



FOURTH QUARTER 2010 GROUNDWATER MONITORING REPORT

DCP APEX COMPRESSOR STATION
GW-163

LATITUDE: N 32.708700° LONGITUDE: W 103.3089°
LEA COUNTY, NEW MEXICO

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**CONESTOGA-ROVERS
& ASSOCIATES**

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**CONESTOGA-ROVERS
& ASSOCIATES**

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1.0 INTRODUCTION

Conestoga-Rovers & Associates (CRA) is submitting this *Fourth Quarter 2010 Groundwater Monitoring Report* to DCP Midstream, LP (DCP) for the Apex Compressor Station in Lea County, New Mexico. This report summarizes the December 2010 groundwater sampling event and October through December 2010 observations and maintenance activities. Groundwater monitoring and sampling details, analytical results and conclusions are presented below.

Site Background

The site is located in Lea County, New Mexico approximately nine miles west of Hobbs, New Mexico (Figure 1). The site occupies approximately 1.8 acres in an undeveloped area. Petroleum hydrocarbons were discovered in soil and groundwater beneath a former tank battery during a 2004 property transaction. There are 24 groundwater monitoring and recovery wells onsite.

Hydrogeology

Historical static groundwater depths have ranged between 51.69 and 65.89 feet below ground surface (ft bgs). Static groundwater depths ranged from 51.91 (RW-02) to 64.20 ft bgs (MW-09) on December, 17, 2010. Groundwater flows to the southeast with a gradient of 0.007 ft/ft (Figure 2).

2.0 GROUNDWATER MONITORING AND SAMPLING

CRA gauged groundwater monitoring wells MW-01 through MW-07, MW-09, MW-B through MW-D, and recovery wells RW-01 through RW-08 on December 16, 2010 and collected samples from MW-02 through MW-07, MW-09, MW-B through MW-D, RW-01, RW-02, and RW-05 through RW-08 on December 17, 2010. Site access has been restricted by the property owner and prevented the sampling of wells MW-10 and RW-09 through RW-12. Light non-aqueous phase liquids (LNAPL) were measured in wells MW-01, RW-03, and RW-04; groundwater samples were not collected. Each well cap was removed to allow groundwater levels to stabilize and equilibrate prior to gauging. All sampled wells were purged of approximately three well-casing volumes while temperature, pH, and conductivity were measured. Groundwater samples, including duplicate samples, were collected using clean disposable bailers and decanted into clean containers supplied by the analytical laboratory. Groundwater samples were submitted under chain-of-custody to Accutest Laboratories of Texas. CRA well sampling forms are presented as Appendix A. CRA's standard operating procedures for groundwater monitoring and sampling are presented as Appendix B.



LNAPL Recovery

CRA manually removed LNAPL from wells MW-01, RW-03, and RW-04 on October 21, November 18, and December 16, 2010. LNAPL thickness ranged from approximately 0.18 (MW-01) to 2.92 ft (RW-04) during the fourth quarter 2010. LNAPL recovery is summarized in Table 1.

Purged Groundwater

Purged groundwater was transported to the DCP Linam Ranch facility for disposal. Purged LNAPL was transported to the Hobbs Gas Plant facility for secure storage.

3.0 ANALYTICAL RESULTS

Groundwater Analytical Methods

Groundwater samples collected from MW-02 through MW-07, MW-09, MW-B through MW-D, RW-01, RW-02, and RW-05 through RW-08 were analyzed for:

- Benzene, toluene, ethylbenzene, and xylenes (BTEX) by SW-846 8260B.

Groundwater Sampling Results

No BTEX was detected above New Mexico Water Quality Control Commission (NMQCC) cleanup levels in groundwater samples collected from wells MW-02, MW-04, MW-05, MW-09 and MW-C. The maximum detected benzene was 6,830 micrograms per liter ($\mu\text{g/l}$) in sample RW-05. Sample RW-05 contained the maximum xylenes concentration (4,160 $\mu\text{g/l}$). Current groundwater analytical results are summarized in Table 2. Historical analytical results are summarized in Table 3. The laboratory analytical report is presented as Appendix C.

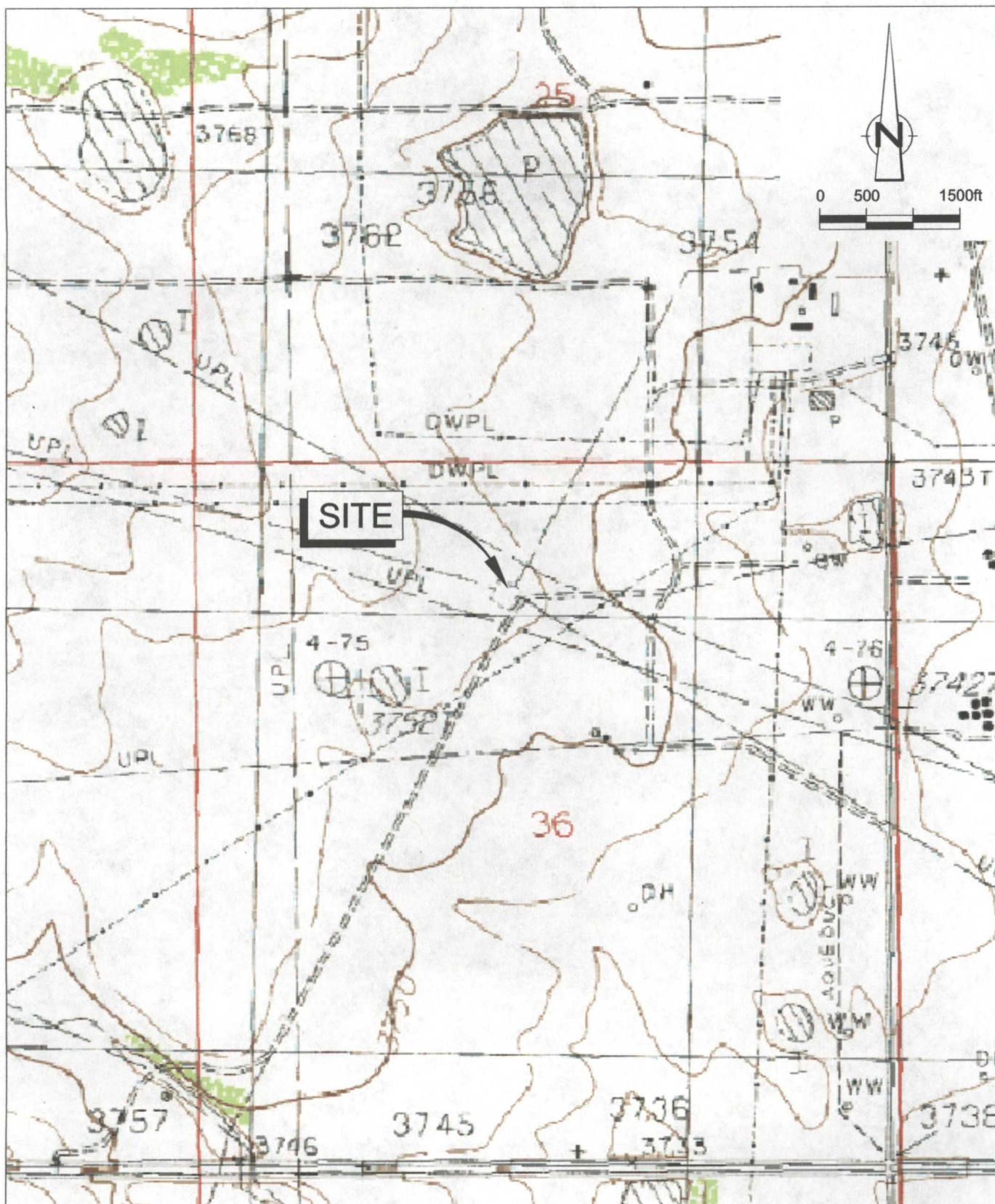
4.0 CONCLUSIONS

Groundwater samples from wells MW-7 indicate an increasing trend in benzene and xylenes since 2009. DCP submitted a subsurface investigation workplan in 2010 and is awaiting agency approval. DCP will continue monthly remedial observation and maintenance and quarterly monitoring and sampling during 2011 to evaluate site groundwater conditions.

FIGURES

FIGURE 1: VICINITY MAP

FIGURE 2: GROUNDWATER ELEVATION CONTOUR MAP

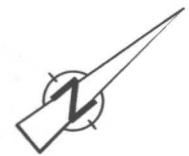


QUAD: USGS MONUMENT NORTH

Figure 1

VICINITY MAP
APEX COMPRESSOR STATION
LEA COUNTY, NEW MEXICO
DCP Midstream





0 20 60ft
APPROXIMATE SCALE

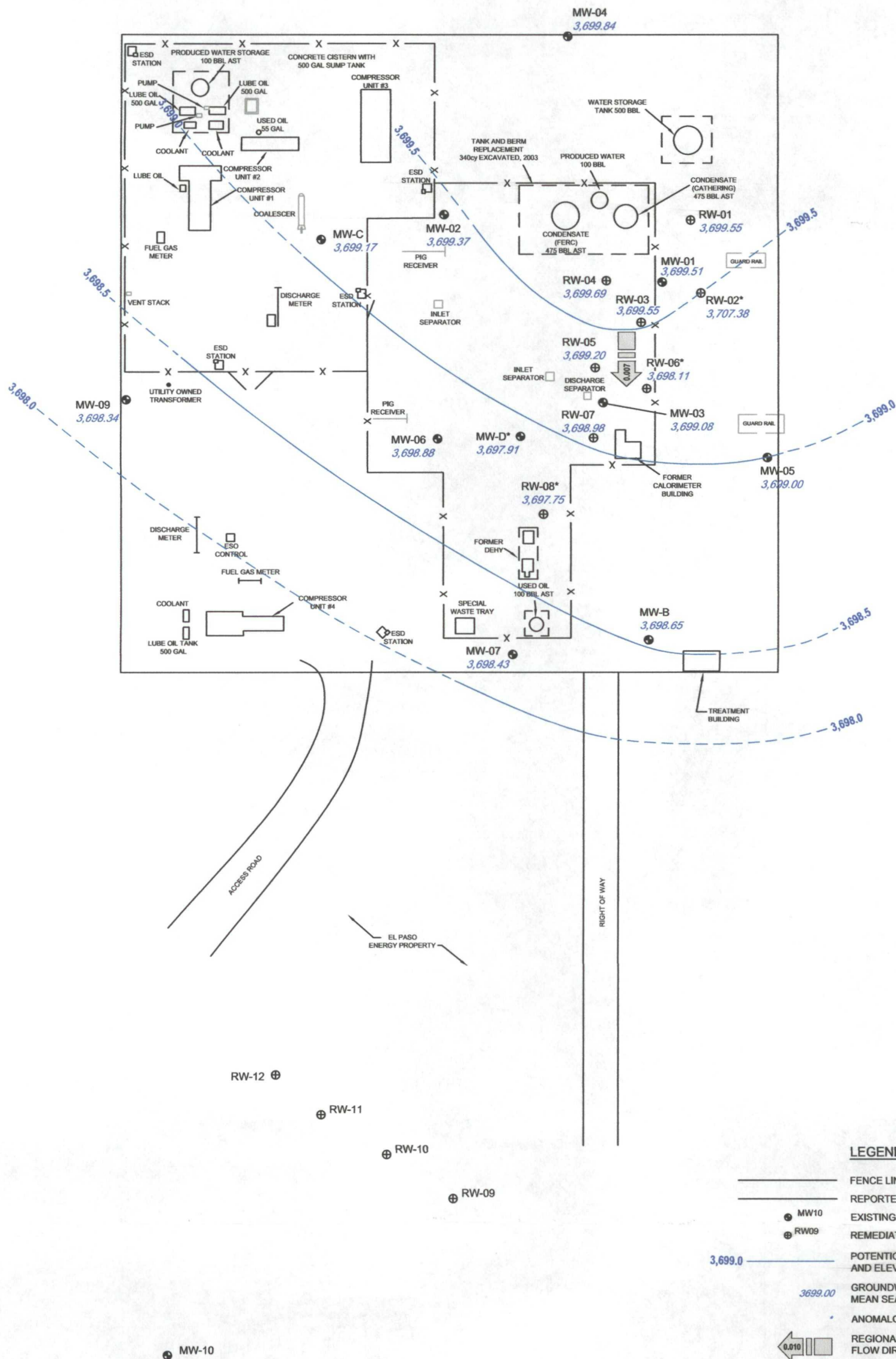


Figure 2
GROUNDWATER ELEVATION CONTOUR MAP
DCP APEX COMPRESSOR STATION
LEA COUNTY, NEW MEXICO
DCP Midstream
December 17, 2010



TABLES

TABLE 1: LNAPL RECOVERY

TABLE 2: CURRENT GROUNDWATER ANALYTICAL RESULTS

TABLE 3: HISTORICAL GROUNDWATER ANALYTICAL RESULTS

CONESTOGA-ROVERS & ASSOCIATES

Table 1. LNAPL Recovery Table - Apex Compressor Station, Lea County, New Mexico

Well ID	Date	DTW (ft bgs)	Depth to LNAPL (ft msl)	LNAPL Thickness feet	LNAPL Removed gallons
RW-05	1/26/05	59.55	59.40	0.15	---
RW-05	2/24/05	59.90	59.59	0.31	0.25
RW-05	2/25/05	59.96	59.84	0.12	0.10
RW-05	4/28/05	59.99	59.70	0.29	---
RW-05	4/29/05	60.06	59.96	0.10	---
RW-05	5/24/05	60.01	59.77	0.24	---
RW-05	7/27/05	60.21	59.90	0.31	---
RW-05	8/24/05	60.10	59.84	0.26	---
RW-05	10/26/05	60.20	59.95	0.25	1.50
RW-05	12/1/05	60.35	60.03	0.32	1.00
RW-05	1/25/06	60.39	60.15	0.24	---
RW-05	2/15/06	60.32	60.16	0.16	---
RW-05	3/23/06	60.31	60.20	0.11	---
RW-05	5/16/06	60.38	60.32	0.06	---
RW-05	5/17/06	60.38	60.02	0.36	0.50
RW-05	6/15/06	60.46	60.39	0.07	---
RW-05	7/17/06	60.40	60.29	0.11	0.50
RW-05	8/17/06	60.50	60.48	0.02	0.10
RW-06	1/26/05	59.50	59.42	0.08	---
RW-06	2/24/05	59.77	59.60	0.17	0.10
RW-06	2/25/06	59.68	59.62	0.06	0.05
RW-06	4/28/05	59.93	59.71	0.22	---
RW-06	4/29/05	59.98	59.90	0.08	---
RW-06	5/24/05	59.95	59.77	0.18	---
RW-06	7/27/05	60.09	59.88	0.21	---
RW-06	8/24/05	59.94	59.82	0.12	---
RW-06	10/26/05	60.09	59.94	0.15	1.00
RW-06	12/1/05	60.21	60.03	0.18	1.00
RW-06	1/25/06	60.14	60.11	0.03	---
RW-06	2/15/06	60.22	60.15	0.07	---
RW-06	3/23/06	60.22	60.21	0.01	---
RW-06	5/16/06	60.37	60.28	0.09	---
RW-06	5/17/06	60.37	60.28	0.09	0.30
RW-06	6/15/06	60.42	60.39	0.03	---
RW-06	7/17/06	60.27	60.26	0.01	0.25
RW-06	8/17/06	60.46	60.41	0.05	0.10

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Table 1. LNAPL Recovery Table - Apex Compressor Station, Lea County, New Mexico

Well ID	Date	DTW (ft bgs)	Depth to LNAPL (ft msl)	LNAPL Thickness feet	LNAPL Removed gallons
RW-08	1/25/06	61.64	60.40	1.24	---
RW-08	2/15/06	60.86	60.58	0.28	---
RW-08	3/23/06	60.70	60.61	0.09	---
RW-08	5/16/06	60.82	60.80	0.02	---
RW-08	5/17/06	60.82	60.80	0.02	0.50
RW-08	6/15/06	60.91	60.84	0.07	---
RW-08	7/17/06	60.80	60.69	0.11	0.50
RW-08	8/17/06	60.90	60.85	0.05	0.20
RW-08	9/11/06	60.89	60.83	0.06	0.30
RW-08	10/16/06	60.82	60.81	0.01	---
RW-08	2/26/07	60.38	60.27	0.11	0.50
RW-08	6/19/07	60.41	60.38	0.03	0.10

Total LNAPL Recovered 152.09

Notes and Abbreviations:

LNAPL = Light non-aqueous phase liquids

ID = Identification

ft bgs = Feet below ground surface

ft msl = Feet above mean sea level

--- = No LNAPL recovered

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Table 1. LNAPL Recovery Table - Apex Compressor Station, Lea County, New Mexico

Well ID	Date	DTW (ft bgs)	Depth to LNAPL (ft msl)	LNAPL Thickness feet	LNAPL Removed gallons
MW-01	1/26/05	59.43	54.39	5.04	—
MW-01	2/24/05	59.94	59.54	0.40	0.25
MW-01	2/25/05	59.78	59.63	0.15	0.10
MW-01	4/28/05	59.96	59.68	0.28	—
MW-01	4/29/05	59.89	59.80	0.09	—
MW-01	5/24/05	59.98	59.74	0.24	—
MW-01	7/27/05	60.12	59.83	0.29	—
MW-01	8/24/05	60.01	59.81	0.20	—
MW-01	10/26/05	60.11	59.89	0.22	1.00
MW-01	12/1/05	60.28	59.70	0.58	1.00
MW-01	1/25/06	60.31	60.11	0.20	—
MW-01	2/15/06	60.28	60.14	0.14	—
MW-01	3/23/06	60.22	60.13	0.09	—
MW-01	5/18/06	60.37	60.27	0.10	—
MW-01	5/17/09	60.37	60.27	0.10	0.50
MW-01	6/15/06	60.44	60.34	0.10	—
MW-01	7/17/06	60.25	60.15	0.10	0.50
MW-01	8/17/06	60.45	60.41	0.04	1.00
MW-01	9/11/06	60.59	60.29	0.30	0.40
MW-01	2/26/07	59.96	59.94	0.02	0.50
MW-01	6/24/09	59.83	59.79	0.04	—
MW-01	9/2/09	60.06	59.99	0.07	—
MW-01	11/16/09	60.17	60.01	0.16	0.02
MW-01	12/15/09	—	—	—	0.25
MW-01	1/14/10	60.20	60.13	0.07	0.01
MW-01	2/25/10	60.19	60.13	0.06	0.01
MW-01	3/31/10	60.25	60.20	0.05	0.01
MW-01	4/27/10	60.38	60.33	0.05	0.01
MW-01	5/27/10	60.52	60.25	0.27	0.01
MW-01	6/10/10	60.40	60.25	0.15	0.02
MW-01	7/10/10	60.38	60.18	0.20	0.05
MW-01	8/26/10	60.00	59.97	0.03	0.05
MW-01	9/20/10	60.05	59.97	0.08	—
MW-01	10/21/10	60.34	60.12	0.22	0.05
MW-01	11/18/10	60.41	60.17	0.24	0.05
MW-01	12/16/10	60.39	60.21	0.18	0.05

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Well ID	Date	DTW (ft bgs)	Depth to LNAPL (ft msl)	LNAPL Thickness feet	LNAPL Removed gallons
MW-03	1/26/05	59.29	59.11	0.18	—
MW-03	2/24/05	59.76	59.50	0.26	0.25
MW-03	2/25/05	59.67	59.58	0.09	0.10
MW-03	4/28/05	59.82	59.63	0.19	—
MW-03	4/29/05	59.94	59.89	0.05	—
MW-03	5/24/05	59.81	59.70	0.11	—
MW-03	7/27/05	60.05	59.82	0.23	—
MW-03	8/24/05	59.92	59.73	0.19	—
MW-03	10/26/05	60.09	59.88	0.21	1.00
MW-03	12/1/05	60.19	59.95	0.24	1.00
MW-03	1/25/06	60.22	60.08	0.14	—
MW-03	2/15/06	60.19	60.09	0.10	—
MW-03	3/23/06	60.24	60.20	0.04	—
MW-03	5/16/06	60.32	60.25	0.07	—
MW-03	5/17/06	60.32	60.25	0.07	0.40
MW-03	6/15/06	60.35	60.31	0.04	—
MW-03	7/17/06	60.29	60.26	0.03	0.50
MW-03	8/17/06	60.42	60.36	0.06	0.10
MW-03	9/11/06	60.32	60.27	0.05	0.30
MW-03	10/16/06	60.28	60.27	0.01	—
RW-01	8/24/05	59.66	59.31	0.35	—
RW-01	7/27/05	59.90	59.34	0.56	—
RW-01	5/24/05	59.75	59.22	0.53	—
RW-01	4/29/05	59.80	59.14	0.66	—
RW-01	4/28/05	60.08	59.06	1.02	—
RW-01	10/26/05	59.78	59.41	0.37	2.00
RW-01	12/1/05	59.91	59.50	0.41	—
RW-01	1/25/06	59.96	59.66	0.30	—
RW-01	2/15/06	59.88	59.68	0.20	—
RW-01	3/23/06	59.80	59.68	0.12	—
RW-01	5/16/06	59.95	59.82	0.13	—
RW-01	5/17/06	59.95	59.82	0.13	1.00
RW-01	6/15/06	59.96	59.89	0.07	—
RW-01	7/17/06	59.90	59.74	0.16	0.50
RW-01	8/17/06	60.01	59.98	0.03	—
RW-01	9/11/06	59.92	59.83	0.09	1.00
RW-01	11/14/06	59.70	59.66	0.04	—
RW-01	12/11/06	59.83	59.81	0.02	—
RW-01	2/26/07	59.79	59.76	0.03	0.50
RW-01	6/19/06	59.55	59.51	0.04	0.10

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Table 1. LNAPL Recovery Table - Apex Compressor Station, Lea County, New Mexico

Well ID	Date	DTW (ft bgs)	Depth to LNAPL (ft msl)	LNAPL Thickness feet	LNAPL Removed gallons
RW-03	1/26/05	60.50	59.16	1.34	—
RW-03	2/24/05	59.86	59.34	0.52	0.25
RW-03	2/25/05	59.75	59.54	0.21	0.10
RW-03	4/28/05	59.83	59.48	0.35	—
RW-03	4/29/05	59.89	59.77	0.12	—
RW-03	5/24/05	59.82	59.55	0.27	—
RW-03	7/27/05	59.95	59.68	0.27	—
RW-03	8/24/05	59.85	59.62	0.23	—
RW-03	10/26/05	59.96	59.72	0.24	1.25
RW-03	12/1/05	60.09	59.81	0.28	1.00
RW-03	1/25/06	60.07	59.96	0.11	—
RW-03	2/15/06	60.08	59.98	0.10	—
RW-03	3/23/06	59.99	59.96	0.03	—
RW-03	5/16/06	60.19	60.10	0.09	—
RW-03	5/17/06	60.19	60.10	0.09	0.40
RW-03	6/15/06	60.12	60.07	0.05	—
RW-03	7/17/06	60.02	60.00	0.02	0.25
RW-03	8/17/06	60.25	60.24	0.01	0.10
RW-03	3/3/08	60.10	59.35	0.75	1.50
RW-03	6/2/08	60.36	59.16	1.20	—
RW-03	9/15/08	60.73	59.10	1.63	0.50
RW-03	12/3/08	60.73	59.07	1.66	2.50
RW-03	1/29/09	61.70	58.90	2.80	2.00
RW-03	2/25/09	60.67	58.94	1.73	2.00
RW-03	6/24/09	61.52	59.10	2.42	—
RW-03	9/2/09	61.95	59.13	2.82	—
RW-03	11/16/09	62.03	59.18	2.85	1.25
RW-03	12/15/09	—	—	—	2.00
RW-03	1/14/10	62.23	59.23	3.00	1.00
RW-03	2/25/10	62.20	59.24	2.96	1.00
RW-03	3/31/10	62.24	59.30	2.94	1.50
RW-03	4/27/10	62.34	59.36	2.98	1.00
RW-03	5/27/10	62.45	59.38	3.07	1.50
RW-03	6/10/10	62.44	59.38	3.06	1.25
RW-03	7/10/10	62.09	59.35	2.74	1.45
RW-03	8/26/10	61.63	59.19	2.44	1.00
RW-03	9/20/10	61.80	59.17	2.63	1.50
RW-03	10/21/10	62.12	59.29	2.83	1.50
RW-03	11/18/10	62.21	59.35	2.86	1.75
RW-03	12/16/10	62.18	59.38	2.80	2.00

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Table 1. LNAPL Recovery Table - Apex Compressor Station, Lea County, New Mexico

Well ID	Date	DTW (ft bgs)	Depth to LNAPL (ft msl)	LNAPL Thickness feet	LNAPL Removed gallons
RW-04	1/26/05	59.40	59.19	0.21	—
RW-04	2/24/05	60.16	59.28	0.88	0.50
RW-04	2/25/05	60.18	59.84	0.34	0.25
RW-04	4/28/05	60.53	59.34	1.19	—
RW-04	4/29/05	60.04	59.46	0.58	—
RW-04	5/24/05	60.81	59.29	1.52	—
RW-04	7/27/05	61.44	59.26	2.18	—
RW-04	8/24/05	61.52	59.12	2.40	—
RW-04	10/26/05	61.96	59.12	2.84	4.00
RW-04	12/1/05	62.11	59.22	2.89	2.00
RW-04	1/25/06	62.33	59.29	3.04	7.50
RW-04	2/15/06	61.05	59.24	1.81	—
RW-04	3/23/06	62.30	59.30	3.00	—
RW-04	5/16/06	62.55	59.39	3.16	—
RW-04	5/17/06	62.55	59.39	3.16	2.50
RW-04	6/15/06	62.75	59.54	3.21	3.50
RW-04	7/17/06	62.29	59.37	2.92	2.80
RW-04	8/17/06	62.48	59.48	3.00	3.50
RW-04	9/11/06	62.55	59.43	3.12	2.00
RW-04	11/14/06	62.31	59.29	3.02	—
RW-04	12/11/06	62.17	59.24	2.93	—
RW-04	2/26/07	61.06	59.14	1.92	2.70
RW-04	3/28/07	61.98	59.09	2.89	—
RW-04	5/24/07	62.01	60.10	1.91	2.50
RW-04	6/19/07	62.04	59.14	2.90	1.50
RW-04	7/19/07	62.16	59.06	3.10	3.00
RW-04	8/16/07	62.25	59.06	3.19	4.00
RW-04	9/17/07	62.27	59.06	3.21	2.00
RW-04	10/18/07	62.48	59.20	3.28	2.00
RW-04	11/16/07	62.27	59.16	3.11	2.50
RW-04	12/12/07	60.70	59.10	1.60	3.00
RW-04	1/10/08	62.01	59.08	2.93	3.50
RW-04	2/7/08	61.55	59.04	2.51	3.50
RW-04	3/3/08	61.75	59.19	2.56	3.00
RW-04	6/2/08	61.64	58.81	2.83	4.00
RW-04	9/15/08	61.76	58.88	2.88	1.50
RW-04	12/3/08	61.68	58.88	2.80	2.75
RW-04	1/29/09	61.70	58.90	2.80	2.50
RW-04	2/25/09	61.46	58.76	2.70	3.00
RW-04	6/24/09	61.96	58.98	2.98	—
RW-04	9/2/09	62.30	59.23	3.07	—
RW-04	11/16/09	62.30	59.23	3.07	1.25
RW-04	12/15/09	—	—	—	2.00
RW-04	1/14/10	62.40	59.29	3.11	1.75
RW-04	2/25/10	62.43	59.30	3.13	1.50
RW-04	3/31/10	62.40	59.34	3.06	1.25
RW-04	4/27/10	62.54	59.40	3.14	1.25
RW-04	5/27/10	62.60	59.42	3.18	1.25
RW-04	6/10/10	62.60	59.40	3.20	1.25
RW-04	7/10/10	62.28	59.43	2.85	1.50
RW-04	8/26/10	61.82	59.24	2.58	1.00
RW-04	9/20/10	61.99	59.22	2.77	1.50
RW-04	10/21/10	62.25	59.35	2.90	2.00
RW-04	11/18/10	62.29	59.40	2.89	2.00

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Table 1. LNAPL Recovery Table - Apex Compressor Station, Lea County, New Mexico

Well ID	Date	DTW (ft bgs)	Depth to LNAPL (ft msl)	LNAPL Thickness feet	LNAPL Removed gallons
RW-04	12/16/10	62.27	59.35	2.92	2.10

CONESTOGA-ROVERS & ASSOCIATES

Table 2. Current Groundwater Analytical Results - DCP Apex Compressor Station, Lea County, New

Well ID	Date	TOC (ft msl)	DTW (ft bgs)	GWE (ft msl)	Benzene	Toluene	Ethyl - benzene	Total Xylenes
NMWQCC Cleanup Levels					Concentrations in µg/l			
					10	750	750	620
MW-01	12/17/2010	3759.75	60.39	3699.51		LNAPL present		
MW-02	12/17/2010	3759.67	60.30	3699.37	8.1	<0.43	<0.55	<1.7
MW-03	12/17/2010	3759.33	60.25	3699.08	3,400	55.1	746	2,790
MW-04	12/17/2010	3761.94	62.10	3699.84	<0.50	<0.43	<0.55	<1.7
MW-05	12/17/2010	3760.97	61.97	3699.00	<0.50	<0.43	20.2	84.2
MW-06	12/17/2010	3758.51	59.63	3698.88	11.0	<0.43	<0.55	<1.7
MW-07	12/17/2010	3761.98	63.55	3698.43	3,160 a	<0.43	531	1,670
MW-09	12/17/2010	3762.54	64.20	3698.34	<0.50	<0.43	<0.55	<1.7
MW-10	12/17/2010	3762.66			NO ACCESS			
MW-B	12/17/2010	3758.52	59.87	3698.65	36.9	139	63.0	191
MW-C	12/17/2010	3759.93	60.76	3699.17	<0.50	<0.43	<0.55	<1.7
MW-D	12/17/2010	3759.53	61.62	3697.91	500	64.9	156	415
RW-01	12/17/2010	3759.49	59.94	3699.55	1,210	<0.43	364	1,200
RW-02	12/17/2010	3759.29	51.91	3707.38	616/519a	<0.43/88.0	239/195	802/439a
RW-03	12/17/2010	3759.46	62.18	3699.55	LNAPL present			
RW-04	12/17/2010	3759.59	62.27	3699.69	LNAPL present			
RW-05	12/17/2010	3759.53	60.33	3699.20	6,830	764	722	4,160
RW-06	12/17/2010	3758.44	60.33	3698.11	2,480/2,420	130/119	798/858	4080/4,740
RW-07	12/17/2010	3759.53	60.55	3698.98	3,180	<8.7	431	1,030
RW-08	12/17/2010	3759.51	61.76	3697.75	2,850	<11.0	630	2,100
RW-09	12/17/2010	3754.40			NO ACCESS			
RW-10	12/17/2010	3754.53			NO ACCESS			
RW-11	12/17/2010	3754.61			NO ACCESS			
RW-12	12/17/2010	3754.76			NO ACCESS			

Notes and Abbreviations:

ID = Identification

TOC = Top of casing

DTW = Depth to water

GWE = Groundwater elevation

BTEX = Benzene, toluene, ethylbenzene, and total xylenes by SW-846 8021 or 8260B

ft msl = Feet above mean sea level

ft bgs = Feet below ground surface

µg/l = Micrograms per liter

LNAPL = Light non-aqueous phase liquid

<x = Not detected above x µg/l

BOLD = Indicates concentration above the NMOCD Cleanup Levels

a = Result is from run # 2

x / y = Sample results / blind duplicate results

NMWQCC = New Mexico Water Quality Control Commission

CONESTOGA-ROVERS & ASSOCIATES

Table 3. Historical Groundwater Analytical Results - DCP Apex Compressor Station, Lea County, New Mexico

Well ID	Date	TOC (ft ml)	DTW (ft bgs)	LNAPL Thickness (ft)	GWB (ft ml)	pH u	Conductivity uS/cm	Temperature °C	DO mg/l	ORP mV	Benzene	Toluene	Ethyl- benzene	Total Xylenes
NMWQCC Cleanup Levels											10	750	750	620
MW-01	1/10/2008	3759 75	59 83	--	3699 92	--	--	--	--	--	--	--	--	--
MW-01	2/7/2008	3759 75	59 88	--	3699 87	--	--	--	--	--	--	--	--	--
MW-01	3/4/2008	3759 75	59 71	--	3700 04	6.57	2137	18.65	2.51	-179.2	2,900	<2,500	590	3,200
MW-01(d)	3/4/2008	3759 75	59 71	--	3700 04	6.57	2132	18.65	2.51	-179.2	1,600	<50	240	1,400
MW-01	6/3/2008	3759 75	59 73	--	3700 02	6.68	3042	20.50	1.26	-105.0	4,020	483	868	5,790
MW-01	9/17/2008	3759 75	59 68	--	3700 07	6.30	3555	19.90	0.31	-69.1	3,360	443	818	4,780
MW-01	12/4/2008	3759 75	59 70	--	3700 05	6.71	3358	17.78	1.01	-101.7	2,530	<12	641	2,990
MW-01	1/29/2009	3759 75	59 70	--	3700 05	--	--	--	--	--	--	--	--	--
MW-01	2/24/2009	3759 75	59 76	--	3699 99	6.64	3414	19.74	0.69	-45.0	3,870	54.9	928	5,070
MW-01	6/24/2009	3759 75	59 83	0.04	3699 95	--	--	--	--	--	LNAPL present	--	--	--
MW-01	9/2/2009	3759 75	60 06	0.07	3699 75	--	--	--	--	--	LNAPL present	--	--	--
MW-01	11/16/2009	3759 75	60 17	0.16	3699 71	--	--	--	--	--	LNAPL present	--	--	--
MW-01	1/14/2010	3759 75	60 20	0.07	3699 61	--	--	--	--	--	LNAPL present	--	--	--
MW-01	2/25/2010	3759 75	60 13	0.06	3699 67	--	--	--	--	--	LNAPL present	--	--	--
MW-01	3/24/2010	3759 75	60 25	0.05	3699 54	--	--	--	--	--	LNAPL present	--	--	--
MW-01	6/10/2010	3759 75	60 40	0.15	3699 47	--	--	--	--	--	LNAPL present	--	--	--
MW-01	9/21/2010	3759 75	60 05	0.08	3699 76	--	--	--	--	--	LNAPL present	--	--	--
MW-01	12/17/2010	3759 75	60 39	0.18	3699 51	--	--	--	--	--	LNAPL present	--	--	--
MW-02	1/10/2008	3759 67	59 84	--	3699 83	--	--	--	--	--	--	--	--	--
MW-02	2/7/2008	3759 67	59 69	--	3699 98	--	--	--	--	--	--	--	--	--
MW-02	3/4/2008	3759 67	59 69	--	3699 98	6.76	760	16.57	5.56	52.1	39	<5.0	<1.0	<3.0
MW-02	6/3/2008	3759 67	59 68	--	3699 99	6.93	737	20.83	4.53	-76.0	30.5	<0.48	0.67 J	1.9 J
MW-02	9/17/2008	3759 67	59 70	--	3699 97	6.11	834	19.74	1.24	21.6	86.8	0.53 J	2.2	27.6
MW-02	12/4/2008	3759 67	59 74	--	3699 93	6.81	804	18.26	0.94	-113.7	40.2	<0.48	<0.45	<1.4
MW-02	1/29/2009	3759 67	59 75	--	3699 92	--	--	--	--	--	--	--	--	--
MW-02	2/24/2009	3759 67	59 59	--	3700 08	6.79	853	19.71	1.07	-14.7	101	<0.48	1.4	<1.4
MW-02	6/24/2009	3759 67	59 84	--	3699 83	6.70	100	97.00	5.49	-14.0	146	<2.0	2.9	5.7 J
MW-02	9/2/2009	3759 67	59 97	--	3699 70	6.82	110	20.92	3.21	-33.0	171	<2.0	2.4	2.0 J
MW-02	11/18/2009	3759 67	60 05	--	3699 62	7.36	631	21.50	--	--	8	<2.0	<2.0	<6.0
MW-02	3/24/2010	3759 67	60 20	--	3699 47	7.01	862	19.39	--	--	44.3	<2.0	<2.0	<6.0
MW-02	6/10/2010	3759 67	60 31	--	3699 36	6.86	801	22.78	--	--	23.4	<2.0	<2.0	2.7 J
MW-02	9/22/2010	3759 67	60 00	--	3699 67	6.64	895.2	19.60	--	--	29.6	<0.43	<0.55	<1.7
MW-02	12/17/2010	3759 67	60 30	--	3699 37	7.08	865.0	18.20	--	--	8.1	<0.43	<0.55	<1.7
MW-03	1/10/2008	3759 33	59 79	--	3699 54	--	--	--	--	--	--	--	--	--
MW-03	2/7/2008	3759 33	59 63	--	3699 70	--	--	--	--	--	--	--	--	--
MW-03	3/5/2008	3759 33	59 62	--	3699 71	6.84	1344	18.30	3.49	-88.7	4,800	1,100	690	4,100
MW-03	6/3/2008	3759 33	59 57	--	3699 76	6.75	1820	21.14	1.28	-136.7	4,780	187	796	4,190
MW-03	9/17/2008	3759 33	59 66	--	3699 67	6.42	1839	20.01	0.31	-74.0	5,120	284	829	4,460
MW-03	12/4/2008	3759 33	59 65	--	3699 68	6.85	1728	17.98	1.09	-63.4	4,200	<24	693	3,090
MW-03	1/29/2009	3759 33	59 60	--	3699 73	--	--	--	--	--	--	--	--	--
MW-03	2/25/2009	3759 33	59 55	--	3699 78	6.80	1880	19.73	0.93	-35.6	5,300	<24	775	3,470
MW-03	6/24/2009	3759 33	59 73	--	3699 60	6.70	230	21.40	2.83	-81.0	5,120	82.7 J	758	4,270
MW-03(d)	6/24/2009	3759 33	59 73	--	3699 60	6.70	230	21.40	2.83	-81.0	5,260 a	99.1	917	5,060
MW-03	9/2/2009	3759 33	59 94	--	3699 39	6.61	250	20.96	1.88	-136.0	5,290	<200	742	4,350
MW-03(d)	9/2/2009	3759 33	59 94	--	3699 39	6.61	250	20.96	1.88	-136.0	5,250 a	28.9 J	828	4,730
MW-03	11/16/2009	3759 33	60 01	--	3699 32	6.78	2030	18.56	--	--	4,400	<0.400	805	2,240
MW-03(d)	11/16/2009	3759 33	60 01	--	3699 32	6.78	2030	18.56	--	--	5,120	<200	887	2,540
MW-03	3/24/2010	3759 33	60 24	--	3699 09	7.08	2310	20.06	--	--	3,760	<400	641	1,510
MW-03(d)	3/24/2010	3759 33	60 24	--	3699 09	7.08	2310	20.06	--	--	3,850 a	2.0	686 a	1,590 a
MW-03	6/10/2010	3759 33	60 27	--	3699 06	6.89	1696	24.89	--	--	3,140	<400	585	2,250
MW-03(d)	6/10/2010	3759 33	60 27	--	3699 06	6.89	1696	24.89	--	--	3,530 a	85.3	650 a	2,820 a
MW-03	9/22/2010	3759 33	59 94	--	3699 39	6.69	2797	19.8	--	--	4,500	122.0	834	4,360
MW-03	12/17/2010	3759 33	60 25	--	3699 08	6.94	2921	18.5	--	--	3,400	55.1	746	2,790

CONESTOGA-ROVERS & ASSOCIATES

Table 3. Historical Groundwater Analytical Results - DCP Apex Compressor Station, Lea County, New Mexico

Well ID	Date	TOC (ft ml)	DTW (ft bgs)	LNAPL Thickness (ft)	GWE ^a (ft ml)	pH s.u.	Conductivity µS/cm	Temperature °C	DO mg/l	ORP mV	Benzene	Toluene	Ethyl- benzene	Total Xylenes
NMWQCC Cleanup Levels											10	750	750	620
											Concentrations in µg/l			
MW-04	1/10/2008	3761.94	61.46	--	3700.48	--	--	--	--	--	--	--	--	--
MW-04	2/7/2008	3761.94	61.42	--	3700.52	--	--	--	--	--	--	--	--	--
MW-04	3/4/2008	3761.94	61.42	--	3700.52	6.60	656	17.86	536	102.3	<1.0	<5.0	<1.0	<3.0
MW-04	6/3/2008	3761.94	61.34	--	3700.60	6.91	759	20.20	3.60	39.9	<0.46	<0.48	<0.45	<1.4
MW-04	9/16/2008	3761.94	61.47	--	3700.47	6.63	736	19.99	3.18	84.5	2.9	<0.48	1.6 J	23
MW-04	12/3/2008	3761.94	61.43	--	3700.51	6.90	662	17.15	4.30	90.6	<0.46	<0.48	<0.45	<1.4
MW-04	1/29/2009	3761.94	61.40	--	3700.54	--	--	--	--	--	--	--	--	--
MW-04	2/24/2009	3761.94	61.31	--	3700.63	6.83	690	19.13	3.25	136.4	2.2	<0.48	<0.45	<1.4
MW-04	6/24/2009	3761.94	61.59	--	3700.35	6.70	900	20.10	6.03	152.0	3.7	<2.0	0.90 J	4.5 J
MW-04	9/2/2009	3761.94	61.70	--	3700.24	6.75	880	20.82	4.11	93.0	8.1	<2.0	0.71 J	<6.0
MW-04	11/18/2009	3761.94	61.78	--	3700.16	7.27	685	19.78	--	--	13.4	<2.0	1.9 J	3.6 J
MW-04	3/24/2010	3761.94	61.93	--	3700.01	7.08	757	19.00	--	--	0.59	<2.0	<2.0	<6.0
MW-04	6/10/2010	3761.94	62.10	--	3699.84	7.17	683	22.28	--	--	<2.0	<2.0	<2.0	<6.0
MW-04	9/22/2010	3761.94	61.80	--	3700.14	6.71	797.8	19.6	--	--	9.3	<0.43	<0.55	<1.7
MW-04	12/17/2010	3761.94	62.10	--	3699.84	7.23	811.3	18.2	--	--	<0.50	<0.43	<0.55	<1.7
MW-05	1/10/2008	3760.97	64.46	--	3696.51	--	--	--	--	--	--	--	--	--
MW-05	2/7/2008	3760.97	61.35	--	3699.62	--	--	--	--	--	--	--	--	--
MW-05	3/4/2008	3760.97	61.30	--	3699.67	6.72	917	17.96	3.99	-129.5	3.7	<5.0	24	93
MW-05	6/3/2008	3760.97	61.18	--	3699.79	6.89	1016	21.34	1.74	-106.0	3.5	<0.48	38.9	133
MW-05	9/16/2008	3760.97	61.29	--	3699.68	6.75	976	19.64	0.60	-56.1	2.6	<0.48	49.7	179
MW-05	12/3/2008	3760.97	61.30	--	3699.67	7.01	960	18.30	1.78	-48.6	<0.46	<0.48	36	176
MW-05	2/25/2009	3760.97	61.14	--	3699.83	6.98	908	19.20	1.03	23.4	<0.46	<0.48	34.9	126
MW-05	6/24/2009	3760.97	61.41	--	3699.56	6.80	120	20.40	2.35	-44.0	1.0 J	<2.0	52.7	344
MW-05	9/2/2009	3760.97	61.57	--	3699.40	6.65	140	21.40	1.90	-72.0	<2.0	<2.0	63.6	394 a
MW-05	11/16/2009	3760.97	61.68	--	3699.29	7.16	1081	17.00	--	--	<2.0	<2.0	50.9	235
MW-05	3/24/2010	3760.97	61.81	--	3699.16	7.18	1014	20.56	--	--	<2.0	<2.0	31.5	153
MW-05	6/9/2010	3760.97	61.95	--	3699.02	7.02	921	21.39	--	--	<2.0	<2.0	24.4	93.4
MW-05	9/21/2010	3760.97	61.64	--	3699.33	6.78	1057	20.00	--	--	<0.5	<0.43	9.6	68.3
MW-05(d)	9/21/2010	3760.97	61.64	--	3699.33	6.78	1057	20.00	--	--	<0.5	<0.43	15.8	98.9
MW-05	12/17/2010	3760.97	61.97	--	3699.00	7.20	1107	18.50	--	--	<0.5	<0.43	20.2	84.2
MW-06	1/10/2008	3761.95	62.61	--	3699.34	--	--	--	--	--	--	--	--	--
MW-06	2/7/2008	3761.95	62.52	--	3699.43	--	--	--	--	--	--	--	--	--
MW-06	3/5/2008	3761.95	62.48	--	3699.47	6.91	1041	16.09	8.27	-15.3	8.1	<5.0	<1.0	<3.0
MW-06	6/2/2008	3761.95	--	--	--	--	--	--	--	--	--	--	--	--
MW-06	9/16/2008	3761.95	--	--	--	6.65	184	20.32	0.48	-104.0	1.0 J	<0.48	<0.45	12
MW-06	12/3/2008	3761.95	--	--	--	6.89	1168	18.51	0.91	-71.4	126	<0.48	4.1	<1.4
MW-06	2/24/2009	3761.95	--	--	--	6.85	1204	19.76	0.81	21.8	60.7	<0.48	1.9 J	<1.4
MW-06	6/24/2009	3761.95	59.21	--	3702.74	6.80	130	20.30	9.55	-5.0	22.9	<2.0	1.7 J	6.7
MW-06	9/2/2009	3761.95	59.31	--	3702.64	6.83	140	19.20	1.82	-36.0	28.4	<2.0	1.4 J	<6.0
MW-06	11/18/2009	3761.95	59.41	--	3702.54	7.12	1250	18.67	--	--	148	<2.0	<2.0	<6.0
MW-06(d)	11/18/2009	3761.95	59.41	--	3702.54	7.12	1250	18.67	--	--	150	<2.0	<2.0	<6.0
MW-06	3/24/2010	3761.95	59.51	--	3702.44	7.11	1331	20.50	--	--	172 a	<2.0	<2.0	<6.0
MW-06	6/10/2010	--	59.64	--	--	7.06	1166	22.50	--	--	182 a	<2.0	<2.0	<6.0
MW-06	9/22/2010	--	59.28	--	--	6.73	1214	19.70	--	--	16.8	<0.43	<0.55	<1.7
MW-06	12/17/2010	3758.51	59.63	--	3698.88	7.00	1,229	18.4	--	--	11.0	<0.43	<0.55	<1.7

CONESTOGA-ROVERS & ASSOCIATES

Table 3 Historical Groundwater Analytical Results - DCP Apex Compressor Station, Lea County, New Mexico

Well ID	Date	TOC	DTW	LNAPL Thickness	GWB*	pH	Conductivity	Temperature	DO	ORP	Benzene	Toluene	Ethyl- benzene	Total Xylenes
		(ft ml)	(ft bgs)	(ft)	(ft ml)	u	µS/cm	°C	mg/l	mV	Concentrations in µg/l			
NMWQCC Cleanup Levels											10	750	750	620
MW-07	1/10/2008	3761.98	63.18	--	3698.80	--	--	--	--	--	--	--	--	--
MW-07	2/7/2008	3761.98	63.06	--	3698.92	--	--	--	--	--	--	--	--	--
MW-07	3/4/2008	3761.98	63.01	--	3698.97	6.88	1240	17.78	2.58	-190.8	600	<5.0	92	86
MW-07	6/3/2008	3761.98	62.94	--	3699.04	7.05	1360	20.32	1.47	-175.1	896	<2.4	190	109
MW-07(d)	6/3/2008	3761.98	62.94	--	3699.04	7.05	1360	20.32	1.47	-175.1	924	<0.48	196	122
MW-07	9/17/2008	3761.98	63.07	--	3698.91	6.43	1379	20.52	0.58	-92.0	869	<0.48	201	564
MW-07(d)	9/17/2008	3761.98	63.07	--	3698.91	6.43	1379	20.52	0.58	-92.0	997	<0.48	206	537
MW-07	12/3/2008	3761.98	63.10	--	3698.88	7.13	1240	17.30	1.90	-93.7	1,050	<4.8	264	917
MW-07	1/29/2009	3761.98	63.00	--	3698.98	--	--	--	--	--	--	--	--	--
MW-07	2/24/2009	3761.98	62.88	--	3699.10	7.10	1308	19.39	1.21	-52.4	1,560	<4.8	330	1,160
MW-07	6/23/2009	3761.98	63.08	--	3698.90	6.90	140	20.80	5.09	-55.0	769 a	1.2 J	190	527 a
MW-07	9/2/2009	3761.98	63.25	--	3698.73	6.87	160	21.12	1.98	-96.0	501 a	1.3 J	200	271 a
MW-07(d)	9/2/2009	3761.98	63.25	--	3698.73	6.87	160	21.12	1.98	-96.0	564 a	0.64 J	95.5	305
MW-07	11/18/2009	3761.98	63.33	--	3698.65	7.38	1394	19.78	--	--	1,460 a	2.8	294 a	1,110 a
MW-07	3/24/2010	3761.98	63.46	--	3698.52	7.33	1465	20.28	--	--	1,650 a	<2.0	424	1,310
MW-07	6/10/2010	3761.98	63.55	--	3698.43	7.34	1034	23.50	--	--	1,880 a	<2.0	412	1,290
MW-07	9/22/2010	3761.98	63.25	--	3698.73	7.16	1406	19.90	--	--	1,790	<0.43	336	1,480
MW-07	12/17/2010	3761.98	63.55	--	3698.43	7.48	1497	18.20	--	--	3,160 a	<4.3	531	1,670
MW-09	1/10/2008	3762.54	63.65	--	3698.89	--	--	--	--	--	--	--	--	--
MW-09	2/7/2008	3762.54	63.62	--	3698.92	--	--	--	--	--	--	--	--	--
MW-09	3/4/2008	3762.54	63.56	--	3698.98	7.09	606	17.78	7.95	95.0	<1.0	<5.0	<1.0	<3.0
MW-09	6/3/2008	3762.54	63.49	--	3699.05	7.25	688	20.80	6.36	45.7	<0.46	<0.48	<0.45	<1.4
MW-09(d)	6/3/2008	3762.54	63.49	--	3699.05	7.25	688	20.80	6.36	45.7	<0.46	<0.48	<0.45	<1.4
MW-09	9/16/2008	3762.54	63.62	--	3698.92	6.96	693	19.77	4.80	94.1	0.62 J	<0.48	0.46 J	11.6
MW-09	12/3/2008	3762.54	63.65	--	3698.89	7.25	693	17.59	6.90	98.1	<0.46	<0.48	<0.45	<1.4
MW-09	1/29/2009	3762.54	63.60	--	3698.94	--	--	--	--	--	--	--	--	--
MW-09	2/24/2009	3762.54	65.47	--	3697.07	7.25	783	19.15	6.39	167.4	<0.46	<0.48	<0.45	<1.4
MW-09	6/23/2009	3762.54	63.65	--	3698.89	7.20	100	20.00	9.02	210.0	<2.0	<2.0	<2.0	<6.0
MW-09	9/2/2009	3762.54	63.77	--	3698.77	7.11	110	20.81	8.76	111.0	<2.0	<2.0	<2.0	<6.0
MW-09	11/18/2009	3762.54	63.85	--	3698.69	7.28	1068	19.06	--	--	<2.0	<2.0	<2.0	<6.0
MW-09	3/24/2010	3762.54	63.92	--	3698.62	7.36	1241	19.56	--	--	<2.0	<2.0	<2.0	<6.0
MW-09	6/9/2010	3762.54	64.03	--	3698.51	7.28	1198	22.67	--	--	<2.0	<2.0	<2.0	<6.0
MW-09	9/21/2010	3762.54	63.72	--	3698.82	6.96	1502	20.2	--	--	<0.5	<0.43	<0.55	<1.7
MW-09	12/17/2010	3762.54	64.20	--	3698.34	7.34	1518	18.0	--	--	<0.50	<0.43	<0.55	<1.7
MW-10	1/10/2008	3762.66	65.78	--	3696.88	--	--	--	--	--	--	--	--	--
MW-10	2/7/2008	3762.66	65.74	--	3696.92	--	--	--	--	--	--	--	--	--
MW-10	3/4/2008	3762.66	65.66	--	3697.00	7.22	524	14.63	16.11	102.9	<1.0	<5.0	<1.0	<3.0
MW-10	6/2/2008	3762.66	65.89	--	3696.77	7.27	632	20.26	6.97	499.9	<0.46	<0.48	<0.45	<1.4
MW-10	9/16/2008	3762.66	65.84	--	3696.82	7.29	569	18.98	5.34	45.4	<0.46	<0.48	<0.45	11.1
MW-10	12/3/2008	3762.66	65.75	--	3696.91	7.51	553	17.82	8.19	111.1	<0.46	<0.48	<0.45	<1.4
MW-10	1/29/2009	3762.66	65.70	--	3696.96	--	--	--	--	--	--	--	--	--
MW-10	2/24/2009	3762.66	65.53	--	3697.13	7.51	573	18.89	6.69	233.1	<0.46	<0.48	<0.45	<1.4
MW-10	6/23/2009	3762.66	65.63	--	3697.03	7.40	690	20.20	10.40	230.0	<2.0	<2.0	<2.0	<6.0
MW-10	9/2/2009	3762.66	65.85	--	3696.81	6.67	780	20.39	8.55	180.0	<2.0	<2.0	<2.0	<6.0
MW-10	11/18/2009	3762.66	65.87	--	3696.79	7.76	1014	19.17	--	--	<2.0	<2.0	<2.0	<6.0
MW-10	3/24/2010	3762.66	65.87	--	3696.79	7.61	729	18.78	--	--	<2.0	<2.0	<2.0	<6.0
MW-10	6/9/2010	3762.66	66.02	--	3696.64	7.64	583	22.28	--	--	<2.0	<2.0	<2.0	<6.0
MW-10	9/21/2010	3762.66	65.71	--	3696.95	7.25	667.2	19.9	--	--	<0.5	<0.43	<0.55	<1.7
MW-10	12/17/2010	3762.66												

NO ACCESS

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Table 3. Historical Groundwater Analytical Results - DCP Apex Compressor Station, Lea County, New Mexico

Well ID	Date	TOC	DTW	LNAPL Thickness	GWB*	pH	Conductivity	Temperature	DO	ORP	Benzene	Toluene	Ethylbenzene	Total Xylenes
		(ft ml)	(ft bgs)	(ft)	(ft ml)	u	µS/cm	°C	mg/l	mV	10	750	750	620
NMWQCC Cleanup Levels														
MW-B	1/10/2008	3758 52	59 45	--	3699 07	--	--	--	--	--	--	--	--	--
MW-B	2/7/2008	3758 52	59 34	--	3699 18	--	--	--	--	--	--	--	--	--
MW-B	3/4/2008	3758 52	59 29	--	3699 23	6.62	1035	17.67	6.17	16.1	<1.0	<5.0	<1.0	<3.0
MW-B	6/3/2008	3758 52	59 19	--	3699 33	6.81	1108	20.73	3.84	-45.2	40.1	161	141	115
MW-B	9/16/2008	3758 52	59 32	--	3699 20	6.28	1099	19.71	0.95	-32.8	63.9	230	50.5	245
MW-B	12/3/2008	3758 52	59 31	--	3699 21	6.96	893	18.04	3.56	53.1	<0.46	<0.48	<0.45	<1.4
MW-B	1/29/2009	3758 52	59 30	--	3699 22	--	--	--	--	--	--	--	--	--
MW-B	2/24/2009	3758 52	59 17	--	3699 35	6.93	927	19.10	2.97	144.8	3.0	7.8	1.0 J	6.9
MW-B	6/24/2009	3758 52	59 37	--	3699 15	6.80	120	21.30	6.26	20.0	60.9	566 a	92.6	553
MW-B	9/2/2009	3758 52	59 54	--	3698 98	6.81	130	38.60	1.85	-69.0	70.6	602 a	91.5	590 a
MW-B	11/18/2009	3758 52	59 61	--	3698 91	7.28	1095	16.67	--	--	5.4	3.3	2.2	4.9 J
MW-B	3/24/2010	3758 52	59 72	--	3698 80	7.14	1105	19.28	--	--	4.9	48.4	8.9	45.7
MW-B	6/10/2010	3758 52	59 90	--	3698 62	7.12	1028	21.67	--	--	16.8	70.6	25.7	102
MW-B	9/22/2010	3758 52	59 56	--	3698 96	6.84	1205	19.6	--	--	30.7	143	25.9	210
MW-B	12/17/2010	3758 52	59 87	--	3698 65	7.08	1268	18.4	--	--	36.9	139	63.0	191
MW-C	1/10/2008	3759 93	60 33	--	3699 60	--	--	--	--	--	--	--	--	--
MW-C	2/7/2008	3759 93	60 24	--	3699 69	--	--	--	--	--	--	--	--	--
MW-C	3/5/2008	3759 93	60 21	--	3699 72	6.98	595	16.89	9.97	56.9	<1.0	<5.0	<1.0	<3.0
MW-C	6/3/2008	3759 93	60 15	--	3699 78	6.99	773	20.83	6.90	-81.1	<0.46	<0.48	<0.45	<1.4
MW-C	9/16/2008	3759 93	60 22	--	3699 71	6.73	803	19.99	3.58	90.0	<0.46	<0.48	<0.45	11.2
MW-C	12/3/2008	3759 93	60 30	--	3699 63	6.97	761	18.36	5.37	115.6	<0.46	<0.48	<0.45	<1.4
MW-C	1/29/2009	3759 93	60 20	--	3699 73	--	--	--	--	--	--	--	--	--
MW-C	2/24/2009	3759 93	60 12	--	3699 81	6.91	792	13.21	4.40	186.3	<0.46	<0.48	<0.45	<1.4
MW-C	6/24/2009	3759 93	60 32	--	3699 61	6.80	110	20.60	6.31	127.0	<2.0	<2.0	<2.0	<6.0
MW-C	9/2/2009	3759 93	60 42	--	3699 51	7.02	120	20.14	6.20	88.0	<2.0	<2.0	<2.0	<6.0
MW-C	11/18/2009	3759 93	60 56	--	3699 37	7.22	1000	18.89	--	--	<2.0	<2.0	<2.0	<6.0
MW-C	3/24/2010	3759 93	60 64	--	3699 29	7.11	1019	19.56	--	--	<2.0	0.10	<2.0	<6.0
MW-C	6/9/2010	3759 93	60 76	--	3699 17	7.01	861	22.68	--	--	<2.0	<2.0	<2.0	<6.0
MW-C	9/21/2010	3759 93	60 45	--	3699 48	6.72	978.1	20.2	--	--	<0.5	<0.43	<0.55	<1.7
MW-C	12/17/2010	3759 93	60 76	--	3699 17	7.06	1006	18.7	--	--	<0.50	<0.43	<0.55	<1.7
MW-D	1/10/2008	3759 53	60 19	--	3699 34	--	--	--	--	--	--	--	--	--
MW-D	2/7/2008	3759 53	60 08	--	3699 45	--	--	--	--	--	--	--	--	--
MW-D	3/5/2008	3759 53	60 04	--	3699 49	7.00	891	16.64	11.15	-134.4	470	140	160	610
MW-D	6/3/2008	3759 53	59 97	--	3699 56	6.83	1249	21.09	0.75	-195.8	662	47.4	252	202
MW-D	9/16/2008	3759 53	60 10	--	3699 43	6.23	1221	20.31	0.46	-102.2	711	93.8	255	518
MW-D	12/3/2008	3759 53	60 10	--	3699 43	6.94	1118	18.12	1.32	-111.5	749	36.4	282	1,200
MW-D(d)	12/3/2008	3759 53	60 10	--	3699 43	6.94	1118	18.12	1.32	-111.5	738	36.7	263	1,200
MW-D	1/29/2009	3759 53	60 15	--	3699 38	--	--	--	--	--	--	--	--	--
MW-D	2/24/2009	3759 53	59 94	--	3699 59	6.87	1153	19.47	0.92	-38.1	759	176	277	1,070
MW-D(d)	2/24/2009	3759 53	59 94	--	3699 59	6.87	1153	19.47	0.92	-38.1	937	173	326	1,430
MW-D	6/24/2009	3759 53	60 18	--	3699 35	6.80	130	20.70	2.01	-89.0	999	253	322	1,780
MW-D	9/2/2009	3759 53	60 29	--	3699 24	6.90	150	20.72	2.11	-128.0	963	202	319	1,940
MW-D	11/18/2009	3759 53	60 41	--	3699 12	7.09	1223	18.78	--	--	1,070	30.4	303	1,330
MW-D	3/24/2010	3759 53	60 50	--	3699 03	7.04	1306	20.06	--	--	1,260	38.9	292	1,920
MW-D	6/10/2010	3759 53	60 63	--	3698 90	6.99	977	23.89	--	--	834 a	73.5	260 a	1,350 a
MW-D	9/22/2010	3759 53	60 27	--	3699 26	6.81	1264	19.9	--	--	570	67.3	191	726
MW-D	12/17/2010	3759 53	61 62	--	3697 91	7.06	1402	18.3	--	--	500	64.9	156	415

CONESTOGA-ROVERS & ASSOCIATES

Table 3. Historical Groundwater Analytical Results - DCP Apex Compressor Station, Lea County, New Mexico

Well ID	Date	TOC	DTW	LNAPL Thickness	GWB*	pH	Conductivity	Temperature	DO	ORP	Benzene	Toluene	Ethyl - benzene	Total Xylenes
		(ft msl)	(ft bgs)	(ft)	(ft msl)	u	µS/cm	°C	mg/l	mV	Concentrations in µg/l			
NMWQCC Cleanup Levels											10	750	750	620
RW-01	1/10/2008	3759.49	59.39	--	3700.10	--	--	--	--	--	--	--	--	--
RW-01	2/7/2008	3759.49	59.28	--	3700.21	--	--	--	--	--	--	--	--	--
RW-01	3/4/2008	3759.49	59.62	--	3699.87	6.68	1884	18.34	4.02	-218.1	620	< 50	170	860
RW-01(d)	3/4/2008	3759.49	59.62	--	3699.87	6.68	1884	18.34	4.02	-218.1	550	< 50	200	1,000
RW-01	6/3/2008	3759.49	59.11	--	3700.38	6.85	2192	20.99	2.41	-136.4	662	7.7	712	3,750
RW-01	9/17/2008	3759.49	59.21	--	3700.28	6.71	1929	20.24	0.41	-82.1	499	2.1	345	1,480
RW-01(d)	9/17/2008	3759.49	59.21	--	3700.28	6.71	1929	20.24	0.41	-82.1	522	1.9 J	302	1,390
RW-01	12/4/2008	3759.49	59.25	--	3700.24	7.01	1797	17.80	1.03	-127.4	515	< 2.4	347	1,540
RW-01	1/29/2009	3759.49	59.25	--	3700.24	--	--	--	--	--	--	--	--	--
RW-01	2/24/2009	3759.49	59.12	--	3700.37	6.90	1922	19.91	0.50	-94.4	770	< 2.4	387	1,570
RW-01	6/23/2009	3759.49	59.34	--	3700.15	6.90	220	20.80	2.13	-121.0	1,110 a	< 2.0	304 a	1,360
RW-01(d)	6/23/2009	3759.49	59.34	--	3700.15	6.90	220	20.80	2.13	-121.0	1,160	< 2.0	315	1,400
RW-01	9/3/2009	3759.49	59.55	--	3699.94	6.55	220	19.80	1.79	-126.0	1,100	< 2.0	363	1,780
RW-01	11/18/2009	3759.49	59.63	--	3699.86	7.11	1866	21.06	--	--	906 a	< 2.0	321 a	901 a
RW-01	3/24/2010	3759.49	59.78	--	3699.71	7.12	1830	19.56	--	--	1,010	< 2.0	255	947
RW-01	6/10/2010	3759.49	59.90	--	3699.59	7.09	1086	22.67	--	--	919	< 2.0	253	821
RW-01	9/22/2010	3759.49	59.60	--	3699.89	6.78	1719	19.4	--	--	1,080	< 0.43	273	1,000
RW-01	12/17/2010	3759.49	59.94	--	3699.55	7.03	1778	18.3	--	--	1,210	< 0.43	364	1,200
RW-02	1/10/2008	3759.29	59.33	--	3699.96	--	--	--	--	--	--	--	--	--
RW-02	2/7/2008	3759.29	59.29	--	3700.00	--	--	--	--	--	--	--	--	--
RW-02	3/4/2008	3759.29	59.21	--	3700.08	6.54	2101	18.03	2.57	-185.2	1,400	< 50	260	880
RW-02	6/3/2008	3759.29	59.15	--	3700.14	6.71	2232	20.70	1.34	-118.8	1,230	< 0.48	348	1,100
RW-02	9/17/2008	3759.29	59.21	--	3700.08	6.19	1926	19.49	0.54	-47.3	1,160	< 0.48	344	1,220
RW-02	12/4/2008	3759.29	59.22	--	3700.07	6.92	1527	17.78	2.07	-94.8	860	< 0.48	289	779
RW-02(d)	12/4/2008	3759.29	59.22	--	3700.07	6.92	1527	17.78	2.07	-94.8	849	< 4.8	266	741
RW-02	1/29/2009	3759.29	59.25	--	3700.04	--	--	--	--	--	--	--	--	--
RW-02	2/24/2009	3759.29	59.12	--	3700.17	6.86	1513	19.42	1.03	-68.4	1,200	< 0.48	397	1,160
RW-02(d)	2/24/2009	3759.29	59.12	--	3700.17	6.86	1513	19.42	1.03	-68.4	1,130	< 4.8	360	1,080
RW-02	6/23/2009	3759.29	59.32	--	3699.97	6.80	170	20.70	2.34	-93.0	1,140	< 2.0	405	1,530
RW-02	9/3/2009	3759.29	59.54	--	3699.75	6.65	170	19.72	1.84	-133.0	962	< 2.0	417	1,830
RW-02	11/18/2009	3759.29	59.61	--	3699.68	6.92	1420	19.17	--	--	715 a	< 2.0	303 a	846 a
RW-02	3/24/2010	3759.29	59.78	--	3699.51	7.02	1425	20.39	--	--	512	< 2.0	208	647
RW-02	6/10/2010	3759.29	59.90	--	3699.39	7.01	1148	22.50	--	--	491	< 2.0	216	661
RW-02	9/22/2010	3759.29	59.58	--	3699.71	6.81	1552	19.80	--	--	765	< 0.43	303	1,060
RW-02(d)	9/22/2010	3759.29	59.58	--	3699.71	6.81	1552	19.80	--	--	680 a	< 0.43	271 a	981 a
RW-02	12/17/2010	3759.29	51.91	--	3707.38	7.03	1667	18.30	--	--	616	< 0.43	239	802
RW-02(d)	12/17/2010	3759.29	51.91	--	3707.38	7.03	1667	18.30	--	--	519 a	88.0	195	439 a
RW-03	1/10/2008	3759.46	59.48	--	3699.98	--	--	--	--	--	LNAPL present			
RW-03	2/7/2008	3759.46	59.46	--	3700.00	--	--	--	--	--	LNAPL present			
RW-03	3/3/2008	3759.46	60.10	0.75	3699.97	--	--	--	--	--	LNAPL present			
RW-03	6/2/2008	3759.46	60.36	1.20	3700.07	--	--	--	--	--	LNAPL present			
RW-03	9/15/2008	3759.46	60.73	1.63	3700.05	--	--	--	--	--	LNAPL present			
RW-03	12/3/2008	3759.46	60.73	1.66	3700.07	--	--	--	--	--	LNAPL present			
RW-03	1/29/2009	3759.46	61.70	2.80	3700.03	--	--	--	--	--	LNAPL present			
RW-03	2/25/2009	3759.46	60.67	1.73	3700.19	--	--	--	--	--	LNAPL present			
RW-03	6/24/2009	3759.46	61.52	2.42	3699.90	--	--	--	--	--	LNAPL present			
RW-03	9/2/2009	3759.46	61.95	2.82	3699.79	--	--	--	--	--	LNAPL present			
RW-03	11/16/2009	3759.46	62.03	2.85	3699.71	--	--	--	--	--	LNAPL present			
RW-03	1/14/2010	3759.46	62.23	3.00	3699.54	--	--	--	--	--	LNAPL present			
RW-03	2/25/2010	3759.46	62.20	2.96	3699.69	--	--	--	--	--	LNAPL present			
RW-03	3/31/2010	3759.46	62.24	2.94	3699.60	--	--	--	--	--	LNAPL present			
RW-03	6/10/2010	3759.46	62.44	3.06	3699.50	--	--	--	--	--	LNAPL present			
RW-03	9/21/2010	3759.46	61.80	2.63	3699.79	--	--	--	--	--	LNAPL present			
RW-03	12/17/2010	3759.46	62.18	2.80	3699.55	--	--	--	--	--	LNAPL present			

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Table 3. Historical Groundwater Analytical Results - DCP Apex Compressor Station, Lea County, New Mexico

Well ID	Date	TOC (ft msl)	DTW (ft bgs)	LNAPL Thickness (ft)	GWB ^a (ft msl)	pH s.u.	Conductivity µS/cm	Temperature °C	DO mg/l	ORP mV	Benzene	Toluene	Ethyl- benzene	Total Xylenes
NMWQCC Cleanup Levels											10	750	750	620
RW-04	1/10/2008	3759.59	62.01	2.93	3699.95					LNAPL present				
RW-04	2/7/2008	3759.59	61.55	2.51	3700.07					LNAPL present				
RW-04	3/3/2008	3759.59	61.75	2.56	3699.91					LNAPL present				
RW-04	6/2/2008	3759.59	61.64	2.83	3700.24					LNAPL present				
RW-04	9/15/2008	3759.59	61.76	2.88	3700.16					LNAPL present				
RW-04	12/3/2008	3759.59	61.68	2.80	3700.18					LNAPL present				
RW-04	1/29/2009	3759.59	61.70	2.80	3700.16					LNAPL present				
RW-04	2/25/2009	3759.59	61.46	2.70	3700.32					LNAPL present				
RW-04	6/24/2009	3759.59	61.96	2.98	3700.04					LNAPL present				
RW-04	9/2/2009	3759.59	62.23	3.07	3699.85					LNAPL present				
RW-04	11/16/2009	3759.59	62.30	3.07	3699.78					LNAPL present				
RW-04	1/14/2010	3759.59	62.40	3.11	3699.71					LNAPL present				
RW-04	2/25/2010	3759.59	62.43	3.13	3699.70					LNAPL present				
RW-04	3/31/2010	3759.59	62.40	3.06	3699.67					LNAPL present				
RW-04	6/10/2010	3759.59	62.60	3.20	3699.58					LNAPL present				
RW-04	9/21/2010	3759.59	61.99	2.77	3699.84					LNAPL present				
RW-04	12/17/2010	3759.59	62.27	2.92	3699.69					LNAPL present				
RW-05	1/10/2008	3759.53	59.84	--	3699.69	--	--	--	--	--	--	--	--	--
RW-05	2/7/2008	3759.53	59.74	--	3699.79	--	--	--	--	--	--	--	--	--
RW-05	3/5/2008	3759.53	59.73	--	3699.80	6.84	1238	18.23	2.34	-213.9	4,800	7,200	1,400	10,000
RW-05	6/3/2008	3759.53	59.65	--	3699.88	6.81	1644	22.10	0.91	-213.6	5,000	2,310	817	4,910
RW-05	9/17/2008	3759.53	59.74	--	3699.79	6.42	1791	20.63	0.04	-75.1	5,040	3,620	874	5,840
RW-05	12/4/2008	3759.53	59.76	--	3699.77	6.87	1689	18.31	0.61	-132.7	3,790	638	653	4,090
RW-05	1/29/2009	3759.53	59.75	--	3699.78	--	--	--	--	--	--	--	--	--
RW-05	2/25/2009	3759.53	59.70	--	3699.83	6.86	1972	19.52	1.09	-14.3	5,030	934	722	4,840
RW-05	6/24/2009	3759.53	59.83	--	3699.70	6.70	230	20.80	4.54	-88.0	5,030	5,400	696	4,450
RW-05	9/3/2009	3759.53	60.04	--	3699.49	6.63	270	21.06	1.89	-134.0	4,880	5,490	570	3,800
RW-05	11/18/2009	3759.53	60.16	--	3699.37	6.94	2540	18.00	--	--	5,740	149	693	4,830
RW-05	3/24/2010	3759.53	60.35	--	3699.18	6.95	2780	19.28	--	--	5,140	795	558	3,610
RW-05	6/10/2010	3759.53	60.40	--	3699.13	6.92	1995	23.00	--	--	5,690	488	602	3,550
RW-05(d)	6/10/2010	3759.53	60.40	--	3699.13	6.92	1995	23.00	--	--	5,590	230	565	3,200
RW-05	9/22/2010	3759.53	60.04	--	3699.49	6.71	3480	19.80	--	--	6,770	1,260	696	4,270
RW-05	12/17/2010	3759.53	60.33	--	3699.20	6.9	3364	18.60	--	--	6,630	764	722	4,160
RW-06	1/10/2008	3758.44	58.78	--	3699.66	--	--	--	--	--	--	--	--	--
RW-06	3/5/2008	3758.44	59.67	--	3698.77	6.91	1217	17.81	3.47	-146.1	14,000	10,000	3,200	18,000
RW-06	6/2/2008	3758.44	51.69	--	3706.75	6.80	1601	21.23	1.36	-182.0	3,930	3,660	1,090	7,200
RW-06	9/17/2008	3758.44	59.68	--	3698.76	6.39	1664	19.84	0.25	-68.2	3,860	3,870	981	5,980
RW-06	12/4/2008	3758.44	59.65	--	3698.79	6.90	1594	17.93	1.21	-161.8	2,890	555	715	3,970
RW-06	1/29/2009	3758.44	59.70	--	3698.74	--	--	--	--	--	--	--	--	--
RW-06	2/25/2009	3758.44	59.61	--	3698.83	6.82	1753	19.79	0.86	-30.7	3,460	435	786	4,830
RW-06	6/24/2009	3758.44	59.77	--	3698.67	6.70	200	20.80	2.13	-81.0	3,360	1,760	809	5,470
RW-06	9/3/2009	3758.44	59.97	--	3698.47	6.67	230	20.82	2.13	-124.0	2,890	1,140	683	4,780
RW-06	11/18/2009	3758.44	60.03	--	3698.41	6.95	2020	17.67	--	--	2,590	<200	756	4,280
RW-06	3/24/2010	3758.44	60.17	--	3698.27	-7.01	2150	21.56	--	--	1,650	172	576	3,100
RW-06	6/10/2010	3758.44	60.35	--	3698.09	6.91	1417	23.17	--	--	1,840	225	598	3,400
RW-06	9/22/2010	3758.44	59.99	--	3698.45	6.70	2432	19.7	--	--	2,100	54.4	812	4,550
RW-06	12/17/2010	3758.44	60.33	--	3698.11	6.91	2500	18.4	--	--	2,480	130	798	4,080
RW-06 (d)	12/17/2010	3758.44	60.33	--	3698.11	6.91	2500	18.4	--	--	2,420	119	858	4,740
RW-07	1/10/2008	3759.53	60.08	--	3699.45	--	--	--	--	--	--	--	--	--
RW-07	2/7/2008	3759.53	59.93	--	3699.60	--	--	--	--	--	--	--	--	--
RW-07	3/5/2008	3759.53	59.99	--	3699.54	6.88	1131	17.76	3.88	-113.1	1,800	<100	280	1,300
RW-07	6/3/2008	3759.53	59.87	--	3699.66	6.85	1459	21.24	1.32	-159.8	2,230	111	334	1,290
RW-07	9/17/2008	3759.53	59.94	--	3699.59	6.61	1623	20.04	0.52	-76.9	3,160	<24	478	2,570
RW-07	12/4/2008	3759.53	59.95	--	3699.58	6.93	1593	17.74	1.14	-78.4	3,300	<24	439	2,000
RW-07	1/29/2009	3759.53	63.00	--	3696.53	--	--	--	--	--	--	--	--	--
RW-07	2/25/2009	3759.53	59.83	--	3699.70	6.88	1695	19.68	0.92	-47.4	3,930	<24	424	2,120
RW-07	6/24/2009	3759.53	60.03	--	3699.50	6.60	220	21.04	4.06	-92.0	3,860	<2.0	489	2,510
RW-07	9/3/2009	3759.53	60.23	--	3699.30	6.63	240	20.90	2.09	-155.0	3,530	<200	403	1,950
RW-07	11/18/2009	3759.53	60.29	--	3699.24	7.24	1601	20.50	--	--	2,310	<200	265	925
RW-07	3/24/2010	3759.53	60.45	--	3698.08	7.14	1798	20.78	--	--	1,900	<200	316	607
RW-07	6/10/2010	3759.53	60.55	--	3698.98	7.01	1348	22.89	--	--	2,480	<200	307	721
RW-07	9/22/2010	3759.53	60.20	--	3699.33	6.82	2146	19.8	--	--	2,800	<8.7	382	1,080
RW-07	12/17/2010	3759.53	60.55	--	3698.98	7.02	2400	18.5	--	--	3,180	<8.7	431	1,030

CONESTOGA-ROVERS & ASSOCIATES

Table 3. Historical Groundwater Analytical Results - DCP Apex Compressor Station, Lea County, New Mexico

Well ID	Date	TOC (ft ml)	DTW (ft bgs)	LNAPL Thickness (ft)	GWB* (ft ml)	pH a.u.	Conductivity µS/cm	Temperature °C	DO mg/l	ORP mV	Benzene mg/l	Toluene mg/l	Ethyl- benzene mg/l	Total Xylenes mg/l
NMWQCC Cleanup Levels											10	750	750	620
RW-08	1/10/2008	3759.51	60.33	--	3699.18	--	--	--	--	--	--	--	--	--
RW-08	2/7/2008	3759.51	60.19	--	3699.32	--	--	--	--	--	--	--	--	--
RW-08	3/4/2008	3759.51	60.23	--	3699.28	6.74	1215	17.99	2.42	-127.1	1.708	< 5.000	< 1.000	6.000
RW-08	6/3/2008	3759.51	60.12	--	3699.39	7.05	1405	21.77	1.32	-110.0	3.470	< 9.7	751	4.000
RW-08	9/17/2008	3759.51	60.25	--	3699.26	6.50	1307	19.87	0.88	-60.5	2.210	< 4.0	488	3.450
RW-08	12/4/2008	3759.51	60.23	--	3699.28	7.05	1201	17.94	1.87	-61.1	3.240	< 9.7	567	2.950
RW-08	1/29/2009	3759.51	60.20	--	3699.31	--	--	--	--	--	--	--	--	--
RW-08	2/25/2009	3759.51	60.09	--	3699.42	6.98	1279	19.86	1.23	-33.8	7.68	< 9.7	727	2.480
RW-08	6/24/2009	3759.51	60.32	--	3699.19	6.40	140	20.60	2.13	-76.0	1.960	< 50	534	3.330
RW-08	9/2/2009	3759.51	60.44	--	3699.07	6.91	150	20.94	1.87	-129.0	1.620	< 50	506	3.530
RW-08	11/18/2009	3759.51	60.55	--	3698.96	7.28	1432	20.06	--	--	3.920 a	13.1	604 a	1.550 a
RW-08	3/24/2010	3759.51	60.65	--	3698.86	7.26	1525	20.56	--	--	4.250	< 50	714	3.650
RW-08	6/10/2010	3759.51	60.80	--	3698.71	7.14	1235	22.30	--	--	2.930	< 50	715	3.870
RW-08	9/22/2010	3759.51	60.46	--	3699.05	6.85	1492	19.80	--	--	3.000	< 11.0	555	2.160
RW-08	12/17/2010	3759.51	61.76	--	3697.75	7.06	1558	18.8	--	--	2.850	< 11.0	630	2.100
RW-09	1/10/2008	3754.40	61.29	--	3693.11	--	--	--	--	--	--	--	--	--
RW-09	2/7/2008	3754.40	61.14	--	3693.26	--	--	--	--	--	--	--	--	--
RW-09	3/4/2008	3754.40	61.25	--	3693.15	6.79	110	17.67	5.21	91.4	24	< 5.0	< 1.0	11.0
RW-09	6/3/2008	3754.40	61.08	--	3693.32	6.93	1183	20.12	2.52	89.7	30.1	< 0.48	< 0.45	8.9
RW-09	9/16/2008	3754.40	61.31	--	3693.09	6.20	1238	19.73	0.72	1.8	18.9	< 0.48	15.1	17.1
RW-09	12/3/2008	3754.40	61.25	--	3693.15	6.91	1133	18.59	1.29	94.3	16.5	< 0.48	< 0.45	< 1.4
RW-09	1/29/2009	3754.40	62.15	--	3692.25	--	--	--	--	--	--	--	--	--
RW-09	2/24/2009	3754.40	61.04	--	3693.36	7.04	1096	19.31	2.43	207.4	< 0.46	< 0.48	< 0.45	< 1.4
RW-09	6/23/2009	3754.40	61.16	--	3693.24	7.10	110	20.80	8.83	228.0	< 2.0	< 2.0	< 2.0	< 6.0
RW-09	9/2/2009	3754.40	61.35	--	3693.05	6.92	130	20.82	4.29	86.0	< 2.0	< 2.0	< 2.0	< 6.0
RW-09	11/18/2009	3754.40	61.42	--	3692.98	7.09	1270	16.28	--	--	< 2.0	< 2.0	< 2.0	< 6.0
RW-09	3/24/2010	3754.40	61.45	--	3692.95	7.16	1280	21.56	--	--	< 2.0	< 2.0	< 2.0	2.9
RW-09	6/9/2010	3754.40	61.59	--	3692.81	7.08	1117	22.17	--	--	< 2.0	< 2.0	< 2.0	< 6.0
RW-09	9/21/2010	3754.40	61.28	--	3693.12	6.86	1270	20.1	--	--	< 0.5	< 0.43	< 0.55	< 1.7
RW-09	12/17/2010	3754.40	--	--	--	--	--	--	--	--	--	--	--	--
RW-10	1/10/2008	3754.53	61.33	--	3693.20	--	--	--	--	--	--	--	--	--
RW-10	2/7/2008	3754.53	61.19	--	3693.34	--	--	--	--	--	--	--	--	--
RW-10	3/4/2008	3754.53	61.29	--	3693.24	6.96	967	16.38	7.83	169.9	< 1.0	< 5.0	< 1.0	< 3.0
RW-10	6/3/2008	3754.53	61.14	--	3693.39	7.09	1023	20.01	7.07	132.8	< 0.46	< 0.48	0.651	< 1.4
RW-10	9/16/2008	3754.53	61.35	--	3693.18	7.01	1082	19.51	4.77	83.0	< 0.46	< 0.48	< 0.45	3.81
RW-10	12/3/2008	3754.53	61.30	--	3693.23	7.22	962	18.64	6.55	98.5	< 0.46	< 0.48	< 0.45	< 1.4
RW-10	1/29/2009	3754.53	61.20	--	3693.33	--	--	--	--	--	--	--	--	--
RW-10	2/24/2009	3754.53	61.10	--	3693.43	7.12	1079	19.20	5.83	218.9	< 0.46	< 0.48	< 0.45	< 1.4
RW-10	6/23/2009	3754.53	61.22	--	3693.31	7.30	100	20.50	9.99	227.0	< 2.0	< 2.0	< 2.0	< 6.0
RW-10	9/2/2009	3754.53	61.40	--	3693.13	7.22	120	20.51	7.98	126.0	< 2.0	< 2.0	< 2.0	< 6.0
RW-10	11/18/2009	3754.53	61.45	--	3693.08	7.46	1343	17.28	--	--	< 2.0	< 2.0	< 2.0	< 6.0
RW-10	3/24/2010	3754.53	61.52	--	3693.01	7.33	1276	19.67	--	--	< 2.0	< 2.0	< 2.0	< 6.0
RW-10	6/9/2010	3754.53	61.64	--	3692.89	7.20	1139	22.17	--	--	< 2.0	< 2.0	< 2.0	< 6.0
RW-10	9/21/2010	3754.53	61.32	--	3693.21	6.98	1188	20.3	--	--	< 0.5	< 0.43	< 0.55	< 1.7
RW-10	12/17/2010	3754.53	--	--	--	--	--	--	--	--	--	--	--	--

CONESTOGA-ROVERS & ASSOCIATES

Table 3. Historical Groundwater Analytical Results - DCP Apex Compressor Station, Lea County, New Mexico

Well ID	Date	TOC	DTW	LNAPL Thickness	GWE*	pH	Conductivity	Temperature	DO	ORP	Benzene	Toluene	Ethylbenzene	Total Xylenes
		(ft msl)	(ft bgs)	(ft)	(ft msl)	s.u.	µS/cm	°C	mg/l	mV	Concentrations in µg/l			
NMWQCC Cleanup Levels											10	750	750	620
RW-11	1/10/2008	3754.61	61.32	--	3693.29	--	--	--	--	--	--	--	--	--
RW-11	2/7/2008	3754.61	61.27	--	3693.34	--	--	--	--	--	--	--	--	--
RW-11	3/4/2008	3754.61	61.28	--	3693.33	6.88	832	16.95	8.66	179.1	<1.0	<5.0	<1.0	<3.0
RW-11	6/3/2008	3754.61	61.45	--	3693.16	6.89	909	20.43	6.89	148.7	<0.46	<0.48	<0.45	<1.4
RW-11	9/16/2008	3754.61	61.35	--	3693.26	6.98	910	19.22	4.11	72.4	<0.46	<0.48	<0.45	<1.4
RW-11	12/3/2008	3754.61	61.33	--	3693.28	7.12	879	18.41	5.49	80.6	<0.46	<0.48	<0.45	<1.4
RW-11	1/29/2009	3754.61	61.25	--	3693.36	--	--	--	--	--	--	--	--	--
RW-11	2/24/2009	3754.61	61.14	--	3693.47	7.19	876	19.18	5.46	220.6	<0.46	<0.48	<0.45	<1.4
RW-11	6/23/2009	3754.61	61.23	--	3693.38	7.40	780	20.20	10.95	227.0	<2.0	<2.0	<2.0	<6.0
RW-11	9/2/2009	3754.61	61.42	--	3693.19	7.31	100	20.92	7.86	133.0	<2.0	<2.0	<2.0	<6.0
RW-11	11/18/2009	3754.61	61.49	--	3693.12	7.43	1034	15.67	--	--	<2.0	<2.0	<2.0	<6.0
RW-11	3/24/2010	3754.61	61.51	--	3693.10	7.34	1024	20.06	--	--	<2.0	<2.0	<2.0	<6.0
RW-11	6/9/2010	3754.61	61.64	--	3692.97	7.36	854	22.44	--	--	<2.0	<2.0	<2.0	<6.0
RW-11	9/21/2010	3754.61	61.34	--	3693.27	6.99	1010	20.1	--	--	<0.5	<0.43	<0.55	<1.7
RW-11	12/17/2010	3754.61	--	--	--	--	--	NO ACCESS						
RW-12	1/10/2008	3754.76	61.44	--	3693.32	--	--	--	--	--	--	--	--	--
RW-12	2/7/2008	3754.76	61.35	--	3693.41	--	--	--	--	--	--	--	--	--
RW-12	3/4/2008	3754.76	61.40	--	3693.36	7.09	577	16.53	10.49	157.9	<1.0	<5.0	<1.0	<3.0
RW-12	6/3/2008	3754.76	61.29	--	3693.47	7.25	672	19.64	6.52	157.2	<0.46	<0.48	<0.45	<1.4
RW-12	9/16/2008	3754.76	61.47	--	3693.29	7.12	666	19.12	4.91	63.7	<0.46	<0.48	<0.45	<1.4
RW-12	12/3/2008	3754.76	61.40	--	3693.36	7.29	650	18.59	6.51	56.4	<0.46	<0.48	<0.45	<1.4
RW-12	1/29/2009	3754.76	61.35	--	3693.41	--	--	--	--	--	--	--	--	--
RW-12	2/24/2009	3754.76	61.24	--	3693.52	7.33	665	18.86	6.15	215.7	<0.46	<0.48	<0.45	<1.4
RW-12	6/23/2009	3754.76	61.35	--	3693.41	7.30	730	20.20	9.46	226.0	<2.0	<2.0	<2.0	<6.0
RW-12	9/2/2009	3754.76	61.54	--	3693.22	7.36	820	20.76	7.64	146.0	<2.0	<2.0	<2.0	<6.0
RW-12	11/18/2009	3754.76	61.61	--	3693.15	7.52	807	15.67	--	--	<2.0	<2.0	<2.0	<6.0
RW-12	3/24/2010	3754.76	61.62	--	3693.14	7.39	820	18.78	--	--	<2.0	<2.0	<2.0	<6.0
RW-12	6/9/2010	3754.76	61.75	--	3693.01	7.41	702	22.28	--	--	<2.0	<2.0	<2.0	<6.0
RW-12	9/21/2010	3754.76	61.45	--	3693.31	7.07	820.4	20.3	--	--	<0.5	<0.43	<0.55	<1.7
RW-12	12/17/2010	3754.76	--	--	--	--	--	NO ACCESS						

Notes and Abbreviations:

ID = Identification
 TOC = Top of casing
 DTW = Depth to water
 LNAPL = Light non-aqueous phase liquids
 GWE = Groundwater elevation
 * = A specific gravity for LNAPL of 0.81 was used to calculate corrected groundwater elevation
 DO = Dissolved oxygen
 ORP = Oxidation reduction potential
 BTEX = Benzene, toluene, ethylbenzene, and total xylenes by SW-846 8021 or 8260B
 ft msl = Feet above mean sea level
 ft bgs = Feet below ground surface
 ft = Feet
 s.u. = Standard unit
 µS/cm = Microsiemens per centimeter
 °C = Degrees Celsius
 mg/l = Milligrams per liter
 mV = Millivolts
 µg/l = micrograms per liter
 -- = Not measured/not analyzed
 <x = Not detected above x µg/l
 d = Duplicate sample
 s = Result from the second run
 j = An estimated value
 NMWQCC = New Mexico Water Quality Control Commission

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APPENDIX A

WELL SAMPLING FORMS AND FIELD NOTES

Location APEX Date 10-21-10⁴⁹

Project / Client CS8660-113 DCI

DT M JP JN

0525 hour 5.4 11860

1030 sign in 11968

Twist

relabel product drums

1054 31 4-1 5451-24

Bailed

ID	DT	DTW	WPI	Hz
----	----	-----	-----	----

MW-1	60.12	60.34	0.05	0.2
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MW-3	59.29	62.12	1.5	1.5
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MW-4	59.35	62.25	2	0
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Int'l for probe 06565

Has monitor 06591

1100 general product and start

working product

1122 head to waste storage 1124

1131 dispose of water and product

4 full and 1 10 gal

1132 sign out 11969

head next site

Location APEXDate 11-18-10Project - Client 058660DCPo3m18/141830- LOADED TRUCKLOT 7 FOR SITE730081050- ARRIVED AT SITE731171051- SIMMON IN ANDBZIC WAS GIVENSITE TRAINING1116- STARTED WORK ANDREVIEWED ALL HEALTH& SAFETY ITEMS INHAOP.1125- PERFORMED O3MBAILEY

WELL	DTP	DTW	THICK	PRODUCT	H ₂ O
MW-1	60.17	60.41	8.24	0.05	0.05
RW-3	59.35	62.21	2.86	1.75	1.0
RW-4	59.40	62.29	2.89	2.00	1.0

4- Full Drums1- Drum 40 gal Full1201- LEFT SITE FOR PCA73119

Location PER Date 12-15-10⁵¹
Project / Client 058660 CD
OSM & GWS JP/SRL

1050 - SHOWED IN OFFICE
DRIVE TO SITE 16532

1052 - REVIEWED HASP
AND ALL OF OUR
HEALTH & SAFETY ITEMS

1110 - TALKED ABOUT SWA
AND WHETHER
CONDITIONS ALLOW
W/NOT SAMPLING
OR GAUGING CL P&D
WELLS.

1115 - STARTED GAUGING
FOR GWS EVENT

1355 - FINISHED GAUGING
AND LEFT FOR
HOBBS GAP TO START
SAMPLING
16533

JP



CONESTOGA-ROVERS
& ASSOCIATES

Groundwater Monitoring Field Sheet

N/M Time

Well ID	Time	DTP	DTW	Depth to Bottom	Product Thickness	Amount of Product Removed	Casing Diam.	Comments
MW-10		Didn't Sample			EL PASO			
RW-11		Didn't Sample			EL PASO			
RW-12		Didn't Sample			EL PASO			
MW-C	1030	—	60.76	68.00	—	—	2	Good
RW-10		Didn't Sample			EL PASO			
MW-9	1033	—	64.20	73.00	—	—	2	Good
MW-5	1036	—	61.97	71.90	—	—	2	Good
RW-9		Didn't Sample			EL PASO			
MW-4	1040	—	62.10	72.10	—	—	2	Good
MW-B	1045	—	59.87	71.25	—	—	2	Good
MW-6	1049	—	59.63	65.70	—	—	2	Good
MW-2	1052	—	60.30	69.96	—	—	2	Good
RW-8	1056	—	61.76	69.05	—	—	2	Good

Project Name: APEX COMPRESSOR STATION

Project Number/Task: 058660-11-02

Field Staff: JRL, JP

Date: 12-16-10

IP# 6565

HACH # 6579

Cal # + Date

Ph-4 = 4.0 # 0A7575 FEB/12

Ph-7 = 7.0 # 0A3345 FEB/12

PL-10 = 10.0 # 0A2344 MAR/12



CONESTOGA-ROVERS
& ASSOCIATES

Groundwater Monitoring Field Sheet

N/A Time

Well ID	Time	DTP	DTW	Depth to Bottom	Product Thickness	Amount of Product Removed	Casing Diam.	Comments
RW-1	1101	—	59.94	68.30	—	—	2	Good
MW-D	1105	—	61.42	71.36	—	—	2	Good
RW-2	1110	—	57.91	69.66	—	—	2	Good
MW-7	1115	—	63.55	72.40	—	—	2	Good
RW-6	1119	—	60.33	71.00	—	—	2	Good
RW-7	1124	—	60.55	70.05	—	—	2	Good
RW-5	1128	—	60.33	69.45	—	—	2	Good
MW-3	1134	—	60.25	69.80	—	—	2	Good
RW-3	1136	59.38	62.18	—	2.8	2.0	2	Well has product
RW-4	1137	59.35	62.27	—	2.92	2.10	2	Well has product
MW-1	1138	60.25	60.39	—	0.18	.05	2	Well has product

Project Name: APEX COMPRESSOR STATION

Project Number/Task: 058660-11-02

Field Staff: JEL, JP

Date: 12-16-10



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& ASSOCIATES

Groundwater Monitoring Field Sheet – Dec 2010 LNAPL ABATEMENT

Well ID	Time	DTP	DTW	Depth to Bottom	Product Thickness	Amount of Product Removed	Casing Diam.	Comments
RW-3	1136	59.38	62.18	—	2.8	2.0	2	
RW-4	1137	59.35	62.27	—	2.92	2.10	2	
MW-1	1138	60.21	60.39	—	.18	.05	2	

Project Name: **Apex Compressor Station**

Project Number/Task: **058860-11-03**

Field Staff: JP/JRL

Date: 12-16-10

WELL SAMPLING FORM

Project Name: Apex Compressor	CRA Mgr: John Riggi	Well ID: MW-1
Project Number: 058660	Date:	Well Yield:
Site Address:	Sampling Method: Hand Bailing	Well Diameter
		Field Staff:
Initial Depth to Water:	Total Well Depth:	Water Column Height:
Volume/ft:	1 Casing Volume:	3 Casing Volumes:
Purging Device:	Did Well Dewater?:	Total Gallons Purged:
Start Purge Time:	Stop Purge Time:	Total Time:

1 Casing Volume = Water column height x Volume/ ft.

Well Diam	Volume/ft (gallons)
2"	0.16
4"	0.65
6"	1.47

Time	Volume Purged (gallons)	Temp. (°C)	pH	Cond. (uS)	Comments
DIDN'T SAMPLE PRODUCT					

Sample ID	Date	Time	Container Type	Preservative	Analytes	Analytic Method



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& ASSOCIATES

WELL SAMPLING FORM

Project Name: Apex Compressor	CRA Mgr: John Riggi	Well ID: MW-2
Project Number: 058660	Date: 12-17-10	Well Yield: 4.75
Site Address: Apex	Sampling Method: Hand Bailing	Well Diameter 2
		Field Staff: JP/JRL/GD
Initial Depth to Water: 60.30	Total Well Depth: 69.96	Water Column Height: 9.66
Volume/ft: .16	1 Casing Volume: 1.54	3 Casing Volumes: 4.63
Purging Device: Bailers	Did Well Dewater?: No	Total Gallons Purged: 4.75
Start Purge Time: 1207	Stop Purge Time: 1217	Total Time: 10min

1 Casing Volume = Water column height x Volume/ ft

Well Diam	Volume/ft (gallons)
2"	0.16
4"	0.65
6"	1.47

Time	Volume Purged (gallons)	Temp. (°C)	pH	Cond. (uS)	Comments
1215	.25	17.6	6.98	909.6	
1216	.25	18.3	7.00	912.0	
1217	.25	18.2	7.03	908.0	

Sample ID	Date	Time	Container Type	Preservative	Analytes	Analytic Method
MW-2	12-17-10	1217	40ml	HCL		

WELL SAMPLING FORM

Project Name: Apex Compressor	CRA Mgr: John Riggi	Well ID: MW-3
Project Number: 058660	Date: <u>12-17-10</u>	Well Yield: <u>4.75</u>
Site Address: <u>APEX</u>	Sampling Method: Hand Bailing	Well Diameter <u>2</u>
		Field Staff: <u>JP/DBL/GQ</u>
Initial Depth to Water: <u>60.25</u>	Total Well Depth: <u>69.80</u>	Water Column Height: <u>9.55</u>
Volume/ft: <u>.16</u>	1 Casing Volume: <u>1.52</u>	3 Casing Volumes: <u>4.58</u>
Purging Device: <u>BAILEY</u>	Did Well Dewater?: <u>NO</u>	Total Gallons Purged: <u>4.75</u>
Start Purge Time: <u>1430</u>	Stop Purge Time: <u>1443</u>	Total Time: <u>13min</u>

1 Casing Volume = Water column height x Volume/ ft

Well Diam.	Volume/ft (gallons)
2"	0.16
4"	0.65
6"	1.47

Time	Volume Purged (gallons)	Temp. (°C)	pH	Cond. (uS)	Comments
<u>1441</u>	<u>.25</u>	<u>16.1</u>	<u>7.08</u>	<u>2957</u>	
<u>1442</u>	<u>.25</u>	<u>18.0</u>	<u>6.95</u>	<u>2918</u>	
<u>1443</u>	<u>.25</u>	<u>18.5</u>	<u>6.94</u>	<u>2921</u>	

Sample ID	Date	Time	Container Type	Preservative	Analytes	Analytic Method
<u>MW-3</u>	<u>12-17-10</u>	<u>1445</u>	<u>40ml</u>	<u>HCL</u>		



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WELL SAMPLING FORM

Project Name: Apex Compressor	CRA Mgr: John Riggi	Well ID: MW-4
Project Number: 058660	Date: 12-17-10	Well Yield: 5.0
Site Address: Apex	Sampling Method: Hand Bailing	Well Diameter 2
		Field Staff: JP/JRL/GQ
Initial Depth to Water: 62.10	Total Well Depth: 72.10	Water Column Height: 10.00
Volume/ft: .16	1 Casing Volume: 1.6	3 Casing Volumes: 4.8
Purging Device: Backsiphon	Did Well Dewater?: NO	Total Gallons Purged: 5.0
Start Purge Time: 1246	Stop Purge Time: 1258	Total Time: 12min

1 Casing Volume = Water column height x Volume/ ft.

Well Diam

2"

4"

6"

Volume/ft (gallons)

0.16

0.65

1.47

Time	Volume Purged (gallons)	Temp. (°C)	pH	Cond. (uS)	Comments
1255	.25	16.8	7.25	836.0	
1257	.25	18.2	7.29	816.2	
1258	.25	18.2	7.23	811.3	

Sample ID	Date	Time	Container Type	Preservative	Analytes	Analytic Method
MW-4	12-17-10	1258	40ml	HCL		

WELL SAMPLING FORM

Project Name: Apex Compressor	CRA Mgr: John Riggi	Well ID: MW-5
Project Number: 058660	Date: <u>12-17-10</u>	Well Yield: <u>5.0</u>
Site Address: <u>Apex</u>	Sampling Method: Hand Bailing	Well Diameter <u>2</u>
		Field Staff: <u>JP/JR4/GQ</u>
Initial Depth to Water: <u>61.97</u>	Total Well Depth: <u>71.90</u>	Water Column Height: <u>9.93</u>
Volume/ft: <u>.16</u>	1 Casing Volume: <u>1.58</u>	3 Casing Volumes: <u>4.7</u>
Purging Device: <u>Bailer</u>	Did Well Dewater?: <u>NO</u>	Total Gallons Purged: <u>5.0</u>
Start Purge Time: <u>1244</u>	Stop Purge Time: <u>1252</u>	Total Time: <u>8m, 2</u>

1 Casing Volume = Water column height x Volume/ ft.

Well Diam.	Volume/ft (gallons)
2"	0.16
4"	0.65
6"	1.47

Time	Volume Purged (gallons)	Temp. (°C)	pH	Cond. (uS)	Comments
<u>1249</u>	<u>.25</u>	<u>16.6</u>	<u>7.27</u>	<u>1137</u>	
<u>1250</u>	<u>.25</u>	<u>18.2</u>	<u>7.24</u>	<u>1114</u>	
<u>1251</u>	<u>.25</u>	<u>18.5</u>	<u>7.20</u>	<u>1107</u>	

Sample ID	Date	Time	Container Type	Preservative	Analytes	Analytic Method
<u>MW-5</u>	<u>12-17-10</u>	<u>1252</u>	<u>40ml</u>	<u>HCL</u>		

WELL SAMPLING FORM

Project Name: Apex Compressor	CRA Mgr: John Riggi	Well ID: MW-6
Project Number: 058660	Date: 12-17-10	Well Yield: 3.0
Site Address: Apex	Sampling Method: Hand Bailing	Well Diameter 2
		Field Staff: JP/JRL/GQ
Initial Depth to Water: 59.63	Total Well Depth: 65.70	Water Column Height: 6.07
Volume/ft: .16	1 Casing Volume: 0.97	3 Casing Volumes: 2.91
Purging Device: Bailer	Did Well Dewater?: NO	Total Gallons Purged: 3.0
Start Purge Time: 1303	Stop Purge Time: 1314	Total Time: 11 min

1 Casing Volume = Water column height x Volume/ ft

Well Diam.	Volume/ft (gallons)
2"	0.16
4"	0.65
6"	1.47

Time	Volume Purged (gallons)	Temp. (°C)	pH	Cond. (uS)	Comments
1310	.25	16.3	6.98	1246	
1311	.25	18.1	6.95	1237	
1312	.25	18.4	7.00	1229	

Sample ID	Date	Time	Container Type	Preservative	Analytes	Analytic Method
MW-6	12-17-10	1314	40ml	HCL		

WELL SAMPLING FORM

Project Name: Apex Compressor	CRA Mgr: John Riggi	Well ID: MW-7
Project Number: 058660	Date: 12-17-10	Well Yield: 4.50
Site Address: Apex	Sampling Method: Hand Bailing	Well Diameter 2
		Field Staff: JP/SZ4/GAQ
Initial Depth to Water: 63.55	Total Well Depth: 72.40	Water Column Height: 8.85
Volume/ft: .16	1 Casing Volume: 1.41	3 Casing Volumes: 4.24
Purging Device: Bailor	Did Well Dewater?: NO	Total Gallons Purged: 4.50
Start Purge Time: 1228	Stop Purge Time: 1234	Total Time: 6 min

1 Casing Volume = Water column height x Volume/ ft.

Well Diam.	Volume/ft (gallons)
2"	0.16
4"	0.65
6"	1.47

Time	Volume Purged (gallons)	Temp. (°C)	pH	Cond. (uS)	Comments
1232					
1232	25	16.4	7.51	1473	
1233	25	18.1	7.50	1481	
1234	25	18.2	7.48	1497	

Sample ID	Date	Time	Container Type	Preservative	Analytes	Analytic Method
MW-7	12-17-10	1234	40ml	HCL		



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WELL SAMPLING FORM

Project Name: Apex Compressor	CRA Mgr: John Riggi	Well ID: MW-9
Project Number: 058660	Date: 12-17-10	Well Yield: 4.50
Site Address: Apex	Sampling Method: Hand Bailing	Well Diameter 2
		Field Staff: JP/JR/LGQ
Initial Depth to Water: 64.20	Total Well Depth: 64.20 73.00	Water Column Height: 8.8
Volume/ft: 16	1 Casing Volume: 1.40	3 Casing Volumes: 4.22
Purging Device: Bailor	Did Well Dewater?: NO	Total Gallons Purged: 4.50
Start Purge Time: 1227	Stop Purge Time: 1240	Total Time: 13 min

1 Casing Volume = Water column height x Volume/ ft

Well Diam.	Volume/ft (gallons)
2"	0.16
4"	0.65
6"	1.47

Time	Volume Purged (gallons)	Temp. (°C)	pH	Cond. (uS)	Comments
1237	25	17.0	7.51	1558	
1238	25	17.3	7.38	1521	
1239	25	18.0	7.34	1518	

Sample ID	Date	Time	Container Type	Preservative	Analytes	Analytic Method
MW-9	12-17-10	1240	40ml	HCL		



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WELL SAMPLING FORM

Project Name: Apex Compressor	CRA Mgr: John Riggi	Well ID: MW-10
Project Number: 058660	Date: 12-17-10	Well Yield:
Site Address: <i>APEX</i>	Sampling Method: Hand Bailing	Well Diameter
		Field Staff:
Initial Depth to Water:	Total Well Depth:	Water Column Height:
Volume/ft:	1 Casing Volume:	3 Casing Volumes:
Purging Device:	Did Well Dewater?:	Total Gallons Purged:
Start Purge Time:	Stop Purge Time:	Total Time:

1 Casing Volume = Water column height x Volume/ft

Well Diam	Volume/ft (gallons)
2"	0.16
4"	0.65
6"	1.47

Time	Volume Purged (gallons)	Temp. (°C)	pH	Cond. (uS)	Comments
<i>Don't Sample</i>					

Sample ID	Date	Time	Container Type	Preservative	Analytes	Analytic Method

WELL SAMPLING FORM

Project Name: Apex Compressor	CRA Mgr: John Riggi	Well ID: MW-B
Project Number: 058660	Date: 12-17-10	Well Yield: 5.75
Site Address: Apex	Sampling Method: Hand Bailing	Well Diameter: 2
		Field Staff: JP/JRL/GQ
Initial Depth to Water: 59.87	Total Well Depth: 71.25	Water Column Height: 11.38
Volume/ft: .16	1 Casing Volume: 1.82	3 Casing Volumes: 5.46
Purging Device: Bailor	Did Well Dewater?: NO	Total Gallons Purged: 5.75
Start Purge Time: 12:58	Stop Purge Time: 1:30	Total Time: 10 min

1 Casing Volume = Water column height x Volume/ ft.

Well Diam

2"
4"
6"

Volume/ft (gallons)

0.16
0.65
1.47

Time	Volume Purged (gallons)	Temp. (°C)	pH	Cond. (uS)	Comments
1304	.25	16.1	7.06	1212	
1305	.25	18.2	7.06	1271	
1306	.25	18.1	7.06	1277	
1307	.25	18.4	7.08	1268	

Sample ID	Date	Time	Container Type	Preservative	Analytes	Analytic Method
MW-B	12-17-10	1308	40ml	HCL		



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WELL SAMPLING FORM

Project Name: Apex Compressor	CRA Mgr: John Riggi	Well ID: MW-C
Project Number: 058660	Date: 12-17-10	Well Yield: 3.50
Site Address: APEX	Sampling Method: Hand Bailing	Well Diameter 2
		Field Staff: JP/JRL/GQ
Initial Depth to Water: 60.76	Total Well Depth: 68.00	Water Column Height: 7.24
Volume/ft: .16	1 Casing Volume: 1.15	3 Casing Volumes: 3.4
Purging Device: Bailor	Did Well Dewater?: NO	Total Gallons Purged: 3.50
Start Purge Time: 1205	Stop Purge Time: 1212	Total Time: 7 min

1 Casing Volume = Water column height x Volume/ ft.

Well Diam

2"

4"

6"

Volume/ft (gallons)

0.16

0.65

1.47

Time	Volume Purged (gallons)	Temp. (°C)	pH	Cond. (uS)	Comments
1210	.25	17.7	7.02	10.33	
1211	.25	18.0	6.99	10.43	
1212	.25	18.7	7.06	10.06	

Sample ID	Date	Time	Container Type	Preservative	Analytes	Analytic Method
MW-C	12-17-10	1212	40~1	PCC		

WELL SAMPLING FORM

Project Name: Apex Compressor	CRA Mgr: John Riggi	Well ID: MW-D
Project Number: 058660	Date: 12-17-10	Well Yield: 4.80
Site Address: Apex	Sampling Method: Hand Bailing	Well Diameter 2
		Field Staff: JF/HR/GQ
Initial Depth to Water: 61.62	Total Well Depth: 71.36	Water Column Height: 9.74
Volume/ft: .16	1 Casing Volume: 1.55	3 Casing Volumes: 4.67
Purging Device: Driller	Did Well Dewater?: NO	Total Gallons Purged: 4.80
Start Purge Time: 1324	Stop Purge Time: 1338	Total Time: 14min

1 Casing Volume = Water column height x Volume/ ft.

Well Diam	Volume/ft (gallons)
2"	0.16
4"	0.65
6"	1.47

Time	Volume Purged (gallons)	Temp. (°C)	pH	Cond. (uS)	Comments
1335	.25	16.7	7.16	1405	
1336	.25	18.1	7.11	1399	
1337	.25	18.3	7.06	1402	

Sample ID	Date	Time	Container Type	Preservative	Analytes	Analytic Method
MW-D	12-17-10	1339	40ml	HCL		



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WELL SAMPLING FORM

Project Name: Apex Compressor	CRA Mgr: John Riggi	Well ID: RW-1
Project Number: 058660	Date: 12-17-10	Well Yield: 4.20
Site Address: APEX	Sampling Method: Hand Bailing	Well Diameter 2
		Field Staff: JP/NRL/GQR
Initial Depth to Water: 59.94	Total Well Depth: 68.30	Water Column Height: 8.36
Volume/ft: .46	1 Casing Volume: 1.33	3 Casing Volumes: 4.01
Purging Device: Bailor	Did Well Dewater?: NO	Total Gallons Purged: 4.20
Start Purge Time: 1320	Stop Purge Time: 1344	Total Time: 14min

1 Casing Volume = Water column height x Volume/ ft.

Well Diam

2"

4"

6"

Volume/ft (gallons)

0.16

0.65

1.47

Time	Volume Purged (gallons)	Temp. (°C)	pH	Cond. (uS)	Comments
1341	.25	17.1	7.07	1795	
1342	.25	17.8	7.03	1789	
1343	.25	18.3	7.03	1778	

Sample ID	Date	Time	Container Type	Preservative	Analytes	Analytic Method
RW-1	12-17-10	1345	40ml	HCL		

WELL SAMPLING FORM

Project Name: Apex Compressor	CRA Mgr: John Riggi	Well ID: RW-2
Project Number: 058660	Date: 12-17-10	Well Yield: 8.75
Site Address: Apex	Sampling Method: Hand Bailing	Well Diameter 2
		Field Staff: SP/SRL/GD
Initial Depth to Water: 51.91	Total Well Depth: 69.66	Water Column Height: 17.75
Volume/ft: .16	1 Casing Volume: 2.84	3 Casing Volumes: 8.52
Purging Device: Bailor	Did Well Dewater?: NO	Total Gallons Purged: 8.75
Start Purge Time: 1353	Stop Purge Time: 1413	Total Time: 15 min

1 Casing Volume = Water column height x Volume/ ft.

Well Diam	Volume/ft (gallons)
2"	0.16
4"	0.65
6"	1.47

Time	Volume Purged (gallons)	Temp. (°C)	pH	Cond. (uS)	Comments
1411	.25	16.8	7.05	1660 1660	
1412	.25	18.3	7.01	1670	
1413	.25	18.3	7.03	1667	

Sample ID	Date	Time	Container Type	Preservative	Analytes	Analytic Method
RW-2	12-17-10	1414	40ml	HCL		



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WELL SAMPLING FORM

Project Name: Apex Compressor	CRA Mgr: John Riggi	Well ID: RW-3
Project Number: 058660	Date:	Well Yield:
Site Address:	Sampling Method: Hand Bailing	Well Diameter
		Field Staff:
Initial Depth to Water:	Total Well Depth:	Water Column Height:
Volume/ft:	1 Casing Volume:	3 Casing Volumes:
Purging Device:	Did Well Dewater?:	Total Gallons Purged:
Start Purge Time:	Stop Purge Time:	Total Time:

1 Casing Volume = Water column height x Volume/ ft.

Well Diam	Volume/ft (gallons)
2"	0.16
4"	0.65
6"	1.47

Time	Volume Purged (gallons)	Temp. (°C)	pH	Cond. (uS)	Comments

Sample ID	Date	Time	Container Type	Preservative	Analytes	Analytic Method



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WELL SAMPLING FORM

Project Name: Apex Compressor	CRA Mgr: John Riggi	Well ID: RW-4
Project Number: 058660	Date:	Well Yield:
Site Address:	Sampling Method: Hand Bailing	Well Diameter
		Field Staff:
Initial Depth to Water:	Total Well Depth:	Water Column Height:
Volume/ft:	1 Casing Volume:	3 Casing Volumes:
Purging Device:	Did Well Dewater?:	Total Gallons Purged:
Start Purge Time:	Stop Purge Time:	Total Time:

1 Casing Volume = Water column height x Volume/ ft.

Well Diam.	Volume/ft (gallons)
2"	0.16
4"	0.65
6"	1.47

Time	Volume Purged (gallons)	Temp. (°C)	pH	Cond. (uS)	Comments

Did not sample
PRODUCT

Sample ID	Date	Time	Container Type	Preservative	Analytes	Analytic Method



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WELL SAMPLING FORM

Project Name: Apex Compressor	CRA Mgr: John Riggi	Well ID: RW-5
Project Number: 058660	Date: 12-17-10	Well Yield: 4.50
Site Address: Apex	Sampling Method: Hand Bailing	Well Diameter 2
		Field Staff: SP/JRL/GQ
Initial Depth to Water: 60.33	Total Well Depth: 69.45	Water Column Height: 9.12
Volume/ft: .16	1 Casing Volume: 1.45	3 Casing Volumes: 4.37
Purging Device: Bailor	Did Well Dewater?: NO	Total Gallons Purged: 4.50
Start Purge Time: 1418	Stop Purge Time: 1431	Total Time: 13 min

1 Casing Volume = Water column height x Volume/ft

Well Diam.

2"

4"

6"

Volume/ft (gallons)

0.16

0.65

1.47

Time	Volume Purged (gallons)	Temp. (°C)	pH	Cond. (uS)	Comments
1429	.25	17.3	6.91	3304	
1430	.25	18.5	6.98	3323	
1431	.25	18.6	6.90	3361	

Sample ID	Date	Time	Container Type	Preservative	Analytes	Analytic Method
RW-5	12-17-10	1433	40ml	HCL		



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DUP-2 WELL SAMPLING FORM DUP-2

Project Name: Apex Compressor	CRA Mgr: John Riggi	Well ID: RW-6
Project Number: 058660	Date: 12-17-10	Well Yield: 5.20
Site Address:	Sampling Method: Hand Bailing	Well Diameter 2
		Field Staff: JP/JR/LGQ
Initial Depth to Water: 60.33	Total Well Depth: 71.00	Water Column Height: 10.67
Volume/ft: .16	1 Casing Volume: 1.70	3 Casing Volumes: 5.12
Purging Device: Bailer	Did Well Dewater?: NO	Total Gallons Purged: 5.20
Start Purge Time: 1348	Stop Purge Time: 1406	Total Time: 18 min

1 Casing Volume = Water column height x Volume/ft

Well Diam.	Volume/ft (gallons)
2"	0.16
4"	0.65
6"	1.47

Time	Volume Purged (gallons)	Temp. (°C)	pH	Cond. (uS)	Comments
1404	.25	17.2	6.93	2500	
1405	.25	18.6	6.92	2437	
1406	.25	18.4	6.91	2500	

DUP-2

Sample ID	Date	Time	Container Type	Preservative	Analytes	Analytic Method
RW-6	12-17-10	1410	40ml	HCL		DUP-2

WELL SAMPLING FORM

Project Name: Apex Compressor	CRA Mgr: John Riggi	Well ID: RW-7
Project Number: 058660	Date: 12-17-10	Well Yield: 4.70
Site Address: Apex	Sampling Method: Hand Bailing	Well Diameter 2
		Field Staff: JP/STL/GQ
Initial Depth to Water: 60.55	Total Well Depth: 70.05	Water Column Height: 9.5
Volume/ft: .16	1 Casing Volume: 1.52	3 Casing Volumes: 4.56
Purging Device: Bailer	Did Well Dewater?: NO	Total Gallons Purged: 4.70
Start Purge Time: 1420	Stop Purge Time: 1433	Total Time: 13min

1 Casing Volume = Water column height x Volume/ ft.

Well Diam	Volume/ft (gallons)
2"	0.16
4"	0.65
6"	1.47

Time	Volume Purged (gallons)	Temp. (°C)	pH	Cond. (uS)	Comments
1431	.25	18.5	6.91	2475	
1432	.25	18.5	7.10	2464	
1433	.25	18.5	7.02	2400	

Sample ID	Date	Time	Container Type	Preservative	Analytes	Analytic Method
RW-7	12-17-10	1435	40ml	HCL		



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WELL SAMPLING FORM

Project Name: Apex Compressor	CRA Mgr: John Riggi	Well ID: RW-8
Project Number: 058660	Date: 12-17-10	Well Yield: 3.50
Site Address: Apex	Sampling Method: Hand Bailing	Well Diameter 2
		Field Staff: JD/JRL/GQ
Initial Depth to Water: 61.76	Total Well Depth: 69.05	Water Column Height: 7.29
Volume/ft: .16	1 Casing Volume: 1.16	3 Casing Volumes: 3.49
Purging Device: Bailer	Did Well Dewater?: NO	Total Gallons Purged: 350
Start Purge Time: 1312	Stop Purge Time: 1324	Total Time: 12 min

1 Casing Volume = Water column height x Volume/ ft.

Well Diam

2"

4"

6"

Volume/ft (gallons)

0.16

0.65

1.47

Time	Volume Purged (gallons)	Temp. (°C)	pH	Cond. (uS)	Comments
1320	.25	17.0	7.03	1544	
1321	.25	18.5	7.06	1555	
1322	.25	18.3	7.06	1553	

Sample ID	Date	Time	Container Type	Preservative	Analytes	Analytic Method
RW-8	12-17-10	1325	40 ml	HCL		



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WELL SAMPLING FORM

Project Name: Apex Compressor	CRA Mgr: John Riggi	Well ID: RW-9
Project Number: 058660	Date:	Well Yield:
Site Address:	Sampling Method: Hand Bailing	Well Diameter
		Field Staff:
Initial Depth to Water: 6.5	Total Well Depth:	Water Column Height:
Volume/ft:	1 Casing Volume:	3 Casing Volumes:
Purging Device:	Did Well Dewater?:	Total Gallons Purged:
Start Purge Time:	Stop Purge Time:	Total Time:

1 Casing Volume = Water column height x Volume/ ft.

Well Diam.	Volume/ft (gallons)
2"	0.16
4"	0.65
6"	1.47

Time	Volume Purged (gallons)	Temp. (°C)	pH	Cond. (uS)	Comments
DIDN'T SAMPLE					

Sample ID	Date	Time	Container Type	Preservative	Analytes	Analytic Method



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WELL SAMPLING FORM

Project Name: Apex Compressor	CRA Mgr: John Riggi	Well ID: RW-10
Project Number: 058660	Date:	Well Yield:
Site Address:	Sampling Method: Hand Bailing	Well Diameter
		Field Staff:
Initial Depth to Water:	Total Well Depth:	Water Column Height:
Volume/ft:	1 Casing Volume:	3 Casing Volumes:
Purging Device:	Did Well Dewater?:	Total Gallons Purged:
Start Purge Time:	Stop Purge Time:	Total Time:

1 Casing Volume = Water column height x Volume/ ft.

Well Diam.	Volume/ft (gallons)
2"	0.16
4"	0.65
6"	1.47

Time	Volume Purged (gallons)	Temp. (°C)	pH	Cond. (uS)	Comments

Sample ID	Date	Time	Container Type	Preservative	Analytes	Analytic Method



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WELL SAMPLING FORM

Project Name: Apex Compressor	CRA Mgr: John Riggi	Well ID: RW-11
Project Number: 058660	Date:	Well Yield:
Site Address:	Sampling Method: Hand Bailing	Well Diameter
		Field Staff:
Initial Depth to Water:	Total Well Depth:	Water Column Height:
Volume/ft:	1 Casing Volume:	3 Casing Volumes:
Purging Device:	Did Well Dewater?:	Total Gallons Purged:
Start Purge Time:	Stop Purge Time:	Total Time:

1 Casing Volume = Water column height x Volume/ ft.

Well Diam.

2"

4"

6"

Volume/ft (gallons)

0.16

0.65

1.47

Time	Volume Purged (gallons)	Temp. (°C)	pH	Cond. (uS)	Comments
DID NOT SAMPLE					

Sample ID	Date	Time	Container Type	Preservative	Analytes	Analytic Method



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WELL SAMPLING FORM

Project Name: Apex Compressor	CRA Mgr: John Riggi	Well ID: RW-12
Project Number: 058660	Date:	Well Yield:
Site Address:	Sampling Method: Hand Bailing	Well Diameter
		Field Staff:
Initial Depth to Water:	Total Well Depth:	Water Column Height:
Volume/ft:	1 Casing Volume:	3 Casing Volumes:
Purging Device:	Did Well Dewater?:	Total Gallons Purged:
Start Purge Time:	Stop Purge Time:	Total Time:

1 Casing Volume = Water column height x Volume/ ft.

Well Diam.	Volume/ft (gallons)
2"	0.16
4"	0.65
6"	1.47

Time	Volume Purged (gallons)	Temp. (°C)	pH	Cond. (uS)	Comments

Sample ID	Date	Time	Container Type	Preservative	Analytes	Analytic Method

APPENDIX B

STANDARD OPERATING PROCEDURES FOR GROUNDWATER MONITORING AND SAMPLING



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STANDARD FIELD PROCEDURES FOR GROUNDWATER MONITORING AND SAMPLING

This document presents standard field methods for groundwater monitoring, purging and sampling, and well development. These procedures are designed to comply with Federal, State and local regulatory guidelines. Conestoga-Rovers & Associates' specific field procedures are summarized below.

Groundwater Monitoring

Prior to performing monitoring activities, the historical monitoring and analytical data of each monitoring well shall be reviewed to determine if any of the wells are likely to contain separate phase hydrocarbons (SPH) and to determine the order in which the wells will be monitored (i.e. cleanest to dirtiest). Groundwater monitoring should not be performed when the potential exists for surface water to enter the well (i.e. flooding during a rainstorm).

Prior to monitoring, each well shall be opened and the well cap removed to allow water levels to stabilize and equilibrate. The condition of the well box and well cap shall be observed and recommended repairs noted. Any surface water that may have entered and flooded the well box should be evacuated prior to removing the well cap. In wells with no history of SPH, the static water level and total well depth shall be measured to the nearest 0.01 foot with an electronic water level meter. Wells with the highest contaminant concentrations shall be monitored last. In wells with a history of SPH, the SPH level/thickness and static water level shall be measured to the nearest 0.01 foot using an electronic interface probe. The water level meter and/or interface probe shall be thoroughly cleaned and decontaminated at the beginning of the monitoring event and between each well. Monitoring equipment shall be washed using soapy water consisting of Liqui-noxTM or AlconoxTM followed by one rinse of clean tap water and then two rinses of distilled water.

Groundwater Purging and Sampling

Prior to groundwater purging and sampling, the historical analytical data of each monitoring well shall be reviewed to determine the order in which the wells should be purged and sampled (i.e. cleanest to dirtiest). No purging or groundwater sampling shall be performed on wells with a measurable thickness of SPH or floating SPH globules. If a sheen is observed, the well should be purged and a groundwater sample collected only if no SPH is present. Wells shall be purged either by hand using a disposal or PVC bailer or by using an aboveground pump (e.g. peristaltic or WatteraTM) or down-hole pump (e.g. GrundfosTM or DC Purger pump).

Groundwater wells shall be purged approximately three to ten well-casing volumes (depending on the regulatory agency requirements) or until groundwater parameters of temperature, pH, and conductivity have stabilized to within 10% for three consecutive readings. Temperature, pH, and conductivity shall be measured and recorded at the start of purging, once per well casing volume removed, and at the completion of purging. The total volume of groundwater removed shall be recorded along with any other notable physical characteristic such as color and odor. If required, field parameters such as turbidity, dissolved oxygen (DO), and oxidation-reduction potential (ORP) shall be measured prior to collection of each groundwater sample.

Groundwater samples shall be collected after the well has been purged and allowed to recharge to 80% of the pre-purging static water level, or if the well is slow to recharge, after waiting a minimum of 2 hours. Groundwater samples shall be collected using clean disposable bailers or



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pumps (if an operating remediation system exists on site and the project manager approves of its use for sampling) and shall be decanted into clean containers supplied by the analytical laboratory. New latex gloves and disposable tubing or bailers shall be used for sampling each well. If a PVC bailer or down-hole pump is used for groundwater purging, it shall be decontaminated before purging each well by using soapy water consisting of Liqui-nox™ or Alconox™ followed by one rinse of clean tap water and then two rinses of distilled water. If a submersible pump with non-dedicated discharge tubing is used for groundwater purging, both the inside and outside of pump and discharge tubing shall be decontaminated as described above.

Sample Handling

Except for samples that will be tested in the field, or that require special handling or preservation, samples shall be stored in coolers chilled to 4° C for shipment to the analytical laboratory. Samples shall be labeled, placed in protective foam sleeves or bubble wrap as needed, stored on crushed ice at or below 4° C, and submitted under chain-of-custody (COC) to the laboratory. The laboratory shall be notified of the sample shipment schedule and arrival time. Samples shall be shipped to the laboratory within a time frame to allow for extraction and analysis to be performed within the standard sample holding times.

Sample labels shall be filled out using indelible ink and must contain the site name; field identification number; the date, time, and location of sample collection; notation of the type of sample; identification of preservatives used; remarks; and the signature of the sampler. Field identification must be sufficient to allow easy cross-reference with the field datasheet.

All samples submitted to the laboratory shall be accompanied by a COC record to ensure adequate documentation. One copy of the COC shall be kept in the QA/QC file and another copy shall be retained in the project file. Information on the COC shall consist of the project name and number; project location; sample numbers; sampler/recorder's signature; date and time of collection of each sample; sample type; analyses requested; name of person receiving the sample; and date of receipt of sample.

Laboratory-supplied trip blanks shall accompany the samples and be analyzed to check for cross-contamination, if requested by the project manager.

Well Development

Wells shall be developed using a combination of groundwater surging and extraction. A surge block shall be used to swab the well and agitate the groundwater in order to dislodge any fine sediment from the sand pack. After approximately ten minutes of swabbing the well, groundwater shall be extracted from the well using a bailer, pump and/or reverse air-lifting through a pipe to remove the sediments from the well. Alternating surging and extraction shall continue until the sediment volume in the groundwater (i.e. turbidity) is negligible, which typically requires extraction of approximately ten well-casing volumes of groundwater. Preliminary well development usually is performed during well installation prior to placing the sanitary surface seal to ensure sand pack stabilization. Well development that is performed after surface seal installation, should occur 72 hours after seal installation to ensure that the cement has had adequate time to set.



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Waste Handling and Disposal

Groundwater extracted during development and sampling shall be stored onsite in sealed U.S. DOT H17 55-gallon drums. Each drum shall be labeled with the contents, date of generation, generator identification and consultant contact. If hydrocarbon concentrations in the purged groundwater are below ADEC cleanup levels or the site is in a remote area (pending ADEC approval) groundwater will be discharged to the ground surface, at least 100 feet from the nearest surface water body.

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APPENDIX C

LABORATORY ANALYTICAL REPORT