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June 2, 2011

Project No. 105521.009005.000000

Mr. Steven Lindblom, P.G.
Environmental Supervisor, Eastern Colorado
Colorado Oil and Gas Conservation Commission
1120 Lincoln Street, Suite 801
Denver, Colorado 80203

**RE: 2011 Water Quality Monitoring Program Reports
Pan Energy Project/Wattenberg Natural Gas Gathering System
Dogan, Fort Lupton, Hambert, Vollmar, Brighton, Hudson Stations
COGCC Remediation Nos. 1, 17, 18, 19, 20 and 21**

Dear Mr. Lindblom:

Enclosed are the 2011 Water Quality Monitoring Reports for the Dogan, Fort Lupton, Hambert, Vollmar, Brighton and Hudson Stations in the Wattenberg Natural Gas Gathering System. We have enclosed two hard copies and a CD of each report. TRC Companies, Inc. (TRC) is addressing historical releases at these sites in accordance with the 2001 Exit Strategy® contract between Pan Energy Corporation (PEC) and TRC. The mitigation of these releases is governed by the 1992 Compliance Order between PEC and the Colorado Oil and Gas Conservation Commission (COGCC).

TRC completed the field portion of the 2011 monitoring program April 11 - 18, 2011. Based on the laboratory analytical results, hydrocarbon concentrations in the shallow groundwater continue to decline, and the plumes are stable and/or shrinking. The monitoring results also show that, for sites where small amounts of residual free product have historically been present, the enhanced fluid recovery (EFR) conducted in 2009 and 2010 has either removed or substantially recovered the product present.

Please note that Bill Hendrix is now working with me as the Project Manager for these sites. You can reach Bill (303-395-4088) or me (303-395-4021) with any questions about these reports.

Sincerely,

Scott Reed
Principal

Bill Hendrix
Sr. Project Manager

Enclosures

cc: Phil Deisch, Spectra Energy
Ed Schicktanz, Anadarko Petroleum
Thomas Cross, Chartis Insurance
William Berig (Hambert Station only)
Ron Bock, TRC
TRC Project File 105521

2011 WATER QUALITY MONITORING REPORT



Hambert Station **Wattenberg Natural Gas Gathering System** **Weld County, Colorado** **COGCC Remediation No. 18**

Prepared for:



Colorado Oil and Gas Conservation Commission
Denver, Colorado

Prepared by:



TRC Companies, Inc.
Littleton, Colorado

June 2011

2011 WATER QUALITY MONITORING REPORT

**Hambert Station
Wattenberg Natural Gas Gathering System
Weld County, Colorado
COGCC Remediation No. 18**

Prepared for:



**Colorado Oil and Gas Conservation Commission
1120 Lincoln Street, Suite 801
Denver, Colorado 80203**

Prepared by:



**TRC Companies, Inc.
7761 Shaffer Parkway, Suite 100
Littleton, Colorado 80127**

TRC Project No. 105521.0000.0000

June 2011

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ACRONYMS AND ABBREVIATIONS

bgs	below ground surface
BTEX	benzene, toluene, ethylbenzene, xylenes
CBSGW	Colorado Basic Standards for Groundwater
COGCC	State of Colorado Oil and Gas Conservation Commission
DO	dissolved oxygen
EPA	United States Environmental Protection Agency
ft	feet, or foot
L	liter
LNAPL	light non-aqueous phase liquid
MNA	monitored natural attenuation
ORP	oxidation/reduction potential
TRC	TRC Companies, Inc.
µg	microgram

1.0 INTRODUCTION

This report presents the results of the April 2011 groundwater quality monitoring event at the Hambert Compressor Station (hereafter “Hambert Station”). The Hambert Station is located approximately eight miles south of the City of Greeley and three miles east of Gilcrest (Figure 1). The scope of work for this fluid level and water quality monitoring program is provided in the Long-Term Monitored Natural Attenuation (MNA) Work Plan (TRC, 2009), and is conducted annually as directed by the Colorado Oil and Gas Conservation Commission (COGCC) in its letter dated August 9, 2010 (COGCC, 2010).

The water quality monitoring program was designed to verify that natural attenuation is continuing to occur, and that the dissolved phase plume is stable and/or shrinking. The data are used to evaluate trends over time and gauge progress towards completing the MNA remedy in the approved Remediation Plan (Golder, 1993).

2.0 METHODOLOGY

The 2011 monitoring event included both well gauging and the collection of groundwater samples for laboratory analysis. Select wells at the facility were gauged to measure water levels and elevation and to assess the presence (or absence) of LNAPL. Groundwater samples were subsequently collected from a defined list of wells and analyzed for benzene, toluene, ethylbenzene and total xylenes (BTEX). The wells that were sampled include MW002, MW009, MW011, MW013, MW014, MW018, and MW019. Figure 2 identifies the wells that were gauged and/or sampled and their locations at the facility.

Groundwater samples were collected with a peristaltic pump using the micro-purge method with dedicated tubing. All non-dedicated and non-disposable equipment were decontaminated after use at each well.

Prior to sample collection, field parameters including pH, conductivity, temperature, oxidation/reduction potential (ORP), and dissolved oxygen (DO) were monitored via a flow-through-cell equipped with an YSI-556 multi-meter. Samples were collected after all the field parameters had stabilized. The field parameter data are presented in Table 1.

All groundwater samples were labeled and preserved as necessary, then placed in an iced cooler and delivered to Environmental Science Corporation in Mount Juliet, Tennessee for analysis. All groundwater samples were analyzed for BTEX using U.S. Environmental Protection Agency (EPA) SW-846 Method 8260B. The samples were collected, analyzed, and the data reduced in accordance with the existing Quality Assurance Plan for the Wattenberg sites (TRC, 2002). The laboratory analytical report is provided as Appendix A. The data validation Quality Control Summary Report is presented in Appendix B.

3.0 RESULTS AND INTERPRETATION

On April 13 and 14, 2011, fourteen monitoring wells were gauged and seven wells were sampled at the Hambert Station. Water levels were at their lowest levels since the 2006 event, but slightly higher when compared to the historic average water level measurements. The historical average depth to water is 10.95 feet below ground surface (bgs). The average depth to water during the 2011 event was 9.92 feet bgs. The groundwater gradient during this sampling event was calculated to be 0.010 feet per foot (ft/ft) with a flow direction to the northwest (Figure 3). This is consistent with the gradient average of 0.009 ft/ft to the northwest identified during the April 2010 event (TRC 2010).

The 2011 fluid level measuring results document that there is no residual LNAPL present in any well. LNAPL has not been detected at this site since 2003. The 2011 LNAPL levels are shown on Figure 4 and historic groundwater elevations and LNAPL thicknesses are presented in Table 2.

Groundwater samples were collected from seven wells for laboratory analysis: MW002, MW009, MW011, MW013, MW014, MW018, and MW0190. The concentration of benzene in the samples collected from MW002, MW009, and MW019 were non-detect, and therefore below the Colorado Basic Standard for Groundwater (CBSGW) of 5.0 µg/L. Benzene concentrations in MW011, MW013, MW014, and MW018 were above CBSGW. MW011 had a benzene concentration of 12 µg/L this event, slightly higher than the 7.6 µg/L recorded in April 2010, but still showing a decreasing trend over time. MW013 had a concentration of 740 µg/L, a decrease from 1,000 µg/L detected in April 2010. MW014 had a concentration of 67 µg/L, a decrease from 100 µg/L measured in April 2010. MW018 had a concentration of 18 µg/L, which is the highest detection for this well since sampling began in 2004. The benzene trends are shown graphically in Graph 1 and on Figure 4.

Dissolved-phase toluene concentrations were below laboratory detection limits (<5.0 µg/L) for all wells, and therefore below the CBSGW of 1,000 µg/L. Dissolved-phase ethylbenzene concentrations ranged from below the laboratory detection limit (<1.0 µg/L) to 510 µg/L (MW013), all below the CBSGW of 700 µg/L. Dissolved-phase total xylenes concentrations ranged from below the laboratory detection limit (<3.0 µg/L) to 3,300 µg/L (MW013), all below the CBSGW of 10,000 µg/L. Historic BTEX concentrations for all wells are presented in Table 3.

4.0 CONCLUSIONS AND RECOMMENDATIONS

A considerable number of site investigations, modeling, and remediation activities have been conducted at the Hambert Station, as summarized in the Long-Term MNA Work Plan (TRC, 2009) and detailed in reports. The capital improvements and remedial activities that were implemented at the site have been effective in preventing additional releases and in addressing the historical source areas and impacts present.

LNAPL has not been detected at the site since 2003. The plume has generally remained stable, though the concentration of benzene detected at MW018 during the 2011 event (18 µg/L) was elevated as compared to historical sample results and exceeded the CBSGW of 5 µg/L. Because this well is a point of compliance well, TRC proposes to resample the well in the fall of 2011 to verify the sample result. Because the well is within an active agricultural field, resampling before the end of the growing season is not feasible.

5.0 REFERENCES

- COGCC, 2010. *Wattenberg Gas Gathering System, Spring 2010 Water Quality Monitoring Report: Brighton Station – COGCC Remediation No. 20, Dougan Station – COGCC Remediation No. 1, Fort Lupton Station – COGCC Remediation No. 17, Hambert Station – COGCC Remediation No. 18, Hudson Station – COGCC Remediation No. 21, Vollmar Station – COGCC Remediation No. 19.* Letter from Steve Lindblom, Colorado Oil and Gas Conservation Commission, to Scott Reed, TRC Solutions, Inc. August 9, 2010.
- Golder, 1993. *Panhandle Eastern Pipeline Company, Remediation Plan, Brighton Station, Adams County, Colorado.* Prepared by Golder Associates Inc., 200 Union Boulevard, Suite 500, Lakewood, Colorado 80228. Golder Job No. 923-2477. January 1993.
- TRC, 2002. *Quality Assurance Plan.* Prepared for Pan Energy Corporation (PEC) by TRC Environmental Corporation, 7761 Shaffer Parkway, Suite 100, Littleton, Colorado 80127. April 2002.
- TRC, 2009. *Long-Term Work Plan: Monitored Natural Attenuation Program.* Prepared for the State of Colorado Oil and Gas Conservation Commission by TRC Environmental Corporation, 7761 Shaffer Parkway, Suite 100, Littleton, Colorado 80127. November 2009.
- TRC, 2010. *2010 Water Quality Monitoring Report.* Prepared for the State of Colorado Oil and Gas Conservation Commission by TRC Environmental Corporation, 7761 Shaffer Parkway, Suite 100, Littleton, Colorado 80127. July 2010.

TABLES

TABLE 1
FIELD PARAMETERS
HAMBERT COMPRESSOR STATION
WELD COUNTY, COLORADO

Well ID	Sample Date	Temp (C)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	pH	ORP (mV)
MW002	4/14/11	10.18	1.178	0.52	7.46	-21
MW009	4/14/11	9.20	4.132*	0.42	7.18	-75.0
MW011	4/13/11	9.65	1.432	0.14	7.93	-213.0
MW013	4/13/11	10.91	1.639	0.27	7.79	-191.3
MW014	4/13/11	11.34	1.596	0.15	7.78	-203.1
MW018	4/13/11	10.55	1.779	0.30	7.42	-63.0
MW019	4/13/11	12.08	1.359	0.27	7.75	17.5

mS/cm = milliSiemens per centimeter

mg/L = milligrams per Liter

mV = millivolts

* = Conductivity probe drifting and suspected to be inaccurate

Table 2

Historic Groundwater Elevations and LNAPL Thickness
Hambert Compressor Station, Weld County, Colorado

Well ID	Date of Measurement	Reference Elevation (feet)	Depth to LNAPL (feet)	Depth to Water (feet)	LNAPL Thickness (feet)	Measured GW Elevation (feet)	Corrected GW Elevation* (feet)	Comments
MW001	3/16/1992	106.91	ND	20.66		86.25	86.25	
	3/18/1992	106.91	ND	20.69		86.22	86.22	
	3/24/1992	106.91	ND	20.52		86.39	86.39	
	3/31/1992	106.91	ND	20.64		86.27	86.27	
	5/21/1992	106.91	ND	20.16		86.75	86.75	
	6/8/1992	106.91	ND	20.17		86.74	86.74	
	7/21/1992	106.91	ND	19.95		86.96	86.96	
	8/27/1992	106.91	ND	20.19		86.72	86.72	
	9/25/1992	106.91	ND	19.92		86.99	86.99	
	10/20/1992	106.91	ND	19.73		87.18	87.18	
	11/3/1992	106.91	ND	19.66		87.25	87.25	
	6/23/1993	106.91	ND	19.55		87.36	87.36	
	12/15/1993	106.91	ND	18.66		88.25	88.25	
	6/29/1994	106.91	ND	18.60		88.31	88.31	
	12/7/1994	106.91	ND	17.19		89.72	89.72	
	5/31/1995	106.91	ND	17.68		89.23	89.23	
	1/15/1996	106.91	ND	17.43		89.48	89.48	
	7/8/1996	106.91	ND	17.29		89.62	89.62	
	1/30/1997	106.91	ND	17.24		89.67	89.67	
	7/9/1997	106.91	ND	15.82		91.09	91.09	
	9/10/1997	106.91	ND	15.45		91.46	91.46	
	9/19/1997	106.91	ND	15.41		91.50	91.50	
	10/22/1997	106.91	ND	15.26		91.65	91.65	
	11/11/1997	106.91	ND	15.20		91.71	91.71	
	11/19/1997	106.91	ND	15.19		91.72	91.72	
	3/25/1998	106.91	ND	16.22		90.69	90.69	
	1/26/1999	106.91	ND	16.52		90.39	90.39	
	2/25/1999	106.91	ND	16.60		90.31	90.31	
	3/26/1999	106.91	ND	16.41		90.50	90.50	
	4/29/1999	106.91	ND	16.23		90.68	90.68	
	5/27/1999	106.91	ND	15.06		91.85	91.85	
	6/24/1999	106.91	ND	14.59		92.32	92.32	
	7/23/1999	106.91	ND	14.68		92.23	92.23	
	8/26/1999	106.91	ND	14.45		92.46	92.46	
	9/23/1999	106.91	ND	14.77		92.14	92.14	
	10/12/1999	106.91	ND	15.04		91.87	91.87	
	11/29/1999	106.91	ND	15.52		91.39	91.39	
	1/31/2000	106.91	ND	16.14		90.77	90.77	
	4/6/2000	106.91	ND	16.32		90.59	90.59	
	7/12/2000	106.91	ND	15.87		91.04	91.04	
	10/5/2000	106.91	ND	16.89		90.02	90.02	
	1/25/2001	106.91	ND	16.21		90.70	90.70	
	4/17/2001	106.91	ND	16.32		90.59	90.59	
	7/3/2001	106.91	ND	16.58		90.33	90.33	
	11/7/2001	106.91	ND	16.26		90.65	90.65	
	3/19/2002	106.91	ND	17.10		89.81	89.81	
	12/23/2002	106.91	ND	19.81		87.10	87.10	
	2/27/2003	106.91	ND	20.37		86.54	86.54	
	4/2/2003	106.91	ND	20.41		86.50	86.50	
	5/1/2003	106.91	ND	19.91		87.00	87.00	
	6/10/2003	106.91	ND	18.83		88.08	88.08	
	7/2/2003	106.91	ND	18.26		88.65	88.65	
	7/23/2003	106.91	ND	18.12		88.79	88.79	
	8/27/2003	106.91	ND	18.54		88.37	88.37	
	10/7/2003	106.91	ND	18.84		88.07	88.07	
	11/20/2003	106.91	ND	19.18		87.73	87.73	
	2/9/2004	106.91	ND	19.22		87.69	87.69	
	3/4/2004	106.91	ND	18.80		88.11	88.11	
	5/10/2004	106.91	ND	18.01		88.90	88.90	
	6/2/2004	106.91	ND	17.99		88.92	88.92	
	7/19/2004	106.91	ND	17.81		89.10	89.10	
	8/19/2004	106.91	ND	17.69		89.22	89.22	
	10/18/2004	106.91	ND	17.99		88.92	88.92	
	4/24/2006	106.91	NM	NM				
	4/30/2007	106.91	ND	17.08		89.83	89.83	
	3/21/2008	106.91	ND	16.49		90.42	90.42	

Table 2

Historic Groundwater Elevations and LNAPL Thickness
Hambert Compressor Station, Weld County, Colorado

Well ID	Date of Measurement	Reference Elevation (feet)	Depth to LNAPL (feet)	Depth to Water (feet)	LNAPL Thickness (feet)	Measured GW Elevation (feet)	Corrected GW Elevation* (feet)	Comments
MW002	3/16/1992	100.03	ND	17.04		82.99	82.99	
	3/18/1992	100.03	ND	16.88		83.15	83.15	
	3/24/1992	100.03	ND	16.74		83.29	83.29	
	3/31/1992	100.03	ND	16.56		83.47	83.47	
	5/21/1992	100.03	ND	15.72		84.31	84.31	
	7/21/1992	100.03	ND	15.29		84.74	84.74	
	8/27/1992	100.03	ND	15.51		84.52	84.52	
	9/25/1992	100.03	ND	14.76		85.27	85.27	
	10/20/1992	100.03	ND	14.71		85.32	85.32	
	11/3/1992	100.03	ND	14.88		85.15	85.15	
	6/23/1993	100.03	ND	15.02		85.01	85.01	
	12/15/1993	100.03	ND	14.10		85.93	85.93	
	6/28/1994	100.03	ND	12.28		87.75	87.75	
	12/7/1994	100.03	ND	12.15		87.88	87.88	
	5/31/1995	100.03	ND	13.07		86.96	86.96	
	1/15/1996	100.03	ND	13.78		86.25	86.25	
	7/8/1996	100.03	ND	12.80		87.23	87.23	
	1/30/1997	100.03	ND	12.42		87.61	87.61	
	7/9/1997	100.03	ND	11.36		88.67	88.67	
	9/10/1997	100.03	ND	10.76		89.27	89.27	
	9/19/1997	100.03	ND	11.22		88.81	88.81	
	10/22/1997	100.03	ND	10.84		89.19	89.19	
	11/11/1997	100.03	ND	11.15		88.88	88.88	
	11/19/1997	100.03	ND	11.22		88.81	88.81	
	3/25/1998	100.03	ND	12.91		87.12	87.12	
	10/6/1998	100.03	ND	11.35		88.68	88.68	
	11/5/1998	100.03	ND	12.11		87.92	87.92	
	1/26/1999	100.03	ND	13.78		86.25	86.25	
	2/25/1999	100.03	ND	13.41		86.62	86.62	
	3/26/1999	100.03	ND	12.90		87.13	87.13	
	4/29/1999	100.03	ND	12.60		87.43	87.43	
	5/27/1999	100.03	ND	11.46		88.57	88.57	
	6/24/1999	100.03	ND	10.76		89.27	89.27	
	7/23/1999	100.03	ND	10.92		89.11	89.11	
	8/26/1999	100.03	ND	10.68		89.35	89.35	
	9/23/1999	100.03	ND	11.51		88.52	88.52	
	10/12/1999	100.03	ND	11.95		88.08	88.08	
	11/29/1999	100.03	ND	12.18		87.85	87.85	*
	1/31/2000	100.03	ND	13.44		86.59	86.59	
	4/6/2000	100.03	ND	13.44		86.59	86.59	
	7/12/2000	100.03	ND	12.41		87.62	87.62	
	10/5/2000	100.03	ND	13.80		86.23	86.23	
	1/25/2001	100.03	ND	12.16		87.87	87.87	
	4/17/2001	100.03	ND	12.72		87.31	87.31	
	7/3/2001	100.03	ND	13.14		86.89	86.89	
	11/7/2001	100.03	ND	12.04		87.99	87.99	
	3/19/2002	100.03	ND	13.41		86.62	86.62	
	12/23/2002	100.03	17.65	18.83	1.18	81.20	82.14	
	1/10/2003	100.03	17.84	18.97	1.13	81.06	81.96	
	2/27/2003	100.03	18.26	19.45	1.19	80.58	81.53	
	4/2/2003	100.03	17.54	18.40	0.86	81.63	82.32	
	4/30/2003	100.04	16.36	16.53	0.17	83.51	83.65	
	6/10/2003	100.04	ND	14.28		85.76	85.76	
	7/2/2003	100.04	ND	13.62		86.42	86.42	
	7/23/2003	100.04	ND	14.30		85.74	85.74	
	8/27/2003	100.04	ND	15.36		84.68	84.68	
	10/8/2003	100.04	ND	15.92		84.12	84.12	
	11/20/2003	100.04	ND	16.12		83.92	83.92	
	2/9/2004	100.04	ND	15.48		84.56	84.56	
	3/4/2004	100.04	ND	14.52		85.52	85.52	
	5/6/2004	100.04	ND	14.02		86.02	86.02	**
	6/2/2004	100.04	ND	13.92		86.12	86.12	
	7/19/2004	100.04	ND	13.81		86.23	86.23	
	8/19/2004	100.04	ND	13.57		86.47	86.47	
	10/15/2004	100.04	ND	14.48		85.56	85.56	
	4/24/2006	100.04	NM	NM				
	4/30/2007	100.04	ND	12.17		87.87	87.87	
	3/21/2008	100.04	ND	12.12		87.92	87.92	
	4/27/2010	100.04	ND	8.32		91.72	91.72	
	4/14/2011	100.04	ND	10.92		89.12	89.12	

Table 2

Historic Groundwater Elevations and LNAPL Thickness
Hambert Compressor Station, Weld County, Colorado

Well ID	Date of Measurement	Reference Elevation (feet)	Depth to LNAPL (feet)	Depth to Water (feet)	LNAPL Thickness (feet)	Measured GW Elevation (feet)	Corrected GW Elevation* (feet)	Comments
MW003	3/16/1992	100.00	ND	17.38		82.62	82.62	
	3/18/1992	100.00	ND	17.41		82.59	82.59	
	3/24/1992	100.00	ND	17.11		82.89	82.89	
	3/31/1992	100.00	ND	16.90		83.10	83.10	
	5/21/1992	100.00	ND	15.98		84.02	84.02	
	7/21/1992	100.00	ND	15.57		84.43	84.43	
	8/27/1992	100.00	ND	15.80		84.20	84.20	
	9/25/1992	100.00	ND	14.96		85.04	85.04	
	10/20/1992	100.00	ND	14.96		85.04	85.04	
	11/3/1992	100.00	ND	15.15		84.85	84.85	
	6/23/1993	100.00	ND	15.29		84.71	84.71	
	12/15/1993	100.00	ND	14.38		85.62	85.62	
	6/28/1994	100.00	ND	12.35		87.65	87.65	
	12/7/1994	100.00	ND	12.38		87.62	87.62	
	5/31/1995	100.00	ND	13.36		86.64	86.64	
	1/15/1996	100.00	ND	14.11		85.89	85.89	
	7/8/1996	100.00	ND	13.08		86.92	86.92	
	1/30/1997	100.00	ND	12.58		87.42	87.42	
	7/9/1997	100.00	ND	11.55		88.45	88.45	
	9/10/1997	100.00	ND	11.06		88.94	88.94	
	9/19/1997	100.00	ND	11.52		88.48	88.48	
	10/22/1997	100.00	ND	11.08		88.92	88.92	
	11/11/1997	100.00	ND	11.46		88.54	88.54	
	11/19/1997	100.00	ND	11.54		88.46	88.46	
	3/25/1998	100.00	ND	13.25		86.75	86.75	
	10/6/1998	100.00	ND	11.59		88.41	88.41	
	11/5/1998	100.00	ND	12.47		87.53	87.53	
	1/26/1999	100.00	ND	14.19		85.81	85.81	
	2/25/1999	100.00	ND	13.76		86.24	86.24	
	3/26/1999	100.00	ND	13.21		86.79	86.79	
	4/29/1999	100.00	ND	12.97		87.03	87.03	
	5/27/1999	100.00	ND	11.81		88.19	88.19	
	6/24/1999	100.00	ND	11.10		88.90	88.90	
	7/23/1999	100.00	ND	11.34		88.66	88.66	
	8/26/1999	100.00	ND	11.00		89.00	89.00	
	9/23/1999	100.00	ND	11.87		88.13	88.13	
	10/12/1999	100.00	ND	12.34		87.66	87.66	
	11/29/1999	100.00	ND	12.54		87.46	87.46	
	1/31/2000	100.00	ND	13.87		86.13	86.13	
	4/6/2000	100.00	ND	13.49		86.51	86.51	
	7/12/2000	100.00	ND	12.79		87.21	87.21	
	10/5/2000	100.00	ND	14.15		85.85	85.85	
	1/25/2001	100.00	ND	12.41		87.59	87.59	
	4/17/2001	100.00	ND	13.05		86.95	86.95	
	7/3/2001	100.00	ND	13.51		86.49	86.49	
	11/7/2001	100.00	ND	12.29		87.71	87.71	
	3/20/2002	100.00	ND	13.74		86.26	86.26	
	12/23/2002	100.00	17.87	19.73	1.86	80.27	81.76	
	1/10/2003	100.00	ND	18.57		81.43	81.43	
	5/1/2003	100.01	ND	16.57		83.44	83.44	
	6/10/2003	100.01	ND	14.41		85.60	85.60	
	6/13/2003	100.01	ND	14.31		85.70	85.70	
	7/2/2003	100.01	ND	13.81		86.20	86.20	
	7/24/2003	100.01	ND	14.59		85.42	85.42	
	8/27/2003	100.01	ND	15.69		84.32	84.32	
	10/7/2003	100.01	ND	16.23		83.78	83.78	
	11/20/2003	100.01	ND	16.43		83.58	83.58	
	2/9/2004	100.01	ND	15.68		84.33	84.33	
	3/4/2004	100.01	ND	14.69		85.32	85.32	
	5/6/2004	100.01	ND	14.29		85.72	85.72	
	6/2/2004	100.01	ND	14.18		85.83	85.83	
	7/19/2004	100.01	ND	14.00		86.01	86.01	
	8/19/2004	100.01	ND	13.82		86.19	86.19	
	10/15/2004	100.01	ND	14.82		85.19	85.19	
	4/24/2006	100.01	NM	NM				
	4/30/2007	100.01	ND	12.38		87.63	87.63	
	3/21/2008	100.01	ND	12.34		87.67	87.67	
	4/27/2010	100.01	ND	8.61		91.40	91.40	
	4/14/2011	100.01	ND	11.32		88.69	88.69	

Table 2

Historic Groundwater Elevations and LNAPL Thickness
Hambert Compressor Station, Weld County, Colorado

Well ID	Date of Measurement	Reference Elevation (feet)	Depth to LNAPL (feet)	Depth to Water (feet)	LNAPL Thickness (feet)	Measured GW Elevation (feet)	Corrected GW Elevation* (feet)	Comments
MW004	6/23/1993	97.91	ND	13.47		84.44	84.44	
	12/15/1993	97.91	ND	12.60		85.31	85.31	
	6/28/1994	97.91	ND	10.31		87.60	87.60	
	12/7/1994	97.91	ND	10.55		87.36	87.36	
	5/31/1995	97.91	ND	11.57		86.34	86.34	
	1/15/1996	97.91	ND	12.41		85.50	85.50	
	7/8/1996	97.91	ND	11.26		86.65	86.65	
	1/30/1997	97.91	ND	10.65		87.26	87.26	
	7/9/1997	97.91	ND	9.88		88.03	88.03	
	9/10/1997	97.91	ND	9.29		88.62	88.62	
	9/19/1997	97.91	ND	9.79		88.12	88.12	
	10/22/1997	97.91	ND	9.28		88.63	88.63	
	11/11/1997	97.91	ND	9.71		88.20	88.20	
	11/19/1997	97.91	ND	9.80		88.11	88.11	
	3/25/1998	97.91	ND	11.57		86.34	86.34	
	10/6/1998	97.91	ND	9.79		88.12	88.12	
	11/5/1998	97.91	ND	10.79		87.12	87.12	
	1/26/1999	97.91	ND	12.60		85.31	85.31	
	2/25/1999	97.91	ND	12.08		85.83	85.83	
	3/26/1999	97.91	ND	11.49		86.42	86.42	
	4/29/1999	97.91	ND	11.30		86.61	86.61	
	5/27/1999	97.91	ND	10.12		87.79	87.79	
	6/24/1999	97.91	ND	9.37		88.54	88.54	
	7/23/1999	97.91	ND	9.51		88.40	88.40	
	8/26/1999	97.91	ND	9.28		88.63	88.63	
	9/23/1999	97.91	ND	10.20		87.71	87.71	
	10/12/1999	97.91	ND	10.68		87.23	87.23	
	11/29/1999	97.91	ND	10.86		87.05	87.05	
	1/31/2000	97.91	ND	12.30		85.61	85.61	
	4/6/2000	97.91	ND	11.81		86.10	86.10	
	7/12/2000	97.91	ND	11.10		86.81	86.81	
	10/5/2000	97.91	ND	12.51		85.40	85.40	
	1/25/2001	97.91	ND	10.62		87.29	87.29	
	4/17/2001	97.91	ND	11.34		86.57	86.57	
	7/3/2001	97.91	ND	11.86		86.05	86.05	
	11/7/2001	97.91	ND	10.52		87.39	87.39	
	3/20/2002	97.91	ND	12.04		85.87	85.87	
	12/23/2002	97.91	16.11	18.37	2.26	79.54	81.35	
	1/10/2003	97.91	16.84	18.44	1.60	79.47	80.75	
	2/27/2003	97.91	16.92	18.47	1.55	79.44	80.68	
	4/2/2003	97.91	16.02	17.05	1.03	80.86	81.68	
	4/30/2003	97.89	14.71	14.73	0.02	83.16	83.18	
	6/10/2003	97.89	ND	12.57		85.32	85.32	
	6/13/2003	97.89	ND	12.43		85.46	85.46	
	7/2/2003	97.89	ND	11.95		85.94	85.94	
	7/24/2003	97.89	ND	12.87		85.02	85.02	
	8/27/2003	97.89	ND	13.97		83.92	83.92	
	10/8/2003	97.89	ND	14.56		83.33	83.33	
	11/20/2003	97.89	ND	14.70		83.19	83.19	
	2/9/2004	97.89	ND	13.86		84.03	84.03	
	3/4/2004	97.89	ND	12.75		85.14	85.14	
	5/6/2004	97.89	ND	12.52		85.37	85.37	
	6/2/2004	97.89	ND	12.37		85.52	85.52	
	7/19/2004	97.89	ND	12.34		85.55	85.55	
	8/19/2004	97.89	ND	12.01		85.88	85.88	
	10/15/2004	97.89	ND	13.03		84.86	84.86	
	4/24/2006	97.89	NM	NM				
	4/30/2007	97.89	ND	10.51		87.38	87.38	
	3/21/2008	97.89	ND	10.49		87.40	87.40	
	4/27/2010	97.89	ND	6.81		91.08	91.08	
	4/14/2011	97.89	ND	9.64		88.25	88.25	

Table 2

Historic Groundwater Elevations and LNAPL Thickness
Hambert Compressor Station, Weld County, Colorado

Well ID	Date of Measurement	Reference Elevation (feet)	Depth to LNAPL (feet)	Depth to Water (feet)	LNAPL Thickness (feet)	Measured GW Elevation (feet)	Corrected GW Elevation* (feet)	Comments
MW005	6/23/1993	98.08	ND	13.22		84.86	84.86	
	12/15/1993	98.08	ND	12.33		85.75	85.75	
	6/28/1994	98.08	ND	10.20		87.88	87.88	
	12/7/1994	98.08	ND	10.34		87.74	87.74	
	5/31/1995	98.08	ND	11.30		86.78	86.78	
	1/15/1996	98.08	ND	12.09		85.99	85.99	
	7/8/1996	98.08	ND	11.04		87.04	87.04	
	1/30/1997	98.08	ND	10.59		87.49	87.49	
	7/9/1997	98.08	ND	9.62		88.46	88.46	
	9/10/1997	98.08	ND	8.98		89.10	89.10	
	9/19/1997	98.08	ND	9.50		88.58	88.58	
	10/22/1997	98.08	ND	9.10		88.98	88.98	
	11/11/1997	98.08	ND	9.45		88.63	88.63	
	11/19/1997	98.08	ND	9.52		88.56	88.56	
	3/25/1998	98.08	ND	11.23		86.85	86.85	
	10/6/1998	98.08	ND	9.62		88.46	88.46	
	11/5/1998	98.08	ND	10.47		87.61	87.61	
	1/26/1999	98.08	ND	12.18		85.90	85.90	
	2/25/1999	98.08	ND	11.76		86.32	86.32	
	3/26/1999	98.08	ND	11.22		86.86	86.86	
	4/29/1999	98.08	ND	10.89		87.19	87.19	
	5/27/1999	98.08	ND	9.81		88.27	88.27	
	6/24/1999	98.08	ND	8.07		90.01	90.01	
	7/23/1999	98.08	ND	9.23		88.85	88.85	*
	8/26/1999	98.08	ND	8.88		89.20	89.20	*
	9/23/1999	98.08	ND	9.86		88.22	88.22	
	10/12/1999	98.08	ND	10.31		87.77	87.77	
	11/29/1999	98.08	ND	10.54		87.54	87.54	
	1/31/2000	98.08	ND	11.86		86.22	86.22	
	4/6/2000	98.08	ND	11.50		86.58	86.58	
	7/12/2000	98.08	ND	10.73		87.35	87.35	
	10/5/2000	98.08	ND	12.16		85.92	85.92	
	1/25/2001	98.08	ND	10.42		87.66	87.66	
	4/17/2001	98.08	ND	11.05		87.03	87.03	
	7/13/2001	98.08	ND	11.50		86.58	86.58	
	11/7/2001	98.08	ND	10.30		87.78	87.78	
	3/20/2002	98.08	ND	11.71		86.37	86.37	
	12/23/2002	98.08	ND	16.37		81.71	81.71	
	1/10/2003	98.08	ND	16.55		81.53	81.53	
	2/27/2003	98.08	ND	16.97		81.11	81.11	
	4/2/2003	98.08	ND	16.08		82.00	82.00	
	5/1/2003	98.08	ND	14.60		83.48	83.48	
	6/10/2003	98.08	ND	12.43		85.65	85.65	
	7/2/2003	98.08	ND	11.79		86.29	86.29	
	7/24/2003	98.08	ND	12.55		85.53	85.53	
	8/27/2003	98.08	ND	13.65		84.43	84.43	
	10/8/2003	98.08	ND	14.20		83.88	83.88	
	11/20/2003	98.08	ND	14.40		83.68	83.68	
	2/9/2004	98.08	ND	13.68		84.40	84.40	
	3/4/2004	98.08	ND	12.69		85.39	85.39	
	5/10/2004	98.08	ND	12.40		85.68	85.68	
	6/2/2004	98.08	ND	12.13		85.95	85.95	
	7/19/2004	98.08	ND	12.03		86.05	86.05	
	8/19/2004	98.08	ND	11.78		86.30	86.30	
	10/15/2004	98.08	ND	12.74		85.34	85.34	
	4/24/2006	98.08	NM	NM				
	4/30/2007	98.08	ND	10.32		87.76	87.76	
	3/21/2008	98.08	ND	10.32		87.76	87.76	
	4/27/2010	98.08	ND	6.52		91.56	91.56	
	4/14/2011	98.08	ND	9.28		88.80	88.80	

Table 2

Historic Groundwater Elevations and LNAPL Thickness
Hambert Compressor Station, Weld County, Colorado

Well ID	Date of Measurement	Reference Elevation (feet)	Depth to LNAPL (feet)	Depth to Water (feet)	LNAPL Thickness (feet)	Measured GW Elevation (feet)	Corrected GW Elevation* (feet)	Comments
MW006	6/23/1993	101.23	ND	15.29		85.94	85.94	
	12/15/1993	101.23	ND	15.30		85.93	85.93	
	6/28/1994	101.23	ND	15.08		86.15	86.15	
	12/7/1994	101.23	ND	13.50		87.73	87.73	
	5/31/1995	101.23	ND	14.39		86.84	86.84	
	1/15/1996	101.23	ND	14.62		86.61	86.61	
	7/8/1996	101.23	ND	14.00		87.23	87.23	
	1/30/1997	101.23	ND	13.67		87.56	87.56	
	7/9/1997	101.23	ND	12.52		88.71	88.71	
	9/10/1997	101.23	ND	12.13		89.10	89.10	
	9/19/1997	101.23	ND	12.18		89.05	89.05	
	10/22/1997	101.23	ND	11.82		89.41	89.41	
	11/11/1997	101.23	ND	12.04		89.19	89.19	
	11/19/1997	101.23	ND	12.08		89.15	89.15	
	3/25/1998	101.23	ND	13.59		87.64	87.64	
	10/6/1998	101.23	ND	12.13		89.10	89.10	
	11/5/1998	101.23	ND	12.70		88.53	88.53	
	1/26/1999	101.23	ND	14.23		87.00	87.00	
	2/25/1999	101.23	ND	14.04		87.19	87.19	
	3/26/1999	101.23	ND	13.61		87.62	87.62	
	4/29/1999	101.23	ND	13.46		87.77	87.77	
	5/27/1999	101.23	ND	12.14		89.09	89.09	
	6/24/1999	101.23	ND	11.64		89.59	89.59	
	7/23/1999	101.23	ND	11.72		89.51	89.51	
	8/26/1999	101.23	ND	11.32		89.91	89.91	
	9/23/1999	101.23	ND	11.93		89.30	89.30	
	10/12/1999	101.23	ND	12.42		88.81	88.81	
	11/29/1999	101.23	ND	12.81		88.42	88.42	
	1/31/2000	101.23	ND	13.98		87.25	87.25	
	4/6/2000	101.23	ND	13.81		87.42	87.42	
	7/12/2000	101.23	ND	13.18		88.05	88.05	
	10/5/2000	101.23	ND	14.35		86.88	86.88	
	1/25/2001	101.23	ND	13.07		88.16	88.16	
	4/17/2001	101.23	ND	13.47		87.76	87.76	
	7/3/2001	101.23	ND	13.88		87.35	87.35	
	11/7/2001	101.23	ND	12.98		88.25	88.25	
	3/20/2002	101.23	ND	14.22		87.01	87.01	
	12/23/2002	101.23	17.63	19.45	1.82	81.78	83.24	
	1/10/2003	101.23	17.78	19.70	1.92	81.53	83.07	
	2/27/2003	101.23	18.16	20.22	2.06	81.01	82.66	
	4/2/2003	101.23	17.81	19.29	1.48	81.94	83.12	
	5/1/2003	101.23	17.07	18.38	1.31	82.85	83.90	
	6/10/2003	101.23	ND	15.29		85.94	85.94	
	6/13/2003	101.23	ND	15.18		86.05	86.05	
	7/2/2003	101.23	ND	14.66		86.57	86.57	
	7/23/2003	101.23	ND	14.99		86.24	86.24	
	10/7/2003	101.23	ND	16.31		84.92	84.92	
	11/20/2003	101.23	ND	16.71		84.52	84.52	
	2/9/2004	101.23	ND	16.32		84.91	84.91	
	3/4/2004	101.23	ND	15.55		85.68	85.68	
	5/6/2004	101.23	ND	14.86		86.37	86.37	
	6/2/2004	101.23	ND	14.85		86.38	86.38	
	7/19/2004	101.23	ND	14.62		86.61	86.61	
	8/19/2004	101.23	ND	14.44		86.79	86.79	
	8/27/2003	101.23	ND	15.82		85.41	85.41	
	10/15/2004	101.23	ND	15.16		86.07	86.07	
	4/24/2006	101.23	NM	NM				
	4/30/2007	101.23	ND	13.44		87.79	87.79	
	3/21/2008	101.23	ND	13.08		88.15	88.15	

Table 2

Historic Groundwater Elevations and LNAPL Thickness
Hambert Compressor Station, Weld County, Colorado

Well ID	Date of Measurement	Reference Elevation (feet)	Depth to LNAPL (feet)	Depth to Water (feet)	LNAPL Thickness (feet)	Measured GW Elevation (feet)	Corrected GW Elevation* (feet)	Comments
MW007	9/10/1997	97.33	ND	10.98		86.35	86.35	
	9/19/1997	97.33	ND	11.23		86.10	86.10	
	10/20/1997	97.33	ND	10.80		86.53	86.53	
	10/22/1997	97.33	ND	10.68		86.65	86.65	
	11/11/1997	97.33	ND	11.20		86.13	86.13	
	11/19/1997	97.33	ND	11.29		86.04	86.04	
	3/24/1998	97.33	ND	11.47		85.86	85.86	
	10/6/1998	97.33	9.42	9.43	0.01	87.90	87.91	
	11/5/1998	97.33	ND	10.52		86.81	86.81	
	1/26/1999	97.33	ND	12.41		84.92	84.92	
	2/25/1999	97.33	ND	11.98		85.35	85.35	
	3/26/1999	97.33	ND	11.23		86.10	86.10	
	4/29/1999	97.33	ND	11.21		86.12	86.12	
	5/27/1999	97.33	ND	9.85		87.48	87.48	
	6/24/1999	97.33	ND	9.22		88.11	88.11	
	7/23/1999	97.33	ND	9.21		88.12	88.12	
	8/26/1999	97.33	ND	9.01		88.32	88.32	
	9/23/1999	97.33	ND	9.86		87.47	87.47	
	10/12/1999	97.33	ND	10.42		86.91	86.91	
	11/29/1999	97.33	ND	10.41		86.92	86.92	
	1/31/2000	97.33	ND	11.63		85.70	85.70	
	4/6/2000	97.33	ND	11.61		85.72	85.72	
	7/12/2000	97.33	ND	10.92		86.41	86.41	
	10/5/2000	97.33	ND	12.27		85.06	85.06	
	1/25/2001	97.33	ND	10.32		87.01	87.01	
	4/17/2001	97.33	ND	11.08		86.25	86.25	
	7/3/2001	97.33	ND	11.66		85.67	85.67	
	11/7/2001	97.33	ND	10.22		87.11	87.11	
	3/19/2002	97.33	ND	11.72		85.61	85.61	
	12/23/2002	97.33	15.92	18.08	2.16	79.25	80.98	
	2/27/2003	97.33	16.67	18.31	1.64	79.02	80.33	
	4/30/2003	96.32	13.44	14.22	0.78	82.10	82.72	
	6/23/2003	96.32	ND	11.03		85.29	85.29	
	7/28/2003	96.32	ND	11.79		84.53	84.53	
	8/27/2003	96.32	ND	12.72		83.60	83.60	
	10/9/2003	96.32	ND	13.42		82.90	82.90	
	11/20/2003	96.32	ND	13.61		82.71	82.71	
	2/9/2004	96.32	ND	12.87		83.45	83.45	
	3/5/2004	96.32	ND	11.61		84.71	84.71	
	5/10/2004	96.32	ND	11.57		84.75	84.75	
	6/7/2004	96.32	ND	11.48		84.84	84.84	
	7/19/2004	96.32	ND	11.20		85.12	85.12	
	8/19/2004	96.32	ND	10.98		85.34	85.34	
	10/18/2004	96.32	ND	11.93		84.39	84.39	
	4/24/2006	96.32	NM	NM				
	4/30/2007	96.32	ND	9.44		86.88	86.88	
	3/21/2008	96.32	ND	9.36		86.96	86.96	
	4/27/2010	96.32	ND	5.91		90.41	90.41	
	4/14/2011	96.32	ND	8.63		87.69	87.69	

Table 2

Historic Groundwater Elevations and LNAPL Thickness
Hambert Compressor Station, Weld County, Colorado

Well ID	Date of Measurement	Reference Elevation (feet)	Depth to LNAPL (feet)	Depth to Water (feet)	LNAPL Thickness (feet)	Measured GW Elevation (feet)	Corrected GW Elevation* (feet)	Comments
MW008	10/20/1997	98.34	ND	13.01		85.33	85.33	
	10/22/1997	98.34	ND	12.91		85.43	85.43	
	11/11/1997	98.34	ND	13.92		84.42	84.42	
	11/19/1997	98.34	ND	14.12		84.22	84.22	
	3/24/1998	98.34	ND	14.22		84.12	84.12	
	10/6/1998	98.34	11.71	11.72	0.01	86.62	86.63	
	11/5/1998	98.34	ND	13.73		84.61	84.61	
	1/26/1999	98.34	ND	15.97		82.37	82.37	
	2/25/1999	98.34	ND	14.75		83.59	83.59	
	3/26/1999	98.34	ND	13.80		84.54	84.54	
	4/29/1999	98.34	ND	14.26		84.08	84.08	
	5/27/1999	98.34	ND	12.79		85.55	85.55	
	6/24/1999	98.34	ND	12.15		86.19	86.19	
	7/23/1999	98.34	ND	11.86		86.48	86.48	
	8/26/1999	98.34	ND	12.02		86.32	86.32	
	9/23/1999	98.34	ND	13.20		85.14	85.14	
	10/12/1999	98.34	ND	13.85		84.49	84.49	
	11/29/1999	98.34	ND	13.62		84.72	84.72	
	1/31/2000	98.34	ND	15.68		82.66	82.66	
	4/6/2000	98.34	ND	14.21		84.13	84.13	
	7/12/2000	98.34	ND	14.02		84.32	84.32	
	10/5/2000	98.34	ND	15.43		82.91	82.91	
	1/25/2001	98.34	ND	12.71		85.63	85.63	
	4/17/2001	98.34	ND	13.88		84.46	84.46	
	7/3/2001	98.34	ND	14.64		83.70	83.70	
	11/7/2001	98.34	ND	12.51		85.83	85.83	
	3/19/2002	98.34	ND	14.54		83.80	83.80	
	12/23/2002	98.34	19.63	20.05	0.42	78.29	78.63	
	2/27/2003	98.34	ND	19.98		78.36	78.36	
	4/30/2003	98.34	ND	16.11		82.23	82.23	
	6/23/2003	98.34	ND	12.33		86.01	86.01	
	7/24/2003	98.34	ND	14.16		84.18	84.18	
	8/27/2003	97.10	ND	15.69		81.41	81.41	
	10/8/2003	97.10	ND	16.39		80.71	80.71	
	11/20/2003	97.10	ND	16.54		80.56	80.56	
	2/9/2004	97.10	ND	14.91		82.19	82.19	
	3/5/2004	97.10	ND	12.85		84.25	84.25	
	5/9/2004	97.10	ND	14.00		83.10	83.10	
	6/7/2004	97.10	ND	13.72		83.38	83.38	
	7/19/2004	97.10	ND	13.70		83.40	83.40	
	8/20/2004	97.10	ND	13.11		83.99	83.99	
	10/18/2004	97.10	ND	14.70		82.40	82.40	
	4/24/2006	97.10	NM	NM				
	4/30/2007	97.10	ND	11.18		85.92	85.92	
	3/21/2008	97.10	ND	11.52		85.58	85.58	
	4/27/2010	97.10	ND	8.43		88.67	88.67	
	4/13/2011	97.10	ND	11.75		85.35	85.35	

Table 2

Historic Groundwater Elevations and LNAPL Thickness
Hambert Compressor Station, Weld County, Colorado

Well ID	Date of Measurement	Reference Elevation (feet)	Depth to LNAPL (feet)	Depth to Water (feet)	LNAPL Thickness (feet)	Measured GW Elevation (feet)	Corrected GW Elevation* (feet)	Comments
MW009	11/11/1997	99.35	ND	13.12		86.23	86.23	
	11/19/1997	99.35	ND	13.26		86.09	86.09	
	3/24/1998	99.35	ND	13.82		85.53	85.53	
	10/6/1998	99.35	11.68	11.68		87.67	87.67	
	11/5/1998	99.35	ND	12.99		86.36	86.36	
	1/26/1999	99.35	ND	14.98		84.37	84.37	
	2/25/1999	99.35	ND	14.22		85.13	85.13	
	3/26/1999	99.35	ND	13.51		85.84	85.84	
	4/29/1999	99.35	ND	13.68		85.67	85.67	
	5/27/1999	99.35	ND	12.25		87.10	87.10	
	6/24/1999	99.35	ND	11.79		87.56	87.56	
	7/23/1999	99.35	ND	11.61		87.74	87.74	
	8/26/1999	99.35	ND	11.45		87.90	87.90	
	9/23/1999	99.35	ND	12.30		87.05	87.05	
	10/12/1999	99.35	ND	12.95		86.40	86.40	
	11/29/1999	99.35	ND	12.93		86.42	86.42	
	1/31/2000	99.35	ND	14.11		85.24	85.24	
	4/6/2000	99.35	ND	13.90		85.45	85.45	
	7/12/2000	99.35	ND	13.40		85.95	85.95	
	10/5/2000	99.35	ND	14.76		84.59	84.59	
	1/25/2001	99.35	ND	12.62		86.73	86.73	
	4/17/2001	99.35	ND	13.45		85.90	85.90	
	7/3/2001	99.35	ND	14.11		85.24	85.24	
	11/7/2001	99.35	ND	12.52		86.83	86.83	
	3/19/2002	99.35	ND	14.14		85.21	85.21	
	12/23/2002	99.35	ND	19.04		80.31	80.31	
	2/27/2003	99.35	ND	19.64		79.71	79.71	
	4/30/2003	99.35	ND	15.43		83.92	83.92	
	6/23/2003	99.35	ND	12.39		86.96	86.96	
	7/28/2003	99.35	ND	13.58		85.77	85.77	
	8/27/2003	97.81	ND	14.42		83.39	83.39	
	10/8/2003	97.81	ND	15.23		82.58	82.58	
	11/20/2003	97.81	ND	15.48		82.33	82.33	
	2/9/2004	97.81	ND	14.61		83.20	83.20	
	3/5/2004	97.81	ND	13.21		84.60	84.60	
	5/6/2004	97.81	ND	13.21		84.60	84.60	
	6/7/2004	97.81	ND	13.19		84.62	84.62	
	7/19/2004	97.81	ND	12.99		84.82	84.82	
	8/19/2004	97.81	ND	12.66		85.15	85.15	
	10/15/2004	97.81	ND	13.91		83.90	83.90	
	4/24/2006	97.81	NM	NM				
	4/30/2007	97.81	ND	11.20		86.61	86.61	
	3/21/2008	97.81	ND	11.12		86.69	86.69	
	4/28/2010	97.81	ND	7.78		90.03	90.03	
	4/13/2011	97.81	ND	10.68		87.13	87.13	

Table 2

Historic Groundwater Elevations and LNAPL Thickness
Hambert Compressor Station, Weld County, Colorado

Well ID	Date of Measurement	Reference Elevation (feet)	Depth to LNAPL (feet)	Depth to Water (feet)	LNAPL Thickness (feet)	Measured GW Elevation (feet)	Corrected GW Elevation* (feet)	Comments
MW010	10/20/1997	90.76	ND	5.28		85.48	85.48	
	10/22/1997	90.76	ND	5.20		85.56	85.56	
	11/11/1997	90.76	ND	6.10		84.66	84.66	
	11/19/1997	90.76	ND	6.33		84.43	84.43	
	3/24/1998	90.76	ND	6.75		84.01	84.01	
	6/24/1999	90.76	ND	4.82		85.94	85.94	
	7/23/1999	90.76	ND	4.68		86.08	86.08	
	8/26/1999	90.76	ND	4.90		85.86	85.86	
	9/23/1999	90.76	ND	6.25		84.51	84.51	
	10/12/1999	90.76	ND	6.21		84.55	84.55	
	11/29/1999	90.76	ND	6.50		84.26	84.26	
	1/31/2000	90.76	ND	8.11		82.65	82.65	
	4/6/2000	90.76	ND	7.08		83.68	83.68	
	7/12/2000	90.76	ND	6.97		83.79	83.79	
	10/17/2000	90.76	ND	9.80		80.96	80.96	
	1/25/2001	90.76	ND	5.58		85.18	85.18	
	4/17/2001	90.76	ND	6.75		84.01	84.01	
	7/3/2001	90.76	ND	7.52		83.24	83.24	
	11/7/2001	90.76	ND	5.45		85.31	85.31	
	3/20/2002	90.76	ND	7.50		83.26	83.26	
	12/23/2002	90.76	ND	11.84		78.92	78.92	
	4/30/2003	90.76	ND	8.00		82.76	82.76	
	6/23/2003	90.76	ND	5.02		85.74	85.74	
	7/24/2003	90.76	ND	7.24		83.52	83.52	
	8/27/2003	89.63	ND	8.93		80.70	80.70	
	10/9/2003	89.63	ND	9.36		80.27	80.27	
	11/21/2003	89.63	ND	8.99		80.64	80.64	
	2/9/2004	89.63	ND	6.96		82.67	82.67	
	3/5/2004	89.63	ND	5.15		84.48	84.48	
	5/6/2004	89.63	ND	6.58		83.05	83.05	
	6/7/2004	89.63	ND	6.51		83.12	83.12	
	7/19/2004	89.63	ND	6.53		83.10	83.10	
	8/20/2004	89.63	ND	5.56		84.07	84.07	
	10/18/2004	89.63	ND	6.75		82.88	82.88	
	4/24/2006	89.63	NM	NM				
	4/30/2007	89.63	ND	3.60		86.03	86.03	
	3/21/2008	89.63	ND	4.12		85.51	85.51	
	4/27/2010	89.63	ND	0.45		89.18	89.18	
	4/14/2011	89.63	ND	4.26		85.37	85.37	

Table 2

Historic Groundwater Elevations and LNAPL Thickness
Hambert Compressor Station, Weld County, Colorado

Well ID	Date of Measurement	Reference Elevation (feet)	Depth to LNAPL (feet)	Depth to Water (feet)	LNAPL Thickness (feet)	Measured GW Elevation (feet)	Corrected GW Elevation* (feet)	Comments
MW011	10/20/1997	92.10	6.10	6.18	0.08	85.92	85.98	
	10/22/1997	92.10	5.99	6.02	0.03	86.08	86.10	
	11/11/1997	92.10	6.81	6.97	0.16	85.13	85.26	
	11/19/1997	92.10	6.97	7.10	0.13	85.00	85.10	
	3/24/1998	92.10	7.55	7.57	0.02	84.53	84.55	
	10/6/1998	92.10	5.44	5.45	0.01	86.65	86.66	
	11/5/1998	92.10	ND	7.11		84.99	84.99	
	1/26/1999	92.10	ND	9.18		82.92	82.92	
	2/25/1999	92.10	ND	8.16		83.94	83.94	
	3/26/1999	92.10	ND	7.35		84.75	84.75	
	4/29/1999	92.10	ND	7.60		84.50	84.50	
	5/27/1999	92.10	ND	6.25		85.85	85.85	
	6/24/1999	92.10	ND	5.42		86.68	86.68	
	7/23/1999	92.10	ND	5.32		86.78	86.78	
	8/26/1999	92.10	ND	5.46		86.64	86.64	
	9/23/1999	92.10	ND	6.66		85.44	85.44	
	10/12/1999	92.10	ND	7.18		84.92	84.92	
	11/29/1999	92.10	ND	7.06		85.04	85.04	
	1/31/2000	92.10	ND	8.86		83.24	83.24	
	4/6/2000	92.10	ND	7.71		84.39	84.39	
	7/12/2000	92.10	ND	7.47		84.63	84.63	
	10/5/2000	92.10	ND	8.91		83.19	83.19	
	1/25/2001	92.10	ND	6.25		85.85	85.85	
	4/17/2001	92.10	ND	7.39		84.71	84.71	
	7/3/2001	92.10	ND	8.08		84.02	84.02	
	11/7/2001	92.10	ND	6.11		85.99	85.99	
	3/19/2002	92.10	ND	8.02		84.08	84.08	
	12/23/2002	92.10	13.52	13.53	0.01	78.57	78.58	
	2/27/2003	92.10	13.50	13.51	0.01	78.59	78.60	
	4/30/2003	92.10	ND	8.80		83.30	83.30	
	6/23/2003	92.10	ND	5.93		86.17	86.17	
	7/28/2003	92.10	ND	7.87		84.23	84.23	
	8/27/2003	90.75	ND	9.46		81.29	81.29	
	10/9/2003	90.75	ND	9.93		80.82	80.82	
	11/20/2003	90.75	ND	9.62		81.13	81.13	
	2/9/2004	90.75	ND	7.88		82.87	82.87	
	3/5/2004	90.75	ND	6.24		84.51	84.51	
	5/6/2004	90.75	ND	7.28		83.47	83.47	
	6/7/2004	90.75	ND	7.23		83.52	83.52	
	7/19/2004	90.75	ND	7.18		83.57	83.57	
	8/20/2004	90.75	ND	6.39		84.36	84.36	
	10/18/2004	90.75	ND	7.53		83.22	83.22	
	4/24/2006	90.75	ND	6.63		84.12	84.12	
	4/30/2007	90.75	ND	4.52		86.23	86.23	
	3/21/2008	90.75	ND	4.89		85.86	85.86	
	4/27/2010	90.75	ND	1.18		89.57	89.57	
	4/13/2011	90.75	ND	4.89		85.86	85.86	
MW012	4/29/2003	88.31	ND	5.56		82.75	82.75	
	6/23/2003	88.31	ND	3.22		85.09	85.09	
	7/24/2003	88.31	ND	6.41		81.90	81.90	
	8/27/2003	88.31	ND	8.16		80.15	80.15	
	10/8/2003	88.31	ND	8.50		79.81	79.81	
	11/21/2003	88.31	ND	7.89		80.42	80.42	
	2/9/2004	88.31	ND	5.11		83.20	83.20	
	3/5/2004	88.31	ND	3.06		85.25	85.25	
	5/6/2004	88.31	ND	6.58		81.73	81.73	
	6/7/2004	88.31	ND	5.50		82.81	82.81	
	7/19/2004	88.31	ND	5.47		82.84	82.84	
	8/20/2004	88.31	ND	3.64		84.67	84.67	
	10/18/2004	88.31	ND	4.89		83.42	83.42	
	4/24/2006	88.31	NM					
	4/30/2007	88.31	ND	2.08		86.23	86.23	
	3/25/2008	88.31	ND	2.13		86.18	86.18	

Table 2

Historic Groundwater Elevations and LNAPL Thickness
Hambert Compressor Station, Weld County, Colorado

Well ID	Date of Measurement	Reference Elevation (feet)	Depth to LNAPL (feet)	Depth to Water (feet)	LNAPL Thickness (feet)	Measured GW Elevation (feet)	Corrected GW Elevation* (feet)	Comments
MW013	4/29/2003	94.53	ND	13.53		81.00	81.00	
	6/23/2003	94.53	ND	10.11		84.42	84.42	
	7/24/2003	94.53	ND	12.64		81.89	81.89	
	8/27/2003	94.53	ND	14.37		80.16	80.16	
	10/8/2003	94.53	ND	14.97		79.56	79.56	
	11/21/2003	94.53	ND	14.68		79.85	79.85	
	2/3/2004	94.53	ND	12.69		81.84	81.84	
	3/5/2004	94.53	ND	10.16		84.37	84.37	
	5/6/2004	94.53	ND	12.04		82.49	82.49	
	6/7/2004	94.53	ND	12.06		82.47	82.47	
	7/19/2004	94.53	ND	11.96		82.57	82.57	
	8/20/2004	94.53	ND	10.95		83.58	83.58	
	10/18/2004	94.53	ND	12.48		82.05	82.05	
	4/24/2006	94.53	NM	NM				
	4/30/2007	94.53	ND	8.88		85.65	85.65	
	3/21/2008	94.53	ND	8.56		85.97	85.97	
	4/27/2010	94.53	ND	6.42		88.11	88.11	
	4/13/2011	94.53	ND	9.93		84.60	84.60	
MW014	4/29/2003	94.95	14.06	14.28	0.22	80.67	80.85	
	6/23/2003	94.95	10.92	11.19	0.27	83.76	83.98	
	7/24/2003	94.95	14.34	14.55	0.21	80.40	80.57	
	8/27/2003	94.95	16.17	16.50	0.21	78.45	78.62	
	10/9/2003	94.95	16.72	17.03	0.31	77.92	78.17	
	11/20/2003	94.95	ND	16.25		78.70	78.70	
	2/3/2004	94.95	ND	13.44		81.51	81.51	
	3/5/2004	94.95	ND	10.41		84.54	84.54	
	5/10/2004	94.95	ND	13.78		81.17	81.17	
	6/7/2004	94.95	ND	13.69		81.26	81.26	
	7/19/2004	94.95	ND	13.54		81.41	81.41	
	8/20/2004	94.95	ND	11.95		83.00	83.00	
	10/15/2004	94.95	ND	14.75		80.20	80.20	
	4/24/2006	94.95	ND	12.90		82.05	82.05	
	4/30/2007	94.95	ND	9.72		85.23	85.23	
	3/21/2008	94.95	ND	10.79		84.16	84.16	
	4/28/2010	94.95	ND	7.80		87.15	87.15	
	4/14/2011	94.95	ND	11.66		83.29	83.29	
MW14D	5/18/2007		ND	11.50				
	4/28/2010		ND	8.30				
	4/13/2011		ND	12.19				
TMW015 (Abaondoned)	4/29/2003	95.57	ND	14.50		81.07	81.07	
	6/23/2003	95.57	ND	12.15		83.42	83.42	
	7/28/2003	95.57	ND	17.15		78.42	78.42	
	8/27/2003	95.57	ND	17.78		77.79	77.79	
	10/9/2003	95.57	ND	19.13		76.44	76.44	
	11/21/2003	95.57	ND	17.47		78.10	78.10	
	2/3/2004	95.57	ND	14.32		81.25	81.25	
TMW016 (Abaondoned)	4/28/2003	95.55	ND	17.23		78.32	78.32	
	6/23/2003	95.55	ND	14.38		81.17	81.17	
	7/30/2003	95.55	ND	18.51		77.04	77.04	
	8/27/2003	95.55	ND	19.13		76.42	76.42	
	10/9/2003	95.55	ND	19.38		76.17	76.17	
	11/21/2003	95.55	ND	18.13		77.42	77.42	
	2/3/2004	95.55	ND	16.47		79.08	79.08	

Table 2

Historic Groundwater Elevations and LNAPL Thickness
Hambert Compressor Station, Weld County, Colorado

Well ID	Date of Measurement	Reference Elevation (feet)	Depth to LNAPL (feet)	Depth to Water (feet)	LNAPL Thickness (feet)	Measured GW Elevation (feet)	Corrected GW Elevation* (feet)	Comments
MW017	4/29/2003	92.96	ND	10.99		81.97	81.97	
	6/23/2003	92.96	ND	7.88		85.08	85.08	
	7/24/2003	92.96	ND	10.80		82.16	82.16	
	8/27/2003	92.96	ND	12.69				
	10/9/2003	92.96	ND	13.35		79.61	79.61	
	11/21/2003	92.96	ND	13.08		79.88	79.88	
	2/3/2004	92.96	ND	10.58		82.38	82.38	
	3/9/2004	92.96	ND	7.25		85.71	85.71	
	5/9/2004	92.96	ND	10.61		82.35	82.35	
	6/7/2004	92.96	ND	10.36		82.60	82.60	
	7/19/2004	92.96	ND	10.18		82.78	82.78	
	8/20/2004	92.96	ND	8.77		84.19	84.19	
	10/18/2004	92.96	ND	10.81		82.15	82.15	
	4/24/2006	92.96	ND	9.81		83.15	83.15	
	4/30/2007	92.96	ND	6.94		86.02	86.02	
	3/21/2008	92.96	ND	7.71		85.25	85.25	
MW018	2/3/2004	95.00	ND	13.51		81.49	81.49	
	3/5/2004	95.00	ND	10.17		84.83	84.83	
	5/9/2004	95.00	ND	14.69		80.31	80.31	
	6/7/2004	95.00	ND	14.06		80.94	80.94	
	7/19/2004	95.00	ND	14.33		80.67	80.67	
	8/23/2004	95.00	ND	11.71		83.29	83.29	
	10/18/2004	95.00	ND	13.27		81.73	81.73	
	4/24/2006	95.00	ND	13.60		81.40	81.40	
	4/30/2007	95.00	ND	9.86		85.14	85.14	
	3/21/2008	95.00	ND	11.48		83.52	83.52	
	4/13/2011	95.00	ND	12.47		82.53	82.53	
MW019	2/3/2004	94.93	ND	15.65		79.28	79.28	
	2/10/2004	94.93				94.93	94.93	
	3/5/2004	94.93	ND	13.32		81.61	81.61	
	5/9/2004	94.93	ND	17.54		77.39	77.39	
	6/7/2004	94.93	ND	15.41		79.52	79.52	
	7/19/2004	94.93	ND	15.58		79.35	79.35	
	8/20/2004	94.93	ND	16.23		78.70	78.70	
	10/18/2004	94.93	ND	16.92		78.01	78.01	
	4/24/2006	94.93	NM	NM				
	4/28/2007	94.93	ND	13.10		81.83	81.83	
	3/21/2008	94.93	ND	12.97		81.96	81.96	
	4/27/2010	94.93	ND	9.67		85.26	85.26	
	4/13/2011	94.93	ND	13.44		81.49	81.49	

N/A - Not Applicable

ND - Not Detected

NM - Not Measured

*Takes LNAPL into account using actual density when available or an estimated value of 0.8 mg/L.

**QA of historical data revealed that incorrect measurements may have been entered.

Table 3

Historical BTEX Concentrations in Groundwater
Hambert Compressor Station

Well ID	Sample Event Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes
MW001	3/18/1992	<0.8	<0.78	<0.6	<1.54
	3/24/1992	<0.8	<0.78	<0.6	<1.54
	11/3/1992	<0.8	<0.78	<0.6	<1.54
	6/23/1993	<0.5	<0.5	<0.5	<0.5
	12/15/1993	<0.5	<0.5	<0.5	<0.5
	6/28/1994	<0.5	<0.5	<0.5	<0.5
	12/7/1994	<0.5	<0.5	<0.5	<0.5
	5/31/1995	<0.5	<0.5	<0.5	<0.5
	1/15/1996	<0.5	<0.5	<0.5	<0.5
	7/8/1996	<0.5	<0.5	<0.5	<0.5
	1/30/1997	<0.5	<0.5	<0.5	<0.5
	7/9/1997	<0.5	<0.5	<0.5	<0.5
	1/29/1998	<0.5	<0.5	<0.5	<0.5
	10/12/1999	<0.5	<0.5	<0.5	<2
	4/7/2000	<1	<1	<1	<2
	10/17/2000	<0.5	<0.5	<0.5	<2
	4/19/2001	<0.5	<0.5	<0.5	<2
	11/10/2001	<0.5	<0.5	<0.5	<2
	3/19/2002	<1	<1	<1	<2
	5/1/2003	<0.5	<0.5	<0.5	1.2
	7/23/2003	<0.5	<0.5	<0.5	<1
	10/7/2003	<0.5	<0.5	<0.5	<1
	2/9/2004	1.2	2.9	<0.5	3
	5/10/2004	<0.5	<0.5	<0.5	12.8
	7/19/2004	<0.5	<0.5	<0.5	<0.5
	10/18/2004	<0.5	<0.5	<0.5	<0.5
	5/5/2005	<1.0	<1.0	<1.0	<1.0
MW002	3/18/1992	3	<0.78	3	7
	3/24/1992	19	<0.78	16	32
	11/3/1992	8	<0.78	11	23
	6/23/1993	17	0.81	21	27
	12/15/1993	8.8	<1.2	36	31
	6/28/1994	1	<0.5	3.5	2.5
	12/7/1994	<0.5	<0.5	0.72	0.86
	5/31/1995	6.6	<0.5	140	300
	1/15/1996	<0.5	<0.5	95	200
	7/8/1996	<1.2	<1.2	85	140
	1/30/1997	<0.5	<0.5	15	16
	7/9/1997	52	<0.5	21	160
	1/29/1998	<1	<1	75	120
	10/12/1999	<0.5	3.5	62	66
	4/7/2000	110	<5	68	89
	10/17/2000	3	4.1	63	74
	4/19/2001	<0.5	8.9	88	120
	11/10/2001	1.8	7.4	75	86
	3/19/2002	1.18	<1	46.5	31.29
	4/30/2003	FP	FP	FP	FP
	7/23/2003	51.1	<50	58.5	210
	10/8/2003	170	<50	<50	158
	10/15/2004	<0.5	<0.5	31.5	70.1
	3/21/2008	16	<5.0	3.3	2.8
	4/27/2010	<1.0	<5.0	<1.0	<3.0
	4/14/2011	<1.0	<5.0	<1.0	<3.0

NOTES:

All "<" values were less than the Lab Detection Limit.

FP - Not sampled - free product present in well.

Table 3

Historical BTEX Concentrations in Groundwater
Hambert Compressor Station

Well ID	Sample Event Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes
MW003	3/18/1992	2300	3600	600	7000
	3/24/1992	1700	1600	100	2700
	11/3/1992	250	370	<0.6	870
	6/23/1993	860	700	98	1500
	12/15/1993	570	130	75	790
	6/28/1994	79	23	22	300
	12/7/1994	840	130	160	1900
	5/31/1995	350	55	74	770
	1/15/1996	190	25	76	630
	7/8/1996	120	12	48	420
	1/30/1997	33	4.5	24	250
	7/9/1997	<0.5	<0.5	45	79
	1/29/1998	120	9.5	91	670
	10/13/1999	50	<0.5	6.7	790
	4/7/2000	29	<5	87	780
	10/17/2000	130	54	220	2200
	4/19/2001	66	7.3	120	950
	11/10/2001	6.5	8.7	64	520
	3/20/2002	5.58	<1	21	95.9
	5/1/2003	<50	<50	72.7	949
	6/13/2003	<5	<5	30.6	446
	7/24/2003	<33.3	<33.3	43.6	441.1
	10/7/2003	12.1	<5	97.5	770.9
	10/15/2004	9.6	<1	79.7	536.1
	3/21/2008	1.3	<5.0	1.6	2.4
MW004	6/23/1993	14	0.52	<0.5	27
	12/15/1993	<0.5	<0.5	<0.5	0.94
	6/28/1994	0.75	<0.5	<0.5	0.88
	12/7/1994	<0.5	<0.5	<0.5	<0.5
	5/31/1995	2.7	<0.5	<0.5	3.5
	1/15/1996	4.9	<0.5	1.4	4.8
	7/8/1996	0.62	<0.5	<0.5	<0.5
	1/30/1997	<0.5	<0.5	<0.5	<0.5
	7/9/1997	0.73	<0.5	<0.5	0.95
	1/29/1998	9.9	<0.5	12	51
	10/13/1999	37	<0.5	27	160
	4/7/2000	<1	<1	<1	<2
	10/17/2000	<0.5	<0.5	<0.5	<2
	4/19/2001	5	<0.5	6	24
	11/10/2001	2.7	<0.5	0.7	2.1
	3/20/2002	<1	<1	<1	<2
	4/30/2003	FP	FP	FP	FP
	6/13/2003	34.4	<10	62.4	831.5
	7/24/2003	5.7	<5	17	197.5
	10/8/2003	<5	<5	7.6	83.8
	10/15/2004	<0.5	<0.5	<0.5	<0.5
	3/21/2008	6	<5.0	3.3	8.5

NOTES:

All "<" values were less than the Lab Detection Limit.

FP - Not sampled - free product present in well.

Table 3

Historical BTEX Concentrations in Groundwater
Hambert Compressor Station

Well ID	Sample Event Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes
MW005	6/23/1993	<0.5	<0.5	0.61	<0.5
	12/15/1993	<0.5	<0.5	<0.5	<0.5
	6/28/1994	<0.5	<0.5	<0.5	<0.5
	12/7/1994	<0.5	<0.5	<0.5	<0.5
	5/31/1995	<0.5	<0.5	<0.5	<0.5
	1/15/1996	<0.5	<0.5	<0.5	<0.5
	7/8/1996	<0.5	<0.5	<0.5	<0.5
	1/30/1997	<0.5	<0.5	<0.5	<0.5
	7/9/1997	<0.5	<0.5	<0.5	<0.5
	1/29/1998	<0.5	<0.5	<0.5	0.77
	10/12/1999	<0.5	<0.5	<0.5	<2
	4/7/2000	<1	<1	<1	<2
	10/17/2000	<0.5	<0.5	<0.5	<2
	4/19/2001	<0.5	0.6	<0.5	<2
	11/10/2001	<0.5	<0.5	<0.5	<2
	3/20/2002	<1	<1	<1	<2
	5/1/2003	<0.5	<0.5	<0.5	1
	10/8/2003	<0.5	<0.5	<0.5	<1
	5/10/2004	<0.5	<0.5	<0.5	<0.5
	10/15/2004	<0.5	<0.5	<0.5	<0.5
	5/5/2005	<1.0	<1.0	<1.0	<1.0
	3/21/2008	<0.50	<5.0	3.3	<1.5
MW006	6/23/1993	150	<2.5	4.6	46
	12/15/1993	220	<6	<6	<6
	6/28/1994	460	<5	7.1	34
	12/7/1994	120	<1.2	<1.2	1.4
	5/31/1995	140	<1.2	2.5	11
	1/15/1996	76	<1	1.5	2.2
	7/8/1996	350	<5	7	14
	1/30/1997	140	<2.5	4.1	2.9
	7/9/1997	38	<2.5	<2.5	<2.5
	1/29/1998	17	<0.5	1.6	1.8
	10/12/1999	4.1	<0.5	<0.5	<2
	4/7/2000	21	<1	1.8	<2
	10/17/2000	60	<0.5	5.5	4.6
	4/19/2001	8.9	<0.5	0.9	<2
	11/10/2001	10	<0.5	<0.5	<2
	3/20/2002	<1	<1	<1	<2
	4/30/2003	FP	FP	FP	FP
	6/13/2003	147	<10	<10	18.6
	7/23/2003	98	5.2	6.1	86.2
	10/7/2003	114	<5	13.1	75.9
	5/6/2004	45.1	<0.5	7.3	72.1
	10/15/2004	<0.5	<0.5	<0.5	<0.5
	5/5/2005	<1	<1.0	<1.0	<1.0
	3/21/2008	<0.5	<5.0	<0.50	<1.5
MW007	3/25/1998	240	<6.2	120	1000
	10/13/1999	<0.5	<0.5	<0.5	40
	4/7/2000	46	<10	100	860
	10/17/2000	23	6.8	42	330
	4/19/2001	33	<1	75	650
	11/10/2001	43	<1	39	330
	3/19/2002	1.48	<1	4.32	30.3
	4/30/2003	FP	FP	FP	FP
	7/28/2003	249	<100	136	1180
	10/9/2003	159	<10	253	1951
	2/9/2004	83	<0.5	258.7	2663.5
	5/10/2004	91.1	<1	41	1553
	7/19/2004	48	<0.5	8.3	1321.1
	10/18/2004	83.5	<5	149.5	1499.6
	5/5/2005	12	<1	4.6	713.6

NOTES:

All "<" values were less than the Lab Detection Limit.

FP - Not sampled - free product present in well.

Table 3

Historical BTEX Concentrations in Groundwater
Hambert Compressor Station

Well ID	Sample Event Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes
MW008	3/25/1998	290	<10	89	790
	10/13/1999	<0.5	<0.5	<0.5	<2
	4/7/2000	870	<25	280	2900
	10/17/2000	700	6	210	2100
	4/19/2001	790	5.4	260	2700
	11/10/2001	37	6.7	210	1600
	3/19/2002	1400	0.26	228	1426
	5/8/2002	356	1.21	181	1231
	4/30/2003	395	<100	170	2683
	7/24/2003	56.5	<10	244	197
	10/8/2003	13.9	<10	137	344
	2/9/2004	47.5	<0.5	221.3	557.3
	5/9/2004	6.5	<0.5	44.5	27.8
	7/19/2004	9.7	<0.5	47.7	174.8
	10/18/2004	50.3	<1	88.7	742.4
	5/5/2005	27.6	<1	96	435.2
	3/21/2008	13	<5.0	18	91
MW009	3/25/1998	1400	<25	240	2300
	10/13/1999	75	<0.5	<0.5	390
	4/7/2000	150	<10	130	1300
	10/17/2000	22	<0.5	10	100
	4/19/2001	56	<0.5	27	270
	11/10/2001	18	0.9	12	94
	3/19/2002	6.69	<1	2.66	23.79
	4/30/2003	470	<100	315	2865
	7/28/2003	130	<100	147	1185
	10/8/2003	35.4	<5	192	655
	10/15/2004	93.6	<5	128.6	827.1
	3/21/2008	71	<25	20	97
	4/28/2010	3.5	<5.0	16	83
	4/14/2011	1.3	<5.0	7.7	25
MW010	3/25/1998	<0.5	<0.5	<0.5	0.52
	10/12/1999	<0.5	<0.5	<0.5	<2
	4/7/2000	<1	<1	<1	<2
	10/17/2000	<0.5	<0.5	<0.5	<2
	4/19/2001	<0.5	<0.5	<0.5	<2
	11/10/2001	<0.5	<0.5	<0.5	<2
	3/20/2002	<1	<1	<1	0.36
	4/30/2003	64.2	<100	316	352
	10/9/2003	<1	<1	1.7	4.2
	3/21/2008	9.9	<5.0	0.55	<1.5
MW011	10/12/1999	300	130	240	2100
	4/7/2000	210	150	280	2500
	10/17/2000	250	72	210	2100
	4/19/2001	150	29	140	1500
	11/10/2001	110	7.2	110	1000
	3/19/2002	1.25	<1	0.58	4.92
	4/30/2003	85	<100	264	3189
	7/28/2003	<100	<100	215	2926
	10/9/2003	68.9	<5	341	3123
	2/9/2004	60.2	1.5	322.4	3366
	5/6/2004	54.6	<5	71.7	2339.8
	7/19/2004	46.5	<5	2.3	2172.8
	10/18/2004	72.7	<5	270.1	2600.3
	5/5/2005	52.8	2	67.2	1769.7
	4/24/2006	66.2	<0.5	287.7	1004.1
	4/30/2007	33.5	382.8	3.5	1373.9
	3/21/2008	170	<5.0	200	580
	4/27/2010	7.6	<5.0	160	480
	4/13/2011	12	<5.0	380	1300

NOTES:

All "<" values were less than the Lab Detection Limit.

FP - Not sampled - free product present in well.

Table 3

Historical BTEX Concentrations in Groundwater
Hambert Compressor Station

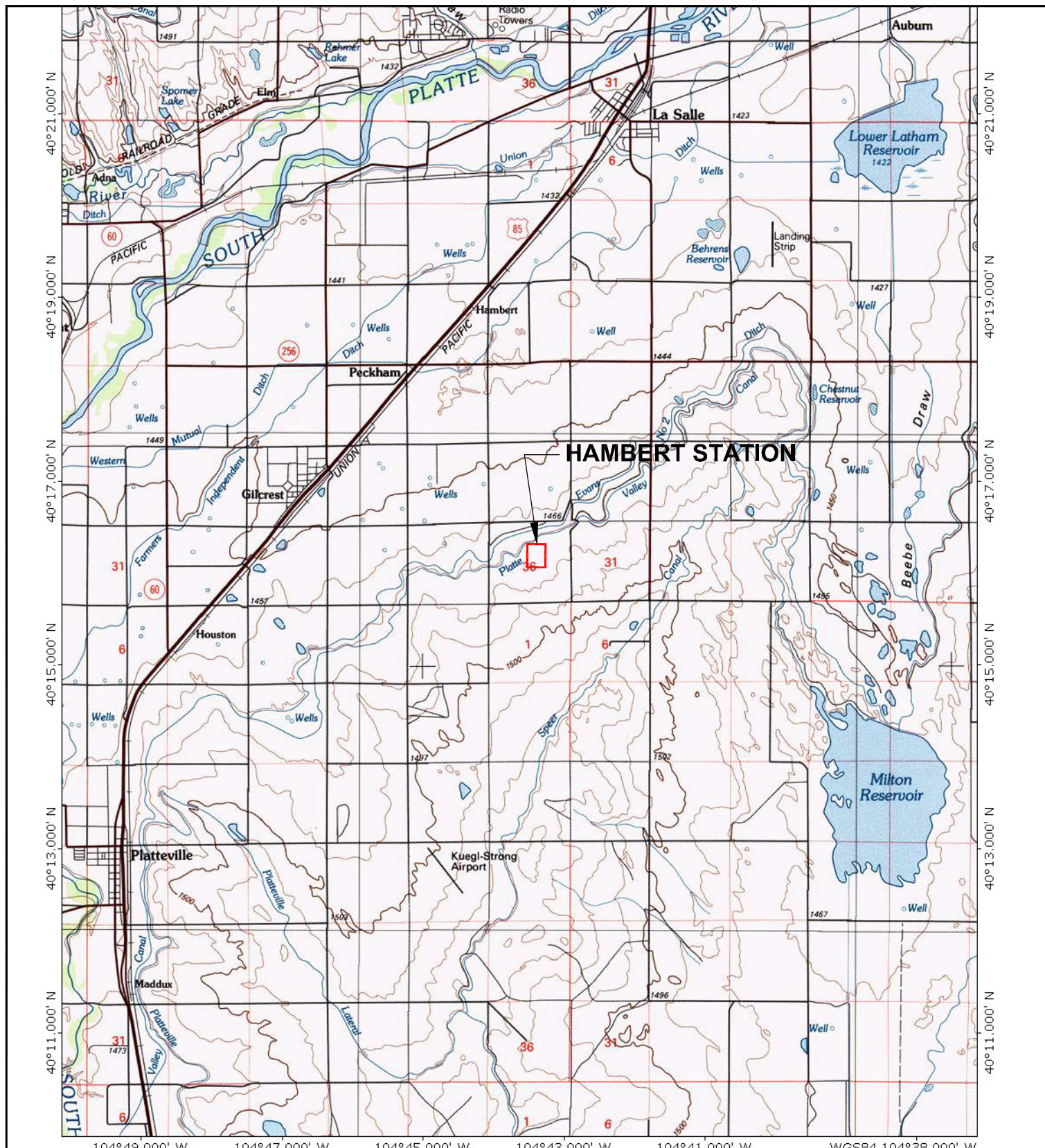
Well ID	Sample Event Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes
MW012	4/29/2003	<0.5	<0.5	<0.5	<1
	7/24/2003	<0.5	<0.5	<0.5	<1
	10/8/2003	<5	<5	<5	<10
	2/9/2004	<0.5	<0.5	<0.5	0.6
	5/6/2004	<0.5	<0.5	<0.5	<0.5
	7/19/2004	<0.5	<0.5	<0.5	<0.5
	10/18/2004	<1	<1	<1	<1
	5/5/2005	<1	<1	<1	1.7
MW013	4/29/2003	655	96.7	142	1466
	7/24/2003	1140	253	2230	966
	10/8/2003	1480	<100	383	3675
	2/3/2004	969.5	0.9	262.3	2410.2
	5/6/2004	2278.2	<5	513.3	4726.9
	7/19/2004	46.5	<5	2.3	2172.8
	10/18/2004	1252.4	<5	305.4	3552.3
	5/5/2005	1208.7	<5	100.7	3102.8
	3/21/2008	1200	<50	330	2600
	4/27/2010	1000	<100	470	3700
	4/13/2011	740	<5.0	510	3300
MW014	4/29/2003	FP	FP	FP	FP
	7/24/2003	FP	FP	FP	FP
	10/9/2003	FP	FP	FP	FP
	5/10/2004	37.3	<0.5	<0.5	<0.5
	10/15/2004	1563.7	<5	17.9	13780.1
	4/24/2006	199.8	<0.5	221.6	789.2
	4/30/2007	10.1	162.9	<0.5	547.3
	3/21/2008	170	<5.0	89	310
	4/28/2010	100	<25	210	980
	4/13/2011	67	<5.0	170	920
MW017	4/29/2003	<0.5	<0.5	<0.5	<1
	7/24/2003	<0.5	<0.5	<0.5	<1
	10/9/2003	<5	<5	<5	<10
	2/3/2004	1.5	<0.5	0.6	5.1
	5/9/2004	<0.5	<0.5	<0.5	<0.5
	7/19/2004	<0.5	<0.5	<0.5	<0.5
	10/18/2004	<1	<1	<1	<1
	5/5/2005	<1	<1	<1	<1
	4/24/2006	<0.5	<0.5	<0.5	<0.5
	4/30/2007	<0.5	<0.5	<0.5	<0.5
	3/21/2008	0.53	<5.0	<0.50	3.8
TMW15 (Abandoned)	4/29/2003	<50	<50	<50	143.6
	7/28/2003	65.6	<10	<10	113.7
	10/9/2003	<1	<1	<1	11.1
	2/3/2004	1.5	<0.5	0.7	9.7
TMW16 (Abandoned)	7/30/2003	<0.5	<0.5	<0.5	<1
	10/9/2003	<0.5	<0.5	<0.5	<1
MW18	2/3/2004	0.5	<0.5	<0.5	5.8
	5/9/2004	<0.5	<0.5	<0.5	<0.5
	7/19/2004	<0.5	<0.5	<0.5	<0.5
	10/18/2004	<0.5	<0.5	<0.5	<0.5
	5/5/2005	<1	<1	<1	<1
	4/24/2006	1.3	<0.5	0.5	1.2
	4/30/2007	<0.5	<0.5	0.5	8.2
	4/13/2011	18	<5.0	8.6	11
MW19	2/10/2004	<0.5	<0.5	<0.5	<0.5
	5/9/2004	<0.5	<0.5	<0.5	<0.5
	10/18/2004	<1	<1	<1	<1
	5/5/2005	<1	<1	<1	<1
	3/21/2008	0.57	<5.0	<0.50	5.2
	4/13/2011	<1.0	<5.0	<1.0	<3.0

NOTES:

All "<" values were less than the Lab Detection Limit.

FP - Not sampled - free product present in well.

FIGURES



Map from TOPO! (c) 2000 National Geographic Holdings

VICINITY MAP

SECTION 36
T4N-R66W

0 4400 8800 17,600



SCALE IN FEET
1" = 8800'



CLIENT/PROJECT:

**PAN ENERGY CORP
HAMBERT STATION
COGCC REMEDIATION NO. 18
Section 36, T.4 N, R.66 W.
WELD COUNTY, COLORADO**

TITLE:

SITE LOCATION MAP



7761 Shaffer Parkway
Suite 100
Littleton, CO 80127
Phone 303-792-5555

DRAWN BY:

KS

REVIEWED BY:

MF

APPROVED BY:

SR

DATE:

06/25/08

PROJECT NO.:

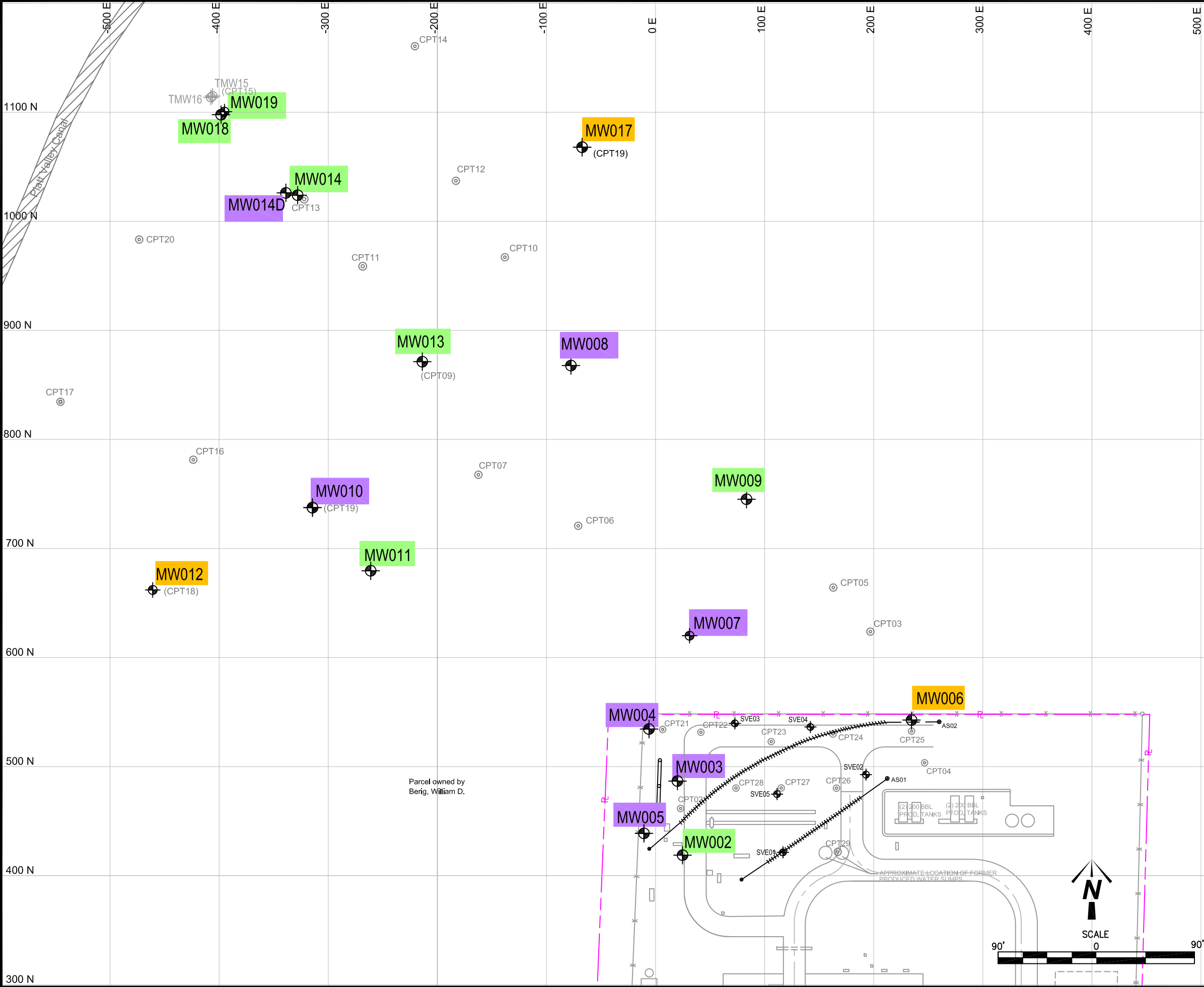
105521

FILE:

Fig 1 Loc Map

FIGURE:

1



LEGEND:

- MW002 MONITORING WELL – MNA
- MW007 MONITORING WELL – FLUID LEVEL
- MW006 MONITORING WELL – TO BE PLUGGED AND ABANDONED
- MW001 MONITORING WELL
- TMW16 MONITORING WELL PLUGGED AND ABANDONED
- SVE04 SOIL VAPOR EXTRACTION WELL
- CPT25 CPT PROBE
- HORIZONTAL AIR SPARGE WELL
- Slotted Pipe
- Solid Pipe
- NS NOT SAMPLED
- PROPERTY LINE
- APPROXIMATE PARCEL BOUNDARY
- FENCE
- BUILDING, STRUCTURE OR EQUIPMENT
- FORMER LANDFARM AREA

Map from TOPOI (c) 2000 National Geographic Holdings

VICINITY MAP
SECTION 36
T4N-R66W

NOTE: THIS SITE MAP DEVELOPED FROM WALSH ENVIRONMENTAL SCIENTISTS AND ENGINEERS BASE MAP. SCANNED BY DDS INC. JANUARY 2002.

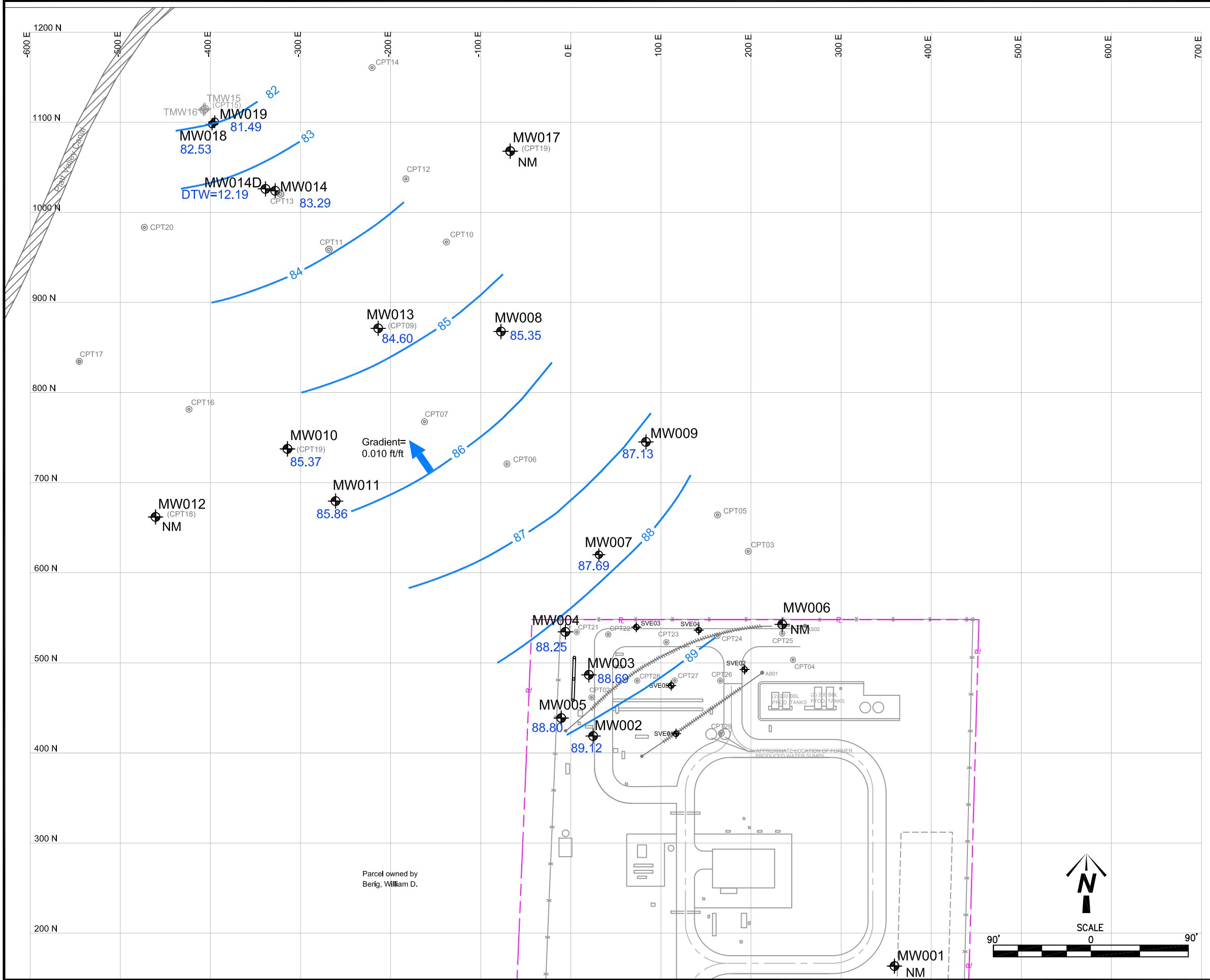
CLIENT/PROJECT:

**PAN ENERGY CORP
HAMBERT STATION
COGCC REMEDIATION NO. 18
Section 36, T.4 N, R.66 W
WELD COUNTY, COLORADO**

TITLE:

2011 WATER QUALITY SAMPLING WELLS

	7761 Shaffer Parkway Suite 100 Littleton, CO 80127 Phone 303-792-5555	DRAWN BY: KS	DATE: 05/16/11	FIGURE: 2
		REVIEWED BY: MF	PROJECT NO.: 105521/009005/-	
		APPROVED BY: GG	FILE: 2011 Sampl Wells.dwg	



LEGEND

MW019

81.49

TMW16

SVE04

CPT25

NM

Slotted Pipe

Solid Pipe

PROPERTY LINE

APPROXIMATE PARCEL BOUNDARY

FENCE

BUILDING, STRUCTURE OR EQUIPMENT

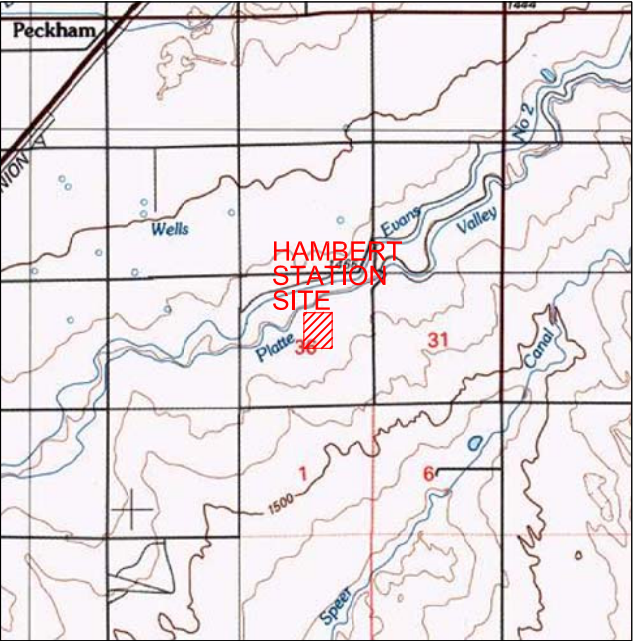
FORMER LANDFARM AREA

POTENTIOMETRIC SURFACE (APRIL 2011)

GROUND WATER FLOW DIRECTION

DTW

DEPTH TO WATER (Well not sampled)



Map from TOPO! (c) 2000 National Geographic Holdings

VICINITY MAP
SECTION 36
T4N-R66W


NOTE: THIS SITE MAP DEVELOPED FROM WALSH ENVIRONMENTAL
SCIENTISTS AND ENGINEERS BASE MAP. SCANNED BY DDS INC.
JANUARY 2002.

CLIENT/PROJECT:

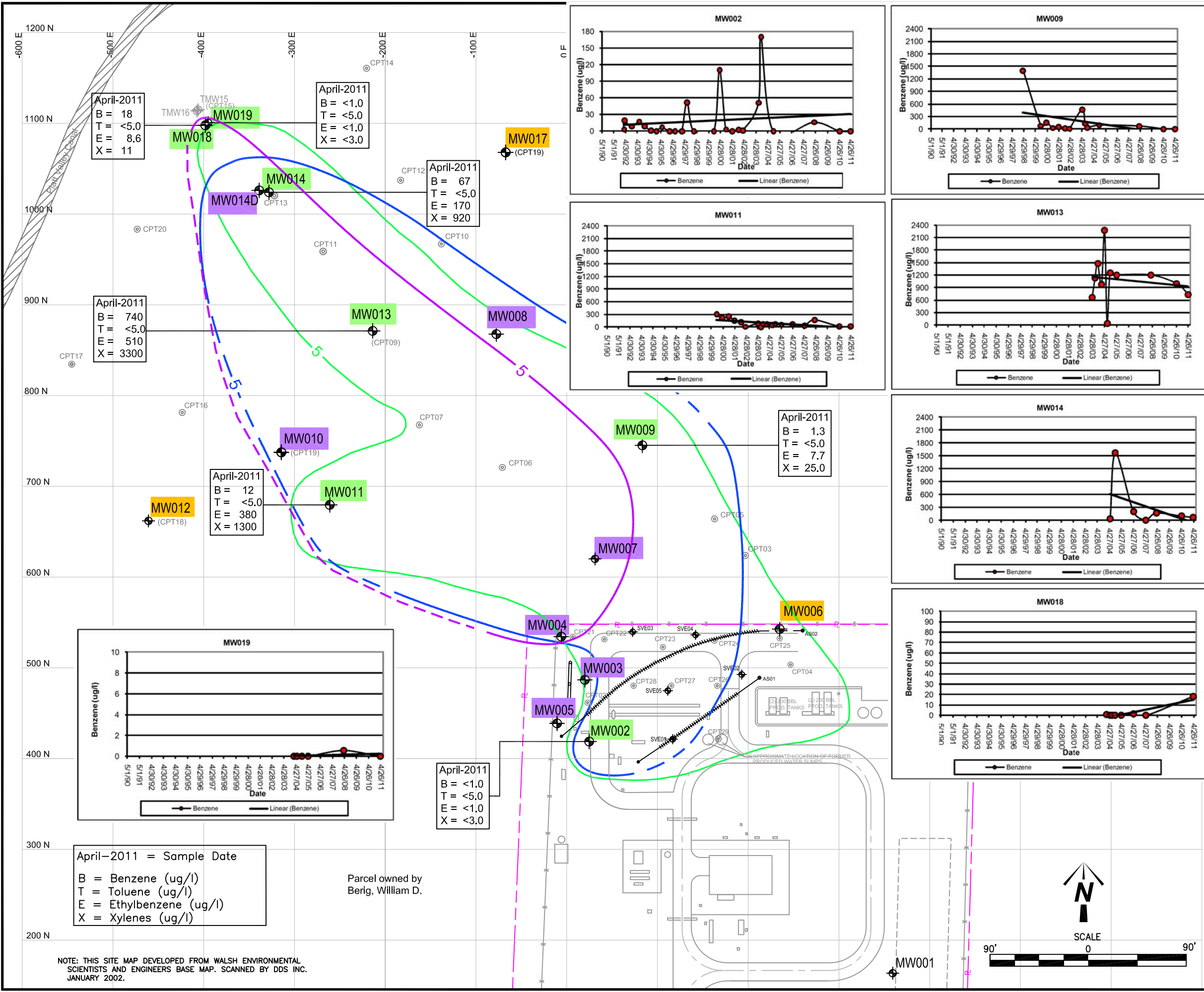
PAN ENERGY CORP
HAMBERT STATION
COGCC REMEDIATION NO. 18
Section 36, T.4 N, R.66 W
WELD COUNTY, COLORADO

TITLE:

POTENTIOMETRIC SURFACE WITH
WATER LEVEL ELEVATIONS



7761 Shaffer Parkway Suite 100 Littleton, CO 80127 Phone 303-792-5555	DRAWN BY:	KS	DATE:	05/16/11	FIGURE: 3
	REVIEWED BY:	MF	PROJECT NO.:	105521/009005/-	
	APPROVED BY:	SR	FILE:	2011 Pot Surf.dwg	



LEGEND:

- MW002 MONITORING WELL – MNA
- MW007 MONITORING WELL – FLUID LEVEL
- MW006 MONITORING WELL TO BE PLUGGED & ABANDONED
- MW001 MONITORING WELL
- TMW16 MONITORING WELL PLUGGED AND ABANDONED
- SVE04 SOIL VAPOR EXTRACTION WELL
- CPT25 CPT PROBE
- Horizontal Air Sparge Well
- Slotted Pipe
- Solid Pipe
- PROPERTY LINE
- APPROXIMATE PARCEL BOUNDARY
- FENCE
- BUILDING, STRUCTURE OR EQUIPMENT
- FORMER LANDFARM AREA
- 2004 BENZENE ISOCONCENTRATION CONTOURS (ug/l)
- 2008 BENZENE ISOCONCENTRATION CONTOURS (ug/l) (DASHED WHERE INFERRED)
- 2011 BENZENE ISOCONCENTRATION CONTOURS (ug/l) (DASHED WHERE INFERRED)

Map from TOPOI (c) 2000 National Geographic Holdings

VICINITY MAP
SECTION 36
T4N-R66W

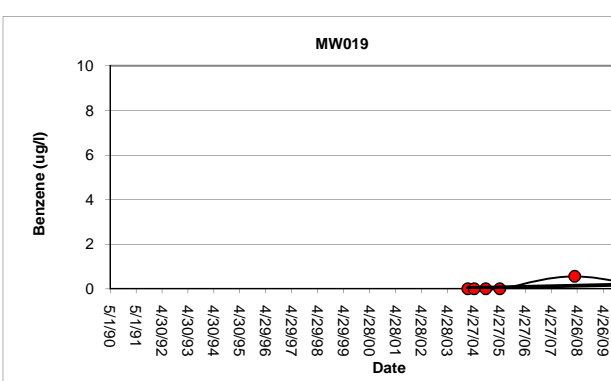
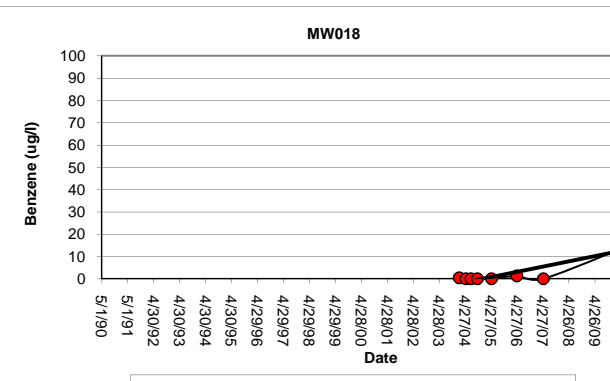
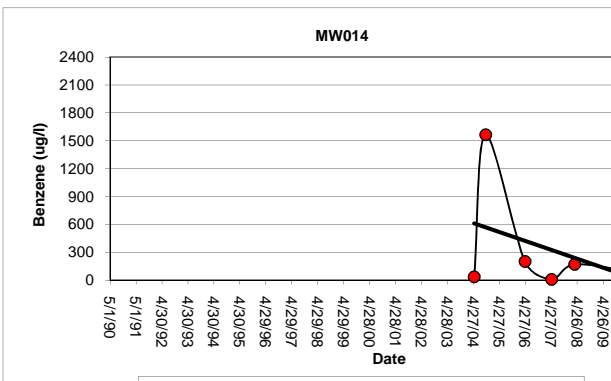
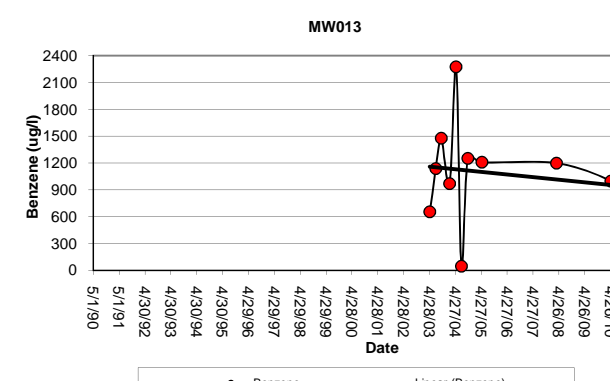
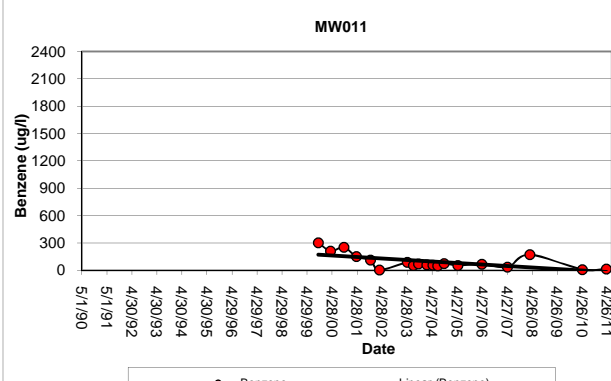
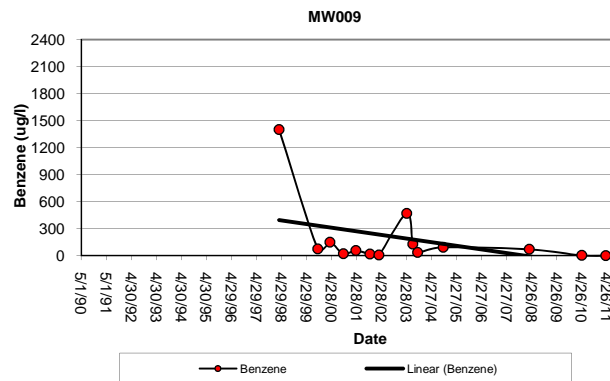
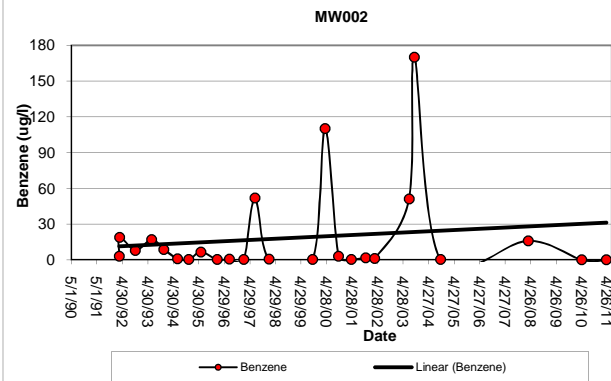
CLIENT/PROJECT: **PAN ENERGY CORP
HAMBERT STATION
COGCC REMEDIATION NO. 18
Section 36, T.4 N, R.66 W
WELD COUNTY, COLORADO**

TITLE: **CURRENT AND HISTORICAL BENZENE PLUMES,
CURRENT LNAPL THICKNESS, AND CURRENT
DISSOLVED-PHASE BTEX CONCENTRATIONS**

	7761 Shaffer Parkway Suite 100 Littleton, CO 80127 Phone 303-792-5555	DRAWN BY: KS REVIEWED BY: MF APPROVED BY: SR	DATE: 05/16/11 PROJECT NO.: 105521/009005/- FILE: 2011 Sampl Results.dwg	FIGURE: 4
--	--	--	--	------------------

GRAPHS

Graph 1
Dissolved-Phase Benzene vs. Time Graphs
Hambert Compressor Station
Weld County, Colorado



APPENDIX A

TRC Solutions - Littleton

7761 Shaffer Pkwy, Ste 100
Littleton, CO 80127

Billing information:

Mr. Michael Furtaw
7761 Shaffer Pkwy, Ste 100
Littleton, CO 80127

Analysis/Container/Preservative

E028

Chain of Custody
Page 1 of 4



12065 Lebanon Road
Mt. Juliet, TN 37122

Phone: (800) 767-5859
Phone: (615) 758-5858
Fax: (615) 758-5859

L512162

Acctnum: **TRCSOLLCO** (lab use only)
Template/Prelogin: **T70578/P351056**
Cooler #:
Shipped Via: **FedEX Ground**

Remarks/Contaminant Sample # (lab only)

MS/MSD included - 01

02

03

04

05

06

07

08

09

Report to: **Mr. Michael Furtaw** Email: **mfurtaw@trcsolutions.com**

Project Description: **PEC Brighton** City/State Collected: **Colorado**

Phone: (303) 792-5555 Client Project #: **1055210000000009005** Lab Project #: **TRCSOLLCO-1055219005**
FAX: (303) 792-0122

Collected by (print): **Michael Furtaw** Site/Facility ID#: **PEC** P.O.#: **32219**

Collected by (signature): *[Signature]* Rush? (Lab MUST Be Notified)
 Same Day 200%
 Next Day 100%
 Two Day 50%
 Three Day 25%
 Date Results Needed
 Email? ☐ No ☒ Yes
 FAX? ☐ No ☐ Yes
 No. of Cntrs

Immediately
Packed on Ice N ☐ Y ☒

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs
BRG-MW005		GW		4/18/11	1235	24 X
BRG-MW06R		GW		4/18/11	1205	2 X
BRG-MW007		GW		4/18/11	1115	2 X
DGN-MW007		GW		4/14/11	1250	2 X
DGN-MW007 DUP		GW		4/14/11	1250	2 X
DGN-MW008		GW		4/14/11	1310	2 X
DGN-MW011		GW		4/14/11	1100	2 X
LUP-MW002		GW		4/12/11	1120	2 X
LUP-MW005		GW		4/12/11	1005	2 X

*Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other _____

pH _____ Temp _____

Remarks:

Flow _____ Other _____

Relinquished by: (Signature) <i>[Signature]</i>	Date: 4/19/11	Time: 1100	Received by: (Signature) <i>[Signature]</i>	Samples returned via: <input type="checkbox"/> UPS <input checked="" type="checkbox"/> FedEx <input type="checkbox"/> Courier	Condition: (lab use only) OK
Relinquished by: (Signature) <i>[Signature]</i>	Date:	Time:	Received by: (Signature) <i>[Signature]</i>	Temp: 3.1 Bottles Received: 730	COC Seal Intact: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA
Relinquished by: (Signature) <i>[Signature]</i>	Date:	Time:	Received for lab by: (Signature) <i>[Signature]</i>	Date: 4/20/11 Time: 0900	pH Checked: NCF:

4355 9318 0680

7761 Shaffer Pkwy, Ste 100
Littleton, CO 80127

Mr. Michael Furtaw
7761 Shaffer Pkwy, Ste 100
Littleton, CO 80127

V8260BTEX 40m|Amb-HCl

Chain of Custody
Page 2 of 4



12065 Lebanon Road
Mt. Juliet, TN 37122

Phone: (800) 767-5859
Phone: (615) 758-5858
Fax: (615) 758-5859

Report to: **Mr. Michael Furtaw**

Email: **mfurtaw@trcsolutions.com**

Project Description: **PEC Brighton**

City/State Collected	Colorado
-------------------------	----------

Phone: (303) 792-5555
FAX: (303) 792-0122

Client Project #:
10552100000000009005

Lab Project #
TRCSOLLCO-1055219005

Collected by (print):
Michael Furtan

Site/Facility ID#: *PEC*

P.O.#: 32219

Collected by (signature):

Rush? (Lab MUST Be Notified)

Date Results Needed

Immediately
Packed on Ice N Y ☒

___ Same Day	200%
___ Next Day	100%
___ Two Day	50%
___ Three Day	25%

Email? ☐ No ☐ Yes
FAX? ☐ No ☐ Yes

[illegible]

Acctnum: **TRCSOLLCO** (lab use only)
 Template/Prelogin: **T70578 P351056**
 Cooler #:
 Shipped Via: **FedEX Ground**

Remarks/Contaminant	Sample # (lab only)
---------------------	---------------------

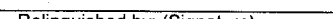



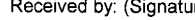


[illegible]

*Matrix: **SS** - Soil **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other

pH Temp

Remarks:

Flow	Other
1	2
3	4
5	6
7	8
9	10
11	12
13	14
15	16
17	18
19	20
21	22
23	24
25	26
27	28
29	30
31	32
33	34
35	36
37	38
39	40
41	42
43	44
45	46
47	48
49	50
51	52
53	54
55	56
57	58
59	60
61	62
63	64
65	66
67	68
69	70
71	72
73	74
75	76
77	78
79	80
81	82
83	84
85	86
87	88
89	90
91	92
93	94
95	96
97	98
99	100

Relinquished by: (Signature) 	Date: 4/19/11	Time: 1100	Received by: (Signature) 	Samples returned via: <input type="checkbox"/> UPS <input checked="" type="checkbox"/> FedEx <input type="checkbox"/> Courier <input type="checkbox"/>	Condition: (lab use only) 
Relinquished by: (Signature) 	Date:	Time:	Received by: (Signature) 	Temp: 3.1°C Bottles Received: 730	COC Seal Intact: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA
Relinquished by: (Signature) 	Date:	Time:	Received for lab by: (Signature) 	Date: 4/20/11 Time: 0900	pH Checked: <input type="checkbox"/> NCF: <input type="checkbox"/>

TRC Solutions - Littleton

7761 Shaffer Pkwy, Ste 100
Littleton, CO 80127

Billing information:

Mr. Michael Furtaw
7761 Shaffer Pkwy, Ste 100
Littleton, CO 80127

Analysis/Container/Preservative

Chain of Custody

Page 3 of 4



L-A-B S-C-I-E-N-C-E-S

12065 Lebanon Road
Mt. Juliet, TN 37122

Phone: (800) 767-5859
Phone: (615) 758-5858
Fax: (615) 758-5859

1512162

Report to: **Mr. Michael Furtaw**
Email: **mfurtaw@trcsolutions.com**

Project Description: **PEC Brighton**
City/State Collected: **Colorado**

Phone: (303) 792-5555
FAX: (303) 792-0122
Client Project #: **1055210000000009005**
Lab Project #: **TRCSOLLCO-1055219005**

Collected by (print): **Michael Furtaw**
Site/Facility ID#: **PEC**
P.O.#: **32219**

Collected by (signature):
Immediately Packed on Ice N Y ☒
Rush? (Lab MUST Be Notified)
Same Day200%
Next Day100%
Two Day50%
Three Day25%
Date Results Needed
Email? No Yes
FAX? No Yes
No. of Cntrs

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs
HMB-MW014		GW		4/13/11	1200	4
HMB-MW018		GW		4/13/11	1010	2
HMB-MW019		GW		4/13/11	1115	2
HUD-MW008		GW		4/15/11	0840	2
HUD-MW011		GW		4/15/11	0755	2
HUD-MW012		GW		4/15/11	0720	2
HUD-MW014		GW		4/15/11	1000	2
HUD-MW009		GW		4/15/11	0925	2
VLL-MW03A		GW		4/11/11	0950	2

V8260BTEX 40mlAmb-HCI

Acctnum: **TRCSOLLCO** (lab use only)
Template/Prelogin: **T70578 P351056**
Cooler #:
Shipped Via: **FedEx Ground**

Remarks/Contaminant Sample # (lab only)

MS/MSD included 19
20
21
22
23
24
25
26
27

*Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other

pH Temp

Remarks:

Flow Other

Relinquished by: (Signature) <i>[Signature]</i>	Date: 4/19/11	Time: 1100	Received by: (Signature) <i>[Signature]</i>	Samples returned via: <input checked="" type="checkbox"/> UPS <input checked="" type="checkbox"/> FedEx <input type="checkbox"/> Courier	Condition: (lab use only) <i>[Signature]</i>
Relinquished by: (Signature) <i>[Signature]</i>	Date:	Time:	Received by: (Signature) <i>[Signature]</i>	Temp: 3.1 Bottles Received: 73	COC Seal Intact: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA
Relinquished by: (Signature) <i>[Signature]</i>	Date:	Time:	Received for lab by: (Signature) <i>[Signature]</i>	Date: 4/20/11 Time: 0900	pH Checked: NCF:

TRC Solutions - Littleton

7761 Shaffer Pkwy, Ste 100
Littleton, CO 80127

Billing information:

Mr. Michael Furtaw
7761 Shaffer Pkwy, Ste 100
Littleton, CO 80127

Analysis/Container/Preservative

Chain of Custody
Page 4 of 4



12065 Lebanon Road
Mt. Juliet, TN 37122

Phone: (800) 767-5859
Phone: (615) 758-5858
Fax: (615) 758-5859

Report to: **Mr. Michael Furtaw**
Email: **mfurtaw@trcsolutions.com**

Project Description: **PEC Brighton**
City/State Collected: **Colorado**
Lab Project #: **TRCSOLLCO-1055219005**

Phone: (303) 792-5555
FAX: (303) 792-0122
Client Project #: **1055210000000009005**

Collected by (print): **Michael Furtaw**
Site/Facility ID#: **PEC**
P.O.#: **32219**

Collected by (signature):
Immediately Packed on Ice N Y ☒
Rush? (Lab MUST Be Notified)
Same Day 200%
Next Day 100%
Two Day 50%
Three Day 25%
Date Results Needed
Email? No Yes
FAX? No Yes
No. of Cntrs

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs
VLL-MW03B		GW		4/11/11	1035	2
VLL-MW005		GW		4/11/11	1130	2
VLL-MW007		GW		4/11/11	1200	2
VLL-MW009		GW		4/11/11	1315	2
VLL-MW010		GW		4/11/11	1350	2
VLL-MW011		GW		4/12/11	0845	2
VLL-MW013		GW		4/11/11	1435	2
TRIP BLANK		GW		—	—	1

V8260BTEX 40mlAmb-HCI

Acctnum: **TRCSOLLCO** (lab use only)
Template/Prelogin: **T70578 P351056**
Cooler #:
Shipped Via: **FedEX Ground**

Remarks/Contaminant Sample # (lab only)

LS12162-28
29
30
31
32
33
34
35

*Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other _____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Relinquished by: (Signature) <i>[Signature]</i>	Date: 4/19/11	Time: 1100	Received by: (Signature) <i>[Signature]</i>	Samples returned via: <input type="checkbox"/> UPS <input checked="" type="checkbox"/> FedEx <input type="checkbox"/> Courier	Condition: (lab use only) <i>[Signature]</i>
Relinquished by: (Signature) <i>[Signature]</i>	Date:	Time:	Received by: (Signature) <i>[Signature]</i>	Temp: 3.1 Bottles Received: 730	COC Seal Intact: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA
Relinquished by: (Signature) <i>[Signature]</i>	Date:	Time:	Received for lab by: (Signature) <i>[Signature]</i>	Date: 4/20/11 Time: 0900	pH Checked: NCF:



12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Mr. Michael Furtaw
TRC Solutions - Littleton
7761 Shaffer Pkwy, Ste 100
Littleton, CO 80127

Report Summary

Wednesday April 27, 2011

Report Number: L512162

Samples Received: 04/20/11

Client Project: 10552100000000009005

Description: PEC Brighton

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:


Terrie Fudge, ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704, ND - R-140
NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032008A,
TX - T104704245, OK-9915

Accreditation is only applicable to the test methods specified on each scope of accreditation held by ESC Lab Sciences.

Note: The use of the preparatory EPA Method 3511 is not approved or endorsed by the CA ELAP.

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Mt. Juliet, TN 37122
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1-800-767-5859
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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Michael Furtaw
TRC Solutions - Littleton
7761 Shaffer Pkwy, Ste 100
Littleton, CO 80127

April 27, 2011

Date Received : April 20, 2011
Description : AIG - Panenergy Corp - Annual GW Monitoring
Sample ID : BRG-MW005
Collected By : Michael Furtaw
Collection Date : 04/18/11 12:35

ESC Sample # : L512162-01

Site ID : PEC

Project # : 10552100000000009005

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	0.0019	0.0010	mg/l	8260B	04/21/11	1
Toluene	BDL	0.0050	mg/l	8260B	04/21/11	1
Ethylbenzene	BDL	0.0010	mg/l	8260B	04/21/11	1
Total Xylenes	BDL	0.0030	mg/l	8260B	04/21/11	1
Surrogate Recovery						
Toluene-d8	102.		% Rec.	8260B	04/21/11	1
Dibromofluoromethane	102.		% Rec.	8260B	04/21/11	1
a,a,a-Trifluorotoluene	103.		% Rec.	8260B	04/21/11	1
4-Bromofluorobenzene	101.		% Rec.	8260B	04/21/11	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

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Reported: 04/27/11 10:31 Printed: 04/27/11 10:32



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Est. 1970

REPORT OF ANALYSIS

Mr. Michael Furtaw
TRC Solutions - Littleton
7761 Shaffer Pkwy, Ste 100
Littleton, CO 80127

April 27, 2011

Date Received : April 20, 2011
Description : AIG - Panenergy Corp - Annual GW Monitoring
Sample ID : BRG-MW06R
Collected By : Michael Furtaw
Collection Date : 04/18/11 12:05

ESC Sample # : L512162-02

Site ID : PEC

Project # : 10552100000000009005

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	0.0015	0.0010	mg/l	8260B	04/21/11	1
Toluene	BDL	0.0050	mg/l	8260B	04/21/11	1
Ethylbenzene	BDL	0.0010	mg/l	8260B	04/21/11	1
Total Xylenes	BDL	0.0030	mg/l	8260B	04/21/11	1
Surrogate Recovery						
Toluene-d8	103.		% Rec.	8260B	04/21/11	1
Dibromofluoromethane	107.		% Rec.	8260B	04/21/11	1
a,a,a-Trifluorotoluene	109.		% Rec.	8260B	04/21/11	1
4-Bromofluorobenzene	101.		% Rec.	8260B	04/21/11	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

.

Reported: 04/27/11 10:31 Printed: 04/27/11 10:32



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Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Michael Furtaw
TRC Solutions - Littleton
7761 Shaffer Pkwy, Ste 100
Littleton, CO 80127

April 27, 2011

Date Received : April 20, 2011
Description : AIG - Panenergy Corp - Annual GW Monitoring
Sample ID : BRG-MW007
Collected By : Michael Furtaw
Collection Date : 04/18/11 11:15

ESC Sample # : L512162-03

Site ID : PEC

Project # : 10552100000000009005

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	0.0016	0.0010	mg/l	8260B	04/21/11	1
Toluene	BDL	0.0050	mg/l	8260B	04/21/11	1
Ethylbenzene	BDL	0.0010	mg/l	8260B	04/21/11	1
Total Xylenes	BDL	0.0030	mg/l	8260B	04/21/11	1
Surrogate Recovery						
Toluene-d8	105.		% Rec.	8260B	04/21/11	1
Dibromofluoromethane	109.		% Rec.	8260B	04/21/11	1
a,a,a-Trifluorotoluene	108.		% Rec.	8260B	04/21/11	1
4-Bromofluorobenzene	103.		% Rec.	8260B	04/21/11	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

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Reported: 04/27/11 10:31 Printed: 04/27/11 10:32



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Fax (615) 758-5859

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REPORT OF ANALYSIS

Mr. Michael Furtaw
TRC Solutions - Littleton
7761 Shaffer Pkwy, Ste 100
Littleton, CO 80127

April 27, 2011

Date Received : April 20, 2011
Description : AIG - Panenergy Corp - Annual GW Monitoring
Sample ID : DGN-MW007
Collected By : Michael Furtaw
Collection Date : 04/14/11 12:50

ESC Sample # : L512162-04

Site ID : PEC

Project # : 10552100000000009005

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	0.0010	mg/l	8260B	04/21/11	1
Toluene	BDL	0.0050	mg/l	8260B	04/21/11	1
Ethylbenzene	BDL	0.0010	mg/l	8260B	04/21/11	1
Total Xylenes	BDL	0.0030	mg/l	8260B	04/21/11	1
Surrogate Recovery						
Toluene-d8	103.		% Rec.	8260B	04/21/11	1
Dibromofluoromethane	103.		% Rec.	8260B	04/21/11	1
a,a,a-Trifluorotoluene	105.		% Rec.	8260B	04/21/11	1
4-Bromofluorobenzene	99.8		% Rec.	8260B	04/21/11	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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REPORT OF ANALYSIS

Mr. Michael Furtaw
TRC Solutions - Littleton
7761 Shaffer Pkwy, Ste 100
Littleton, CO 80127

April 27, 2011

Date Received : April 20, 2011
Description : AIG - Panenergy Corp - Annual GW Monitoring
Sample ID : DGN-MW007 DUP
Collected By : Michael Furtaw
Collection Date : 04/14/11 12:50

ESC Sample # : L512162-05

Site ID : PEC

Project # : 10552100000000009005

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	0.0010	mg/l	8260B	04/21/11	1
Toluene	BDL	0.0050	mg/l	8260B	04/21/11	1
Ethylbenzene	BDL	0.0010	mg/l	8260B	04/21/11	1
Total Xylenes	BDL	0.0030	mg/l	8260B	04/21/11	1
Surrogate Recovery						
Toluene-d8	106.		% Rec.	8260B	04/21/11	1
Dibromofluoromethane	104.		% Rec.	8260B	04/21/11	1
a,a,a-Trifluorotoluene	110.		% Rec.	8260B	04/21/11	1
4-Bromofluorobenzene	99.4		% Rec.	8260B	04/21/11	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Mr. Michael Furtaw
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Littleton, CO 80127

April 27, 2011

Date Received : April 20, 2011
Description : AIG - Panenergy Corp - Annual GW Monitoring
Sample ID : DGN-MW008
Collected By : Michael Furtaw
Collection Date : 04/14/11 13:10

ESC Sample # : L512162-06

Site ID : PEC

Project # : 10552100000000009005

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	0.0010	mg/l	8260B	04/21/11	1
Toluene	BDL	0.0050	mg/l	8260B	04/21/11	1
Ethylbenzene	BDL	0.0010	mg/l	8260B	04/21/11	1
Total Xylenes	BDL	0.0030	mg/l	8260B	04/21/11	1
Surrogate Recovery						
Toluene-d8	104.		% Rec.	8260B	04/21/11	1
Dibromofluoromethane	102.		% Rec.	8260B	04/21/11	1
a,a,a-Trifluorotoluene	111.		% Rec.	8260B	04/21/11	1
4-Bromofluorobenzene	100.		% Rec.	8260B	04/21/11	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Mr. Michael Furtaw
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Littleton, CO 80127

April 27, 2011

Date Received : April 20, 2011
Description : AIG - Panenergy Corp - Annual GW Monitoring
Sample ID : DGN-MW011
Collected By : Michael Furtaw
Collection Date : 04/14/11 11:00

ESC Sample # : L512162-07

Site ID : PEC

Project # : 10552100000000009005

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	0.081	0.0010	mg/l	8260B	04/21/11	1
Toluene	BDL	0.0050	mg/l	8260B	04/21/11	1
Ethylbenzene	0.0014	0.0010	mg/l	8260B	04/21/11	1
Total Xylenes	BDL	0.0030	mg/l	8260B	04/21/11	1
Surrogate Recovery						
Toluene-d8	104.		% Rec.	8260B	04/21/11	1
Dibromofluoromethane	103.		% Rec.	8260B	04/21/11	1
a,a,a-Trifluorotoluene	106.		% Rec.	8260B	04/21/11	1
4-Bromofluorobenzene	98.7		% Rec.	8260B	04/21/11	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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Littleton, CO 80127

April 27, 2011

Date Received : April 20, 2011
Description : AIG - Panenergy Corp - Annual GW Monitoring
Sample ID : LUP-MW002
Collected By : Michael Furtaw
Collection Date : 04/12/11 11:20

ESC Sample # : L512162-08

Site ID : PEC

Project # : 10552100000000009005

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	16.	0.10	mg/l	8260B	04/20/11	100
Toluene	BDL	0.50	mg/l	8260B	04/20/11	100
Ethylbenzene	0.54	0.10	mg/l	8260B	04/20/11	100
Total Xylenes	6.9	0.30	mg/l	8260B	04/20/11	100
Surrogate Recovery						
Toluene-d8	106.		% Rec.	8260B	04/20/11	100
Dibromofluoromethane	96.4		% Rec.	8260B	04/20/11	100
a,a,a-Trifluorotoluene	102.		% Rec.	8260B	04/20/11	100
4-Bromofluorobenzene	99.0		% Rec.	8260B	04/20/11	100

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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Littleton, CO 80127

April 27, 2011

Date Received : April 20, 2011
Description : AIG - Panenergy Corp - Annual GW Monitoring
Sample ID : LUP-MW005
Collected By : Michael Furtaw
Collection Date : 04/12/11 10:05

ESC Sample # : L512162-09
Site ID : PEC
Project # : 10552100000000009005

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	0.65	0.010	mg/l	8260B	04/25/11	10
Toluene	BDL	0.0050	mg/l	8260B	04/21/11	1
Ethylbenzene	0.12	0.0010	mg/l	8260B	04/21/11	1
Total Xylenes	0.0040	0.0030	mg/l	8260B	04/21/11	1
Surrogate Recovery						
Toluene-d8	111.		% Rec.	8260B	04/21/11	1
Dibromofluoromethane	94.6		% Rec.	8260B	04/21/11	1
a,a,a-Trifluorotoluene	105.		% Rec.	8260B	04/21/11	1
4-Bromofluorobenzene	98.0		% Rec.	8260B	04/21/11	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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Mr. Michael Furtaw
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Littleton, CO 80127

April 27, 2011

Date Received : April 20, 2011
Description : AIG - Panenergy Corp - Annual GW Monitoring
Sample ID : LUP-MW07R
Collected By : Michael Furtaw
Collection Date : 04/12/11 10:40

ESC Sample # : L512162-10

Site ID : PEC

Project # : 10552100000000009005

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	0.0010	mg/l	8260B	04/25/11	1
Toluene	BDL	0.0050	mg/l	8260B	04/21/11	1
Ethylbenzene	BDL	0.0010	mg/l	8260B	04/21/11	1
Total Xylenes	BDL	0.0030	mg/l	8260B	04/21/11	1
Surrogate Recovery						
Toluene-d8	105.		% Rec.	8260B	04/21/11	1
Dibromofluoromethane	96.4		% Rec.	8260B	04/21/11	1
a,a,a-Trifluorotoluene	102.		% Rec.	8260B	04/21/11	1
4-Bromofluorobenzene	98.5		% Rec.	8260B	04/21/11	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Mr. Michael Furtaw
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7761 Shaffer Pkwy, Ste 100
Littleton, CO 80127

April 27, 2011

Date Received : April 20, 2011
Description : AIG - Panenergy Corp - Annual GW Monitoring
Sample ID : LUP-MW07R DUP
Collected By : Michael Furtaw
Collection Date : 04/12/11 10:40

ESC Sample # : L512162-11

Site ID : PEC

Project # : 10552100000000009005

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	0.0010	mg/l	8260B	04/25/11	1
Toluene	BDL	0.0050	mg/l	8260B	04/21/11	1
Ethylbenzene	BDL	0.0010	mg/l	8260B	04/21/11	1
Total Xylenes	BDL	0.0030	mg/l	8260B	04/21/11	1
Surrogate Recovery						
Toluene-d8	107.		% Rec.	8260B	04/21/11	1
Dibromofluoromethane	97.2		% Rec.	8260B	04/21/11	1
a,a,a-Trifluorotoluene	102.		% Rec.	8260B	04/21/11	1
4-Bromofluorobenzene	98.6		% Rec.	8260B	04/21/11	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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Littleton, CO 80127

April 27, 2011

Date Received : April 20, 2011
Description : AIG - Panenergy Corp - Annual GW Monitoring
Sample ID : LUP-MW009
Collected By : Michael Furtaw
Collection Date : 04/12/11 12:15

ESC Sample # : L512162-12

Site ID : PEC

Project # : 10552100000000009005

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	2.5	0.025	mg/l	8260B	04/21/11	25
Toluene	BDL	0.12	mg/l	8260B	04/21/11	25
Ethylbenzene	0.66	0.025	mg/l	8260B	04/21/11	25
Total Xylenes	4.3	0.075	mg/l	8260B	04/21/11	25
Surrogate Recovery						
Toluene-d8	105.		% Rec.	8260B	04/21/11	25
Dibromofluoromethane	95.9		% Rec.	8260B	04/21/11	25
a,a,a-Trifluorotoluene	102.		% Rec.	8260B	04/21/11	25
4-Bromofluorobenzene	96.5		% Rec.	8260B	04/21/11	25

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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REPORT OF ANALYSIS

Mr. Michael Furtaw
TRC Solutions - Littleton
7761 Shaffer Pkwy, Ste 100
Littleton, CO 80127

April 27, 2011

Date Received : April 20, 2011
Description : AIG - Panenergy Corp - Annual GW Monitoring
Sample ID : LUP-MW010
Collected By : Michael Furtaw
Collection Date : 04/12/11 13:00

ESC Sample # : L512162-13

Site ID : PEC

Project # : 10552100000000009005

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	0.0011	0.0010	mg/l	8260B	04/21/11	1
Toluene	BDL	0.0050	mg/l	8260B	04/21/11	1
Ethylbenzene	0.016	0.0010	mg/l	8260B	04/21/11	1
Total Xylenes	0.098	0.0030	mg/l	8260B	04/21/11	1
Surrogate Recovery						
Toluene-d8	105.		% Rec.	8260B	04/21/11	1
Dibromofluoromethane	98.1		% Rec.	8260B	04/21/11	1
a,a,a-Trifluorotoluene	102.		% Rec.	8260B	04/21/11	1
4-Bromofluorobenzene	97.4		% Rec.	8260B	04/21/11	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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Littleton, CO 80127

April 27, 2011

Date Received : April 20, 2011
Description : AIG - Panenergy Corp - Annual GW Monitoring
Sample ID : LUP-MW012
Collected By : Michael Furtaw
Collection Date : 04/12/11 14:10

ESC Sample # : L512162-14

Site ID : PEC

Project # : 10552100000000009005

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	0.0010	mg/l	8260B	04/21/11	1
Toluene	BDL	0.0050	mg/l	8260B	04/21/11	1
Ethylbenzene	BDL	0.0010	mg/l	8260B	04/21/11	1
Total Xylenes	BDL	0.0030	mg/l	8260B	04/21/11	1
Surrogate Recovery						
Toluene-d8	106.		% Rec.	8260B	04/21/11	1
Dibromofluoromethane	96.4		% Rec.	8260B	04/21/11	1
a,a,a-Trifluorotoluene	102.		% Rec.	8260B	04/21/11	1
4-Bromofluorobenzene	96.2		% Rec.	8260B	04/21/11	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

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TRC Solutions - Littleton
7761 Shaffer Pkwy, Ste 100
Littleton, CO 80127

April 27, 2011

Date Received : April 20, 2011
Description : AIG - Panenergy Corp - Annual GW Monitoring
Sample ID : HMB-MW002
Collected By : Michael Furtaw
Collection Date : 04/12/11 09:00

ESC Sample # : L512162-15

Site ID : PEC

Project # : 10552100000000009005

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	0.0010	mg/l	8260B	04/21/11	1
Toluene	BDL	0.0050	mg/l	8260B	04/21/11	1
Ethylbenzene	BDL	0.0010	mg/l	8260B	04/21/11	1
Total Xylenes	BDL	0.0030	mg/l	8260B	04/21/11	1
Surrogate Recovery						
Toluene-d8	107.		% Rec.	8260B	04/21/11	1
Dibromofluoromethane	97.6		% Rec.	8260B	04/21/11	1
a,a,a-Trifluorotoluene	103.		% Rec.	8260B	04/21/11	1
4-Bromofluorobenzene	97.3		% Rec.	8260B	04/21/11	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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REPORT OF ANALYSIS

Mr. Michael Furtaw
TRC Solutions - Littleton
7761 Shaffer Pkwy, Ste 100
Littleton, CO 80127

April 27, 2011

Date Received : April 20, 2011
Description : AIG - Panenergy Corp - Annual GW Monitoring
Sample ID : HMB-MW009
Collected By : Michael Furtaw
Collection Date : 04/12/11 08:30

ESC Sample # : L512162-16

Site ID : PEC

Project # : 10552100000000009005

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	0.0013	0.0010	mg/l	8260B	04/21/11	1
Toluene	BDL	0.0050	mg/l	8260B	04/21/11	1
Ethylbenzene	0.0077	0.0010	mg/l	8260B	04/21/11	1
Total Xylenes	0.025	0.0030	mg/l	8260B	04/21/11	1
Surrogate Recovery						
Toluene-d8	105.		% Rec.	8260B	04/21/11	1
Dibromofluoromethane	96.2		% Rec.	8260B	04/21/11	1
a,a,a-Trifluorotoluene	99.9		% Rec.	8260B	04/21/11	1
4-Bromofluorobenzene	98.8		% Rec.	8260B	04/21/11	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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REPORT OF ANALYSIS

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TRC Solutions - Littleton
7761 Shaffer Pkwy, Ste 100
Littleton, CO 80127

April 27, 2011

Date Received : April 20, 2011
Description : AIG - Panenergy Corp - Annual GW Monitoring
Sample ID : HMB-MW011
Collected By : Michael Furtaw
Collection Date : 04/13/11 15:00

ESC Sample # : L512162-17

Site ID : PEC

Project # : 10552100000000009005

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	0.012	0.0010	mg/l	8260B	04/21/11	1
Toluene	BDL	0.0050	mg/l	8260B	04/21/11	1
Ethylbenzene	0.38	0.010	mg/l	8260B	04/21/11	10
Total Xylenes	1.3	0.030	mg/l	8260B	04/21/11	10
Surrogate Recovery						
Toluene-d8	92.5		% Rec.	8260B	04/21/11	1
Dibromofluoromethane	99.7		% Rec.	8260B	04/21/11	1
a,a,a-Trifluorotoluene	92.9		% Rec.	8260B	04/21/11	1
4-Bromofluorobenzene	97.3		% Rec.	8260B	04/21/11	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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Littleton, CO 80127

April 27, 2011

Date Received : April 20, 2011
Description : AIG - Panenergy Corp - Annual GW Monitoring
Sample ID : HMB-MW013
Collected By : Michael Furtaw
Collection Date : 04/13/11 13:30

ESC Sample # : L512162-18

Site ID : PEC

Project # : 10552100000000009005

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	0.74	0.010	mg/l	8260B	04/21/11	10
Toluene	BDL	0.0050	mg/l	8260B	04/21/11	1
Ethylbenzene	0.51	0.010	mg/l	8260B	04/21/11	10
Total Xylenes	3.3	0.030	mg/l	8260B	04/21/11	10
Surrogate Recovery						
Toluene-d8	93.5		% Rec.	8260B	04/21/11	1
Dibromofluoromethane	90.0		% Rec.	8260B	04/21/11	1
a,a,a-Trifluorotoluene	93.0		% Rec.	8260B	04/21/11	1
4-Bromofluorobenzene	93.2		% Rec.	8260B	04/21/11	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Mr. Michael Furtaw
TRC Solutions - Littleton
7761 Shaffer Pkwy, Ste 100
Littleton, CO 80127

April 27, 2011

Date Received : April 20, 2011
Description : AIG - Panenergy Corp - Annual GW Monitoring
Sample ID : HMB-MW014
Collected By : Michael Furtaw
Collection Date : 04/13/11 12:00

ESC Sample # : L512162-19

Site ID : PEC

Project # : 10552100000000009005

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	0.067	0.0010	mg/l	8260B	04/22/11	1
Toluene	BDL	0.0050	mg/l	8260B	04/22/11	1
Ethylbenzene	0.17	0.0010	mg/l	8260B	04/22/11	1
Total Xylenes	0.92	0.060	mg/l	8260B	04/23/11	20
Surrogate Recovery						
Toluene-d8	102.		% Rec.	8260B	04/22/11	1
Dibromofluoromethane	119.		% Rec.	8260B	04/22/11	1
a,a,a-Trifluorotoluene	98.4		% Rec.	8260B	04/22/11	1
4-Bromofluorobenzene	112.		% Rec.	8260B	04/22/11	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Mr. Michael Furtaw
TRC Solutions - Littleton
7761 Shaffer Pkwy, Ste 100
Littleton, CO 80127

April 27, 2011

Date Received : April 20, 2011
Description : AIG - Panenergy Corp - Annual GW Monitoring
Sample ID : HMB-MW018
Collected By : Michael Furtaw
Collection Date : 04/13/11 10:10

ESC Sample # : L512162-20

Site ID : PEC

Project # : 10552100000000009005

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	0.018	0.0010	mg/l	8260B	04/21/11	1
Toluene	BDL	0.0050	mg/l	8260B	04/21/11	1
Ethylbenzene	0.0086	0.0010	mg/l	8260B	04/21/11	1
Total Xylenes	0.011	0.0030	mg/l	8260B	04/21/11	1
Surrogate Recovery						
Toluene-d8	99.3		% Rec.	8260B	04/21/11	1
Dibromofluoromethane	93.8		% Rec.	8260B	04/21/11	1
a,a,a-Trifluorotoluene	110.		% Rec.	8260B	04/21/11	1
4-Bromofluorobenzene	112.		% Rec.	8260B	04/21/11	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Mr. Michael Furtaw
TRC Solutions - Littleton
7761 Shaffer Pkwy, Ste 100
Littleton, CO 80127

April 27, 2011

Date Received : April 20, 2011
Description : AIG - Panenergy Corp - Annual GW Monitoring
Sample ID : HMB-MW019
Collected By : Michael Furtaw
Collection Date : 04/13/11 11:15

ESC Sample # : L512162-21

Site ID : PEC

Project # : 10552100000000009005

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	0.0010	mg/l	8260B	04/21/11	1
Toluene	BDL	0.0050	mg/l	8260B	04/21/11	1
Ethylbenzene	BDL	0.0010	mg/l	8260B	04/21/11	1
Total Xylenes	BDL	0.0030	mg/l	8260B	04/21/11	1
Surrogate Recovery						
Toluene-d8	102.		% Rec.	8260B	04/21/11	1
Dibromofluoromethane	103.		% Rec.	8260B	04/21/11	1
a,a,a-Trifluorotoluene	104.		% Rec.	8260B	04/21/11	1
4-Bromofluorobenzene	101.		% Rec.	8260B	04/21/11	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Mr. Michael Furtaw
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7761 Shaffer Pkwy, Ste 100
Littleton, CO 80127

April 27, 2011

Date Received : April 20, 2011
Description : AIG - Panenergy Corp - Annual GW Monitoring
Sample ID : HUD-MW005
Collected By : Michael Furtaw
Collection Date : 04/15/11 08:40

ESC Sample # : L512162-22

Site ID : PEC

Project # : 10552100000000009005

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	0.0010	0.0010	mg/l	8260B	04/21/11	1
Toluene	BDL	0.0050	mg/l	8260B	04/21/11	1
Ethylbenzene	0.028	0.0010	mg/l	8260B	04/21/11	1
Total Xylenes	0.21	0.0030	mg/l	8260B	04/21/11	1
Surrogate Recovery						
Toluene-d8	102.		% Rec.	8260B	04/21/11	1
Dibromofluoromethane	95.4		% Rec.	8260B	04/21/11	1
a,a,a-Trifluorotoluene	104.		% Rec.	8260B	04/21/11	1
4-Bromofluorobenzene	106.		% Rec.	8260B	04/21/11	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Mr. Michael Furtaw
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7761 Shaffer Pkwy, Ste 100
Littleton, CO 80127

April 27, 2011

Date Received : April 20, 2011
Description : AIG - Panenergy Corp - Annual GW Monitoring
Sample ID : HUD-MW011
Collected By : Michael Furtaw
Collection Date : 04/15/11 07:55

ESC Sample # : L512162-23

Site ID : PEC

Project # : 10552100000000009005

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	0.025	mg/l	8260B	04/26/11	25
Toluene	BDL	0.12	mg/l	8260B	04/26/11	25
Ethylbenzene	0.17	0.025	mg/l	8260B	04/26/11	25
Total Xylenes	0.69	0.075	mg/l	8260B	04/26/11	25
Surrogate Recovery						
Toluene-d8	99.0		% Rec.	8260B	04/26/11	25
Dibromofluoromethane	96.5		% Rec.	8260B	04/26/11	25
a,a,a-Trifluorotoluene	102.		% Rec.	8260B	04/26/11	25
4-Bromofluorobenzene	106.		% Rec.	8260B	04/26/11	25

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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7761 Shaffer Pkwy, Ste 100
Littleton, CO 80127

April 27, 2011

Date Received : April 20, 2011
Description : AIG - Panenergy Corp - Annual GW Monitoring
Sample ID : HUD-MW012
Collected By : Michael Furtaw
Collection Date : 04/15/11 07:20

ESC Sample # : L512162-24

Site ID : PEC

Project # : 10552100000000009005

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	0.0010	mg/l	8260B	04/21/11	1
Toluene	BDL	0.0050	mg/l	8260B	04/21/11	1
Ethylbenzene	BDL	0.0010	mg/l	8260B	04/21/11	1
Total Xylenes	BDL	0.0030	mg/l	8260B	04/21/11	1
Surrogate Recovery						
Toluene-d8	99.9		% Rec.	8260B	04/21/11	1
Dibromofluoromethane	99.6		% Rec.	8260B	04/21/11	1
a,a,a-Trifluorotoluene	104.		% Rec.	8260B	04/21/11	1
4-Bromofluorobenzene	94.6		% Rec.	8260B	04/21/11	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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April 27, 2011

Date Received : April 20, 2011
Description : AIG - Panenergy Corp - Annual GW Monitoring
Sample ID : HUD-MW014
Collected By : Michael Furtaw
Collection Date : 04/15/11 10:00

ESC Sample # : L512162-25

Site ID : PEC

Project # : 10552100000000009005

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	0.0018	0.0010	mg/l	8260B	04/21/11	1
Toluene	BDL	0.0050	mg/l	8260B	04/21/11	1
Ethylbenzene	BDL	0.0010	mg/l	8260B	04/21/11	1
Total Xylenes	BDL	0.0030	mg/l	8260B	04/21/11	1
Surrogate Recovery						
Toluene-d8	103.		% Rec.	8260B	04/21/11	1
Dibromofluoromethane	101.		% Rec.	8260B	04/21/11	1
a,a,a-Trifluorotoluene	108.		% Rec.	8260B	04/21/11	1
4-Bromofluorobenzene	105.		% Rec.	8260B	04/21/11	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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7761 Shaffer Pkwy, Ste 100
Littleton, CO 80127

April 27, 2011

Date Received : April 20, 2011
Description : AIG - Panenergy Corp - Annual GW Monitoring
Sample ID : HUD-MW009
Collected By : Michael Furtaw
Collection Date : 04/15/11 09:25

ESC Sample # : L512162-26

Site ID : PEC

Project # : 10552100000000009005

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	0.0010	mg/l	8260B	04/21/11	1
Toluene	BDL	0.0050	mg/l	8260B	04/21/11	1
Ethylbenzene	BDL	0.0010	mg/l	8260B	04/21/11	1
Total Xylenes	BDL	0.0030	mg/l	8260B	04/21/11	1
Surrogate Recovery						
Toluene-d8	105.		% Rec.	8260B	04/21/11	1
Dibromofluoromethane	100.		% Rec.	8260B	04/21/11	1
a,a,a-Trifluorotoluene	109.		% Rec.	8260B	04/21/11	1
4-Bromofluorobenzene	101.		% Rec.	8260B	04/21/11	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Mr. Michael Furtaw
TRC Solutions - Littleton
7761 Shaffer Pkwy, Ste 100
Littleton, CO 80127

April 27, 2011

Date Received : April 20, 2011
Description : AIG - Panenergy Corp - Annual GW Monitoring
Sample ID : VLL-MW03A
Collected By : Michael Furtaw
Collection Date : 04/11/11 09:50

ESC Sample # : L512162-27

Site ID : PEC

Project # : 10552100000000009005

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	5.2	0.050	mg/l	8260B	04/21/11	50
Toluene	0.25	0.25	mg/l	8260B	04/21/11	50
Ethylbenzene	0.52	0.050	mg/l	8260B	04/21/11	50
Total Xylenes	7.4	0.15	mg/l	8260B	04/21/11	50
Surrogate Recovery						
Toluene-d8	105.		% Rec.	8260B	04/21/11	50
Dibromofluoromethane	95.4		% Rec.	8260B	04/21/11	50
a,a,a-Trifluorotoluene	101.		% Rec.	8260B	04/21/11	50
4-Bromofluorobenzene	97.0		% Rec.	8260B	04/21/11	50

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Mr. Michael Furtaw
TRC Solutions - Littleton
7761 Shaffer Pkwy, Ste 100
Littleton, CO 80127

April 27, 2011

Date Received : April 20, 2011
Description : AIG - Panenergy Corp - Annual GW Monitoring
Sample ID : VLL-MW03B
Collected By : Michael Furtaw
Collection Date : 04/11/11 10:35

ESC Sample # : L512162-28

Site ID : PEC

Project # : 10552100000000009005

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	0.43	0.010	mg/l	8260B	04/21/11	10
Toluene	BDL	0.050	mg/l	8260B	04/21/11	10
Ethylbenzene	0.34	0.010	mg/l	8260B	04/21/11	10
Total Xylenes	1.8	0.030	mg/l	8260B	04/21/11	10
Surrogate Recovery						
Toluene-d8	105.		% Rec.	8260B	04/21/11	10
Dibromofluoromethane	95.1		% Rec.	8260B	04/21/11	10
a,a,a-Trifluorotoluene	102.		% Rec.	8260B	04/21/11	10
4-Bromofluorobenzene	98.5		% Rec.	8260B	04/21/11	10

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Mr. Michael Furtaw
TRC Solutions - Littleton
7761 Shaffer Pkwy, Ste 100
Littleton, CO 80127

April 27, 2011

Date Received : April 20, 2011
Description : AIG - Panenergy Corp - Annual GW Monitoring
Sample ID : VLL-MW005
Collected By : Michael Furtaw
Collection Date : 04/11/11 11:30

ESC Sample # : L512162-29

Site ID : PEC

Project # : 10552100000000009005

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	0.0010	mg/l	8260B	04/21/11	1
Toluene	BDL	0.0050	mg/l	8260B	04/21/11	1
Ethylbenzene	BDL	0.0010	mg/l	8260B	04/21/11	1
Total Xylenes	BDL	0.0030	mg/l	8260B	04/21/11	1
Surrogate Recovery						
Toluene-d8	105.		% Rec.	8260B	04/21/11	1
Dibromofluoromethane	96.1		% Rec.	8260B	04/21/11	1
a,a,a-Trifluorotoluene	102.		% Rec.	8260B	04/21/11	1
4-Bromofluorobenzene	97.1		% Rec.	8260B	04/21/11	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Mr. Michael Furtaw
TRC Solutions - Littleton
7761 Shaffer Pkwy, Ste 100
Littleton, CO 80127

April 27, 2011

Date Received : April 20, 2011
Description : AIG - Panenergy Corp - Annual GW Monitoring
Sample ID : VLL-MW007
Collected By : Michael Furtaw
Collection Date : 04/11/11 12:00

ESC Sample # : L512162-30

Site ID : PEC

Project # : 10552100000000009005

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	0.72	0.050	mg/l	8260B	04/21/11	50
Toluene	1.5	0.25	mg/l	8260B	04/21/11	50
Ethylbenzene	0.66	0.050	mg/l	8260B	04/21/11	50
Total Xylenes	9.1	0.15	mg/l	8260B	04/21/11	50
Surrogate Recovery						
Toluene-d8	104.		% Rec.	8260B	04/21/11	50
Dibromofluoromethane	95.9		% Rec.	8260B	04/21/11	50
a,a,a-Trifluorotoluene	101.		% Rec.	8260B	04/21/11	50
4-Bromofluorobenzene	98.0		% Rec.	8260B	04/21/11	50

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

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TRC Solutions - Littleton
7761 Shaffer Pkwy, Ste 100
Littleton, CO 80127

April 27, 2011

Date Received : April 20, 2011
Description : AIG - Panenergy Corp - Annual GW Monitoring
Sample ID : VLL-MW009
Collected By : Michael Furtaw
Collection Date : 04/11/11 13:15

ESC Sample # : L512162-31

Site ID : PEC

Project # : 10552100000000009005

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	6.3	0.20	mg/l	8260B	04/25/11	200
Toluene	BDL	0.12	mg/l	8260B	04/21/11	25
Ethylbenzene	0.38	0.025	mg/l	8260B	04/21/11	25
Total Xylenes	3.5	0.075	mg/l	8260B	04/21/11	25
Surrogate Recovery						
Toluene-d8	104.		% Rec.	8260B	04/21/11	25
Dibromofluoromethane	96.1		% Rec.	8260B	04/21/11	25
a,a,a-Trifluorotoluene	99.7		% Rec.	8260B	04/21/11	25
4-Bromofluorobenzene	96.4		% Rec.	8260B	04/21/11	25

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

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TRC Solutions - Littleton
7761 Shaffer Pkwy, Ste 100
Littleton, CO 80127

April 27, 2011

Date Received : April 20, 2011
Description : AIG - Panenergy Corp - Annual GW Monitoring
Sample ID : VLL-MW010
Collected By : Michael Furtaw
Collection Date : 04/11/11 13:50

ESC Sample # : L512162-32

Site ID : PEC

Project # : 10552100000000009005

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	0.0010	mg/l	8260B	04/25/11	1
Toluene	BDL	0.0050	mg/l	8260B	04/21/11	1
Ethylbenzene	BDL	0.0010	mg/l	8260B	04/21/11	1
Total Xylenes	BDL	0.0030	mg/l	8260B	04/21/11	1
Surrogate Recovery						
Toluene-d8	106.		% Rec.	8260B	04/21/11	1
Dibromofluoromethane	97.0		% Rec.	8260B	04/21/11	1
a,a,a-Trifluorotoluene	102.		% Rec.	8260B	04/21/11	1
4-Bromofluorobenzene	96.4		% Rec.	8260B	04/21/11	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

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TRC Solutions - Littleton
7761 Shaffer Pkwy, Ste 100
Littleton, CO 80127

April 27, 2011

Date Received : April 20, 2011
Description : AIG - Panenergy Corp - Annual GW Monitoring
Sample ID : VLL-MW011
Collected By : Michael Furtaw
Collection Date : 04/12/11 08:45

ESC Sample # : L512162-33

Site ID : PEC

Project # : 10552100000000009005

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	0.0010	mg/l	8260B	04/25/11	1
Toluene	BDL	0.0050	mg/l	8260B	04/21/11	1
Ethylbenzene	BDL	0.0010	mg/l	8260B	04/21/11	1
Total Xylenes	BDL	0.0030	mg/l	8260B	04/21/11	1
Surrogate Recovery						
Toluene-d8	107.		% Rec.	8260B	04/21/11	1
Dibromofluoromethane	98.5		% Rec.	8260B	04/21/11	1
a,a,a-Trifluorotoluene	103.		% Rec.	8260B	04/21/11	1
4-Bromofluorobenzene	94.6		% Rec.	8260B	04/21/11	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

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Reported: 04/27/11 10:31 Printed: 04/27/11 10:32



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Est. 1970

REPORT OF ANALYSIS

Mr. Michael Furtaw
TRC Solutions - Littleton
7761 Shaffer Pkwy, Ste 100
Littleton, CO 80127

April 27, 2011

Date Received : April 20, 2011
Description : AIG - Panenergy Corp - Annual GW Monitoring
Sample ID : VLL-MW013
Collected By : Michael Furtaw
Collection Date : 04/11/11 14:35

ESC Sample # : L512162-34

Site ID : PEC

Project # : 10552100000000009005

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	6.9	0.20	mg/l	8260B	04/25/11	200
Toluene	BDL	0.12	mg/l	8260B	04/21/11	25
Ethylbenzene	0.43	0.025	mg/l	8260B	04/21/11	25
Total Xylenes	4.6	0.075	mg/l	8260B	04/21/11	25
Surrogate Recovery						
Toluene-d8	105.		% Rec.	8260B	04/21/11	25
Dibromofluoromethane	96.2		% Rec.	8260B	04/21/11	25
a,a,a-Trifluorotoluene	101.		% Rec.	8260B	04/21/11	25
4-Bromofluorobenzene	96.9		% Rec.	8260B	04/21/11	25

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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REPORT OF ANALYSIS

Mr. Michael Furtaw
TRC Solutions - Littleton
7761 Shaffer Pkwy, Ste 100
Littleton, CO 80127

April 27, 2011

Date Received : April 20, 2011
Description : AIG - Panenergy Corp - Annual GW Monitoring
Sample ID : TRIPBLANK
Collected By : Michael Furtaw
Collection Date : 04/11/11 00:00

ESC Sample # : L512162-35

Site ID : PEC

Project # : 10552100000000009005

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	0.0010	mg/l	8260B	04/20/11	1
Toluene	BDL	0.0050	mg/l	8260B	04/20/11	1
Ethylbenzene	BDL	0.0010	mg/l	8260B	04/20/11	1
Total Xylenes	BDL	0.0030	mg/l	8260B	04/20/11	1
Surrogate Recovery						
Toluene-d8	106.		% Rec.	8260B	04/20/11	1
Dibromofluoromethane	97.2		% Rec.	8260B	04/20/11	1
a,a,a-Trifluorotoluene	101.		% Rec.	8260B	04/20/11	1
4-Bromofluorobenzene	97.7		% Rec.	8260B	04/20/11	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L512162-19	WG532192	SAMP	Ethylbenzene	R1660130	V

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
V	(ESC) - Additional QC Info: The sample concentration is too high to evaluate accurate spike recoveries.

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods, it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable "unless qualified as 'R' (Rejected)."

Definitions

- Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.
- Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Difference.
- Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromatography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.
- TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

[illegible]



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April 27, 2011

Analyte	Result	Laboratory Blank		Limit	Batch	Date Analyzed
		Units	% Rec			
Benzene	< .001	mg/l			WG531994	04/21/11 01:54
Ethylbenzene	< .001	mg/l			WG531994	04/21/11 01:54
Toluene	< .005	mg/l			WG531994	04/21/11 01:54
Total Xylenes	< .003	mg/l			WG531994	04/21/11 01:54
4-Bromofluorobenzene		% Rec.	98.25	75-128	WG531994	04/21/11 01:54
Dibromofluoromethane		% Rec.	105.9	79-125	WG531994	04/21/11 01:54
Toluene-d8		% Rec.	101.6	87-114	WG531994	04/21/11 01:54
a,a,a-Trifluorotoluene		% Rec.	106.1	84-114	WG531994	04/21/11 01:54
Benzene	< .001	mg/l			WG532110	04/21/11 12:04
Ethylbenzene	< .001	mg/l			WG532110	04/21/11 12:04
Toluene	< .005	mg/l			WG532110	04/21/11 12:04
Total Xylenes	< .003	mg/l			WG532110	04/21/11 12:04
4-Bromofluorobenzene		% Rec.	113.2	75-128	WG532110	04/21/11 12:04
Dibromofluoromethane		% Rec.	92.98	79-125	WG532110	04/21/11 12:04
Toluene-d8		% Rec.	100.4	87-114	WG532110	04/21/11 12:04
a,a,a-Trifluorotoluene		% Rec.	112.1	84-114	WG532110	04/21/11 12:04
Benzene	< .001	mg/l			WG532012	04/21/11 07:34
Ethylbenzene	< .001	mg/l			WG532012	04/21/11 07:34
Toluene	< .005	mg/l			WG532012	04/21/11 07:34
Total Xylenes	< .003	mg/l			WG532012	04/21/11 07:34
4-Bromofluorobenzene		% Rec.	97.10	75-128	WG532012	04/21/11 07:34
Dibromofluoromethane		% Rec.	105.1	79-125	WG532012	04/21/11 07:34
Toluene-d8		% Rec.	105.5	87-114	WG532012	04/21/11 07:34
a,a,a-Trifluorotoluene		% Rec.	111.2	84-114	WG532012	04/21/11 07:34
Benzene	< .001	mg/l			WG532192	04/22/11 13:14
Ethylbenzene	< .001	mg/l			WG532192	04/22/11 13:14
Toluene	< .005	mg/l			WG532192	04/22/11 13:14
4-Bromofluorobenzene		% Rec.	97.24	75-128	WG532192	04/22/11 13:14
Dibromofluoromethane		% Rec.	122.7	79-125	WG532192	04/22/11 13:14
Toluene-d8		% Rec.	102.8	87-114	WG532192	04/22/11 13:14
a,a,a-Trifluorotoluene		% Rec.	99.86	84-114	WG532192	04/22/11 13:14
Benzene	< .001	mg/l			WG531986	04/20/11 22:11
Ethylbenzene	< .001	mg/l			WG531986	04/20/11 22:11
Toluene	< .005	mg/l			WG531986	04/20/11 22:11
Total Xylenes	< .003	mg/l			WG531986	04/20/11 22:11
4-Bromofluorobenzene		% Rec.	95.34	75-128	WG531986	04/20/11 22:11
Dibromofluoromethane		% Rec.	96.03	79-125	WG531986	04/20/11 22:11
Toluene-d8		% Rec.	105.8	87-114	WG531986	04/20/11 22:11
a,a,a-Trifluorotoluene		% Rec.	102.3	84-114	WG531986	04/20/11 22:11
Benzene	< .001	mg/l			WG532582	04/25/11 05:00
4-Bromofluorobenzene		% Rec.	101.7	75-128	WG532582	04/25/11 05:00
Dibromofluoromethane		% Rec.	100.8	79-125	WG532582	04/25/11 05:00
Toluene-d8		% Rec.	100.8	87-114	WG532582	04/25/11 05:00
a,a,a-Trifluorotoluene		% Rec.	102.8	84-114	WG532582	04/25/11 05:00
Total Xylenes	< .003	mg/l			WG532385	04/23/11 01:14
4-Bromofluorobenzene		% Rec.	104.9	75-128	WG532385	04/23/11 01:14
Dibromofluoromethane		% Rec.	96.85	79-125	WG532385	04/23/11 01:14

* Performance of this Analyte is outside of established criteria.

For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



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April 27, 2011

Analyte	Result	Laboratory Blank		Limit	Batch	Date Analyzed
		Units	% Rec			
Toluene-d8		% Rec.	106.6	87-114		04/23/11 01:14
a,a,a-Trifluorotoluene		% Rec.	100.6	84-114		04/23/11 01:14
Benzene	< .001	mg/l			WG532817	04/26/11 11:46
Ethylbenzene	< .001	mg/l			WG532817	04/26/11 11:46
Toluene	< .005	mg/l			WG532817	04/26/11 11:46
Total Xylenes	< .003	mg/l			WG532817	04/26/11 11:46
4-Bromofluorobenzene		% Rec.	101.2	75-128	WG532817	04/26/11 11:46
Dibromofluoromethane		% Rec.	99.27	79-125	WG532817	04/26/11 11:46
Toluene-d8		% Rec.	99.52	87-114	WG532817	04/26/11 11:46
a,a,a-Trifluorotoluene		% Rec.	103.4	84-114	WG532817	04/26/11 11:46

Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch
		Known Val	Result			
Benzene	mg/l	.025	0.0208	83.3	67-126	WG531994
Ethylbenzene	mg/l	.025	0.0202	80.8	76-129	WG531994
Toluene	mg/l	.025	0.0210	84.2	72-122	WG531994
Total Xylenes	mg/l	.075	0.0597	79.6	75-128	WG531994
4-Bromofluorobenzene				96.79	75-128	WG531994
Dibromofluoromethane				99.12	79-125	WG531994
Toluene-d8				104.6	87-114	WG531994
a,a,a-Trifluorotoluene				103.6	84-114	WG531994
Benzene	mg/l	.025	0.0217	86.8	67-126	WG532110
Ethylbenzene	mg/l	.025	0.0282	113.	76-129	WG532110
Toluene	mg/l	.025	0.0251	100.	72-122	WG532110
Total Xylenes	mg/l	.075	0.0844	113.	75-128	WG532110
4-Bromofluorobenzene				111.7	75-128	WG532110
Dibromofluoromethane				95.53	79-125	WG532110
Toluene-d8				100.2	87-114	WG532110
a,a,a-Trifluorotoluene				112.4	84-114	WG532110
Benzene	mg/l	.025	0.0278	111.	67-126	WG532012
Ethylbenzene	mg/l	.025	0.0259	103.	76-129	WG532012
Toluene	mg/l	.025	0.0241	96.4	72-122	WG532012
Total Xylenes	mg/l	.075	0.0753	100.	75-128	WG532012
4-Bromofluorobenzene				90.41	75-128	WG532012
Dibromofluoromethane				101.3	79-125	WG532012
Toluene-d8				108.4	87-114	WG532012
a,a,a-Trifluorotoluene				109.8	84-114	WG532012
Benzene	mg/l	.025	0.0197	78.8	67-126	WG532192
Ethylbenzene	mg/l	.025	0.0206	82.4	76-129	WG532192
Toluene	mg/l	.025	0.0195	77.9	72-122	WG532192
4-Bromofluorobenzene				101.9	75-128	WG532192
Dibromofluoromethane				120.8	79-125	WG532192
Toluene-d8				103.9	87-114	WG532192
a,a,a-Trifluorotoluene				97.03	84-114	WG532192
Benzene	mg/l	.025	0.0194	77.6	67-126	WG531986
Ethylbenzene	mg/l	.025	0.0193	77.1	76-129	WG531986
Toluene	mg/l	.025	0.0198	79.2	72-122	WG531986
Total Xylenes	mg/l	.075	0.0576	76.8	75-128	WG531986
4-Bromofluorobenzene				95.87	75-128	WG531986
Dibromofluoromethane				96.32	79-125	WG531986

* Performance of this Analyte is outside of established criteria.

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Analyte	Units	Laboratory Control		Sample	% Rec	Limit	Batch
		Known	Val	Result			
Toluene-d8					105.9	87-114	
a,a,a-Trifluorotoluene					102.5	84-114	
Benzene	mg/l	.025		0.0247	98.7	67-126	WG532582
4-Bromofluorobenzene					97.21	75-128	WG532582
Dibromofluoromethane					109.6	79-125	WG532582
Toluene-d8					100.4	87-114	WG532582
a,a,a-Trifluorotoluene					101.5	84-114	WG532582
Total Xylenes	mg/l	.075		0.0688	91.8	75-128	WG532385
4-Bromofluorobenzene					95.67	75-128	WG532385
Dibromofluoromethane					101.1	79-125	WG532385
Toluene-d8					104.3	87-114	WG532385
a,a,a-Trifluorotoluene					104.8	84-114	WG532385
Benzene	mg/l	.025		0.0199	79.7	67-126	WG532817
Ethylbenzene	mg/l	.025		0.0244	97.5	76-129	WG532817
Toluene	mg/l	.025		0.0233	93.2	72-122	WG532817
Total Xylenes	mg/l	.075		0.0720	95.9	75-128	WG532817
4-Bromofluorobenzene					102.4	75-128	WG532817
Dibromofluoromethane					97.71	79-125	WG532817
Toluene-d8					99.48	87-114	WG532817
a,a,a-Trifluorotoluene					102.2	84-114	WG532817

Analyte	Units	Laboratory Control		Sample Duplicate	Limit	RPD	Limit	Batch
		Result	Ref	%Rec				
Benzene	mg/l	0.0215	0.0208	86.0	67-126	3.29	20	WG531994
Ethylbenzene	mg/l	0.0210	0.0202	84.0	76-129	3.96	20	WG531994
Toluene	mg/l	0.0215	0.0210	86.0	72-122	2.19	20	WG531994
Total Xylenes	mg/l	0.0630	0.0597	84.0	75-128	5.42	20	WG531994
4-Bromofluorobenzene				100.1	75-128			WG531994
Dibromofluoromethane				103.3	79-125			WG531994
Toluene-d8				101.8	87-114			WG531994
a,a,a-Trifluorotoluene				104.6	84-114			WG531994
Benzene	mg/l	0.0209	0.0217	84.0	67-126	3.62	20	WG532110
Ethylbenzene	mg/l	0.0277	0.0282	111.	76-129	1.88	20	WG532110
Toluene	mg/l	0.0243	0.0251	97.0	72-122	3.27	20	WG532110
Total Xylenes	mg/l	0.0820	0.0844	109.	75-128	2.86	20	WG532110
4-Bromofluorobenzene				114.6	75-128			WG532110
Dibromofluoromethane				94.14	79-125			WG532110
Toluene-d8				101.2	87-114			WG532110
a,a,a-Trifluorotoluene				112.8	84-114			WG532110
Benzene	mg/l	0.0263	0.0278	105.	67-126	5.38	20	WG532012
Ethylbenzene	mg/l	0.0253	0.0259	101.	76-129	2.36	20	WG532012
Toluene	mg/l	0.0239	0.0241	96.0	72-122	0.830	20	WG532012
Total Xylenes	mg/l	0.0747	0.0753	100.	75-128	0.870	20	WG532012
4-Bromofluorobenzene				94.34	75-128			WG532012
Dibromofluoromethane				100.1	79-125			WG532012
Toluene-d8				110.5	87-114			WG532012
a,a,a-Trifluorotoluene				106.5	84-114			WG532012
Benzene	mg/l	0.0198	0.0197	79.0	67-126	0.330	20	WG532192

* Performance of this Analyte is outside of established criteria.

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Analyte	Units	Laboratory Control		Sample Duplicate		Limit	RPD	Limit	Batch
		Result	Ref	%Rec					
Ethylbenzene	mg/l	0.0213	0.0206	85.0		76-129	3.21	20	WG532192
Toluene	mg/l	0.0193	0.0195	77.0		72-122	0.820	20	WG532192
4-Bromofluorobenzene				100.3		75-128			WG532192
Dibromofluoromethane				119.6		79-125			WG532192
Toluene-d8				103.0		87-114			WG532192
a,a,a-Trifluorotoluene				98.69		84-114			WG532192
Benzene	mg/l	0.0222	0.0194	89.0		67-126	13.3	20	WG531986
Ethylbenzene	mg/l	0.0220	0.0193	88.0		76-129	13.1	20	WG531986
Toluene	mg/l	0.0226	0.0198	90.0		72-122	13.3	20	WG531986
Total Xylenes	mg/l	0.0651	0.0576	87.0		75-128	12.2	20	WG531986
4-Bromofluorobenzene				95.41		75-128			WG531986
Dibromofluoromethane				97.19		79-125			WG531986
Toluene-d8				106.4		87-114			WG531986
a,a,a-Trifluorotoluene				103.4		84-114			WG531986
Benzene	mg/l	0.0217	0.0247	87.0		67-126	13.0	20	WG532582
4-Bromofluorobenzene				98.42		75-128			WG532582
Dibromofluoromethane				102.7		79-125			WG532582
Toluene-d8				101.9		87-114			WG532582
a,a,a-Trifluorotoluene				103.6		84-114			WG532582
Total Xylenes	mg/l	0.0622	0.0688	83.0		75-128	10.2	20	WG532385
4-Bromofluorobenzene				100.4		75-128			WG532385
Dibromofluoromethane				102.1		79-125			WG532385
Toluene-d8				101.6		87-114			WG532385
a,a,a-Trifluorotoluene				102.6		84-114			WG532385
Benzene	mg/l	0.0202	0.0199	81.0		67-126	1.56	20	WG532817
Ethylbenzene	mg/l	0.0250	0.0244	100.		76-129	2.58	20	WG532817
Toluene	mg/l	0.0237	0.0233	95.0		72-122	1.88	20	WG532817
Total Xylenes	mg/l	0.0740	0.0720	99.0		75-128	2.82	20	WG532817
4-Bromofluorobenzene				103.3		75-128			WG532817
Dibromofluoromethane				98.47		79-125			WG532817
Toluene-d8				99.52		87-114			WG532817
a,a,a-Trifluorotoluene				102.2		84-114			WG532817

Analyte	Units	Matrix Spike		TV	% Rec	Limit	Ref Samp	Batch
		MS Res	Ref Res					
Benzene	mg/l	0.0240	0.00190	.025	88.5	16-158	L512162-01	WG531994
Ethylbenzene	mg/l	0.0215	0	.025	85.9	29-150	L512162-01	WG531994
Toluene	mg/l	0.0221	0	.025	88.4	22-152	L512162-01	WG531994
Total Xylenes	mg/l	0.0627	0	.075	83.6	27-151	L512162-01	WG531994
4-Bromofluorobenzene					95.17	75-128		WG531994
Dibromofluoromethane					99.90	79-125		WG531994
Toluene-d8					102.8	87-114		WG531994
a,a,a-Trifluorotoluene					104.0	84-114		WG531994
Benzene	mg/l	0.0275	0	.025	110.	16-158	L512192-05	WG532110
Ethylbenzene	mg/l	0.0348	0	.025	139.	29-150	L512192-05	WG532110
Toluene	mg/l	0.0312	0	.025	125.	22-152	L512192-05	WG532110
Total Xylenes	mg/l	0.103	0	.075	137.	27-151	L512192-05	WG532110
4-Bromofluorobenzene					112.2	75-128		WG532110

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Est. 1970

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Analyte	Units	MS Res	Matrix Spike		% Rec	Limit	Ref Samp	Batch
			Ref Res	TV				
Dibromofluoromethane					91.73	79-125		
Toluene-d8					99.95	87-114		
a,a,a-Trifluorotoluene					113.6	84-114		
Benzene	mg/l	0.0277	0	.025	111.	16-158	L512178-01	WG532012
Ethylbenzene	mg/l	0.0239	0	.025	95.7	29-150	L512178-01	WG532012
Toluene	mg/l	0.0277	0	.025	111.	22-152	L512178-01	WG532012
Total Xylenes	mg/l	0.0726	0	.075	96.7	27-151	L512178-01	WG532012
4-Bromofluorobenzene					89.30	75-128		WG532012
Dibromofluoromethane					97.08	79-125		WG532012
Toluene-d8					112.2	87-114		WG532012
a,a,a-Trifluorotoluene					108.3	84-114		WG532012
Benzene	mg/l	0.0849	0.0670	.025	71.7	16-158	L512162-19	WG532192
Ethylbenzene	mg/l	0.175	0.170	.025	18.9*	29-150	L512162-19	WG532192
Toluene	mg/l	0.0224	0	.025	89.4	22-152	L512162-19	WG532192
4-Bromofluorobenzene					104.0	75-128		WG532192
Dibromofluoromethane					117.9	79-125		WG532192
Toluene-d8					101.5	87-114		WG532192
a,a,a-Trifluorotoluene					97.85	84-114		WG532192
Benzene	mg/l	0.0211	0	.025	84.6	16-158	L512144-01	WG531986
Ethylbenzene	mg/l	0.0207	0	.025	82.6	29-150	L512144-01	WG531986
Toluene	mg/l	0.0215	0	.025	86.1	22-152	L512144-01	WG531986
Total Xylenes	mg/l	0.0615	0	.075	81.9	27-151	L512144-01	WG531986
4-Bromofluorobenzene					93.80	75-128		WG531986
Dibromofluoromethane					95.72	79-125		WG531986
Toluene-d8					105.8	87-114		WG531986
a,a,a-Trifluorotoluene					102.7	84-114		WG531986
Benzene	mg/l	0.0331	0.0190	.025	56.3	16-158	L511858-03	WG532582
4-Bromofluorobenzene					100.6	75-128		WG532582
Dibromofluoromethane					103.3	79-125		WG532582
Toluene-d8					102.8	87-114		WG532582
a,a,a-Trifluorotoluene					103.8	84-114		WG532582
Total Xylenes	mg/l	0.0527	0	.075	70.3	27-151	L512595-01	WG532385
4-Bromofluorobenzene					99.53	75-128		WG532385
Dibromofluoromethane					106.0	79-125		WG532385
Toluene-d8					107.9	87-114		WG532385
a,a,a-Trifluorotoluene					104.7	84-114		WG532385
Benzene	mg/l	0.0231	0.00130	.025	87.2	16-158	L512104-11	WG532817
Ethylbenzene	mg/l	0.0273	0.00230	.025	100.	29-150	L512104-11	WG532817
Toluene	mg/l	0.0251	0	.025	100.	22-152	L512104-11	WG532817
Total Xylenes	mg/l	0.0826	0.00870	.075	98.5	27-151	L512104-11	WG532817
4-Bromofluorobenzene					102.1	75-128		WG532817
Dibromofluoromethane					101.5	79-125		WG532817
Toluene-d8					99.84	87-114		WG532817
a,a,a-Trifluorotoluene					101.8	84-114		WG532817

Analyte	Units	MSD	Matrix Spike Duplicate		Limit	RPD	Limit	Ref Samp	Batch
			Ref	%Rec					
Benzene	mg/l	0.0251	0.0240	92.9	16-158	4.45	21	L512162-01	WG531994

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Analyte	Units	MSD	Matrix Spike	Duplicate	Limit	RPD	Limit	Ref	Samp	Batch
			Ref	%Rec						
Ethylbenzene	mg/l	0.0217	0.0215	86.7	29-150	0.950	24	L512162-01		WG531994
Toluene	mg/l	0.0228	0.0221	91.4	22-152	3.32	22	L512162-01		WG531994
Total Xylenes	mg/l	0.0660	0.0627	88.0	27-151	5.18	23	L512162-01		WG531994
4-Bromofluorobenzene				93.69	75-128					WG531994
Dibromofluoromethane				108.3	79-125					WG531994
Toluene-d8				103.1	87-114					WG531994
a,a,a-Trifluorotoluene				110.6	84-114					WG531994
Benzene	mg/l	0.0257	0.0275	103.	16-158	6.68	21	L512192-05		WG532110
Ethylbenzene	mg/l	0.0318	0.0348	127.	29-150	8.85	24	L512192-05		WG532110
Toluene	mg/l	0.0281	0.0312	112.	22-152	10.5	22	L512192-05		WG532110
Total Xylenes	mg/l	0.0926	0.103	123.	27-151	10.4	23	L512192-05		WG532110
4-Bromofluorobenzene				111.9	75-128					WG532110
Dibromofluoromethane				96.69	79-125					WG532110
Toluene-d8				100.5	87-114					WG532110
a,a,a-Trifluorotoluene				112.4	84-114					WG532110
Benzene	mg/l	0.0254	0.0277	102.	16-158	8.46	21	L512178-01		WG532012
Ethylbenzene	mg/l	0.0237	0.0239	94.9	29-150	0.820	24	L512178-01		WG532012
Toluene	mg/l	0.0237	0.0277	94.7	22-152	15.7	22	L512178-01		WG532012
Total Xylenes	mg/l	0.0696	0.0726	92.8	27-151	4.12	23	L512178-01		WG532012
4-Bromofluorobenzene				94.68	75-128					WG532012
Dibromofluoromethane				105.3	79-125					WG532012
Toluene-d8				111.2	87-114					WG532012
a,a,a-Trifluorotoluene				103.4	84-114					WG532012
Benzene	mg/l	0.0865	0.0849	78.0	16-158	1.82	21	L512162-19		WG532192
Ethylbenzene	mg/l	0.172	0.175	9.28*	29-150	1.39	24	L512162-19		WG532192
Toluene	mg/l	0.0224	0.0224	89.4	22-152	0.0200	22	L512162-19		WG532192
4-Bromofluorobenzene				100.7	75-128					WG532192
Dibromofluoromethane				115.4	79-125					WG532192
Toluene-d8				100.0	87-114					WG532192
a,a,a-Trifluorotoluene				97.93	84-114					WG532192
Benzene	mg/l	0.0214	0.0211	85.7	16-158	1.29	21	L512144-01		WG531986
Ethylbenzene	mg/l	0.0213	0.0207	85.0	29-150	2.91	24	L512144-01		WG531986
Toluene	mg/l	0.0219	0.0215	87.7	22-152	1.88	22	L512144-01		WG531986
Total Xylenes	mg/l	0.0626	0.0615	83.4	27-151	1.83	23	L512144-01		WG531986
4-Bromofluorobenzene				93.75	75-128					WG531986
Dibromofluoromethane				96.59	79-125					WG531986
Toluene-d8				106.0	87-114					WG531986
a,a,a-Trifluorotoluene				103.3	84-114					WG531986
Benzene	mg/l	0.0328	0.0331	55.2	16-158	0.820	21	L511858-03		WG532582
4-Bromofluorobenzene				99.90	75-128					WG532582
Dibromofluoromethane				102.2	79-125					WG532582
Toluene-d8				102.4	87-114					WG532582
a,a,a-Trifluorotoluene				103.1	84-114					WG532582
Total Xylenes	mg/l	0.0591	0.0527	78.8	27-151	11.5	23	L512595-01		WG532385
4-Bromofluorobenzene				101.3	75-128					WG532385
Dibromofluoromethane				104.2	79-125					WG532385
Toluene-d8				106.2	87-114					WG532385

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Analyte	Units	MSD	Matrix Spike Duplicate		Limit	RPD	Limit	Ref	Samp	Batch
			Ref	%Rec						
a,a,a-Trifluorotoluene				104.6	84-114					
Benzene	mg/l	0.0218	0.0231	82.1	16-158	5.60	21	L512104-11		WG532817
Ethylbenzene	mg/l	0.0277	0.0273	102.	29-150	1.59	24	L512104-11		WG532817
Toluene	mg/l	0.0247	0.0251	98.8	22-152	1.47	22	L512104-11		WG532817
Total Xylenes	mg/l	0.0835	0.0826	99.7	27-151	1.03	23	L512104-11		WG532817
4-Bromofluorobenzene				102.9	75-128					WG532817
Dibromofluoromethane				99.37	79-125					WG532817
Toluene-d8				100.2	87-114					WG532817
a,a,a-Trifluorotoluene				103.4	84-114					WG532817

Batch number /Run number / Sample number cross reference

WG531994: R1658029: L512162-01 02 03 04 05 06 07 17 18
WG532110: R1659469: L512162-17 18 20
WG532012: R1660129: L512162-21 22 24 25 26
WG532192: R1660130: L512162-19
WG531986: R1661049: L512162-08 09 10 11 12 13 14 15 16 27 28 29 30 31 32 33 34 35
WG532582: R1661849: L512162-09 10 11 31 32 33 34
WG532385: R1662555: L512162-19
WG532817: R1664069: L512162-23

* * Calculations are performed prior to rounding of reported values.

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The data package includes a summary of the analytic results of the quality control samples required by the SW-846 or CWA methods. The quality control samples include a method blank, a laboratory control sample, and the matrix spike/matrix spike duplicate analysis. If a target parameter is outside the method limits, every sample that is effected is flagged with the appropriate qualifier in Appendix B of the analytic report.

Method Blank - an aliquot of reagent water carried through the entire analytic process. The method blank results indicate if any possible contamination exposure during the sample handling, digestion or extraction process, and analysis. Concentrations of target analytes above the reporting limit in the method blank are qualified with the "B" qualifier.

Laboratory Control Sample - is a sample of known concentration that is carried through the digestion/extraction and analysis process. The percent recovery, expressed as a percentage of the theoretical concentration, has statistical control limits indicating that the analytic process is "in control". If a target analyte is outside the control limits for the laboratory control sample or any other control sample, the parameter is flagged with a "J4" qualifier for all effected samples.

Matrix Spike and Matrix Spike Duplicate - is two aliquots of an environmental sample that is spiked with known concentrations of target analytes. The percent recovery of the target analytes also has statistical control limits. If any recoveries that are outside the method control limits, the sample that was selected for matrix spike/matrix spike duplicate analysis is flagged with either a "J5" or a "J6". The relative percent difference (%RPD) between the matrix spike and the matrix spike duplicate recoveries is all calculated. If the RPD is above the method limit, the effected samples are flagged with a "J3" qualifier.

APPENDIX B

HAMBERT STATION QUALITY CONTROL SUMMARY REPORT

2011 WATER QUALITY MONITORING EVENT

SECTION 1: COC, SAMPLE SHIPMENT AND DATA COMPLETENESS

Chain of Custody

The chain-of-custody (COC) was filled out correctly and completely.

Sample Preservation and Integrity

The bottles for the analysis of BTEX were pre-preserved with hydrochloric acid (HCl). The laboratory did not indicate arrival condition of samples, but there were no flags or narrative indicating any issues. Samples were couriered to the laboratory in appropriate containers. All sample preparation and analysis hold times were satisfied.

Data Completeness

Results for all target analytes are reported with no additional analytes. The samples were analyzed for BTEX using Method 8260B. Reported detection/reporting limits agree with the project quality objectives. Samples HMB-MW002 and HMB-MW009 were both reported with the incorrect sample collection date of 4/12/2011, which was correctly filled out in the COC as 4/14/2011. Ground water samples were collected from all seven monitoring wells in accordance to the sampling plan.

SECTION 2: ANALYTICAL METHOD QA RESULTS

Method 8260B: BTEX

Calibration and Sample Frequency

Seven ground water samples from this site were analyzed by EPA Method SW8260B for BTEX. Initial and continuing instrument calibration analyses were performed; however calibration data are not reported. For each analytical batch, results are available for a minimum of one method blank and laboratory control sample/laboratory control sample duplicate (LCS/LCSD) pair. Matrix spike/matrix spike duplicate (MS/MSD) pair results are available for all analytical batches included in this report. Surrogate spike results are provided for each field sample. Two field duplicate samples for the entire sample event (analytical batch) were submitted for analysis, satisfying the 5% ($2/32=6.3\%$) duplicate sample submittal frequency criterion. One trip blank was submitted for analysis with the one cooler shipped to the lab. No equipment blanks were submitted for analysis, because for each well, either dedicated or disposable equipment was used.

QC Results

- Method blanks show no detectable concentrations of target analytes.
- The trip blank showed no detectable concentrations of target analytes.
- LCS/LCSD recoveries are within acceptable limits.
- LCS/LCSD relative percent differences are within acceptable limits.
- MS/MSD recoveries are within acceptable limits.
- MS/MSD relative percent differences are within acceptable limits.
- Surrogate spike recoveries are all within acceptable limits.
- Field duplicates are within acceptable limits.

Results of the QA review indicate the data are suitable for intended use.