride	mg/l	ND		0.500
Bromide	mg/l	ND		0.500

LABORATORY CONTROL SAMPLE: 39108

Analysis Date/Time Analyst: 04/13/2010 11:27 CFS

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits
Orthophosphate (As P)	mg/l	10	9.547	95.5	85-115
Chloride	mg/l	10	9.343	93.4	85-115
Fluoride	mg/l	10	9.907	99.1	85-115
Bromide	mg/l	10	9.749	97.5	85-115

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 39109

39110

Original: H10040256001

MS Analysis Date/Time Analyst: 04/13/2010 17:21 CFS

MSD Analysis Date/Time Analyst: 04/13/2010 17:38 CFS

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
Orthophosphate (As P)	mg/l	ND	10	8.482	8.695	84.8	86.9	80-120	2.5	20
Chloride	mg/l	ND	10	8.275	8.511	82.7	85.1	80-120	2.8	20
Fluoride	mg/l	ND	10	8.798	9.075	88.0	90.7	80-120	3.1	20
Bromide	mg/l	ND	10	8.533	8.819	85.3	88.2	80-120	3.3	20

QC results presented in the QC Control Data have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules. Also, MS/MSD % recoveries are calculated by the SPL LIMS using any detected value greater than the MDL.



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QUALITY CONTROL DATA

Workorder: H10040214 : Wilmuth No. 1

Project Number: Wilmuth No. 1

QC Batch: GCVW/1549 Analysis Method: SW-846 8015B GRO Gas
QC Batch Method: SW-846 5030 Preparation: 04/17/2010 00:00 by GCV
Associated Lab Samples: H10040214001 H10040214002 H10040214003 H10040214004 H10040259002 H10040481001

METHOD BLANK: 40026

Analysis Date/Time Analyst: 04/17/2010 12:39 JWS

Parameter	Units	Blank Result	Qualifiers	Reporting Limit
Gasoline Range Organics	mg/l	ND		0.10
4-Bromofluorobenzene (S)	%	87.1		50-158
1,4-Difluorobenzene (S)	%	95.5		60-155

LABORATORY CONTROL SAMPLE: 40027

Analysis Date/Time Analyst: 04/17/2010 11:44 JWS

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits
Gasoline Range Organics	mg/l	1.0	1.11	111	70-130
4-Bromofluorobenzene (S)	%			93.3	50-158
1,4-Difluorobenzene (S)	%			100	60-155

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 40024 40025 Original: H10040214001

MS Analysis Date/Time Analyst: 04/17/2010 15:25 JWS

MSD Analysis Date/Time Analyst: 04/17/2010 15:53 JWS

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
Gasoline Range Organics	mg/l	0.012	1.0	1.05	1.02	104	101	36-160	3.1	36
4-Bromofluorobenzene (S)	%	88.6				92.6	92.4	50-158		30
1,4-Difluorobenzene (S)	%	95.9				103	95.6	60-155		30

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 40812 40813 Original: H10040481001

MS Analysis Date/Time Analyst: 04/17/2010 15:25 JWS

MSD Analysis Date/Time Analyst: 04/17/2010 15:53 JWS

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
4-Bromofluorobenzene (S)	%	ND				92.6	92.4	50-158		30
1,4-Difluorobenzene (S)	%	ND				103	95.6	60-155		30

QC results presented in the QC Control Data have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules. Also, MS/MSD % recoveries are calculated by the SPL LIMS using any detected value greater than the MDL.



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QUALITY CONTROL DATA

Workorder: H10040214 : Wilmuth No. 1

Project Number: Wilmuth No. 1

QC Batch: WETC/2872 Analysis Method: SM 4500 NO3 F
QC Batch Method: SM 4500 NO3 F
Associated Lab Samples: H10040214001 H10040214002 H10040214003 H10040214004

METHOD BLANK: 40298

Analysis Date/Time Analyst: 04/21/2010 09:30 ESK

Parameter	Units	Blank Result	Qualifiers	Reporting Limit
Nitrate+Nitrite (as Nitrogen)	mg/l	ND		0.500

LABORATORY CONTROL SAMPLE: 40299

Analysis Date/Time Analyst: 04/21/2010 09:30 ESK

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits
Nitrate+Nitrite (as Nitrogen)	mg/l	5	5.379	108	90-110

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 40300 40301 Original: H10040214003

MS Analysis Date/Time Analyst: 04/21/2010 09:30 ESK

MSD Analysis Date/Time Analyst: 04/21/2010 09:30 ESK

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
Nitrate+Nitrite (as Nitrogen)	mg/l	0.209	5	3.451	3.385	64.8 *	63.5 *	90-110	1.9	20

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Legend

(S) - Indicates analyte is a surrogate

Qualifier	Qualifier Description
MI	Matrix Interference
I	Estimated value, between MDL and PQL (Florida)
JN	The analysis indicates the presence of an analyte
C	MTBE results were not confirmed by GCMS
NC	Not Calculated - Sample concentration > 4 times the spike
*	Recovery/RPD value outside QC limits
E	Results exceed calibration range
H	Exceeds holding time
J	Estimated value
Q	Received past holding time
B	Analyte detected in the Method Blank
N	Recovery outside of control limits
D	Recovery out of range due to dilution
NC	Not Calculable (Sample Duplicate)
P	Pesticide dual column results, greater than 25%



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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: H10040214 : Wilmuth No. 1

Project Number: Wilmuth No. 1

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
H10040214001	MW-1	SM 4500-H+ B	WCSH/2349		
H10040214002	MW-2	SM 4500-H+ B	WCSH/2349		
H10040214003	MW-3	SM 4500-H+ B	WCSH/2349		
H10040214004	MW-4	SM 4500-H+ B	WCSH/2349		
H10040214001	MW-1	EPA 120.1	WETC/2803		
H10040214002	MW-2	EPA 120.1	WETC/2803		
H10040214003	MW-3	EPA 120.1	WETC/2803		
H10040214004	MW-4	EPA 120.1	WETC/2803		
H10040214001	MW-1	SW-846 3510C	EXTO/1594	SW-846 8270C	MSSV/1207
H10040214002	MW-2	SW-846 3510C	EXTO/1594	SW-846 8270C	MSSV/1207
H10040214003	MW-3	SW-846 3510C	EXTO/1594	SW-846 8270C	MSSV/1207
H10040214004	MW-4	SW-846 3510C	EXTO/1594	SW-846 8270C	MSSV/1207
H10040214001	MW-1	SW-846 3010A	DIGM/1656	SW-846 6010B	ICP/1354
H10040214002	MW-2	SW-846 3010A	DIGM/1656	SW-846 6010B	ICP/1354
H10040214003	MW-3	SW-846 3010A	DIGM/1656	SW-846 6010B	ICP/1354
H10040214004	MW-4	SW-846 3010A	DIGM/1656	SW-846 6010B	ICP/1354
H10040214001	MW-1	SM 2340 C	WETC/2817		
H10040214002	MW-2	SM 2340 C	WETC/2817		
H10040214003	MW-3	SM 2340 C	WETC/2817		
H10040214004	MW-4	SM 2340 C	WETC/2817		
H10040214001	MW-1	EPA 300.0	IC/1247		
H10040214002	MW-2	EPA 300.0	IC/1247		
H10040214003	MW-3	EPA 300.0	IC/1247		
H10040214004	MW-4	EPA 300.0	IC/1247		
H10040214007	MW-2 Shallow	EPA 300.0	IC/1247		
H10040214001	MW-1	SW-846 7470A	HGPR/1118	SW-846 7470A	HG/1109
H10040214002	MW-2	SW-846 7470A	HGPR/1118	SW-846 7470A	HG/1109
H10040214003	MW-3	SW-846 7470A	HGPR/1118	SW-846 7470A	HG/1109
H10040214004	MW-4	SW-846 7470A	HGPR/1118	SW-846 7470A	HG/1109



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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: H10040214 : Wilmuth No. 1

Project Number: Wilmuth No. 1

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
H10040214001	MW-1	SW-846 7470A	HGPR/1119	SW-846 7470A	HG/1109
H10040214002	MW-2	SW-846 7470A	HGPR/1119	SW-846 7470A	HG/1109
H10040214003	MW-3	SW-846 7470A	HGPR/1119	SW-846 7470A	HG/1109
H10040214004	MW-4	SW-846 7470A	HGPR/1119	SW-846 7470A	HG/1109
H10040214001	MW-1	SW-846 3510C	EXTO/1609	SW-846 8015B Fuels	GCSV/1418
H10040214002	MW-2	SW-846 3510C	EXTO/1609	SW-846 8015B Fuels	GCSV/1418
H10040214003	MW-3	SW-846 3510C	EXTO/1609	SW-846 8015B Fuels	GCSV/1418
H10040214004	MW-4	SW-846 3510C	EXTO/1609	SW-846 8015B Fuels	GCSV/1418
H10040214001	MW-1	SM 2540 C	WETS/1555		
H10040214002	MW-2	SM 2540 C	WETS/1555		
H10040214003	MW-3	SM 2540 C	WETS/1555		
H10040214004	MW-4	SM 2540 C	WETS/1555		
H10040214001	MW-1	SM 2320 B	WETC/2823		
H10040214002	MW-2	SM 2320 B	WETC/2823		
H10040214003	MW-3	SM 2320 B	WETC/2823		
H10040214004	MW-4	SM 2320 B	WETC/2823		
H10040214001	MW-1	SW-846 5030	MSV/1746	SW-846 8260B	MSV/1747
H10040214002	MW-2	SW-846 5030	MSV/1746	SW-846 8260B	MSV/1747
H10040214003	MW-3	SW-846 5030	MSV/1746	SW-846 8260B	MSV/1747
H10040214004	MW-4	SW-846 5030	MSV/1746	SW-846 8260B	MSV/1747
H10040214005	Duplicate	SW-846 5030	MSV/1746	SW-846 8260B	MSV/1747
H10040214006	Trip Blank	SW-846 5030	MSV/1746	SW-846 8260B	MSV/1747
H10040214007	MW-2 Shallow	SW-846 5030	MSV/1746	SW-846 8260B	MSV/1747
H10040214008	Trip Blank 2	SW-846 5030	MSV/1746	SW-846 8260B	MSV/1747
H10040214009	Trip Blank 3	SW-846 5030	MSV/1746	SW-846 8260B	MSV/1747
H10040214001	MW-1	EPA 300.0	IC/1249		
H10040214002	MW-2	EPA 300.0	IC/1249		
H10040214003	MW-3	EPA 300.0	IC/1249		
H10040214004	MW-4	EPA 300.0	IC/1249		
H10040214001	MW-1	SW-846 8015B GRO Gas	GCVW/1549	SW-846 8015B GRO Gas	GCVW/1550



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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: H10040214 : Wilmuth No. 1

Project Number: Wilmuth No. 1

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
H10040214002	MW-2	SW-846 8015B GRO Gas	GCVW/1549	SW-846 8015B GRO Gas	GCVW/1550
H10040214003	MW-3	SW-846 8015B GRO Gas	GCVW/1549	SW-846 8015B GRO Gas	GCVW/1550
H10040214004	MW-4	SW-846 8015B GRO Gas	GCVW/1549	SW-846 8015B GRO Gas	GCVW/1550
H10040214001	MW-1	SM 4500 NO3 F	WETC/2872		
H10040214002	MW-2	SM 4500 NO3 F	WETC/2872		
H10040214003	MW-3	SM 4500 NO3 F	WETC/2872		
H10040214004	MW-4	SM 4500 NO3 F	WETC/2872		



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Sample Receipt Checklist

WorkOrder:	H10040214	Received By	LOG
Date and Time	04/10/2010 09:30	Carrier Name:	FEDEXP
Temperature:	2.0°C	Chilled By:	Water Ice

1. Shipping container/cooler in good condition?
869526690610-2.0c/ 869526690573-3.0c/ 869526690584-3.0c
YES
2. Custody seals intact on shipping container/cooler?
YES
3. Custody seals intact on sample bottles?
Not Present
4. Chain of custody present?
YES
5. Chain of custody signed when relinquished and received?
YES
6. Chain of custody agrees with sample labels?
NO
Lab received three sets of trip blanks but COC only shows one. Logged in all trip blanks for BTEX analysis.
7. Samples in proper container/bottle?
YES
8. Samples containers intact?
NO
Lab received one of the 16oz unpreserved plastic containers from sample MW-3 with the lid off. Split sample from the 32oz unpreserved plastic into an unpreserved 16oz plastic to replace the container that was received with the lid off.
9. Sufficient sample volume for indicated test?
YES
10. All samples received within holding time?
NO
Lab received pH out of method holding time.
11. Container/Temp Blank temperature in compliance?
YES
12. Water - VOA vials have zero headspace?
YES
13. Water - Preservation checked upon receipt(except VOA*)?
YES

*VOA Preservation Checked After Sample Analysis

SPL Representative:
Client Name Contacted:
Client Instructions:

Contact Date & Time:



SPL, Inc.

Analysis Request & Chain of Custody Record

H10040214

page 1 of 4

2010/02/23

Client Name: Teha Tech / Conoco Phillips		Address: 692 Indian School Rd. NE #200		City: Albuquerque State: NM Zip: 87110	
Phone/Fax: 505-237-8440		Client Contact: Kelly Blanchard		Email: kelly.blanchard@teta.com	
Project Name: Wilmington No. 1		Site Name: Aztec, NM		Site Location: Conoco Phillips	
Invoice To: SAMPLE ID		DATE		TIME	
MW-1		4.8.10		1555	
MW-1		4.8.10		1555	
MW-1		4.8.10		1555	
MW-1		4.8.10		1555	
MW-1		4.8.10		1555	
MW-1		4.8.10		1555	
MW-2		4.8.10		1515	
MW-2		4.8.10		1515	
MW-2		4.8.10		1515	

W=water S=soil O=oil A=air SL=sludge E=encore X=other	P=plastic A=amber glass G=glass V=vial X=other	1=1 liter 4=4oz 40=vial 8=8oz 16=16oz X=other	1=HCl 2=HNO3 3=H2SO4 X=other	Number of Containers	Requested Analysis
					VOCs
					TPH GRO
					SVOCs
					TPH DRO
					Nitrate/Nitrite
					Total Mercury
					DISSOLVED METALS
					6010B/6020A
					Br, Cl, F, S, O ₄ , Alk, Ph
					Spec. Cond, TDS, Hardness

Client/Consultant Remarks: **Filter 3 preserve metals container prior to analysis**

Requested TAT: **Standard**

Special Reporting Requirements: Results: **Standard** **Level 3 OC** **Long-term** **TX TRAP** **LA RECAP**

Requisitioned by: **[Signature]** date: **4-9-10** time: **1730**

Requisitioned by: **[Signature]** date: **4-9-10** time: **1730**

Received by: **[Signature]** date: **4-9-10** time: **1730**

Received by: **[Signature]** date: **4-9-10** time: **1730**

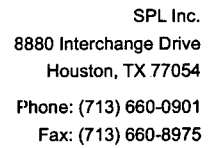
Intact? **Yes** **No** **Temp** **20.5** **PM review** **(initials)**

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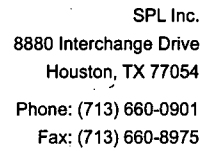
☐ 500 Ambassador Caffery Parkway
Scott, LA 70583 (337) 237-4775

☐ 459 Hughes Drive
Traverse City, MI 49686 (231) 947-5777

Printed: 04/26/2010 14:16



Report ID: H10040214_6089
Printed: 04/26/2010 14:16

Printed: 04/26/2010 14:16



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Certificate of Analysis

June 29, 2010

Workorder: H10060328

Kelly Blanchard
Tetra Tech
6121 Indian School Road NE
Suite 200
Albuquerque, NM 87110

Project: COP - Wilmuth No. 1
Project Number: COP - Wilmuth No. 1
Site: Wilmuth No. 1, Aztec, New Mexico
PO Number: ENFOS
NELAC Cert. No.: T104704205-09-1

This Report Contains A Total Of 24 Pages

Excluding Any Attachments



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Certificate of Analysis

June 29, 2010

Workorder: H10060328

Kelly Blanchard
Tetra Tech
6121 Indian School Road NE
Suite 200
Albuquerque, NM 87110

Project: COP - Wilmuth No. 1
Project Number: COP - Wilmuth No. 1
Site: Wilmuth No. 1, Aztec, New Mexico
PO Number: ENFOS
NELAC Cert. No.: T104704205-09-1

I. SAMPLE RECEIPT:

All samples were received intact. The internal ice chest temperatures were measured on receipt and are recorded on the attached Sample Receipt Checklist.

II: ANALYSES AND EXCEPTIONS:

Per the Conoco Phillips TSM Revision 0, a copy of the internal chain of custody is to be included in final data package. However, due to LIMS limitations, this cannot be provided at this time.

There were no exceptions noted.

III. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report (" mg/kg-dry " or " ug/kg-dry ").

Matrix spike (MS) and matrix spike duplicate (MSD) samples are chosen and tested at random from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. Since the MS and MSD are chosen at random from an analytical batch, the sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The Laboratory Control Sample (LCS) and the Method Blank (MB) are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

Some of the percent recoveries and RPD's on the QC report for the MS/MSD may be different than the calculated recoveries and RPD's using the sample result and the MS/MSD results that appear on the report because, the actual raw result is used to perform the calculations for percent recovery and RPD.

Any other exceptions associated with this report will be footnoted in the analytical result page(s) or the quality control summary page(s).

Please do not hesitate to contact us if you have any questions or comments pertaining to this data report. Please reference the above Certificate of Analysis Number.



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Certificate of Analysis

June 29, 2010

Workorder: H10060328

Kelly Blanchard
Tetra Tech
6121 Indian School Road NE
Suite 200
Albuquerque, NM 87110

Project: COP - Wilmuth No. 1
Project Number: COP - Wilmuth No. 1
Site: Wilmuth No. 1, Aztec, New Mexico
PO Number: ENFOS
NELAC Cert. No.: T104704205-09-1

This report shall not be reproduced except in full, without the written approval of the laboratory. The reported results are only representative of the samples submitted for testing.

SPL, Inc. is pleased to be of service to you. We anticipate working with you in fulfilling all your current and future analytical needs.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or by his designee, as verified by the following signature.

Erica Cardenas, Senior Project Manager

Enclosures



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SAMPLE SUMMARY

Workorder: H10060328 : COP - Wilmuth No. 1

Project Number: COP - Wilmuth No. 1

Lab ID	Sample ID	Matrix	COC ID	Date/Time Collected	Date/Time Received
H10060328001	MW-1	Water		6/9/2010 12:10	6/15/2010 09:00
H10060328002	MW-2	Water		6/9/2010 11:30	6/15/2010 09:00
H10060328003	MW-3	Water		6/9/2010 11:10	6/15/2010 09:00
H10060328004	MW-4	Water		6/9/2010 11:55	6/15/2010 09:00
H10060328005	DUPLICATE	Water		6/9/2010 12:00	6/15/2010 09:00
H10060328006	TRIP BLANK	Water		6/14/2010 11:00	6/15/2010 09:00



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ANALYTICAL RESULTS

Workorder: H10060328 : COP - Wilmuth No. 1

Project Number: COP - Wilmuth No. 1

Lab ID: H10060328001

Date/Time Received: 6/15/2010 09:00

Matrix: Water

Sample ID: MW-1

Date/Time Collected: 6/9/2010 12:10

Analysis Desc: EPA 300.0

Analytical Batches:

Batch: 1335 EPA 300.0 on 06/15/2010 14:17 by CFS DF = 100.

Batch: 1335 EPA 300.0 on 06/15/2010 17:31 by CFS DF = 10.

Parameters	Results					Batch Information	
	mg/l	Qual	Report Limit	MDL	DF	RegLmt	Prep Analysis
Chloride	26.9		5.00	1.26	10		1335
Sulfate	375		50.0	4.35	100		1335

WET CHEMISTRY

Analysis Desc: SM 2540 C

Analytical Batches:

Batch: 1654 SM 2540 C on 06/15/2010 14:50 by CFS

Parameters	Results					Batch Information	
	mg/l	Qual	Report Limit	MDL	DF	RegLmt	Prep Analysis
Residue, Filterable (TDS)	1190		10.0	3.94	1		1654

ICP DISSOLVED METALS

Analysis Desc: SW-846 6010B

Preparation Batches:

Batch: 1829 SW-846 3010A on 06/15/2010 16:00 by R_V

Analytical Batches:

Batch: 1467 SW-846 6010B on 06/26/2010 15:23 by EBG

Parameters	Results					Batch Information	
	mg/l	Qual	Report Limit	MDL	DF	RegLmt	Prep Analysis
Manganese	1.08		0.00500	0.000300	1		1829 1467

VOLATILES

Analysis Desc: SW-846 8260B

SW-846 5030Analytical Batches:

Batch: 2069 SW-846 8260B on 06/21/2010 02:28 by JMC

Parameters	Results					Batch Information	
	ug/l	Qual	Report Limit	MDL	DF	RegLmt	Prep Analysis
Benzene	ND		1.0	0.10	1		2069
Ethylbenzene	ND		1.0	0.15	1		2069
Toluene	ND		1.0	0.29	1		2069
m,p-Xylene	ND		1.0	0.18	1		2069
o-Xylene	ND		1.0	0.13	1		2069
Xylenes, Total	ND		1.0	0.13	1		2069
4-Bromofluorobenzene (S)	90.5 %		74-125		1		2069



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ANALYTICAL RESULTS

Workorder: H10060328 : COP - Wilmuth No. 1

Project Number: COP - Wilmuth No. 1

Lab ID: **H10060328001**

Date/Time Received: 6/15/2010 09:00

Matrix: Water

Sample ID: **MW-1**

Date/Time Collected: 6/9/2010 12:10

Parameters	Results			MDL	DF	RegLmt	Batch Information	
	Qual	Report Limit					Prep	Analysis
1,2-Dichloroethane-d4 (S)	80.6 %	70-130			1			2069
Toluene-d8 (S)	103 %	82-118			1			2069



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ANALYTICAL RESULTS

Workorder: H10060328 : COP - Wilmuth No. 1

Project Number: COP - Wilmuth No. 1

Lab ID: H10060328002

Date/Time Received: 6/15/2010 09:00

Matrix: Water

Sample ID: MW-2

Date/Time Collected: 6/9/2010 11:30

Analysis Desc: EPA 300.0

Analytical Batches:

Batch: 1335 EPA 300.0 on 06/15/2010 14:33 by CFS DF = 100

Batch: 1335 EPA 300.0 on 06/15/2010 17:47 by CFS DF = 10

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information	
	mg/l						Prep	Analysis
Chloride	19.8		5.00	1.26	10			1335
Sulfate	337		50.0	4.35	100			1335

WET CHEMISTRY

Analysis Desc: SM 2540.C

Analytical Batches:

Batch: 1654 SM 2540.C on 06/15/2010 14:50 by CFS

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information	
	mg/l						Prep	Analysis
Residue, Filterable (TDS)	1070		20.0	7.88	2			1654

ICP DISSOLVED METALS

Analysis Desc: SW-846 6010B

Preparation Batches:

Batch: 1829 SW-846 3010A on 06/15/2010 16:00 by R_V

Analytical Batches:

Batch: 1467 SW-846 6010B on 06/28/2010 15:26 by EBG

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information	
	mg/l						Prep	Analysis
Manganese	1.66		0.00500	0.000300	1		1829	1467

VOLATILES

Analysis Desc: SW-846 8260B

SW-846 5030Analytical Batches:

Batch: 2069 SW-846 8260B on 06/21/2010 02:56 by JMC

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information	
	ug/l						Prep	Analysis
Benzene	ND		1.0	0.10	1			2069
Ethylbenzene	ND		1.0	0.15	1			2069
Toluene	ND		1.0	0.29	1			2069
m,p-Xylene	ND		1.0	0.18	1			2069
o-Xylene	ND		1.0	0.13	1			2069
Xylenes, Total	ND		1.0	0.13	1			2069
4-Bromofluorobenzene (S)	89.6 %		74-125		1			2069



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ANALYTICAL RESULTS

Workorder: H10060328 : COP - Wilmuth No. 1

Project Number: COP - Wilmuth No. 1

Lab ID: **H10060328002**

Date/Time Received: 6/15/2010 09:00

Matrix: Water

Sample ID: **MW-2**

Date/Time Collected: 6/9/2010 11:30

Parameters	Results			MDL	DF	RegLmt	Batch Information	
	Qual	Report Limit					Prep	Analysis
1,2-Dichloroethane-d4 (S)	81.3 %	70-130			1			2069
Toluene-d8 (S)	101 %	82-118			1			2069



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ANALYTICAL RESULTS

Workorder: H10060328 : COP - Wilmuth No. 1

Project Number: COP - Wilmuth No. 1

Lab ID: H10060328003

Date/Time Received: 6/15/2010 09:00

Matrix: Water

Sample ID: MW-3

Date/Time Collected: 6/9/2010 11:10

Analysis Desc: EPA 300.0

Analytical Batches:

Batch: 1335 EPA 300.0 on 06/15/2010 14:49 by CFS DF = 100

Batch: 1335 EPA 300.0 on 06/15/2010 18:03 by CFS DF = 10

Parameters	Results					Batch Information	
	mg/l	Qual	Report Limit	MDL	DF	RegLmt	Prep Analysis
Chloride	18.5		5.00	1.26	10		1335
Sulfate	241		50.0	4.35	100		1335

WET CHEMISTRY

Analysis Desc: SM 2540 C

Analytical Batches:

Batch: 1654 SM 2540 C on 06/15/2010 14:50 by CFS

Parameters	Results					Batch Information	
	mg/l	Qual	Report Limit	MDL	DF	RegLmt	Prep Analysis
Residue, Filterable (TDS)	769		10.0	3.94	1		1654

ICP DISSOLVED METALS

Analysis Desc: SW-846 6010B

Preparation Batches:

Batch: 1829 SW-846 3010A on 06/15/2010 16:00 by R_V

Analytical Batches:

Batch: 1467 SW-846 6010B on 06/28/2010 15:32 by EBG

Parameters	Results					Batch Information	
	mg/l	Qual	Report Limit	MDL	DF	RegLmt	Prep Analysis
Manganese	1.43		0.00500	0.000300	1		1829 1467

VOLATILES

Analysis Desc: SW-846 8260B

SW-846 5030Analytical Batches:

Batch: 2069 SW-846 8260B on 06/21/2010 03:24 by JMC

Parameters	Results					Batch Information	
	ug/l	Qual	Report Limit	MDL	DF	RegLmt	Prep Analysis
Benzene	ND		1.0	0.10	1		2069
Ethylbenzene	ND		1.0	0.15	1		2069
Toluene	ND		1.0	0.29	1		2069
m,p-Xylene	ND		1.0	0.18	1		2069
o-Xylene	ND		1.0	0.13	1		2069
Xylenes, Total	ND		1.0	0.13	1		2069
4-Bromofluorobenzene (S)	89.7 %		74-125		1		2069



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ANALYTICAL RESULTS

Workorder: H10060328 : COP - Wilmuth No. 1

Project Number: COP - Wilmuth No. 1

Lab ID: H10060328003

Date/Time Received: 6/15/2010 09:00 Matrix: Water

Sample ID: MW-3

Date/Time Collected: 6/9/2010 11:10

Parameters	Results			MDL	DF	RegLmt	Batch Information	
	Qual	Report Limit					Prep	Analysis
1,2-Dichloroethane-d4 (S)	82.6 %	70-130			1			2069
Toluene-d8 (S)	103 %	82-118			1			2069



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ANALYTICAL RESULTS

Workorder: H10060328 : COP - Wilmuth No. 1

Project Number: COP - Wilmuth No. 1

Lab ID: H10060328004

Date/Time Received: 6/15/2010 09:00

Matrix: Water

Sample ID: MW-4

Date/Time Collected: 6/9/2010 11:55

Analysis Desc: EPA 300.0

Analytical Batches:

Batch: 1335 EPA 300.0 on 06/15/2010 15:05 by CFS DF = 100.

Batch: 1335 EPA 300.0 on 06/15/2010 18:19 by CFS DF = 10.

Parameters	Results					Batch Information	
	mg/l	Qual	Report Limit	MDL	DF	RegLmt	Prep Analysis
Chloride	29.6		5.00	1.26	10		1335
Sulfate	542		50.0	4.35	100		1335

WET CHEMISTRY

Analysis Desc: SM 2540 C

Analytical Batches:

Batch: 1654 SM 2540 C on 06/15/2010 14:50 by CFS

Parameters	Results					Batch Information	
	mg/l	Qual	Report Limit	MDL	DF	RegLmt	Prep Analysis
Residue, Filterable (TDS)	1380		10.0	3.94	1		1654

ICP DISSOLVED METALS

Analysis Desc: SW-846 6010B

Preparation Batches:

Batch: 1829 SW-846 3010A on 06/15/2010 16:00 by R_V

Analytical Batches:

Batch: 1467 SW-846 6010B on 06/28/2010 15:38 by EBG

Parameters	Results					Batch Information	
	mg/l	Qual	Report Limit	MDL	DF	RegLmt	Prep Analysis
Manganese	3.44		0.00500	0.000300	1		1829 1467

VOLATILES

Analysis Desc: SW-846 8260B

SW-846 5030Analytical Batches:

Batch: 2069 SW-846 8260B on 06/21/2010 03:51 by JMC

Parameters	Results					Batch Information	
	ug/l	Qual	Report Limit	MDL	DF	RegLmt	Prep Analysis
Benzene	ND		1.0	0.10	1		2069
Ethylbenzene	ND		1.0	0.15	1		2069
Toluene	ND		1.0	0.29	1		2069
m,p-Xylene	ND		1.0	0.18	1		2069
o-Xylene	ND		1.0	0.13	1		2069
Xylenes, Total	ND		1.0	0.13	1		2069
4-Bromofluorobenzene (S)	87.5 %		74-125		1		2069



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ANALYTICAL RESULTS

Workorder: H10060328 : COP - Wilmuth No. 1

Project Number: COP - Wilmuth No. 1

Lab ID: H10060328004

Date/Time Received: 6/15/2010 09:00 Matrix: Water

Sample ID: MW-4

Date/Time Collected: 6/9/2010 11:55

Parameters	Results		Report Limit	MDL	DF	RegLmt	Batch Information	
	Qual						Prep	Analysis
1,2-Dichloroethane-d4 (S)	81.9 %		70-130		1			2069
Toluene-d8 (S)	102 %		82-118		1			2069



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ANALYTICAL RESULTS

Workorder: H10060328 : COP - Wilmuth No. 1

Project Number: COP - Wilmuth No. 1

Lab ID: H10060328005

Date/Time Received: 6/15/2010 09:00

Matrix: Water

Sample ID: DUPLICATE

Date/Time Collected: 6/9/2010 12:00

VOLATILES

Analysis Desc: SW-846 8260B

SW-846 5030 Analytical Batches:

Batch: 2069 SW-846 8260B on 06/21/2010 04:19 by JMC

Parameters	Results			MDL	DF	RegLmt	Batch Information	
	ug/l	Qual	Report Limit				Prep	Analysis
Benzene	ND		1.0	0.10	1			2069
Ethylbenzene	ND		1.0	0.15	1			2069
Toluene	ND		1.0	0.29	1			2069
m,p-Xylene	ND		1.0	0.18	1			2069
o-Xylene	ND		1.0	0.13	1			2069
Xylenes, Total	ND		1.0	0.13	1			2069
4-Bromofluorobenzene (S)	88.9 %		74-125		1			2069
1,2-Dichloroethane-d4 (S)	84.7 %		70-130		1			2069
Toluene-d8 (S)	103 %		82-118		1			2069



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ANALYTICAL RESULTS

Workorder: H10060328 : COP - Wilmuth No. 1

Project Number: COP - Wilmuth No. 1

Lab ID: H10060328006

Date/Time Received: 6/15/2010 09:00 Matrix: Water

Sample ID: TRIP BLANK

Date/Time Collected: 6/14/2010 11:00

VOLATILES

Analysis Desc: SW-846 8260B

SW-846 5030 Analytical Batches:

Batch: 2069 SW-846 8260B on 06/21/2010 04:47 by JMC

Parameters	Results		Report Limit	MDL	DF	RegLmt	Batch Information	
	ug/l	Qual					Prep	Analysis
Benzene	ND		1.0	0.10	1			2069
Ethylbenzene	ND		1.0	0.15	1			2069
Toluene	ND		1.0	0.29	1			2069
m,p-Xylene	ND		1.0	0.18	1			2069
o-Xylene	ND		1.0	0.13	1			2069
Xylenes, Total	ND		1.0	0.13	1			2069
4-Bromofluorobenzene (S)	89.1 %		74-125		1			2069
1,2-Dichloroethane-d4 (S)	83.4 %		70-130		1			2069
Toluene-d8 (S)	105 %		82-118		1			2069



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QUALITY CONTROL DATA

Workorder: H10060328 : COP - Wilmuth No. 1

Project Number: COP - Wilmuth No. 1

QC Batch: WETS/1654

Analysis Method: SM 2540 C

QC Batch Method: SM 2540 C

Associated Lab Samples: H10060328001 H10060328002 H10060328003 H10060328004

METHOD BLANK: 50983

Analysis Date/Time Analyst: 06/15/2010 14:50 CFS

Parameter	Units	Blank Result	Qualifiers	Reporting Limit
Residue, Filterable (TDS)	mg/l	ND		10.0

LABORATORY CONTROL SAMPLE & LCSD: 50984

50985

LCS Analysis Date/Time Analyst: 06/15/2010 14:50 CFS

LCSD Analysis Date/Time 06/15/2010 14:50 CFS

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD
Residue, Filterable (TDS)	mg/l	200	201.0	198.0	100	99.0	95-107	1.5	10

SAMPLE DUPLICATE: 50986

Original: H10060328001

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	DF
WET CHEMISTRY						1
Residue, Filterable (TDS)	mg/l	1190	1190	0.1	10	1

QC results presented in the QC Control Data have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules. Also, MS/MSD % recoveries are calculated by the SPL LIMS using any detected value greater than the MDL.



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QUALITY CONTROL DATA

Workorder: H10060328 : COP - Wilmuth No. 1

Project Number: COP - Wilmuth No. 1

QC Batch: DIGM/1829 Analysis Method: SW-846 6010B
QC Batch Method: SW-846 3010A Preparation: 06/15/2010 16:00 by R_V
Associated Lab Samples: H10060328001 H10060328002 H10060328003 H10060328004 H10060335001 H10060335002
H10060336001 H10060336002 H10060336003 H10060336004

METHOD BLANK: 51057

Analysis Date/Time Analyst: 06/26/2010 15:12 EBG

Parameter	Units	Blank Result	Qualifiers	Reporting Limit
Manganese	mg/l	ND		0.00500

LABORATORY CONTROL SAMPLE: 51058

Analysis Date/Time Analyst: 06/26/2010 15:18 EBG

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits
Manganese	mg/l	0.10	0.1064	106	80-120

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 51059 51060 Original: H10060328001

MS Analysis Date/Time Analyst: 06/26/2010 15:29 EBG

MSD Analysis Date/Time Analyst: 06/26/2010 15:35 EBG

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
Manganese	mg/l	1.08	0.10	1.198	1.176	NC	NC	75-125	NC	20

QC results presented in the QC Control Data have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules. Also, MS/MSD % recoveries are calculated by the SPL LIMS using any detected value greater than the MDL.



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QUALITY CONTROL DATA

Workorder: H10060328 : COP - Wilmuth No. 1

Project Number: COP - Wilmuth No. 1

QC Batch: IC/1335

Analysis Method: EPA 300.0

QC Batch Method: EPA 300.0

Associated Lab Samples: H10060328001 H10060328002 H10060328003 H10060328004 H10060333001

METHOD BLANK: 51247

Analysis Date/Time Analyst: 06/15/2010 11:20 CFS

Parameter	Units	Blank Result	Qualifiers	Reporting Limit
Sulfate	mg/l	ND		0.500
Chloride	mg/l	ND		0.500

LABORATORY CONTROL SAMPLE: 51248

Analysis Date/Time Analyst: 06/15/2010 11:36 CFS

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits
Sulfate	mg/l	10	10.02	100	85-115
Chloride	mg/l	10	10.07	101	85-115

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 51249 51250 Original: H10060328004

MS Analysis Date/Time Analyst: 06/15/2010 19:07 CFS

MSD Analysis Date/Time Analyst: 06/15/2010 19:23 CFS

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
Chloride	mg/l	29.6	100	130.4	127.1	101	97.5	80-120	2.5	20

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 51258 51259 Original: H10060328003

MS Analysis Date/Time Analyst: 06/15/2010 16:58 CFS

MSD Analysis Date/Time Analyst: 06/15/2010 17:14 CFS

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
Sulfate	mg/l	241	1000	1212	1251	97.1	101	80-120	3.2	20

QC results presented in the QC Control Data have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules. Also, MS/MSD % recoveries are calculated by the SPL LIMS using any detected value greater than the MDL.



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QUALITY CONTROL DATA

Workorder: H10060328 : COP - Wilmuth No. 1

Project Number: COP - Wilmuth No. 1

QC Batch: MSV/2068

Analysis Method: SW-846 8260B

QC Batch Method: SW-846 5030

Preparation: 06/20/2010 00:00 by JMC

Associated Lab Samples: H10060328001 H10060328002 H10060328003 H10060328004 H10060328005 H10060328006
H10060404001 H10060404002 H10060404003 H10060404004 H10060430001 H10060449001
H10060451001

METHOD BLANK: 52189

Analysis Date/Time Analyst: 06/20/2010 23:40 JMC

Parameter	Units	Blank Result	Qualifiers	Reporting Limit
Benzene	ug/l	ND		1.0
Ethylbenzene	ug/l	ND		1.0
Toluene	ug/l	ND		1.0
m,p-Xylene	ug/l	ND		1.0
o-Xylene	ug/l	ND		1.0
Xylenes, Total	ug/l	ND		1.0
4-Bromofluorobenzene (S)	%	89.7		74-125
1,2-Dichloroethane-d4 (S)	%	82.6		70-130
Toluene-d8 (S)	%	103		82-118

LABORATORY CONTROL SAMPLE: 52190

Analysis Date/Time Analyst: 06/20/2010 23:12 JMC

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits
Benzene	ug/l	20	17.2	85.8	74-123
Ethylbenzene	ug/l	20	20.3	102	72-127
Toluene	ug/l	20	22.1	111	74-126
m,p-Xylene	ug/l	40	41.1	103	71-129
o-Xylene	ug/l	20	20.4	102	74-130
Xylenes, Total	ug/l	60	61.5	103	71-130
4-Bromofluorobenzene (S)	%			97.1	74-125
1,2-Dichloroethane-d4 (S)	%			81.6	70-130
Toluene-d8 (S)	%			103	82-118

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 52191

52192

Original: H10060404001

MS Analysis Date/Time Analyst: 06/21/2010 00:36 JMC

MSD Analysis Date/Time Analyst: 06/21/2010 01:04 JMC

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
Benzene	ug/l	6.4	20	23.8	23.7	87.0	86.4	70-124	0.5	20
Ethylbenzene	ug/l	2.1	20	22.3	22.2	101	100	35-175	0.2	20

QC results presented in the QC Control Data have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules. Also, MS/MSD % recoveries are calculated by the SPL LIMS using any detected value greater than the MDL.



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QUALITY CONTROL DATA

Workorder: H10060328 : COP - Wilmuth No. 1

Project Number: COP - Wilmuth No. 1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 52191 52192 Original: H10060404001

MS Analysis Date/Time Analyst: 06/21/2010 00:36 JMC

MSD Analysis Date/Time Analyst: 06/21/2010 01:04 JMC

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
Toluene	ug/l	2.5	20	24.3	24.2	109	108	70-131	0.3	20
m,p-Xylene	ug/l	4.4	40	44.1	43.7	99.2	98.2	35-175	0.9	20
o-Xylene	ug/l	2.3	20	23.0	22.7	104	102	35-175	1.6	20
Xylenes, Total	ug/l	ND	60	67.1	66.35	112	111	35-175	1.1	20
4-Bromofluorobenzene (S)	%	98.7				95.6	97.4	74-125		30
1,2-Dichloroethane-d4 (S)	%	81.4				80.3	80.8	70-130		30
Toluene-d8 (S)	%	102				102	102	82-118		30

QC results presented in the QC Control Data have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules. Also, MS/MSD % recoveries are calculated by the SPL LIMS using any detected value greater than the MDL.



Legend

(S) - Indicates analyte is a surrogate

Qualifier	Qualifier Description
MI	Matrix Interference
I	Estimated value, between MDL and PQL (Florida)
JN	The analysis indicates the presence of an analyte
C	MTBE results were not confirmed by GCMS
NC	Not Calculated - Sample concentration > 4 times the spike
*	Recovery/RPD value outside QC limits
E	Results exceed calibration range
H	Exceeds holding time
J	Estimated value
Q	Received past holding time
B	Analyte detected in the Method Blank
N	Recovery outside of control limits
D	Recovery out of range due to dilution
NC	Not Calculable (Sample Duplicate)
P	Pesticide dual column results, greater than 25%
TNTC	Too numerous to count



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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: H10060328 : COP - Wilmuth No. 1

Project Number: COP - Wilmuth No. 1

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
H10060328001	MW-1	SM 2540 C	WETS/1654		
H10060328002	MW-2	SM 2540 C	WETS/1654		
H10060328003	MW-3	SM 2540 C	WETS/1654		
H10060328004	MW-4	SM 2540 C	WETS/1654		
H10060328001	MW-1	SW-846 3010A	DIGM/1829	SW-846 6010B	ICP/1467
H10060328002	MW-2	SW-846 3010A	DIGM/1829	SW-846 6010B	ICP/1467
H10060328003	MW-3	SW-846 3010A	DIGM/1829	SW-846 6010B	ICP/1467
H10060328004	MW-4	SW-846 3010A	DIGM/1829	SW-846 6010B	ICP/1467
H10060328001	MW-1	EPA 300.0	IC/1335		
H10060328002	MW-2	EPA 300.0	IC/1335		
H10060328003	MW-3	EPA 300.0	IC/1335		
H10060328004	MW-4	EPA 300.0	IC/1335		
H10060328001	MW-1	SW-846 5030	MSV/2068	SW-846 8260B	MSV/2069
H10060328002	MW-2	SW-846 5030	MSV/2068	SW-846 8260B	MSV/2069
H10060328003	MW-3	SW-846 5030	MSV/2068	SW-846 8260B	MSV/2069
H10060328004	MW-4	SW-846 5030	MSV/2068	SW-846 8260B	MSV/2069
H10060328005	DUPLICATE	SW-846 5030	MSV/2068	SW-846 8260B	MSV/2069
H10060328006	TRIP BLANK	SW-846 5030	MSV/2068	SW-846 8260B	MSV/2069



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Sample Receipt Checklist

WorkOrder:	H10060328	Received By	LOG
Date and Time	06/15/2010 09:00	Carrier Name:	FEDEXS
Temperature:	4.0°C	Chilled By:	Water Ice

1. Shipping container/cooler in good condition? YES
2. Custody seals intact on shipping container/cooler? YES
3. Custody seals intact on sample bottles? Not Present
4. Chain of custody present? YES
5. Chain of custody signed when relinquished and received? YES
6. Chain of custody agrees with sample labels? YES
7. Samples in proper container/bottle? YES
8. Samples containers intact? YES
9. Sufficient sample volume for indicated test? YES
10. All samples received within holding time? YES
11. Container/Temp Blank temperature in compliance? YES
12. Water - VOA vials have zero headspace? YES
13. Water - Preservation checked upon receipt(except VOA*)? Not Applicable

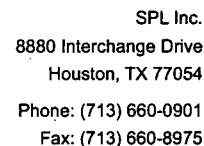
*VOA Preservation Checked After Sample Analysis

SPL Representative:

Contact Date & Time:

Client Name Contacted:

Client Instructions:



Report ID: H10060328_6089
Printed: 06/29/2010 15:15



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SPL, Inc. Analysis Request & Chain of Custody Record									
Client Name: <u>John Tech / Capco Phillips</u>									
Address: <u>6121 Indian School Rd # 200</u>									
City: <u>ABQ</u> State: <u>NM</u> Zip: <u>87110</u>									
Phone/Fax: <u>505-237-3440</u> <u>505-237-3655</u>									
Client Contact: <u>Kelly Blanchard</u> Email: <u>kelly.blanchard@capco.com</u>									
Project Name/No.: <u>Williamh No. 01</u>									
Site Name: <u>Artec NM</u>									
Site Location: <u>Capco Phillips</u>									
Invoice To:	DATE	TIME	comp	grab	matrix	bottle	size	pres.	Number of Containers
SAMPLE ID					W=water S=sol O=oil A=air SL=sludge E=soil X=other	P=plastic A=amber glass G=glass V=vial X=other	1=1 liter 4=4oz 40=vial 8=8oz 16=16oz X=other	1=HCl 2=HNO3 3=H2SO4 X=other	
<u>MMU-4</u>	<u>6-9-10</u>	<u>1155</u>		<u>X</u>	<u>W</u>	<u>P</u>	<u>16</u>	<u>0</u>	<u>1</u>
<u>MMU-4</u>	<u>6-9-10</u>	<u>1155</u>		<u>X</u>	<u>W</u>	<u>P</u>	<u>16</u>	<u>0</u>	<u>1</u>
<u>Duplicate</u>	<u>6-9-10</u>	<u>1200</u>		<u>X</u>	<u>W</u>	<u>V</u>	<u>40</u>	<u>1</u>	<u>3</u>
<u>Top Blank</u>	<u>6-9-10</u>	<u>1100</u>		<u>X</u>	<u>W</u>	<u>V</u>	<u>40</u>	<u>1</u>	<u>2</u>
Client/Consultant Remarks: <u>please filter & preserve metals container</u>									
Laboratory remarks:									
Requested TAT: <u>Standard</u>									
Special Reporting Requirements Results: <u>For</u> <u>pdf</u> <u>X</u>									
Standard QC <u>X</u> Level 3 QC <u>Level 4 QC</u> <u>TX TRRP</u> <u>L.A. RECAP</u>									
Relinquished by: <u>John Tech</u> date: <u>6-14-10</u> time: <u>1:30</u>									
Received by: <u>John Tech</u> date: <u>6-14-10</u> time: <u>1:30</u>									
Received by Laboratory: <u>John Tech</u>									
Intact? <u>Yes</u> Ice? <u>Yes</u> Temp: <u>20</u>									
PMI review (initial): <u>John Tech</u>									

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