3R-173

SEPTEMBER AND DECEMBER 2011 QUARTERLY GROUNDWATER MONITORING REPORT

CONOCOPHILLIPS FLORA VISTA No. 1
SAN JUAN COUNTY, NEW MEXICO

API# 30-045-20073
NMOCD# 3R173

Prepared For:

CONOCOPHILLIPS COMPANY

Risk Management and Remediation

420 South Keeler Avenue

Bartlesville, OK, 74004

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1.0 INTRODUCTION

This report presents the results of the quarterly groundwater monitoring events conducted by Conestoga-Rovers & Associates (CRA) on September 29, 2011 and December 14, 2011 at the Flora Vista No. 1 natural gas well site (Site), operated by Burlington Resources Oil & Gas Company LP (Burlington), a wholly-owned subsidiary of ConocoPhillips Company (ConocoPhillips) (**Figure 1**). The Site is located on private property in Unit Letter F, Section 22, Township 30N, Range 12W, of San Juan County, New Mexico. The Site consists of a gas well and associated equipment and installations. A detailed Site layout map is provided as **Figure 2**.

1.1 BACKGROUND

A previous operator removed an earthen dehydrator pit from service in March 1994. Hydrocarbon impacted soil was subsequently excavated in April 1994 and again in November 1995. A pit closure report was submitted to New Mexico Oil Conservation Division (NMOCD) in August 1996 by El Paso Field Services. NMOCD issued a letter to El Paso Field Services on January 24, 1997 approving pit closure and remediation.

Burlington encountered hydrocarbon-impacted soil at the Site during a production facility resetting activity in early 2003. Burlington subsequently directed the excavation of approximately 9,443 cubic yards of soil in an attempt to remove it. Groundwater was observed in the bottom of the excavation at approximately 25 feet below the ground surface. Field screening was conducted during excavation to determine extent of impacted soil. To enhance the remediation of the remaining amounts of residual hydrocarbon contamination in the excavated area, approximately 80 barrels (bbls) of a potassium permanganate oxidizer solution was sprayed on the soil.

In September 2003, Envirotech installed a groundwater monitor well (MW-1) slightly downgradient from the center of the excavation (**Figure 2**). Subsequent monitoring during September 2003 included analyses for benzene, toluene, ethylbenzene, and total xylenes (BTEX), as well as total petroleum hydrocarbons (TPH). Groundwater analyses indicated the presence of benzene and total xylenes above regulatory standards. Monitor Wells MW-2, MW-3, and MW-4 were installed at the Site in August 2008 in response to an April 2008 request from NMOCD for Site characterization and enhanced laboratory analyses.

A generalized geologic cross section was prepared using boring logs from the August 2008 monitor well installation and is presented as **Figure 3**. On June 15, 2011, Site consulting responsibilities were transferred from Tetra Tech to CRA of Albuquerque, NM. The Flora Vista No. 1 Site history is summarized in **Table 1**.

2.0 GROUNDWATER MONITORING SUMMARY, METHODOLOGY, AND ANALYTICAL RESULTS

2.1 GROUNDWATER MONITORING SUMMARY

On September 29, 2011 and December 14, 2011, groundwater elevation measurements were recorded in Monitor Wells MW-1, MW-2, MW-3, and MW-4 using an oil/water interface probe. Groundwater elevations are detailed in **Table 2**. Groundwater potentiometric surface maps created from September and December 2011 data are presented as **Figures 4** and **6,** respectively. Based on the September and December 2011 monitoring events data, groundwater flow is to the southwest and is consistent with historic monitoring event records for this Site.

2.2 GROUNDWATER MONITORING METHODOLOGY

Approximately three well volumes were purged from Monitor Wells MW-1, MW-2, MW-3, and MW-4 with a dedicated polyethylene 1.5-inch disposable bailer prior to sampling. Purge water generated during purging of Site monitor wells was placed in the on-Site produced water tank (**Figure 2**). Groundwater samples were placed in laboratory prepared bottles, packed on ice, and shipped under chain-of-custody documentation to Pace Analytical Services, Inc. of Lenexa, Kansas. Samples were analyzed for the presence of BTEX by Environmental Protection Agency (EPA) Method 8260, dissolved iron and manganese by EPA Method 6010, and sulfate by EPA method 300.0. CRA groundwater sampling field forms are included as **Appendix A**.

2.3 GROUNDWATER MONITORING ANALYTICAL RESULTS

Groundwater samples collected from Monitor Wells MW-2 and MW-3 did not exceed New Mexico Water Quality Control Commission (NMWQCC) groundwater quality standards for any target constituents. Groundwater collected from Monitor Wells MW-1 and MW-4 exceeded the NMWQCC standards for the following constituents:

September 2011

- **Benzene** – The NMWQCC standard for benzene is 0.010 milligrams per liter (mg/L). The concentration of benzene found in the groundwater sample collected from MW-1 was 2.440 mg/L. The groundwater sample collected from MW-4, the downgradient well, contained a concentration of benzene at 0.0392 µg/L.
- **Xylenes** – The NMWQCC standard for total xylenes is 0.620 mg/L. The concentration of xylenes found in the groundwater sample collected from MW-1 was 3.650 mg/L.
- **Dissolved Iron** – The NMWQCC standard for dissolved iron is 1 milligram per liter (mg/L). The concentrations of dissolved iron found in the groundwater samples collected from MW-1 and MW-4 were 25.2 mg/L and 2.55 mg/L, respectively.
- **Dissolved Manganese** – The NMWQCC standard for dissolved manganese is 0.2 mg/L. The concentration of dissolved manganese found in the groundwater sample collected from MW-1 was 1.02 mg/L. The groundwater sample collected from MW-4 contained a concentration of 4.1 mg/L.

December 2011

- **Benzene** – The NMWQCC standard for benzene is 0.010 milligrams per liter (mg/L). The concentration of benzene found in the groundwater sample collected from MW-1 was 2.310 mg/L. The groundwater sample collected from MW-4, the downgradient well, contained a concentration of benzene at 0.101 mg/L.
- **Xylenes** – The NMWQCC standard for total xylenes is 0.620 mg/L. The concentration of xylenes found in the groundwater sample collected from MW-1 was 3.930 mg/L.
- **Dissolved Iron** – The NMWQCC standard for dissolved iron is 1 milligram per liter (mg/L). The concentrations of dissolved iron found in the groundwater samples collected from MW-1 and MW-4 were 25.4 mg/L and 2.62 mg/L, respectively.
- **Dissolved Manganese** – The NMWQCC standard for dissolved manganese is 0.2 mg/L. The concentration of dissolved manganese found in the groundwater sample collected from MW-1 was 0.945 mg/L. The groundwater sample collected from MW-4 contained a concentration of 4.58 mg/L.

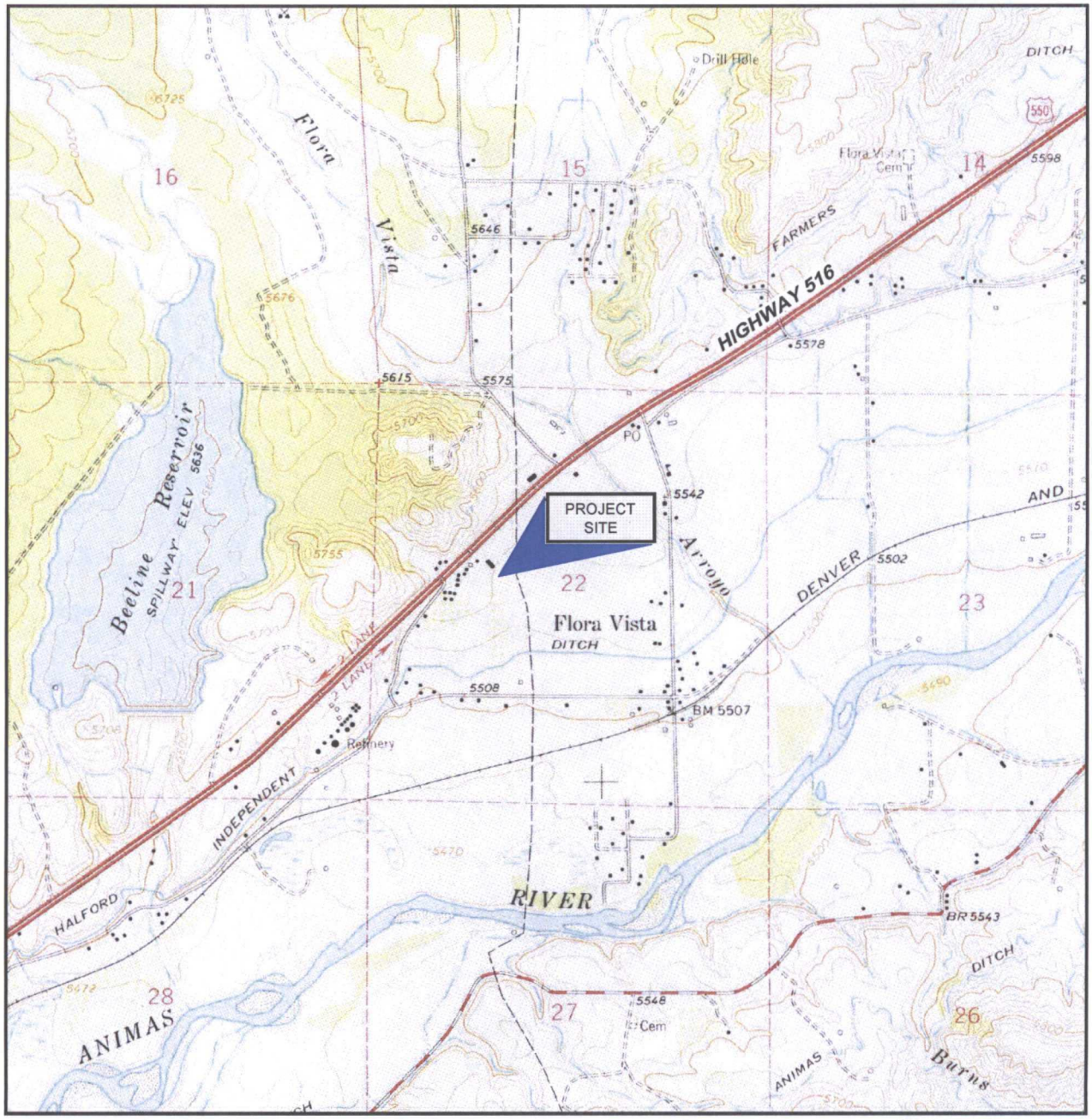
A summary of the historical groundwater laboratory analytical results is presented in **Table 3**. The September and December 2011 laboratory analytical reports are included in **Appendix B**.

3.0 CONCLUSIONS AND RECOMMENDATIONS

Groundwater samples collected from MW-1 and MW-4 and have consistently exceeded NMWQCC groundwater quality standards for benzene and dissolved manganese from October 2008 through December 2011 and have intermittently exceeded the NMWQCC groundwater quality standard for dissolved iron. Groundwater samples from MW-1 have also historically exceeded NMWQCC groundwater quality standard for xylenes. BTEX constituent concentrations exhibit a decreasing trend over time in MW-1 and MW-4. Based on the historical groundwater quality data, groundwater samples collected from MW-2 and MW-3 have never exceeded NMWQCC groundwater quality standards for BTEX constituents.

CRA recommends the continuation of quarterly sampling of MW-1, MW-2, MW-3, and MW-4 in order to monitor ongoing natural attenuation at the Site. Since sulfate has never been detected in Site monitor wells above the NMWQCC standard, CRA recommends discontinuing sampling for this groundwater quality parameter during quarterly monitoring. The next sampling event will take place in March 2011. CRA will collect samples for BTEX, dissolved iron, and dissolved manganese.

FIGURES



SOURCE: USGS 7.5 MINUTE QUADS
"FLORA VISTA, NEW MEXICO"

N

0 1000 2000ft

Figure 1

SITE VICINITY MAP
FLORA VISTA NO. 1 NATURAL GAS WELL SITE
SECTION 22, T30N-R12W, SAN JUAN COUNTY, NEW MEXICO
ConocoPhillips Company

CRA

074926-95(003)GN-DL005 DEC 6/2011

ConocoPhillips high resolution aerial imagery 2008.

Figure 2

SITE PLAN
FLORA VISTA NO. 1 NATURAL GAS WELL SITE
SECTION 22, T30N-R12W, SAN JUAN COUNTY, NEW MEXICO
ConocoPhillips Company

074926-95(003)GN-DL001 DEC 6/2011

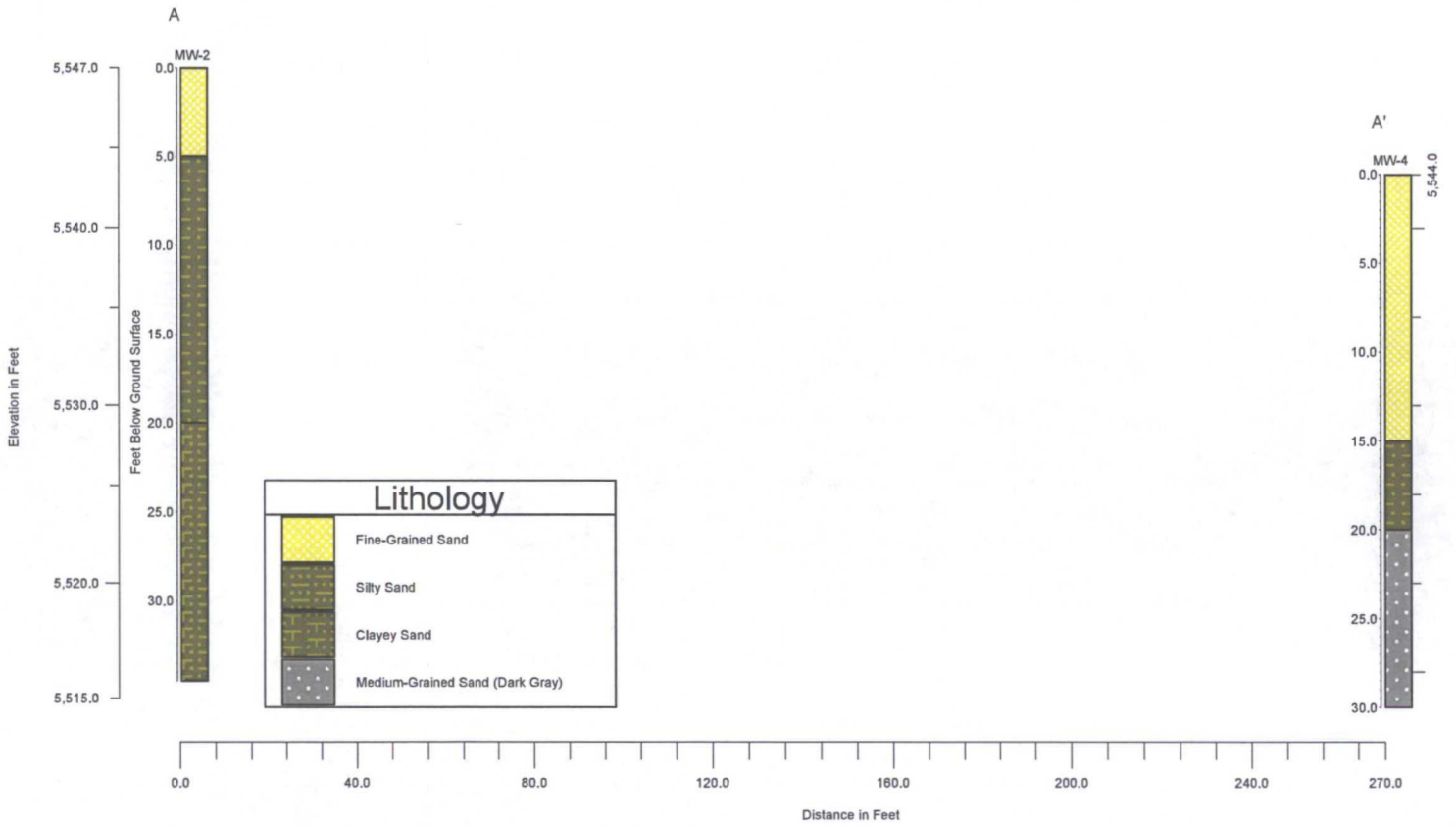


Figure 3

GEOLOGICAL CROSS SECTION
FLORA VISTA NO. 1 NATURAL GAS WELL SITE
SECTION 22, T30N-R12W, SAN JUAN COUNTY, NEW MEXICO
ConocoPhillips Company

074926-95(003)GN-DL002 JAN 31/2012

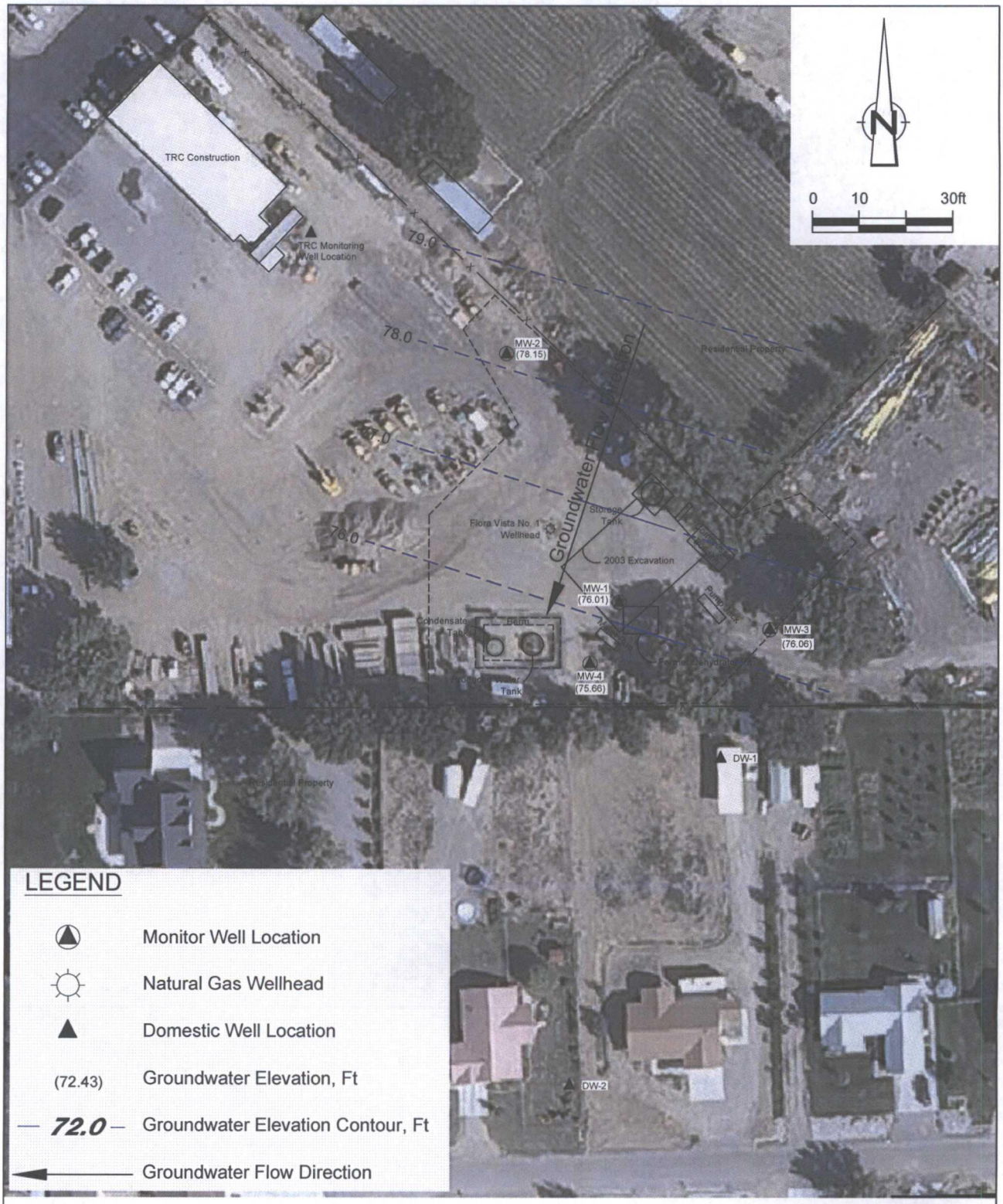


Figure 4

SEPTEMBER 2011 GROUNDWATER POTENTIOMETRIC SURFACE MAP
FLORA VISTA NO. 1 NATURAL GAS WELL SITE
SECTION 22, T30N-R12W, SAN JUAN COUNTY, NEW MEXICO
ConocoPhillips Company

074926-95(003)GN-DL003 DEC 6/2011

Figure 5

SEPTEMBER 2011 BENZENE CONCENTRATION MAP
FLORA VISTA NO. 1 NATURAL GAS WELL SITE
SECTION 22, T30N-R12W, SAN JUAN COUNTY, NEW MEXICO
ConocoPhillips Company

074926-95(003)GN-DL004 MAR 19/2012

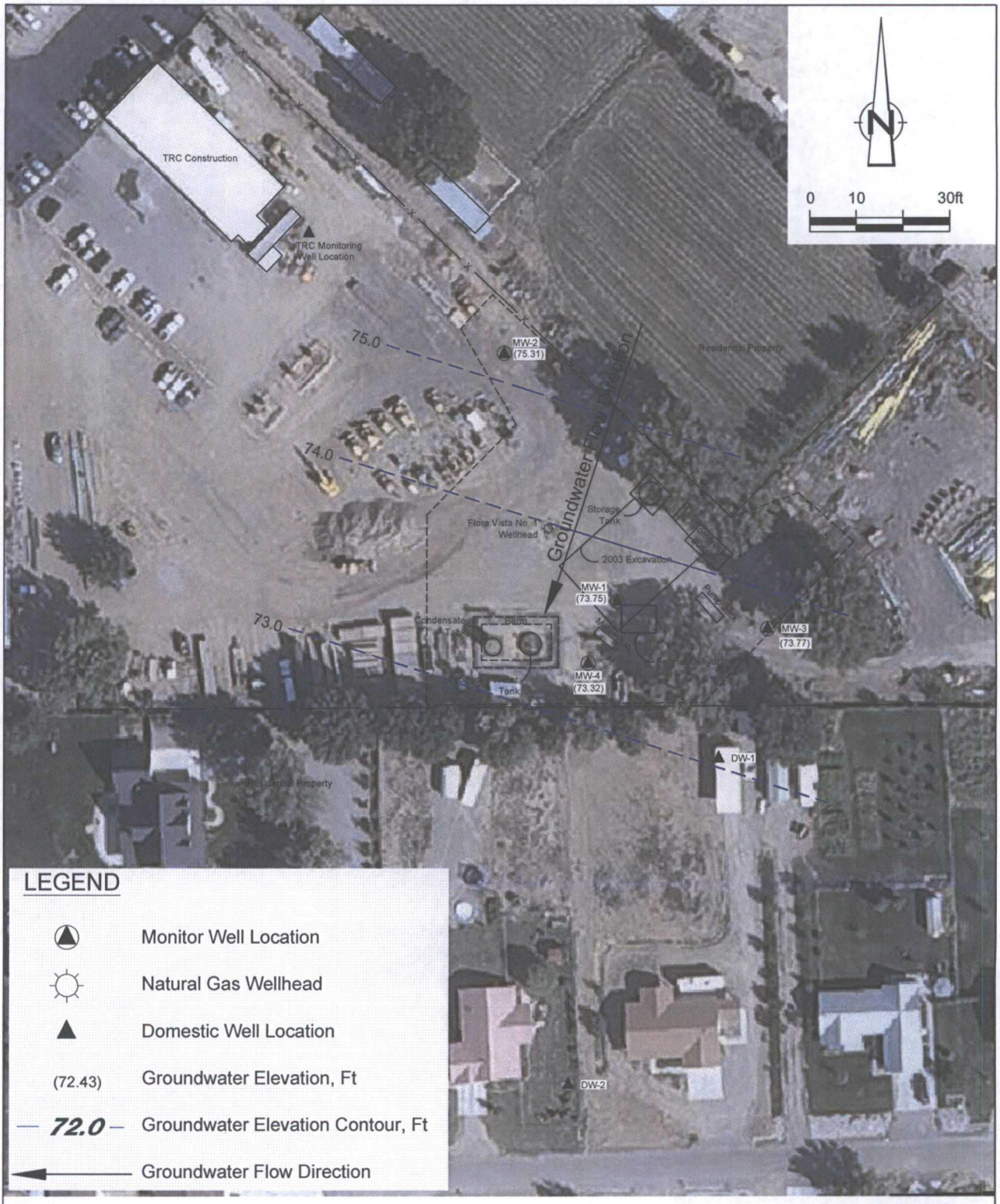


Figure 6

DECEMBER 2011 GROUNDWATER POTENTIOMETRIC SURFACE MAP
FLORA VISTA NO. 1 NATURAL GAS WELL SITE
SECTION 22, T30N-R12W, SAN JUAN COUNTY, NEW MEXICO
ConocoPhillips Company

074926-95(003)GN-DL003 JAN 13/2012

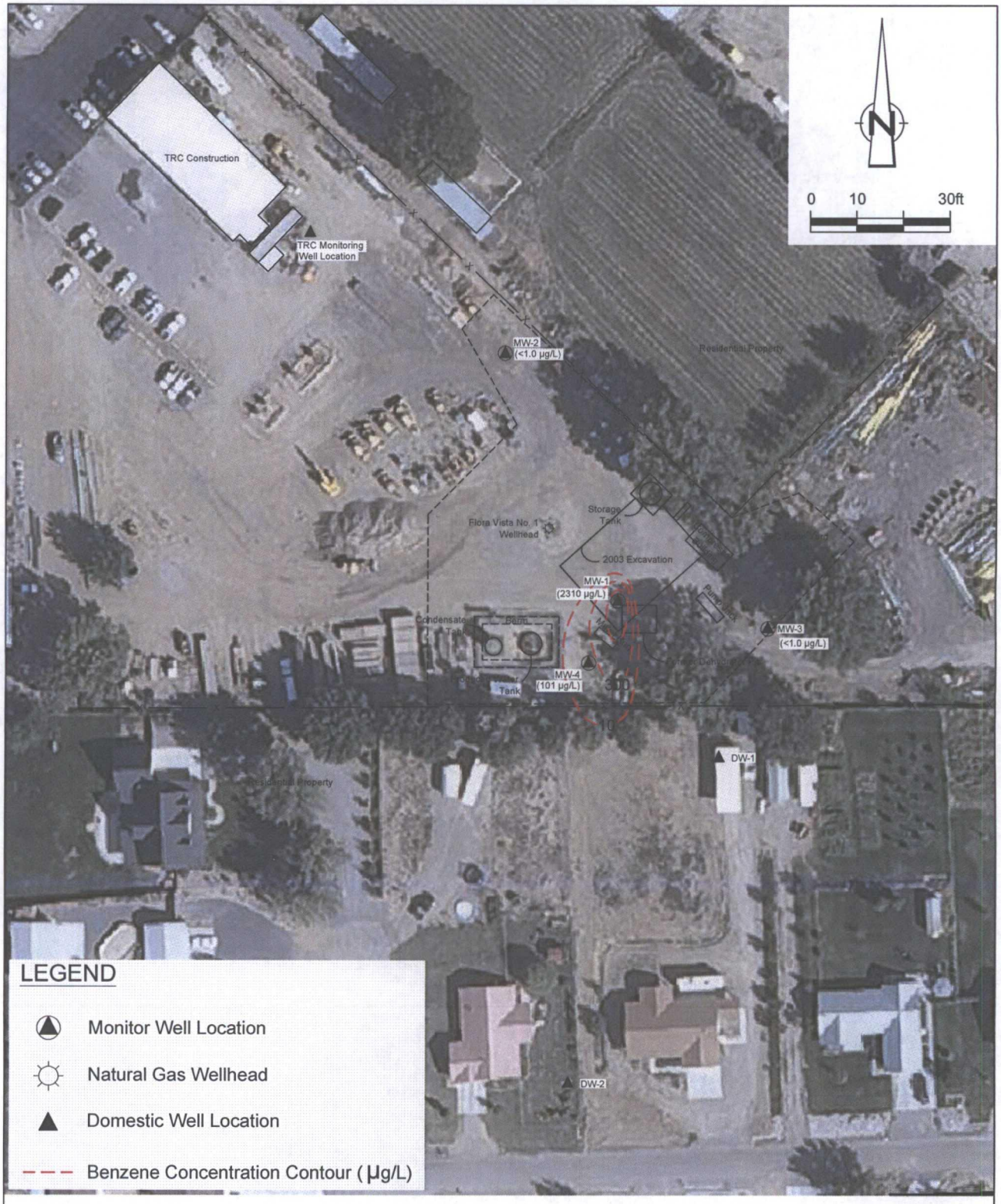


Figure 7

DECEMBER 2011 BENZENE CONCENTRATION MAP
FLORA VISTA NO. 1 NATURAL GAS WELL SITE
SECTION 22, T30N-R12W, SAN JUAN COUNTY, NEW MEXICO
ConocoPhillips Company

074926-95(003)GN-DL004 MAR 19/2012

TABLES

TABLE 1

SITE HISTORY TIMELINE
NOVEMBER 1995 - DECEMBER 2011
CONOCOPHILLIPS COMPANY
FLORA VISTA NO. 1
SAN JUAN COUNTY, NM

Date/Time Period	*Event/Action*	*Description/Comments*
November 28, 1995	Pit Closure Activities	Philip Environmental excavated and removed approximatley 850 cubic yards of soil from the area where the Flora Vista No. 1 dehydrator pit was located. Excavation activities were stopped in the north and west directions due to the positions of the compressor and meter run equipment.
July and August 1996	Submital of Pit Closure	El Paso Field Services submits Pit Closure Reports to the New Mexico Oil Conservation Division outlining the excavation and closure of the dehydrator pit at the site.
January 24, 1997	Pit Closure Approval	El Paso Field Services receives approval of pit closure from the New Mexico Oil Conservation Division.
June and July 2003	Initial Site Assessment	Historical petroleum contaminated soil discovered during a production facility resetting activity. Environmental investigation began with the excavation of approximately 4,986 cubic yards of impacted soil and 4,446 cubic yards of clean soil. Groundwater was encountered at approximately 25 feet below the ground surface. The impacted soil was taken to a commercial landfill facility located on Crouch Mesa in Farmington, New Mexico. Approximately 80 bbls of potassium permanganate was sprayed on the soils to breakdown any minor amounts of residual petroleum contaminants. The excavation area was backfilled with clean soil.
September 2, 2003	Groundwater Monitor Well Installation	One ground water Monitor Well, MW-1, was installed slightly down-gradient from the center of the soil excavation by Envirotech. Total depth of well is 26 feet.
September of 2003 through December 13, 2006	Quarterly Groundwater Monitoring	Quarterly groundwater monitoring of MW-1 for analysis of BTEX constituents. MW-1 remained above standards for benzene, ethylbenzene, and total xylenes.
March 31, 2006	Site Transfer	ConocoPhillips Company completes acquisition of Burlington Resources.
March 2007 through January 2008	Consultant Change and Groundwater Monitoring	After the acquisition of Burlington Resources by ConocoPhillips, consulting responsibilities were transferred from Lode Star LLC of Farmington, NM to Tetra Tech of Albuquerque, NM. Tetra Tech began sampling the Flora Vista site quarterly in March of 2007. Four consecutive quarters of goundwater sampling were conducted at the Flora Vista site. Groundwater was sampled from MW-1 and was analyzed for BTEX constituents during all sampling events. MW-1 remained above standards for benzene, ethylbenzene, and total xylenes.
March 28, 2008	Reporting	Annual report for 2007 is submitted to the Oil Conservation Division of NM Energy, Minerals, and Resources Department (OCD).
April 1, 2008	Additional Monitoring Requested by OCD	Oil Conservation Division of NM Energy, Minerals, and Resources Dept. indicates additional investigation and sampling is necessary for closure consideration during a meeting with Glenn Von Gonten.
July 23, 2008	Groundwater Monitoring	Groundwater monitoring of MW-1. One sample and a duplicate were collected. Benzene and Xylenes are above NMWQCC standards.

Date/Time Period	*Event/Action*	*Description/Comments*
August 12 and 13, 2008	Groundwater Monitor Well Installation and Groundwater Monitoring	Three additional groundwater Monitor Wells, MW-2, MW-3 and MW-4 were installed by WDC and overseen by Tetra Tech. MW-2 was installed upgradient of MW-1. Both MW-3 and MW-4 were installed downgradient of MW-1. Soil samples were collected from just above the groundwater interface for each boring location and sent to Southern Petroleum Laboratory for a baseline soil analysis. All wells were developed by purging approximately 80 gallons of fluid using a surge block and hand bailer/purge pump.
October 21, 2008	Groundwater Monitoring	Third quarter 2008 groundwater monitoring was completed and was the first quarter of sampling to include all four monitor wells on site. A baseline suite was completed including major ions, total metals, semi-volatile organic compounds (SVOCs), volatile organic compounds (VOCs) including BTEX, diesel range organics, and gasoline range organics. There were 3 constituents that returned results above NMWQCC limits, Benzene (MW-1 and MW-4), Total Xylenes (MW-1), and Sulfate (MW-1).
January 28, 2009	Groundwater Monitoring	Tetra Tech conducted fourth quarter 2008 groundwater monitoring at the site for BTEX constituents in all four monitor wells. Benzene (MW-1 and MW-4), Ethylbenzene (MW-1) and Xylenes (MW-1) were above NMWQCC standards.
March 1, 2009	Initiate Annual Sampling	The Flora Vista No. 1 site is put on an annual monitoring schedule. The next sampling event was scheduled for September 2009.
September 30, 2009	Groundwater Monitoring	Tetra Tech conducted 2009 annual groundwater monitoring at the site for BTEX constituents, dissolved iron and manganese, and sulfate. Benzene (MW-1 and MW-4), xylenes (MW-1) and manganese (MW-1 and MW-4) were above NMWQCC standards.
December 16, 2009	Private Irrigation Well Sampling	Tetra Tech collected a groundwater sample from a domestic well located to the south of the site to be analyzed for BTEX. All constituents were found to be below laboratory detection limits and NMWQCC standards.
May 14, 2010	Initiate Quarterly Sampling	The Flora Vista No. 1 site is put on a semi-annual monitoring schedule. Private domestic irrigation well sampling is also to be included in semi-annual sampling events.
June 10, 2010	Private Irrigation Well Sampling	Tetra Tech collected a groundwater sample from a second private down-gradient domestic well to be sampled for BTEX. All constituents were found to be below laboratory detection limits and NMWQCC standards.
June 10 and 11, 2010	Groundwater Monitoring	Tetra Tech conducted groundwater monitoring at the site for BTEX constituents, dissolved iron and manganese, and sulfate. Benzene (MW-1 and MW-4), xylenes (MW-1) and manganese (MW-1 and MW-4) were above NMWQCC standards.
September 27, 2010	Groundwater Monitoring	Tetra Tech conducted groundwater monitoring at the site for BTEX constituents, dissolved iron and manganese, and sulfate. Benzene (MW-1 and MW-4), xylenes (MW-1), dissolved iron and manganese (MW-1 and MW-4) were above NMWQCC standards.
December 14, 2010	Groundwater Monitoring	Tetra Tech conducted groundwater monitoring at the site for BTEX constituents, dissolved iron and manganese, and sulfate. Benzene (MW-1 and MW-4), xylenes (MW-1), dissolved iron and manganese (MW-1 and MW-4) were above NMWQCC standards.
March 17, 2011	Groundwater Monitoring	Tetra Tech conducted groundwater monitoring at the site for BTEX constituents, dissolved iron, dissolved manganese, and sulfate. Groundwater collected from MW-1 exceeded the NMWQCC standards for benzene, xylenes, dissolved iron and dissolved manganese. Groundwater collected from MW-4 exceeded the NMWQCC standards from benzene and dissolved manganese. Tetra Tech also collected a groundwater sample from a domestic well (DW-2) located to the south of the site to be analyzed for BTEX. All constituents were found to be below laboratory detection limits and NMWQCC standards in the domestic well sample.
June 15, 2011	Transfer of Site Consulting Responsibilites	On June 15, 2011, Site consulting responsibilities were transferred from Tetra Tech of Albuquerque, NM to Conestoga-Rovers & Associates (CRA) of Albuquerque, NM.

Date/Time Period	*Event/Action*	*Description/Comments*
June 24, 2011	Groundwater Monitoring	CRA conducted groundwater monitoring at the site for BTEX constituents, dissolved iron and manganese, and sulfate. Benzene (MW-1 and MW-4), xylenes (MW-1), dissolved iron (MW-4) and dissolved manganese (MW-1 and MW-4) were above NMWQCC standards. CRA also collected a groundwater sample from Domestic Well DW-1 located south of the site to be analyzed for BTEX. All constituents were found to be below laboratory detection limits and NMWQCC standards in the domestic well sample.
September 29, 2011	Groundwater Monitoring	CRA conducted groundwater monitoring at the site for BTEX constituents, dissolved iron and manganese, and sulfate. Benzene (MW-1 and MW-4), xylenes (MW-1), dissolved iron (MW-1 and MW-4) and dissolved manganese (MW-1 and MW-4) were above NMWQCC standards.
December 14, 2011	Groundwater Monitoring	CRA conducted groundwater monitoring at the site for BTEX constituents, dissolved iron and manganese, and sulfate. Benzene (MW-1 and MW-4), xylenes (MW-1), dissolved iron (MW-1 and MW-4) and dissolved manganese (MW-1 and MW-4) were above NMWQCC standards.

TABLE 2

MONITOR WELL SPECIFICATIONS AND GROUNDWATER ELEVATIONS
JUNE 2003 - DECEMBER 2011
CONOCOPHILLIPS COMPANY
FLORA VISTA NO. 1
SAN JUAN COUNTY, NM

Well ID	*Total Depth (ft below TOC)*	*Elevation**	*Screen Interval (ft bgs)*	*Date Measured*	*Depth to Groundwater (ft below TOC)*	*Relative Water Level*
MW-1	26.02	94.38	11.02 - 26.02	6/20/2003	NM	NM
				9/23/2003	17.03	77.35
				12/16/2003	20.11	74.27
				3/16/2004	23.69	70.69
				6/21/2004	19.92	74.46
				9/30/2004	16.82	77.56
				12/13/2004	20.40	73.98
				3/22/2005	24.32	70.06
				6/22/2005	NM	NM
				10/24/2005	NM	NM
				12/13/2005	21.24	73.14
				3/22/2006	24.75	69.63
				6/22/2006	20.48	73.90
				10/20/2006	19.13	75.25
				12/13/2006	21.24	73.14
				11/9/2007	19.71	74.67
				1/15/2008	NM	NM
				3/19/2008	24.35	70.03
				7/23/2008	19.89	74.49
				10/21/2008	19.48	74.90
				1/28/2009	23.96	70.42
				9/30/2009	18.16	76.22
				6/10/2010	21.64	72.74
				9/27/2010	19.31	75.07
				12/14/2010	21.41	72.97
				3/17/2011	24.95	69.43
				6/24/2011	22.55	71.83
				9/29/2011	18.37	76.01
				12/14/2011	20.63	73.75
MW-2	31.35	97.1	12.35 - 27.35	10/21/2008	20.71	76.39
				1/28/2009	22.75	74.35
				9/30/2009	18.83	78.27
				6/11/2010	22.09	75.01
				9/27/2010	20.12	76.98
				12/14/2010	NM	NM
				3/17/2011	NM	NM
				6/24/2011	22.50	74.60
				9/29/2011	18.95	75.43
				12/14/2011	21.79	75.31

Well ID	*Total Depth (ft below TOC)*	*Elevation**	*Screen Interval (ft bgs)*	*Date Measured*	*Depth to Groundwater (ft below TOC)*	*Relative Water Level*
MW-3	30.87	92.9	11.87 - 26.87	10/21/2008	17.92	74.98
				1/28/2009	21.53	71.37
				9/30/2009	16.43	76.47
				6/10/2010	19.71	73.19
				9/27/2010	17.81	75.09
				12/14/2010	19.61	73.29
				3/17/2011	23.32	69.58
				6/24/2011	20.55	72.35
				9/29/2011	16.84	77.54
				12/14/2011	19.13	73.77
MW-4	30.42	93.6	11.42 - 26.42	10/21/2008	18.06	75.54
				1/28/2009	24.55	69.05
				9/30/2009	17.89	75.71
				6/10/2010	21.02	72.58
				9/27/2010	18.93	74.67
				12/14/2010	21.04	72.56
				3/17/2011	24.58	69.02
				6/24/2011	21.80	71.80
				9/29/2011	17.94	76.44
				12/14/2011	20.28	73.32

Notes:

1. *Casing elevations are based on an arbitrary 100 ft relative surface elevation set at the gas well head
2. ft = Feet
3. TOC = Top of casing
4. bgs = below ground surface
5. NM = Not measured

TABLE 3

GROUNDWATER ANALYTICAL RESULTS SUMMARY
JUNE 2003 - DECEMBER 2011
CONOCOPHILLIPS COMPANY
FLORA VISTA NO. 1
SAN JUAN COUNTY, NM

Well ID	Sample ID	Date	Sample Type	Benzene (mg/L)	Ethylbenzene (mg/L)	Toluene (mg/L)	Xylenes (total) (mg/L)	Sulfate (mg/L)	Iron (dissolved) (mg/L)	Manganese (dissolved) (mg/L)
MW-1	MW-1	6/20/2003	(orig)	1.7	0.49	0.3	5.09	--	--	--
	MW-1	9/23/2003	(orig)	7.5	0.66	0.02	9.22	--	--	--
	MW-1	12/16/2003	(orig)	7.93	1.18	0.01	0.864	--	--	--
	MW-1	3/16/2004	(orig)	6.86	1.16	ND	8.47	--	--	--
	MW-1	6/21/2004	(orig)	4.14	0.43	ND	3.12	--	--	--
	MW-1	9/30/2004	(orig)	9.08	1.41	0.03	9.98	--	--	--
	MW-1	12/13/2004	(orig)	8.52	1.34	ND	9.39	--	--	--
	MW-1	3/22/2005	(orig)	4.55	0.85	ND	5.95	--	--	--
	MW-1	6/22/2005	(orig)	--	--	0.02188	--	--	--	--
	MW-1	10/24/2005	(orig)	6.39	1.01	ND	7.416	--	--	--
	MW-1	12/13/2005	(orig)	6.17	1.01	ND	7.57	--	--	--
	MW-1	3/22/2006	(orig)	3.58	0.77	ND	5.84	--	--	--
	MW-1	6/22/2006	(orig)	3.1	0.5	ND	3.5	--	--	--
	MW-1	10/20/2006	(orig)	6.6	1.22	0.01	8.91	--	--	--
	MW-1	12/13/2006	(orig)	4.23	1.09	0.01	8.13	--	--	--
	MW-1	3/27/2007	(orig)	2.37	0.504	0.007	3.749	--	--	--
	MW-1	6/25/2007	(orig)	2.87	0.51	0.14	3.89	--	--	--
	MW-1	11/9/2007	(orig)	5.6	0.91	< 0.0007	6.8	--	--	--
	MW-1	1/15/2008	(orig)	4.2	0.89	< 0.0007	5.7	--	--	--
	MW-1	3/19/2008	(orig)	2.7	0.59	< 0.005	4.7	--	--	--
	MW-1	7/23/2008	(orig)	2	0.38	< 0.005	1.4	--	--	--
	MW-1	10/21/2008	(orig)	4.5	0.63	< 0.005	5.3	--	--	--
	MW-1	1/28/2009	(orig)	4	0.88	< 0.005	8.7	--	--	--
	MW-1	9/30/2009	(orig)	4.2	0.53	0.0016	5.1	11.7	2.08	1.09
	MW-1	6/10/2010	(orig)	1.7	0.33	0.0012	0.99	27	0.126	1.28
	MW-1	9/27/2010	(orig)	3.2	0.53	0.002	4.2016	1.8	7.73	1.19
	MW-1	12/14/2010	(orig)	3.2	0.62	0.0012	5.3016	1.03	4.13	0.888
	MW-1	3/17/2011	(orig)	1.7	0.48	0.0037	4.3092	2.27	1.11	1.07
	GW-74926-062411-PG-01	6/24/2011	(orig)	2.10	0.494	0.0025	2.03	18.4	< 0.1	0.894
	GW-74926-062411-PG-02	6/24/2011	(Duplicate)	1.97	0.458	0.0026	1.94	--	--	--
	GW-074926-092911-CM-009	9/29/2011	(orig)	2.44	0.519	< 0.005	3.65	< 1.0	25.2	1.02
	GW-074926-121411-CB-MW-1	12/14/2011	(orig)	2.31	0.508	0.0055	3.93	13.2	25.4	0.945

Well ID	Sample ID	Date	Sample Type	Benzene (mg/L)	Ethylbenzene (mg/L)	Toluene (mg/L)	Xylenes (total) (mg/L)	Sulfate (mg/L)	Iron (dissolved) (mg/L)	Manganese (dissolved) (mg/L)
MW-2	MW-2	10/21/2008	(orig)	< 0.0005	< 0.0005	< 0.0005	< 0.0005	115	--	--
	MW-2	1/28/2009	(orig)	< 0.0005	< 0.0005	< 0.0005	< 0.0005	ND	ND	ND
	MW-2	9/30/2009	(orig)	< 0.0005	< 0.0005	< 0.0005	< 0.0005	123	0.0223	< 0.005
	MW-2	6/11/2010	(orig)	< 0.001	< 0.001	< 0.001	< 0.001	156	< 0.02	< 0.005
	MW-2	9/27/2010	(orig)	< 0.001	< 0.001	< 0.001	< 0.001	179	< 0.02	< 0.005
	GW-74926-062411-PG-05	6/24/2011	(orig)	< 0.0010	< 0.0010	< 0.0010	< 0.0030	176	0.191	< 0.015
	GW-074926-092911-CM-006	9/29/2011	(orig)	< 0.001	< 0.001	< 0.001	< 0.003	151	< 0.05	< 0.005
	GW-074926-121411-CB-MW-2	12/14/2011	(orig)	0.00031 J	0.0002 J	< 0.001	0.0022 J	135	0.0133 J	0.0022 J
MW-3	MW-3	10/21/2008	(orig)	< 0.0005	< 0.0005	< 0.0005	< 0.0005	93	--	--
	MW-3	1/28/2009	(orig)	< 0.0005	< 0.0005	< 0.0005	< 0.0005	ND	ND	ND
	MW-3	9/30/2009	(orig)	< 0.0005	< 0.0005	< 0.0005	< 0.0005	144	0.0543	< 0.005
	MW-3	6/10/2010	(orig)	< 0.0005	< 0.001	< 0.001	< 0.001	122	0.0425	< 0.005
	MW-3	9/27/2010	(orig)	< 0.001	< 0.001	< 0.001	< 0.001	170	< 0.02	< 0.005
	MW-3	12/14/2010	(orig)	< 0.001	< 0.001	< 0.001	< 0.001	142	< 0.02	< 0.005
	MW-3	3/17/2011	(orig)	< 0.001	< 0.001	< 0.001	< 0.001	119	< 0.02	< 0.005
	GW-74926-062411-PG-03	6/24/2011	(orig)	< 0.0010	< 0.0010	< 0.0010	< 0.0030	127	0.189	< 0.015
	GW-074926-092911-CM-007	9/29/2011	(orig)	< 0.001	< 0.001	< 0.001	< 0.003	160	< 0.05	0.0063
	GW-074926-121411-CB-MW-3	12/14/2011	(orig)	< 0.001	< 0.001	< 0.001	< 0.003	136	0.0288 J	0.0207
MW-4	MW-4	10/21/2008	(orig)	**0.039**	0.031	< 0.0005	0.18	90.1	--	--
	MW-4	1/28/2009	(orig)	**0.66**	0.064	< 0.0005	0.583	ND	ND	ND
	MW-4	9/30/2009	(orig)	**0.34**	0.054	< 0.0005	0.572	48.9	0.148	**4.48**
	MW-4	6/10/2010	(orig)	**0.14**	0.027	< 0.001	0.252	53.3	0.0566	**4.65**
	MW-4	9/27/2010	(orig)	**0.033**	0.041	< 0.001	0.274	92.5	**1.22**	**4.34**
	MW-4	12/14/2010	(orig)	**0.13**	0.093	< 0.001	**0.899**	67.5	**1.75**	**4.69**
	MW-4	3/17/2011	(orig)	**0.017**	0.018	< 0.001	0.1966	83	0.0852	**4.46**
	GW-74926-062411-PG-04	6/24/2011	(orig)	**0.0296**	0.0371	< 0.0010	0.472	130	**1.5**	**4.9**
	GW-074926-092911-CM-008	9/29/2011	(orig)	**0.0392**	0.0039	< 0.001	0.0536	96.1	**2.55**	**4.1**
	GW-074926-092911-CM-010	9/29/2011	(Duplicate)	**0.043**	0.0035	< 0.001	0.0483	--	--	--
	GW-074926-121411-CB-MW-4	12/14/2011	(orig)	**0.101**	0.0443	< 0.001	0.378	81.2	**2.62**	**4.58**
	GW-074926-121411-CB-DUP	12/14/2011	(Duplicate)	**0.104**	0.0437	0.0042 J	0.372	--	--	--
NMWQCC Groundwater Quality Standards				**0.01**	**0.75**	**0.75**	**0.62**	**600**	**1**	**0.2**

Notes:

1. MW = monitoring well
2. NMWQCC = New Mexico Water Quality Control Commission
3. Constituents in **BOLD** are in excess of NMWQCC groundwater quality standards
4. mg/L = milligrams per liter (parts per million)
5. < 1.0 = Below laboratory detection limit of 1.0 mg/L
6. ND = not detected
7. -- = not analyzed
8. J = Estimated value between Method Detection Limit and Reporting Limit

APPENDIX A

SEPTEMBER AND DECEMBER 2011
QUARTERLY GROUNDWATER SAMPLING FIELD FORMS

WELL SAMPLING FIELD INFORMATION FORM

SITE/PROJECT NAME: Flora Vista No. 1 JOB# 074926

SAMPLE ID: GW-074926-092911-CM-009 WELL# MW-1

WELL PURGING INFORMATION

PURGE DATE (MM DD YY)	SAMPLE DATE (MM DD YY)	SAMPLE TIME (24 HOUR)	WATER VOL. IN CASING (GALLONS)	ACTUAL VOL. PURGED (GALLONS)
9.29.11	9.29.11	1310	1.245	3.75

PURGING AND SAMPLING EQUIPMENT

PURGING EQUIPMENT.....DEDICATED (Y) N (CIRCLE ONE)

SAMPLING EQUIPMENT.....DEDICATED (Y) N (CIRCLE ONE)

PURGING DEVICE	G	A - SUBMERSIBLE PUMP B - PERISTALTIC PUMP	D - GAS LIFT PUMP E - PURGE PUMP	G - BAILER H - WATERRA®	X= PURGING DEVICE OTHER (SPECIFY)
SAMPLING DEVICE	G	C - BLADDER PUMP	F - DIPPER BOTTLE	X - OTHER	X= SAMPLING DEVICE OTHER (SPECIFY)
PURGING MATERIAL	E	A - TEFLON B - STAINLESS STEEL	D - PVC E - POLYETHYLENE		X= PURGING MATERIAL OTHER (SPECIFY)
SAMPLING MATERIAL	E	C - POLYPROPYLENE	X - OTHER		X= SAMPLING MATERIAL OTHER (SPECIFY)
PURGE TUBING	C	A - TEFLON B - TYGON	D - POLYPROPYLENE E - POLYETHYLENE	G - COMBINATION TEFLON/POLYPROPYLENE	X= PURGE TUBING OTHER (SPECIFY)
SAMPLING TUBING	C	C - ROPE	F - SILICONE	X - OTHER	X= SAMPLING TUBING OTHER (SPECIFY)
FILTERING DEVICES 0.45	A	A - IN-LINE DISPOSABLE	B - PRESSURE	C - VACUUM	

FIELD MEASUREMENTS

DEPTH TO WATER: 18.37 (feet) WELL ELEVATION: 94.38 (feet)

WELL DEPTH: 26.15 (feet) GROUNDWATER ELEVATION: 76.01 (feet)

TEMPERATURE	pH	TDS	CONDUCTIVITY	ORP	VOLUME
17.03 (°C)	6.77 (std)	0.864 (g/L)	1127 (µS/cm)	-60.5 (mV)	3.25 (gal)
16.68 (°C)	6.81 (std)	0.841 (g/L)	1087 (µS/cm)	-63.7 (mV)	3.5 (gal)
16.35 (°C)	6.81 (std)	0.825 (g/L)	1059 (µS/cm)	-56.6 (mV)	3.75 (gal)
(°C)	(std)	(g/L)	(µS/cm)	(mV)	(gal)
(°C)	(std)	(g/L)	(µS/cm)	(mV)	(gal)

FIELD COMMENTS

SAMPLE APPEARANCE: cloudy ODOR: hydrocarbon COLOR: light gray/brown SHEEN (Y)N Slight sheen

WEATHER CONDITIONS: TEMPERATURE ~85° WINDY Y/(N) PRECIPITATION Y/(N) IF Y TYPE

SPECIFIC COMMENTS:

1.78' X 0.16 = 1.245 X 3 = 3.73

I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE CRA PROTOCOLS

9.29.11 DATE — Jason Ross PRINT — SIGNATURE

WELL SAMPLING FIELD INFORMATION FORM

SITE/PROJECT NAME: Flora Vista No. 1 JOB# 074926

SAMPLE ID: GW-074926-092911-CM-006 WELL# MW-2

WELL PURGING INFORMATION

PURGE DATE (MM DD YY)	SAMPLE DATE (MM DD YY)	SAMPLE TIME (24 HOUR)	WATER VOL. IN CASING (GALLONS)	ACTUAL VOL. PURGED (GALLONS)
9.29.11	9.29.11	1145	2.018	6.25

PURGING AND SAMPLING EQUIPMENT

PURGING EQUIPMENT.....DEDICATED (Y) N (CIRCLE ONE)

SAMPLING EQUIPMENT.....DEDICATED (Y) N (CIRCLE ONE)

PURGING DEVICE	G	A - SUBMERSIBLE PUMP B - PERISTALTIC PUMP	D - GAS LIFT PUMP E - PURGE PUMP	G - BAILER H - WATERRA®	X= PURGING DEVICE OTHER (SPECIFY)
SAMPLING DEVICE	G	C - BLADDER PUMP	F - DIPPER BOTTLE	X - OTHER	X= SAMPLING DEVICE OTHER (SPECIFY)
PURGING MATERIAL	E	A - TEFLON B - STAINLESS STEEL	D - PVC E - POLYETHYLENE		X= PURGING MATERIAL OTHER (SPECIFY)
SAMPLING MATERIAL	E	C - POLYPROPYLENE	X - OTHER		X= SAMPLING MATERIAL OTHER (SPECIFY)
PURGE TUBING	C	A - TEFLON B - TYGON	D - POLYPROPYLENE E - POLYETHYLENE	G - COMBINATION TEFLON/POLYPROPYLENE	X= PURGE TUBING OTHER (SPECIFY)
SAMPLING TUBING	C	C - ROPE	F - SILICONE	X - OTHER	X= SAMPLING TUBING OTHER (SPECIFY)
FILTERING DEVICES 0.45	A	A - IN-LINE DISPOSABLE	B - PRESSURE	C - VACUUM	0.45 micron for metals

FIELD MEASUREMENTS

DEPTH TO WATER	18.95 (feet)		WELL ELEVATION	97.10 (feet)	
WELL DEPTH	31.56 (feet)		GROUNDWATER ELEVATION	75.43 (feet)	

TEMPERATURE	pH	TDS	CONDUCTIVITY	ORP	VOLUME
15.05 (°C)	7.11 (std)	0.522 (g/L)	65 (µS/cm)	149.7 (mV)	5.25 (gal)
15.00 (°C)	7.01 (std)	0.522 (g/L)	650 (µS/cm)	153.2 (mV)	5.75 (gal)
14.99 (°C)	7.01 (std)	0.522 (g/L)	650 (µS/cm)	153.4 (mV)	6.25 (gal)
( ) (°C)	( ) (std)	( ) (g/L)	( ) (µS/cm)	( ) (mV)	( ) (gal)
( ) (°C)	( ) (std)	( ) (g/L)	( ) (µS/cm)	( ) (mV)	( ) (gal)

FIELD COMMENTS

SAMPLE APPEARANCE: cloudy none ODOR: none COLOR: Lt Brown SHEEN (Y/N) N

WEATHER CONDITIONS: TEMPERATURE 85° WINDY (Y/N) N PRECIPITATION (Y/N OR TYPE) N

SPECIFIC COMMENTS:

12.61' x 0.16 = 2.018 x 3 = 6.053

I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE CRA PROTOCOLS

9.29.11 Jason Ross

DATE PRINT SIGNATURE

WELL SAMPLING FIELD INFORMATION FORM

SITE/PROJECT NAME: Flora Vista No. 1 JOB# 074926

SAMPLE ID: GW-074926-092911-CM-007 WELL# MW-3

WELL PURGING INFORMATION

PURGE DATE (MM DD YY)	SAMPLE DATE (MM DD YY)	SAMPLE TIME (24 HOUR)	WATER VOL. IN CASING (GALLONS)	ACTUAL VOL. PURGED (GALLONS)
9.29.11	9.29.11	1235	2.18	6.75

PURGING AND SAMPLING EQUIPMENT

PURGING EQUIPMENT.....DEDICATED (Y) N (CIRCLE ONE)

SAMPLING EQUIPMENT.....DEDICATED (Y) N (CIRCLE ONE)

PURGING DEVICE	G	A - SUBMERSIBLE PUMP B - PERISTALTIC PUMP	D - GAS LIFT PUMP E - PURGE PUMP	G - BAILER H - WATERRA®	X= PURGING DEVICE OTHER (SPECIFY)
SAMPLING DEVICE	G	C - BLADDER PUMP	F - DIPPER BOTTLE	X - OTHER	X= SAMPLING DEVICE OTHER (SPECIFY)
PURGING MATERIAL	E	A - TEFLON B - STAINLESS STEEL	D - PVC E - POLYETHYLENE		X= PURGING MATERIAL OTHER (SPECIFY)
SAMPLING MATERIAL	E	C - POLYPROPYLENE	X - OTHER		X= SAMPLING MATERIAL OTHER (SPECIFY)
PURGE TUBING	C	A - TEFLON B - TYGON	D - POLYPROPYLENE E - POLYETHYLENE	G - COMBINATION TEFLON/POLYPROPYLENE	X= PURGE TUBING OTHER (SPECIFY)
SAMPLING TUBING	C	C - ROPE	F - SILICONE	X - OTHER	X= SAMPLING TUBING OTHER (SPECIFY)
FILTERING DEVICES 0.45	A	A - IN-LINE DISPOSABLE	B - PRESSURE	C - VACUUM	0.45 micron for metals

FIELD MEASUREMENTS

DEPTH TO WATER	16.84	(feet)	WELL ELEVATION	92.90	(feet)
WELL DEPTH	30.48	(feet)	GROUNDWATER ELEVATION	77.54	(feet)

TEMPERATURE	pH	TDS	CONDUCTIVITY	ORP	VOLUME
15.08 (°C)	7.21 (std)	0.566 (g/L)	706 (µS/cm)	150.9 (mV)	5.25 (gal)
15.01 (°C)	7.08 (std)	0.568 (g/L)	708 (µS/cm)	156.8 (mV)	6.25 (gal)
15.00 (°C)	7.10 (std)	0.569 (g/L)	709 (µS/cm)	156.8 (mV)	6.75 (gal)
(°C)	(std)	(g/L)	(µS/cm)	(mV)	(gal)
(°C)	(std)	(g/L)	(µS/cm)	(mV)	(gal)

FIELD COMMENTS

SAMPLE APPEARANCE: cloudy ODOR: none COLOR: brown/orange/ish (CLEAR Y/N)

WEATHER CONDITIONS: TEMPERATURE 85° WINDY Y/N (N) PRECIPITATION Y/N (N Y TYPE)

SPECIFIC COMMENTS:

13.64' X 0.16 = 2.18 X 3 = 6.55

I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE CRA PROTOCOLS

9.29.11 Jason Moss

DATE PRINT SIGNATURE

WELL SAMPLING FIELD INFORMATION FORM

SITE/PROJECT NAME: Flora Vista No. 1 JOB# 074926

SAMPLE ID: GW-074926-092911-CM-008 WELL# MW-4

WELL PURGING INFORMATION

PURGE DATE (MM DD YY)	SAMPLE DATE (MM DD YY)	SAMPLE TIME (24 HOUR)	WATER VOL. IN CASING (GALLONS)	ACTUAL VOL. PURGED (GALLONS)
9.29.11	9.29.11	1250	1.997	6.25

PURGING AND SAMPLING EQUIPMENT

PURGING EQUIPMENT.....DEDICATED (Y) N (CIRCLE ONE)

SAMPLING EQUIPMENT.....DEDICATED (Y) N (CIRCLE ONE)

PURGING DEVICE	G	A - SUBMERSIBLE PUMP B - PERISTALTIC PUMP	D - GAS LIFT PUMP E - PURGE PUMP	G - BAILER H - WATERRA®	X= PURGING DEVICE OTHER (SPECIFY)
SAMPLING DEVICE	G	C - BLADDER PUMP	F - DIPPER BOTTLE	X - OTHER	X= SAMPLING DEVICE OTHER (SPECIFY)
PURGING MATERIAL	E	A - TEFLON B - STAINLESS STEEL	D - PVC E - POLYETHYLENE		X= PURGING MATERIAL OTHER (SPECIFY)
SAMPLING MATERIAL	E	C - POLYPROPYLENE	X - OTHER		X= SAMPLING MATERIAL OTHER (SPECIFY)
PURGE TUBING	C	A - TEFLON B - TYGON	D - POLYPROPYLENE E - POLYETHYLENE	G - COMBINATION TEFLON/POLYPROPYLENE	X= PURGE TUBING OTHER (SPECIFY)
SAMPLING TUBING	C	C - ROPE	F - SILICONE	X - OTHER	X= SAMPLING TUBING OTHER (SPECIFY)
FILTERING DEVICES 0.45	A	A - IN-LINE DISPOSABLE	B - PRESSURE	C - VACUUM	

FIELD MEASUREMENTS

DEPTH TO WATER 17.94 (feet) WELL ELEVATION 93.60 (feet)

WELL DEPTH 30.42 (feet) GROUNDWATER ELEVATION 76.44 (feet)

TEMPERATURE	pH	TDS	CONDUCTIVITY	ORP	VOLUME
15.29 (°C)	7.27 (std)	0.596 (g/L)	747 (µS/cm)	31.7 (mV)	5.0 (gal)
15.25 (°C)	7.61 (std)	0.567 (g/L)	748 (µS/cm)	-44.1 (mV)	5.5 (gal)
15.15 (°C)	6.97 (std)	0.596 (g/L)	746 (µS/cm)	-65.1 (mV)	6.0 (gal)
(°C)	(std)	(g/L)	(µS/cm)	(mV)	(gal)
(°C)	(std)	(g/L)	(µS/cm)	(mV)	(gal)

FIELD COMMENTS

SAMPLE APPEARANCE: cloudy ODOR: hydrocarbon COLOR: black SHEEN Y/N SPOTTY

WEATHER CONDITIONS: TEMPERATURE 85° WINDY Y/N PRECIPITATION Y/N (IF Y TYPE)

SPECIFIC COMMENTS:

12.48' x 0.16 = 1.997 X 3 = 5.99

Duplicate GW-074926-092911-CM-010 collected @ 1300

I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE CRA PROTOCOLS

9.29.11 DATE | Jason Hess PRINT | SIGNATURE

WELL SAMPLING FIELD INFORMATION FORM

SITE/PROJECT NAME: Flora Vista JOB# 074926

SAMPLE ID: GW-074926-121411-CB-MW-1 WELL# MW-1

WELL PURGING INFORMATION

PURGE DATE (MM DD YY)	SAMPLE DATE (MM DD YY)	SAMPLE TIME (24 HOUR)	WATER VOL. IN CASING (GALLONS)	ACTUAL VOL. PURGED (GALLONS)
12.14.11	12.14.11	1510	0.88	2.6

PURGING AND SAMPLING EQUIPMENT

PURGING EQUIPMENT.....DEDICATED (Y) N (CIRCLE ONE)

SAMPLING EQUIPMENT.....DEDICATED ~~Y~~ (N) (CIRCLE ONE)

PURGING DEVICE	G	A - SUBMERSIBLE PUMP B - PERISTALTIC PUMP	D - GAS LIFT PUMP E - PURGE PUMP	G - BAILER H - WATERRA®	X= PURGING DEVICE OTHER (SPECIFY)
SAMPLING DEVICE	G	C - BLADDER PUMP	F - DIPPER BOTTLE	X - OTHER	X= SAMPLING DEVICE OTHER (SPECIFY)
PURGING MATERIAL	E	A - TEFLON B - STAINLESS STEEL	D - PVC E - POLYETHYLENE		X= PURGING MATERIAL OTHER (SPECIFY)
SAMPLING MATERIAL	E	C - POLYPROPYLENE	X - OTHER		X= SAMPLING MATERIAL OTHER (SPECIFY)
PURGE TUBING	C	A - TEFLON B - TYGON	D - POLYPROPYLENE E - POLYETHYLENE	G - COMBINATION TEFLON/POLYPROPYLENE	X= PURGE TUBING OTHER (SPECIFY)
SAMPLING TUBING	C	C - ROPE	F - SILICONE	X - OTHER	X= SAMPLING TUBING OTHER (SPECIFY)
FILTERING DEVICES 0.45	A	A - IN-LINE DISPOSABLE	B - PRESSURE	C - VACUUM	

FIELD MEASUREMENTS

DEPTH TO WATER 20.63 (feet) WELL ELEVATION 94.38 (feet)

WELL DEPTH 21.16 (feet) GROUNDWATER ELEVATION 73.75 (feet)

TEMPERATURE	pH	TDS	CONDUCTIVITY	ORP	VOLUME
15.78 (°C)	6.57 (std)	0.765 (g/L)	995 (µS/cm)	-44.9 (mV)	1.5 (gal)
15.98 (°C)	6.59 (std)	0.790 (g/L)	1005 (µS/cm)	-74.3 (mV)	2.0 (gal)
(°C)	(std)	(g/L)	(µS/cm)	(mV)	(gal)
(°C)	(std)	(g/L)	(µS/cm)	(mV)	(gal)
(°C)	(std)	(g/L)	(µS/cm)	(mV)	(gal)

FIELD COMMENTS

SAMPLE APPEARANCE: Black ODOR: yes/hydrocarbon COLOR: Black SHEEN Y/N slight

WEATHER CONDITIONS: TEMPERATURE 35 WINDY Y/N yes PRECIPITATION Y/N (IF Y TYPE) NO

SPECIFIC COMMENTS:

0.88x3 = 2.65

well baited down very fast after ~ 2 volumes

I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE CRA PROTOCOLS

12.14.11 DATE | Cassie Brown PRINT | Cassie Brown SIGNATURE

WELL SAMPLING FIELD INFORMATION FORM

TE/PROJECT NAME: Flora Vista JOB# 074926

SAMPLE ID: GW-074926-121411-CB-MW-2 WELL# MW-2

WELL PURGING INFORMATION

PURGE DATE (MM DD YY)	SAMPLE DATE (MM DD YY)	SAMPLE TIME (24 HOUR)	WATER VOL. IN CASING (GALLONS)	ACTUAL VOL. PURGED (GALLONS)
12-14-11	12-14-11	615	1.56	5.0

PURGING AND SAMPLING EQUIPMENT

PURGING EQUIPMENT.....DEDICATED (Y) N (CIRCLE ONE)

SAMPLING EQUIPMENT.....DEDICATED (Y) N (CIRCLE ONE)

PURGING DEVICE	G	A - SUBMERSIBLE PUMP	D - GAS LIFT PUMP	G - BAILER	X= PURGING DEVICE OTHER (SPECIFY)
		B - PERISTALTIC PUMP	E - PURGE PUMP	H - WATERRA®	
SAMPLING DEVICE	G	C - BLADDER PUMP	F - DIPPER BOTTLE	X - OTHER	X= SAMPLING DEVICE OTHER (SPECIFY)
PURGING MATERIAL	E	A - TEFLON	D - PVC		X= PURGING MATERIAL OTHER (SPECIFY)
		B - STAINLESS STEEL	E - POLYETHYLENE		
SAMPLING MATERIAL	E	C - POLYPROPYLENE	X - OTHER		X= SAMPLING MATERIAL OTHER (SPECIFY)
PURGE TUBING	C	A - TEFLON	D - POLYPROPYLENE	G - COMBINATION TEFLON/POLYPROPYLENE	X= PURGE TUBING OTHER (SPECIFY)
		B - TYGON	E - POLYETHYLENE		
SAMPLING TUBING	C	C - ROPE	F - SILICONE	X - OTHER	X= SAMPLING TUBING OTHER (SPECIFY)
FILTERING DEVICES 0.45	A	A - IN-LINE DISPOSABLE	B - PRESSURE	C - VACUUM	

FIELD MEASUREMENTS

DEPTH TO WATER 21.79 (feet) WELL ELEVATION 97.1 (feet)

WELL DEPTH 31.59 (feet) GROUNDWATER ELEVATION 75.31 (feet)

TEMPERATURE	pH	TDS	CONDUCTIVITY	ORP	VOLUME
14.33 (°C)	7.12 (std)	0.506 (g/L)	620 (µS/cm)	1.3 (mV)	3.25 (gal)
14.41 (°C)	7.00 (std)	0.509 (g/L)	624 (µS/cm)	5.8 (mV)	3.75 (gal)
14.46 (°C)	6.98 (std)	0.511 (g/L)	629 (µS/cm)	8.4 (mV)	4.00 (gal)
(°C)	(std)	(g/L)	(µS/cm)	(mV)	(gal)
(°C)	(std)	(g/L)	(µS/cm)	(mV)	(gal)

FIELD COMMENTS

SAMPLE APPEARANCE: clear ODOR: None COLOR: clear SHEEN Y/(N)

WEATHER CONDITIONS: TEMPERATURE ~35° WINDY Y/(N) PRECIPITATION Y/(N) (IF Y TYPE)

SPECIFIC COMMENTS:

1.56 x 3 = 4.70

I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE CRA PROTOCOLS

12-14-11 (DATE) Chase Brown (PRINT) Chase Brown (SIGNATURE)

WELL SAMPLING FIELD INFORMATION FORM

.TE/PROJECT NAME: Flora Vista JOB# 074926

SAMPLE ID: GW-074926-121411-CB-MW-3 WELL# MW-3

WELL PURGING INFORMATION

PURGE DATE (MM DD YY)	SAMPLE DATE (MM DD YY)	SAMPLE TIME (24 HOUR)	WATER VOL. IN CASING (GALLONS)	ACTUAL VOL. PURGED (GALLONS)
12·14·11	12·14·11	1630	1.77	6

PURGING AND SAMPLING EQUIPMENT

PURGING EQUIPMENT........DEDICATED (Y) N (CIRCLE ONE)

SAMPLING EQUIPMENT.........DEDICATED (Y) N (CIRCLE ONE)

PURGING DEVICE: G — A - SUBMERSIBLE PUMP; B - PERISTALTIC PUMP; C - BLADDER PUMP; D - GAS LIFT PUMP; E - PURGE PUMP; F - DIPPER BOTTLE; G - BAILER; H - WATERRA®; X - OTHER

X= ______ PURGING DEVICE OTHER (SPECIFY)

SAMPLING DEVICE: G

X= ______ SAMPLING DEVICE OTHER (SPECIFY)

PURGING MATERIAL: E — A - TEFLON; B - STAINLESS STEEL; C - POLYPROPYLENE; D - PVC; E - POLYETHYLENE; X - OTHER

X= ______ PURGING MATERIAL OTHER (SPECIFY)

SAMPLING MATERIAL: E

X= ______ SAMPLING MATERIAL OTHER (SPECIFY)

PURGE TUBING: C — A - TEFLON; B - TYGON; C - ROPE; D - POLYPROPYLENE; E - POLYETHYLENE; F - SILICONE; G - COMBINATION TEFLON/POLYPROPYLENE; X - OTHER

X= ______ PURGE TUBING OTHER (SPECIFY)

SAMPLING TUBING: C

X= ______ SAMPLING TUBING OTHER (SPECIFY)

FILTERING DEVICES 0.45: A — A - IN-LINE DISPOSABLE; B - PRESSURE; C - VACUUM

FIELD MEASUREMENTS

DEPTH TO WATER: 19.13 (feet) WELL ELEVATION: 92.90 (feet)

WELL DEPTH: 30.23 (feet) GROUNDWATER ELEVATION: 73.77 (feet)

TEMPERATURE (°C)	pH (std)	TDS (g/L)	CONDUCTIVITY (µS/cm)	ORP (mV)	VOLUME (gal)
14.44	7.12	0.493	605	19.3	5.0
14.67	7.06	0.492	608	18.0	5.5
14.68	7.03	0.486	602	18.9	6.0

FIELD COMMENTS

SAMPLE APPEARANCE: Cloudy ODOR: None COLOR: light brown SHEEN Y/N

WEATHER CONDITIONS: TEMPERATURE ~35° WINDY Y/N PRECIPITATION Y/N (IF Y TYPE)

SPECIFIC COMMENTS:

1.77X3 = 5.32

I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE CRA PROTOCOLS

DATE: 12·14·11 PRINT: Cassie Brown SIGNATURE: Cassie Brown

WELL SAMPLING FIELD INFORMATION FORM

SITE/PROJECT NAME: Flora Vista JOB# 074926

SAMPLE ID: GW-074926-121411-B-MW4 WELL# MW-4

WELL PURGING INFORMATION

PURGE DATE (MM DD YY)	SAMPLE DATE (MM DD YY)	SAMPLE TIME (24 HOUR)	WATER VOL. IN CASING (GALLONS)	ACTUAL VOL. PURGED (GALLONS)
12/14/11	12/14/11	1525	1.61	5.0

PURGING AND SAMPLING EQUIPMENT

PURGING EQUIPMENT.....DEDICATED (Y) N (CIRCLE ONE)

SAMPLING EQUIPMENT.....DEDICATED (Y) N (CIRCLE ONE)

PURGING DEVICE	G	A - SUBMERSIBLE PUMP	D - GAS LIFT PUMP	G - BAILER	X= PURGING DEVICE OTHER (SPECIFY)
		B - PERISTALTIC PUMP	E - PURGE PUMP	H - WATERRA®	
SAMPLING DEVICE	G	C - BLADDER PUMP	F - DIPPER BOTTLE	X - OTHER	X= SAMPLING DEVICE OTHER (SPECIFY)
PURGING MATERIAL	E	A - TEFLON	D - PVC		X= PURGING MATERIAL OTHER (SPECIFY)
		B - STAINLESS STEEL	E - POLYETHYLENE		
SAMPLING MATERIAL	E	C - POLYPROPYLENE	X - OTHER		X= SAMPLING MATERIAL OTHER (SPECIFY)
PURGE TUBING	C	A - TEFLON	D - POLYPROPYLENE	G - COMBINATION TEFLON/POLYPROPYLENE	X= PURGE TUBING OTHER (SPECIFY)
		B - TYGON	E - POLYETHYLENE		
SAMPLING TUBING	C	C - ROPE	F - SILICONE	X - OTHER	X= SAMPLING TUBING OTHER (SPECIFY)
FILTERING DEVICES 0.45	A	A - IN-LINE DISPOSABLE	B - PRESSURE	C - VACUUM	

FIELD MEASUREMENTS

DEPTH TO WATER 20.28 (feet) WELL ELEVATION 93.60 (feet)

WELL DEPTH 30.38 (feet) GROUNDWATER ELEVATION 73.32 (feet)

TEMPERATURE	pH	TDS	CONDUCTIVITY	ORP	VOLUME
(°C)	(std)	(g/L)	(µS/cm)	(mV)	(gal)
(°C)	(std)	(g/L)	(µS/cm)	(mV)	(gal)
(°C)	(std)	(g/L)	(µS/cm)	(mV)	(gal)
(°C)	(std)	(g/L)	(µS/cm)	(mV)	(gal)
(°C)	(std)	(g/L)	(µS/cm)	(mV)	(gal)

FIELD COMMENTS

SAMPLE APPEARANCE: black ODOR: hydrocarbon COLOR: black SHEEN Y/N continuous

WEATHER CONDITIONS: TEMPERATURE ~35° WINDY Y/N PRECIPITATION Y/N (IF Y TYPE)

SPECIFIC COMMENTS: No parameters taken due to sheen.

1.61 x 3 = 4.83

I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE CRA PROTOCOLS

12/14/11 DATE | Cassie Brown PRINT | Cassie Brown SIGNATURE

dup @ 1530

APPENDIX B

SEPTEMBER AND DECEMBER 2011
QUARTERLY GROUNDWATER LABORATORY ANALYTICAL REPORTS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

October 18, 2011

Angela Bown
COP Conestoga-Rovers & Associa
6121 Indian School Rd
#200
Albuquerque, NM 87110

RE: Project: FLORA VISTA NO. 1
Pace Project No.: 60107347

Dear Angela Bown:
Enclosed are the analytical results for sample(s) received by the laboratory on October 01, 2011. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards, where applicable, unless otherwise narrated in the body of the report.

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

Sincerely,

Anna Custer for
Dianna Meier
dianna.meier@pacelabs.com
Project Manager

Enclosures

cc: Kelly Blanchard, COP Conestoga-Rovers & Associa
Cassie Brown, COP Conestoga-Rovers & Associa

Pace Analytical Services, Inc.
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Lenexa, KS 66219
(913)599-5665

CERTIFICATIONS

Project: FLORA VISTA NO. 1
Pace Project No.: 60107347

Kansas Certification IDs
9608 Loiret Boulevard, Lenexa, KS 66219
A2LA Certification #: 2456.01
Arkansas Certification #: 05-008-0
Illinois Certification #: 001191
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407-08-TX
Utah Certification #: 9135995665

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SAMPLE SUMMARY

Project: FLORA VISTA NO. 1
Pace Project No.: 60107347

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60107347001	GW-074926-092911-CM-006	Water	09/29/11 11:45	10/01/11 08:00
60107347002	GW-074926-092911-CM-007	Water	09/29/11 12:35	10/01/11 08:00
60107347003	GW-074926-092911-CM-008	Water	09/29/11 12:50	10/01/11 08:00
60107347004	GW-074926-092911-CM-009	Water	09/29/11 13:10	10/01/11 08:00
60107347005	GW-074926-092911-CM-010	Water	09/29/11 13:00	10/01/11 08:00
60107347006	TB-092911-001	Water	09/29/11 13:20	10/01/11 08:00

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SAMPLE ANALYTE COUNT

Project: FLORA VISTA NO. 1
Pace Project No.: 60107347

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60107347001	GW-074926-092911-CM-006	EPA 6010	JDH	2
		EPA 8260	HNS	9
		EPA 300.0	JPF	1
60107347002	GW-074926-092911-CM-007	EPA 6010	JDH	2
		EPA 8260	HNS	9
		EPA 300.0	JPF	1
60107347003	GW-074926-092911-CM-008	EPA 6010	JDH	2
		EPA 8260	PRG	9
		EPA 300.0	JPF	1
60107347004	GW-074926-092911-CM-009	EPA 6010	JDH	2
		EPA 8260	HNS	9
		EPA 300.0	JPF	1
60107347005	GW-074926-092911-CM-010	EPA 8260	HNS	9
60107347006	TB-092911-001	EPA 8260	HNS	9

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PROJECT NARRATIVE

Project: FLORA VISTA NO. 1
Pace Project No.: 60107347

Method: **EPA 6010**
Description: 6010 MET ICP, Dissolved
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: October 18, 2011

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

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

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

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

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

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

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

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

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

Additional Comments:

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PROJECT NARRATIVE

Project: FLORA VISTA NO. 1
Pace Project No.: 60107347

Method: **EPA 8260**
Description: 8260 MSV UST, Water
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: October 18, 2011

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

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

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

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

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

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

QC Batch: MSV/40758

S3: Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.

- BLANK (Lab ID: 889125)
  - Toluene-d8 (S)

QC Batch: MSV/40858

S0: Surrogate recovery outside laboratory control limits.

- GW-074926-092911-CM-008 (Lab ID: 60107347003)
  - Toluene-d8 (S)

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

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

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

QC Batch: MSV/40757

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

QC Batch: MSV/40758

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

QC Batch: MSV/40798

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

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PROJECT NARRATIVE

Project: FLORA VISTA NO. 1
Pace Project No.: 60107347

Method: **EPA 8260**
Description: 8260 MSV UST, Water
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: October 18, 2011

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

Additional Comments:

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PROJECT NARRATIVE

Project: FLORA VISTA NO. 1
Pace Project No.: 60107347

Method: **EPA 300.0**
Description: 300.0 IC Anions 28 Days
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: October 18, 2011

General Information:
4 samples were analyzed for EPA 300.0. All samples were received in acceptable condition with any exceptions noted below.

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

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

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

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

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

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

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

Additional Comments:

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

Pace Analytical Services, Inc.
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Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: FLORA VISTA NO. 1
Pace Project No.: 60107347

Sample: GW-074926-092911-CM-006 **Lab ID: 60107347001** Collected: 09/29/11 11:45 Received: 10/01/11 08:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron, Dissolved	ND	ug/L	50.0	6.0	1	10/03/11 13:37	10/04/11 18:09	7439-89-6	
Manganese, Dissolved	ND	ug/L	5.0	0.90	1	10/03/11 13:37	10/04/11 18:09	7439-96-5	
8260 MSV UST, Water	Analytical Method: EPA 8260								
Benzene	ND	ug/L	1.0	0.040	1		10/12/11 02:45	71-43-2	
Ethylbenzene	ND	ug/L	1.0	0.10	1		10/12/11 02:45	100-41-4	
Toluene	ND	ug/L	1.0	0.10	1		10/12/11 02:45	108-88-3	
Xylene (Total)	ND	ug/L	3.0	0.30	1		10/12/11 02:45	1330-20-7	
Dibromofluoromethane (S)	93	%	86-112		1		10/12/11 02:45	1868-53-7	
Toluene-d8 (S)	100	%	90-110		1		10/12/11 02:45	2037-26-5	
4-Bromofluorobenzene (S)	99	%	87-113		1		10/12/11 02:45	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	82-119		1		10/12/11 02:45	17060-07-0	
Preservation pH	**1.0**		1.0	0.10	1		10/12/11 02:45		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**151**	mg/L	10.0	1.6	10		10/16/11 11:23	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: FLORA VISTA NO. 1
Pace Project No.: 60107347

Sample: GW-074926-092911-CM-007 **Lab ID: 60107347002** Collected: 09/29/11 12:35 Received: 10/01/11 08:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron, Dissolved	ND	ug/L	50.0	6.0	1	10/03/11 13:37	10/04/11 18:12	7439-89-6	
Manganese, Dissolved	**6.3**	ug/L	5.0	0.90	1	10/03/11 13:37	10/04/11 18:12	7439-96-5	
8260 MSV UST, Water	Analytical Method: EPA 8260								
Benzene	ND	ug/L	1.0	0.040	1		10/12/11 03:01	71-43-2	
Ethylbenzene	ND	ug/L	1.0	0.10	1		10/12/11 03:01	100-41-4	
Toluene	ND	ug/L	1.0	0.10	1		10/12/11 03:01	108-88-3	
Xylene (Total)	ND	ug/L	3.0	0.30	1		10/12/11 03:01	1330-20-7	
Dibromofluoromethane (S)	96	%	86-112		1		10/12/11 03:01	1868-53-7	
Toluene-d8 (S)	102	%	90-110		1		10/12/11 03:01	2037-26-5	
4-Bromofluorobenzene (S)	103	%	87-113		1		10/12/11 03:01	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	82-119		1		10/12/11 03:01	17060-07-0	
Preservation pH	**1.0**		1.0	0.10	1		10/12/11 03:01		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**160**	mg/L	10.0	1.6	10		10/16/11 11:38	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: FLORA VISTA NO. 1
Pace Project No.: 60107347

Sample: GW-074926-092911-CM-008 **Lab ID: 60107347003** Collected: 09/29/11 12:50 Received: 10/01/11 08:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron, Dissolved	**2550**	ug/L	50.0	6.0	1	10/03/11 13:37	10/04/11 18:14	7439-89-6	
Manganese, Dissolved	**4100**	ug/L	5.0	0.90	1	10/03/11 13:37	10/04/11 18:14	7439-96-5	
8260 MSV UST, Water	Analytical Method: EPA 8260								
Benzene	**39.2**	ug/L	1.0	0.050	1		10/13/11 17:07	71-43-2	
Ethylbenzene	**3.9**	ug/L	1.0	0.080	1		10/13/11 17:07	100-41-4	
Toluene	ND	ug/L	1.0	0.070	1		10/13/11 17:07	108-88-3	
Xylene (Total)	**53.6**	ug/L	3.0	0.18	1		10/13/11 17:07	1330-20-7	
Dibromofluoromethane (S)	95	%	86-112		1		10/13/11 17:07	1868-53-7	
Toluene-d8 (S)	113	%	90-110		1		10/13/11 17:07	2037-26-5	S0
4-Bromofluorobenzene (S)	107	%	87-113		1		10/13/11 17:07	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	82-119		1		10/13/11 17:07	17060-07-0	
Preservation pH	**1.0**		1.0	0.10	1		10/13/11 17:07		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**96.1**	mg/L	10.0	1.6	10		10/16/11 12:09	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: FLORA VISTA NO. 1
Pace Project No.: 60107347

Sample: GW-074926-092911-CM-009 **Lab ID: 60107347004** Collected: 09/29/11 13:10 Received: 10/01/11 08:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron, Dissolved	**25200**	ug/L	50.0	6.0	1	10/03/11 13:37	10/04/11 18:16	7439-89-6	
Manganese, Dissolved	**1020**	ug/L	5.0	0.90	1	10/03/11 13:37	10/04/11 18:16	7439-96-5	
8260 MSV UST, Water	Analytical Method: EPA 8260								
Benzene	**2440**	ug/L	50.0	2.0	50		10/12/11 05:12	71-43-2	
Ethylbenzene	**519**	ug/L	5.0	0.50	5		10/10/11 12:32	100-41-4	
Toluene	ND	ug/L	5.0	0.50	5		10/10/11 12:32	108-88-3	
Xylene (Total)	**3650**	ug/L	150	15.0	50		10/12/11 05:12	1330-20-7	
Dibromofluoromethane (S)	104	%	86-112		5		10/10/11 12:32	1868-53-7	
Toluene-d8 (S)	101	%	90-110		5		10/10/11 12:32	2037-26-5	
4-Bromofluorobenzene (S)	94	%	87-113		5		10/10/11 12:32	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	82-119		5		10/10/11 12:32	17060-07-0	
Preservation pH	**1.0**		1.0	0.10	5		10/10/11 12:32		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	ND	mg/L	1.0	0.16	1		10/16/11 18:00	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: FLORA VISTA NO. 1
Pace Project No.: 60107347

Sample: GW-074926-092911-CM-010 **Lab ID: 60107347005** Collected: 09/29/11 13:00 Received: 10/01/11 08:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST, Water	Analytical Method: EPA 8260								
Benzene	**43.0**	ug/L	1.0	0.040	1		10/10/11 12:48	71-43-2	
Ethylbenzene	**3.5**	ug/L	1.0	0.10	1		10/10/11 12:48	100-41-4	
Toluene	ND	ug/L	1.0	0.10	1		10/10/11 12:48	108-88-3	
Xylene (Total)	**48.3**	ug/L	3.0	0.30	1		10/10/11 12:48	1330-20-7	
Dibromofluoromethane (S)	102	%	86-112		1		10/10/11 12:48	1868-53-7	
Toluene-d8 (S)	110	%	90-110		1		10/10/11 12:48	2037-26-5	
4-Bromofluorobenzene (S)	97	%	87-113		1		10/10/11 12:48	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	82-119		1		10/10/11 12:48	17060-07-0	
Preservation pH	**1.0**		1.0	0.10	1		10/10/11 12:48		

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ANALYTICAL RESULTS

Project: FLORA VISTA NO. 1
Pace Project No.: 60107347

Sample: TB-092911-001 **Lab ID: 60107347006** Collected: 09/29/11 13:20 Received: 10/01/11 08:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST, Water	Analytical Method: EPA 8260								
Benzene	ND	ug/L	1.0	0.040	1		10/10/11 13:04	71-43-2	
Ethylbenzene	ND	ug/L	1.0	0.10	1		10/10/11 13:04	100-41-4	
Toluene	ND	ug/L	1.0	0.10	1		10/10/11 13:04	108-88-3	
Xylene (Total)	ND	ug/L	3.0	0.30	1		10/10/11 13:04	1330-20-7	
Dibromofluoromethane (S)	100	%	86-112		1		10/10/11 13:04	1868-53-7	
Toluene-d8 (S)	98	%	90-110		1		10/10/11 13:04	2037-26-5	
4-Bromofluorobenzene (S)	106	%	87-113		1		10/10/11 13:04	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	82-119		1		10/10/11 13:04	17060-07-0	
Preservation pH	**1.0**		1.0	0.10	1		10/10/11 13:04		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: FLORA VISTA NO. 1
Pace Project No.: 60107347

QC Batch: MPRP/15527 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET Dissolved
Associated Lab Samples: 60107347001, 60107347002, 60107347003, 60107347004

METHOD BLANK: 885402 Matrix: Water
Associated Lab Samples: 60107347001, 60107347002, 60107347003, 60107347004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron, Dissolved	ug/L	ND	50.0	10/04/11 17:44	
Manganese, Dissolved	ug/L	ND	5.0	10/04/11 17:44	

LABORATORY CONTROL SAMPLE: 885403

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Dissolved	ug/L	10000	9680	97	80-120	
Manganese, Dissolved	ug/L	1000	980	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 885404 885405

Parameter	Units	60107298001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Iron, Dissolved	ug/L	532	10000	10000	10200	10100	97	96	75-125	1	20	
Manganese, Dissolved	ug/L	1820	1000	1000	2830	2820	101	100	75-125	1	20	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: FLORA VISTA NO. 1
Pace Project No.: 60107347

QC Batch: MSV/40757 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV UST-WATER
Associated Lab Samples: 60107347001, 60107347002

METHOD BLANK: 889123 Matrix: Water
Associated Lab Samples: 60107347001, 60107347002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	1.0	10/11/11 21:19	
Ethylbenzene	ug/L	ND	1.0	10/11/11 21:19	
Toluene	ug/L	ND	1.0	10/11/11 21:19	
Xylene (Total)	ug/L	ND	3.0	10/11/11 21:19	
1,2-Dichloroethane-d4 (S)	%	94	82-119	10/11/11 21:19	
4-Bromofluorobenzene (S)	%	97	87-113	10/11/11 21:19	
Dibromofluoromethane (S)	%	96	86-112	10/11/11 21:19	
Toluene-d8 (S)	%	101	90-110	10/11/11 21:19	

LABORATORY CONTROL SAMPLE: 889124

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	17.5	87	82-117	
Ethylbenzene	ug/L	20	16.9	85	79-121	
Toluene	ug/L	20	17.6	88	80-120	
Xylene (Total)	ug/L	60	51.7	86	79-120	
1,2-Dichloroethane-d4 (S)	%			98	82-119	
4-Bromofluorobenzene (S)	%			104	87-113	
Dibromofluoromethane (S)	%			99	86-112	
Toluene-d8 (S)	%			102	90-110	

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QUALITY CONTROL DATA

Project: FLORA VISTA NO. 1
Pace Project No.: 60107347

QC Batch: MSV/40758 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV UST-WATER
Associated Lab Samples: 60107347004, 60107347005, 60107347006

METHOD BLANK: 889125 Matrix: Water
Associated Lab Samples: 60107347004, 60107347005, 60107347006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	1.0	10/10/11 10:29	
Ethylbenzene	ug/L	ND	1.0	10/10/11 10:29	
Toluene	ug/L	ND	1.0	10/10/11 10:29	
Xylene (Total)	ug/L	ND	3.0	10/10/11 10:29	
1,2-Dichloroethane-d4 (S)	%	99	82-119	10/10/11 10:29	
4-Bromofluorobenzene (S)	%	103	87-113	10/10/11 10:29	
Dibromofluoromethane (S)	%	101	86-112	10/10/11 10:29	
Toluene-d8 (S)	%	112	90-110	10/10/11 10:29	S3

LABORATORY CONTROL SAMPLE: 889126

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	17.5	88	82-117	
Ethylbenzene	ug/L	20	18.2	91	79-121	
Toluene	ug/L	20	18.2	91	80-120	
Xylene (Total)	ug/L	60	52.7	88	79-120	
1,2-Dichloroethane-d4 (S)	%			100	82-119	
4-Bromofluorobenzene (S)	%			105	87-113	
Dibromofluoromethane (S)	%			101	86-112	
Toluene-d8 (S)	%			100	90-110	

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QUALITY CONTROL DATA

Project: FLORA VISTA NO. 1
Pace Project No.: 60107347

QC Batch: MSV/40798
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV UST-WATER
Associated Lab Samples: 60107347004

METHOD BLANK: 889730
Matrix: Water
Associated Lab Samples: 60107347004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	10.0	10/12/11 04:23	
Xylene (Total)	ug/L	ND	30.0	10/12/11 04:23	
1,2-Dichloroethane-d4 (S)	%	93	82-119	10/12/11 04:23	
4-Bromofluorobenzene (S)	%	102	87-113	10/12/11 04:23	
Dibromofluoromethane (S)	%	96	86-112	10/12/11 04:23	
Toluene-d8 (S)	%	103	90-110	10/12/11 04:23	

LABORATORY CONTROL SAMPLE: 889731

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	18.4	92	82-117	
Xylene (Total)	ug/L	60	52.0	87	79-120	
1,2-Dichloroethane-d4 (S)	%			95	82-119	
4-Bromofluorobenzene (S)	%			95	87-113	
Dibromofluoromethane (S)	%			95	86-112	
Toluene-d8 (S)	%			98	90-110	

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QUALITY CONTROL DATA

Project: FLORA VISTA NO. 1
Pace Project No.: 60107347

QC Batch: MSV/40858 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV UST-WATER
Associated Lab Samples: 60107347003

METHOD BLANK: 890817 Matrix: Water
Associated Lab Samples: 60107347003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	1.0	10/13/11 16:39	
Ethylbenzene	ug/L	ND	1.0	10/13/11 16:39	
Toluene	ug/L	ND	1.0	10/13/11 16:39	
Xylene (Total)	ug/L	ND	3.0	10/13/11 16:39	
1,2-Dichloroethane-d4 (S)	%	97	82-119	10/13/11 16:39	
4-Bromofluorobenzene (S)	%	96	87-113	10/13/11 16:39	
Dibromofluoromethane (S)	%	94	86-112	10/13/11 16:39	
Toluene-d8 (S)	%	108	90-110	10/13/11 16:39	

LABORATORY CONTROL SAMPLE: 890818

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	18.7	93	82-117	
Ethylbenzene	ug/L	20	21.7	108	79-121	
Toluene	ug/L	20	21.2	106	80-120	
Xylene (Total)	ug/L	60	63.7	106	79-120	
1,2-Dichloroethane-d4 (S)	%			96	82-119	
4-Bromofluorobenzene (S)	%			99	87-113	
Dibromofluoromethane (S)	%			97	86-112	
Toluene-d8 (S)	%			108	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 890819 890820

Parameter	Units	60107626002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	ND	20	20	17.8	18.0	89	90	58-139	1	21	
Ethylbenzene	ug/L	ND	20	20	21.5	21.1	108	106	56-138	2	19	
Toluene	ug/L	ND	20	20	21.1	20.8	106	104	59-140	2	19	
Xylene (Total)	ug/L	ND	60	60	62.8	62.8	105	105	52-146	0	19	
1,2-Dichloroethane-d4 (S)	%						93	96	82-119			
4-Bromofluorobenzene (S)	%						98	95	87-113			
Dibromofluoromethane (S)	%						94	96	86-112			
Toluene-d8 (S)	%						109	105	90-110			
Preservation pH		1.0			1.0	1.0				0		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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(913)599-5665

QUALITY CONTROL DATA

Project: FLORA VISTA NO. 1
Pace Project No.: 60107347

QC Batch: WETA/17924 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 60107347001, 60107347002, 60107347003, 60107347004

METHOD BLANK: 891580 Matrix: Water
Associated Lab Samples: 60107347001, 60107347002, 60107347003, 60107347004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	ND	1.0	10/14/11 16:32	

METHOD BLANK: 892363 Matrix: Water
Associated Lab Samples: 60107347001, 60107347002, 60107347003, 60107347004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	ND	1.0	10/15/11 14:00	

METHOD BLANK: 892836 Matrix: Water
Associated Lab Samples: 60107347001, 60107347002, 60107347003, 60107347004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	ND	1.0	10/16/11 08:35	

METHOD BLANK: 893264 Matrix: Water
Associated Lab Samples: 60107347001, 60107347002, 60107347003, 60107347004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	ND	1.0	10/17/11 14:24	

LABORATORY CONTROL SAMPLE: 891581

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	5	4.9	98	90-110	

LABORATORY CONTROL SAMPLE: 892837

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	5	4.7	94	90-110	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: FLORA VISTA NO. 1
Pace Project No.: 60107347

LABORATORY CONTROL SAMPLE: 893265

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	5	5.4	107	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 891582 891583

Parameter	Units	60107157001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	26000	50000	50000	72000	72400	92	93	61-119	1	10	

MATRIX SPIKE SAMPLE: 891584

Parameter	Units	60107347002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	160	50	214	108	61-119	

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: FLORA VISTA NO. 1
Pace Project No.: 60107347

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

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

BATCH QUALIFIERS

Batch: MSV/40757

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: MSV/40758

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: MSV/40798

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

S0 Surrogate recovery outside laboratory control limits.

S3 Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: FLORA VISTA NO. 1
Pace Project No.: 60107347

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60107347001	**GW-074926-092911-CM-006**	EPA 3010	MPRP/15527	EPA 6010	ICP/13478
60107347002	**GW-074926-092911-CM-007**	EPA 3010	MPRP/15527	EPA 6010	ICP/13478
60107347003	**GW-074926-092911-CM-008**	EPA 3010	MPRP/15527	EPA 6010	ICP/13478
60107347004	**GW-074926-092911-CM-009**	EPA 3010	MPRP/15527	EPA 6010	ICP/13478
60107347001	**GW-074926-092911-CM-006**	EPA 8260	MSV/40757		
60107347002	**GW-074926-092911-CM-007**	EPA 8260	MSV/40757		
60107347003	**GW-074926-092911-CM-008**	EPA 8260	MSV/40858		
60107347004	**GW-074926-092911-CM-009**	EPA 8260	MSV/40758		
60107347004	**GW-074926-092911-CM-009**	EPA 8260	MSV/40798		
60107347005	**GW-074926-092911-CM-010**	EPA 8260	MSV/40758		
60107347006	**TB-092911-001**	EPA 8260	MSV/40758		
60107347001	**GW-074926-092911-CM-006**	EPA 300.0	WETA/17924		
60107347002	**GW-074926-092911-CM-007**	EPA 300.0	WETA/17924		
60107347003	**GW-074926-092911-CM-008**	EPA 300.0	WETA/17924		
60107347004	**GW-074926-092911-CM-009**	EPA 300.0	WETA/17924		

CHAIN-OF-CUSTODY / Analytical Request Document

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The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: of

Section A — Required Client Information:

Company:	CRA
Address:	6121 Indian School Rd NE, Ste 200
	Albequerque, NM 87110
Email To:	cmathews@craworld.com
Phone:	(505)884-0672
Fax:	(505)884-4932
Requested Due Date/TAT:	Standard

Section B — Required Project Information:

Report To:	Christine Mathews
Copy To:	Kelly Blanchard, Angela Bown
Purchase Order No.:	
Project Name:	Flora Vista No. 1
Project Number:	074926

Section C — Invoice Information:

Attention:	ENFOS
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	Colleen Koporc
Pace Profile #:	5341, 5

REGULATORY AGENCY

☐ NPDES ☒ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: NM

Section D — Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Valid Matrix Codes — MATRIX / CODE: DRINKING WATER DW; WATER WT; WASTE WATER WW; PRODUCT P; SOIL/SOLID SL; OIL OL; WIPE WP; AIR AR; OTHER OT; TISSUE TS

MATRIX CODE (see valid codes to left); SAMPLE TYPE (G=GRAB C=COMP)

Requested Analysis Filtered (Y/N)

Pace Project No./ Lab I.D.: 6007347

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE	Composite Start DATE	Composite Start TIME	Composite End/Grab DATE	Composite End/Grab TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test	8260 BTEX	6010 Dissolved Fe & Mn	300.0 Sulfate	(unlabelled columns)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	GW-074926-092911-CM-006	WT	G			9.29.11	1145		5	X		X	X						X	X	X	1BP3F·5, 1BP3U	3DG9H	001
2	GW-074926-092911-CM-007	WT	G			9.29.11	1235		5	X		X	X						X	X	X	↓	↓	002
3	GW-074926-092911-CM-008	WT	G			9.29.11	1250		5	X		X	X						X	X	X	↓	↓	003
4	GW-074926-092911-CM-009	WT	G			9.29.11	1310		5	X		X	X						X	X	X	↓	↓	004
5	GW-074926-092911-CM-010	WT	G			9.29.11	1300		3				X						X				↓	005
6	TB-092911-001	WT				9.29.11	1320		2				X						X			2DG9H (TB)		006
7																								
8																								
9																								
10																								
11																								
12																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Need MDLs on report - J-flag; * Metals were filtered in the field	Christine Mathews (signature)	9/30/11	1730	E Brackett	10/1	0800	1.6	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Christine Mathews

SIGNATURE of SAMPLER: (signature) DATE Signed (MM/DD/YY): 9/29/11

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

F-ALL-Q-020rev.08, 12-Oct-2007

Sample Condition Upon Receipt

Pace Analytical® www.pacelabs.com

Client Name: CRA Project # 10107347

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other _____

Tracking #: 576803375942 Pace Shipping Label Used? ☑ Yes ☐ No

Custody Seal on Cooler/Box Present: ☑ Yes ☐ No Seals intact: ☑ Yes ☐ No

Optional
Proj. Due Date: 10/13/11
Proj. Name:

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ Foam ☐ None ☐ Other _____

Thermometer Used: T-191 / T-194 Type of Ice: Wet Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature: 1.6
Temperature should be above freezing to 6°C

Date and Initials of person examining contents: 10/11/11

		Comments:
Chain of Custody present:	☑Yes ☐No ☐N/A	1.
Chain of Custody filled out:	☑Yes ☐No ☐N/A	2.
Chain of Custody relinquished:	☑Yes ☐No ☐N/A	3.
Sampler name & signature on COC:	☑Yes ☐No ☐N/A	4.
Samples arrived within holding time:	☑Yes ☐No ☐N/A	5.
Short Hold Time analyses (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time requested:	☐Yes ☑No ☐N/A	7.
Sufficient volume:	☑Yes ☐No ☐N/A	8.
Correct containers used:	☑Yes ☐No ☐N/A	9.
-Pace containers used:	☑Yes ☐No ☐N/A	
Containers intact:	☑Yes ☐No ☐N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	☐Yes ☐No ☑N/A	11.
Filtered volume received for dissolved tests	☐Yes ☐No ☑N/A	12.
Sample labels match COC:	☑Yes ☐No ☐N/A	13.
-Includes date/time/ID/analyses Matrix: WT		
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	14.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics	☑Yes ☐No	Initial when completed _____ Lot # of added preservative _____
Trip Blank present:	☑Yes ☐No ☐N/A	15.
Pace Trip Blank lot # (if purchased): Correct		
Headspace in VOA vials (>6mm):	☐Yes ☑No ☐N/A	16.
Project sampled in USDA Regulated Area:	☐Yes ☐No ☑N/A	17. List State:

Client Notification/ Resolution: Copy COC to Client? Y / (N) Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

DKM

Project Manager Review: DKM Date: 10/13/11

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

F-KS-C-003-Rev.05, 19February2010

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(913)599-5665

January 04, 2012

Christine Matthews
CRA
6121 Indian School Rd NE
Suite 200
Albuquerque, NM 87110

RE: Project: FLORA VISTA NO. 1 (074926)
Pace Project No.: 60112337

Dear Christine Matthews:
Enclosed are the analytical results for sample(s) received by the laboratory on December 16, 2011. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Anna Custer

Anna Custer

anna.custer@pacelabs.com
Project Manager

Enclosures

cc: Kelly Blanchard, COP Conestoga-Rovers & Associa
Angela Bown, COP Conestoga-Rovers & Associa

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

CERTIFICATIONS

Project: FLORA VISTA NO. 1 (074926)
Pace Project No.: 60112337

Kansas Certification IDs
9608 Loiret Boulevard, Lenexa, KS 66219
A2LA Certification #: 2456.01
Arkansas Certification #: 05-008-0
Illinois Certification #: 001191
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407-08-TX
Utah Certification #: 9135995665

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SAMPLE SUMMARY

Project: FLORA VISTA NO. 1 (074926)
Pace Project No.: 60112337

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60112337001	**GW-074926-121411-CB-MW-1**	Water	12/14/11 15:10	12/16/11 09:00
60112337002	**GW-074926-121411-CB-MW-2**	Water	12/14/11 16:15	12/16/11 09:00
60112337003	**GW-074926-121411-CB-MW-3**	Water	12/14/11 16:30	12/16/11 09:00
60112337004	**GW-074926-121411-CB-MW-4**	Water	12/14/11 15:25	12/16/11 09:00
60112337005	**GW-074926-121411-CB-DUP**	Water	12/14/11 15:30	12/16/11 09:00
60112337006	**TB-074926-121411-TB1**	Water	12/15/11 09:00	12/16/11 09:00

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SAMPLE ANALYTE COUNT

Project: FLORA VISTA NO. 1 (074926)
Pace Project No.: 60112337

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60112337001	GW-074926-121411-CB-MW-1	EPA 6010	JDH	2
		EPA 8260	PRG, RNS	9
		EPA 300.0	JML	1
60112337002	GW-074926-121411-CB-MW-2	EPA 6010	JDH	2
		EPA 8260	RNS	9
		EPA 300.0	JML	1
60112337003	GW-074926-121411-CB-MW-3	EPA 6010	JDH	2
		EPA 8260	RNS	9
		EPA 300.0	JML	1
60112337004	GW-074926-121411-CB-MW-4	EPA 6010	JDH	2
		EPA 8260	RNS	9
		EPA 300.0	JML	1
60112337005	GW-074926-121411-CB-DUP	EPA 8260	RNS	9
60112337006	TB-074926-121411-TB1	EPA 8260	RNS	9

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PROJECT NARRATIVE

Project: FLORA VISTA NO. 1 (074926)
Pace Project No.: 60112337

Method: **EPA 6010**
Description: 6010 MET ICP, Dissolved
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: January 04, 2012

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

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

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

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

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

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

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

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

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

Additional Comments:

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PROJECT NARRATIVE

Project: FLORA VISTA NO. 1 (074926)
Pace Project No.: 60112337

Method: **EPA 8260**
Description: 8260 MSV UST, Water
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: January 04, 2012

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

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

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

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

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

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

QC Batch: MSV/42749

S0: Surrogate recovery outside laboratory control limits.
- GW-074926-121411-CB-MW-3 (Lab ID: 60112337003)
  - 4-Bromofluorobenzene (S)

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

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

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

QC Batch: MSV/42673

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

QC Batch: MSV/42739

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

QC Batch: MSV/42749

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

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

Additional Comments:

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PROJECT NARRATIVE

Project: FLORA VISTA NO. 1 (074926)
Pace Project No.: 60112337

Method: **EPA 8260**
Description: 8260 MSV UST, Water
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: January 04, 2012

Analyte Comments:

QC Batch: MSV/42673

B: Analyte was detected in the associated method blank.
- GW-074926-121411-CB-MW-2 (Lab ID: 60112337002)
  - Ethylbenzene
- GW-074926-121411-CB-MW-4 (Lab ID: 60112337004)
  - Ethylbenzene

QC Batch: MSV/42749

P2: Re-extraction or re-analysis could not be performed due to insufficient sample amount.
- GW-074926-121411-CB-MW-3 (Lab ID: 60112337003)
  - 4-Bromofluorobenzene (S)

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PROJECT NARRATIVE

Project: FLORA VISTA NO. 1 (074926)
Pace Project No.: 60112337

Method: **EPA 300.0**
Description: 300.0 IC Anions 28 Days
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: January 04, 2012

General Information:
4 samples were analyzed for EPA 300.0. All samples were received in acceptable condition with any exceptions noted below.

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

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

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

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

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

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

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

Additional Comments:

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

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ANALYTICAL RESULTS

Project: FLORA VISTA NO. 1 (074926)
Pace Project No.: 60112337

Sample: GW-074926-121411-CB-MW-1 **Lab ID: 60112337001** Collected: 12/14/11 15:10 Received: 12/16/11 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron, Dissolved	**25400**	ug/L	50.0	6.0	1	12/22/11 09:00	12/23/11 10:40	7439-89-6	
Manganese, Dissolved	**945**	ug/L	5.0	0.90	1	12/22/11 09:00	12/23/11 10:40	7439-96-5	
8260 MSV UST, Water	Analytical Method: EPA 8260								
Benzene	**2310**	ug/L	25.0	1.2	25		12/28/11 02:44	71-43-2	
Ethylbenzene	**508**	ug/L	5.0	0.50	5		12/22/11 14:19	100-41-4	
Toluene	**5.5**	ug/L	5.0	0.50	5		12/22/11 14:19	108-88-3	
Xylene (Total)	**3930**	ug/L	75.0	4.5	25		12/28/11 02:44	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	97	%	86-112		5		12/22/11 14:19	1868-53-7	
Toluene-d8 (S)	101	%	90-110		5		12/22/11 14:19	2037-26-5	
4-Bromofluorobenzene (S)	103	%	87-113		5		12/22/11 14:19	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	82-119		5		12/22/11 14:19	17060-07-0	
Preservation pH	**1.0**		1.0	0.10	5		12/22/11 14:19		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**13.2**	mg/L	1.0	0.076	1		12/29/11 19:56	14808-79-8	

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ANALYTICAL RESULTS

Project: FLORA VISTA NO. 1 (074926)
Pace Project No.: 60112337

Sample: GW-074926-121411-CB-MW-2 **Lab ID: 60112337002** Collected: 12/14/11 16:15 Received: 12/16/11 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron, Dissolved	**13.3J**	ug/L	50.0	6.0	1	12/22/11 09:00	12/23/11 10:42	7439-89-6	
Manganese, Dissolved	**2.2J**	ug/L	5.0	0.90	1	12/22/11 09:00	12/23/11 10:42	7439-96-5	
8260 MSV UST, Water	Analytical Method: EPA 8260								
Benzene	**0.31J**	ug/L	1.0	0.040	1		12/22/11 14:35	71-43-2	
Ethylbenzene	**0.20J**	ug/L	1.0	0.10	1		12/22/11 14:35	100-41-4	B
Toluene	ND	ug/L	1.0	0.10	1		12/22/11 14:35	108-88-3	
Xylene (Total)	**2.2J**	ug/L	3.0	0.30	1		12/22/11 14:35	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	100	%	86-112		1		12/22/11 14:35	1868-53-7	
Toluene-d8 (S)	104	%	90-110		1		12/22/11 14:35	2037-26-5	
4-Bromofluorobenzene (S)	94	%	87-113		1		12/22/11 14:35	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	82-119		1		12/22/11 14:35	17060-07-0	
Preservation pH	**1.0**		1.0	0.10	1		12/22/11 14:35		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**135**	mg/L	20.0	1.5	20		12/29/11 03:25	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: FLORA VISTA NO. 1 (074926)
Pace Project No.: 60112337

Sample: GW-074926-121411-CB-MW-3 **Lab ID: 60112337003** Collected: 12/14/11 16:30 Received: 12/16/11 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron, Dissolved	**28.8J**	ug/L	50.0	6.0	1	12/22/11 09:00	12/23/11 10:45	7439-89-6	
Manganese, Dissolved	**20.7**	ug/L	5.0	0.90	1	12/22/11 09:00	12/23/11 10:45	7439-96-5	
8260 MSV UST, Water	Analytical Method: EPA 8260								
Benzene	ND	ug/L	1.0	0.040	1		12/28/11 16:50	71-43-2	
Ethylbenzene	ND	ug/L	1.0	0.10	1		12/28/11 16:50	100-41-4	
Toluene	ND	ug/L	1.0	0.10	1		12/28/11 16:50	108-88-3	
Xylene (Total)	ND	ug/L	3.0	0.30	1		12/28/11 16:50	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	107	%	86-112		1		12/28/11 16:50	1868-53-7	
Toluene-d8 (S)	102	%	90-110		1		12/28/11 16:50	2037-26-5	
4-Bromofluorobenzene (S)	84	%	87-113		1		12/28/11 16:50	460-00-4	P2,S0
1,2-Dichloroethane-d4 (S)	116	%	82-119		1		12/28/11 16:50	17060-07-0	
Preservation pH	**1.0**		1.0	0.10	1		12/28/11 16:50		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**136**	mg/L	20.0	1.5	20		12/29/11 03:42	14808-79-8	

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ANALYTICAL RESULTS

Project: FLORA VISTA NO. 1 (074926)
Pace Project No.: 60112337

Sample: GW-074926-121411-CB-MW-4 **Lab ID: 60112337004** Collected: 12/14/11 15:25 Received: 12/16/11 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron, Dissolved	**2620**	ug/L	50.0	6.0	1	12/22/11 09:00	12/23/11 10:47	7439-89-6	
Manganese, Dissolved	**4580**	ug/L	5.0	0.90	1	12/22/11 09:00	12/23/11 10:47	7439-96-5	
8260 MSV UST, Water	Analytical Method: EPA 8260								
Benzene	**101**	ug/L	1.0	0.040	1		12/22/11 15:08	71-43-2	
Ethylbenzene	**44.3**	ug/L	1.0	0.10	1		12/22/11 15:08	100-41-4	B
Toluene	ND	ug/L	1.0	0.10	1		12/22/11 15:08	108-88-3	
Xylene (Total)	**378**	ug/L	3.0	0.30	1		12/22/11 15:08	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	92	%	86-112		1		12/22/11 15:08	1868-53-7	
Toluene-d8 (S)	108	%	90-110		1		12/22/11 15:08	2037-26-5	
4-Bromofluorobenzene (S)	99	%	87-113		1		12/22/11 15:08	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	82-119		1		12/22/11 15:08	17060-07-0	
Preservation pH	**1.0**		1.0	0.10	1		12/22/11 15:08		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**81.2**	mg/L	20.0	1.5	20		12/29/11 03:58	14808-79-8	

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ANALYTICAL RESULTS

Project: FLORA VISTA NO. 1 (074926)
Pace Project No.: 60112337

Sample: GW-074926-121411-CB-DUP **Lab ID: 60112337005** Collected: 12/14/11 15:30 Received: 12/16/11 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST, Water	Analytical Method: EPA 8260								
Benzene	**104**	ug/L	5.0	0.20	5		12/22/11 15:24	71-43-2	
Ethylbenzene	**43.7**	ug/L	5.0	0.50	5		12/22/11 15:24	100-41-4	
Toluene	**4.2J**	ug/L	5.0	0.50	5		12/22/11 15:24	108-88-3	
Xylene (Total)	**372**	ug/L	15.0	1.5	5		12/22/11 15:24	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	101	%	86-112		5		12/22/11 15:24	1868-53-7	
Toluene-d8 (S)	105	%	90-110		5		12/22/11 15:24	2037-26-5	
4-Bromofluorobenzene (S)	104	%	87-113		5		12/22/11 15:24	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	82-119		5		12/22/11 15:24	17060-07-0	
Preservation pH	**1.0**		1.0	0.10	5		12/22/11 15:24		

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ANALYTICAL RESULTS

Project: FLORA VISTA NO. 1 (074926)
Pace Project No.: 60112337

Sample: TB-074926-121411-TB1 **Lab ID: 60112337006** Collected: 12/15/11 09:00 Received: 12/16/11 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST, Water	Analytical Method: EPA 8260								
Benzene	**0.060J**	ug/L	1.0	0.040	1		12/22/11 15:41	71-43-2	
Ethylbenzene	ND	ug/L	1.0	0.10	1		12/22/11 15:41	100-41-4	
Toluene	ND	ug/L	1.0	0.10	1		12/22/11 15:41	108-88-3	
Xylene (Total)	ND	ug/L	3.0	0.30	1		12/22/11 15:41	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	100	%	86-112		1		12/22/11 15:41	1868-53-7	
Toluene-d8 (S)	103	%	90-110		1		12/22/11 15:41	2037-26-5	
4-Bromofluorobenzene (S)	101	%	87-113		1		12/22/11 15:41	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	82-119		1		12/22/11 15:41	17060-07-0	
Preservation pH	**1.0**		1.0	0.10	1		12/22/11 15:41		

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QUALITY CONTROL DATA

Project: FLORA VISTA NO. 1 (074926)
Pace Project No.: 60112337

QC Batch: MPRP/16530 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET Dissolved
Associated Lab Samples: 60112337001, 60112337002, 60112337003, 60112337004

METHOD BLANK: 930306 Matrix: Water
Associated Lab Samples: 60112337001, 60112337002, 60112337003, 60112337004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron, Dissolved	ug/L	ND	50.0	12/23/11 09:58	
Manganese, Dissolved	ug/L	ND	5.0	12/23/11 09:58	

LABORATORY CONTROL SAMPLE: 930307

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Dissolved	ug/L	10000	9770	98	80-120	
Manganese, Dissolved	ug/L	1000	992	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 930308 930309

Parameter	Units	60112207001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Iron, Dissolved	ug/L	201	10000	10000	9880	9790	97	96	75-125	1	20	
Manganese, Dissolved	ug/L	278	1000	1000	1260	1240	98	97	75-125	1	20	

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QUALITY CONTROL DATA

Project: FLORA VISTA NO. 1 (074926)
Pace Project No.: 60112337

QC Batch: MSV/42673 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV UST-WATER
Associated Lab Samples: 60112337001, 60112337002, 60112337004, 60112337005, 60112337006

METHOD BLANK: 930694 Matrix: Water
Associated Lab Samples: 60112337001, 60112337002, 60112337004, 60112337005, 60112337006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	1.0	12/22/11 10:46	
Ethylbenzene	ug/L	0.16J	1.0	12/22/11 10:46	
Toluene	ug/L	0.12J	1.0	12/22/11 10:46	
Xylene (Total)	ug/L	ND	3.0	12/22/11 10:46	
1,2-Dichloroethane-d4 (S)	%	102	82-119	12/22/11 10:46	
4-Bromofluorobenzene (S)	%	99	87-113	12/22/11 10:46	
Dibromofluoromethane (S)	%	99	86-112	12/22/11 10:46	
Toluene-d8 (S)	%	103	90-110	12/22/11 10:46	

LABORATORY CONTROL SAMPLE: 930695

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	17.9	90	82-117	
Ethylbenzene	ug/L	20	18.7	93	79-121	
Toluene	ug/L	20	18.5	93	80-120	
Xylene (Total)	ug/L	60	59.7	99	79-120	
1,2-Dichloroethane-d4 (S)	%			101	82-119	
4-Bromofluorobenzene (S)	%			92	87-113	
Dibromofluoromethane (S)	%			97	86-112	
Toluene-d8 (S)	%			98	90-110	

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QUALITY CONTROL DATA

Project: FLORA VISTA NO. 1 (074926)
Pace Project No.: 60112337

QC Batch: MSV/42739
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV UST-WATER
Associated Lab Samples: 60112337001

METHOD BLANK: 932245 Matrix: Water
Associated Lab Samples: 60112337001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	1.0	12/28/11 02:29	
Xylene (Total)	ug/L	ND	3.0	12/28/11 02:29	
1,2-Dichloroethane-d4 (S)	%	104	82-119	12/28/11 02:29	
4-Bromofluorobenzene (S)	%	102	87-113	12/28/11 02:29	
Dibromofluoromethane (S)	%	107	86-112	12/28/11 02:29	
Toluene-d8 (S)	%	98	90-110	12/28/11 02:29	

LABORATORY CONTROL SAMPLE: 932246

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	17.7	88	82-117	
Xylene (Total)	ug/L	60	52.0	87	79-120	
1,2-Dichloroethane-d4 (S)	%			104	82-119	
4-Bromofluorobenzene (S)	%			107	87-113	
Dibromofluoromethane (S)	%			106	86-112	
Toluene-d8 (S)	%			93	90-110	

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QUALITY CONTROL DATA

Project: FLORA VISTA NO. 1 (074926)
Pace Project No.: 60112337

QC Batch: MSV/42749
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV UST-WATER
Associated Lab Samples: 60112337003

METHOD BLANK: 932484 Matrix: Water
Associated Lab Samples: 60112337003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	1.0	12/28/11 16:34	
Ethylbenzene	ug/L	ND	1.0	12/28/11 16:34	
Toluene	ug/L	ND	1.0	12/28/11 16:34	
Xylene (Total)	ug/L	ND	3.0	12/28/11 16:34	
1,2-Dichloroethane-d4 (S)	%	116	82-119	12/28/11 16:34	
4-Bromofluorobenzene (S)	%	92	87-113	12/28/11 16:34	
Dibromofluoromethane (S)	%	106	86-112	12/28/11 16:34	
Toluene-d8 (S)	%	97	90-110	12/28/11 16:34	

LABORATORY CONTROL SAMPLE: 932485

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	19.8	99	82-117	
Ethylbenzene	ug/L	20	18.8	94	79-121	
Toluene	ug/L	20	20.6	103	80-120	
Xylene (Total)	ug/L	60	58.8	98	79-120	
1,2-Dichloroethane-d4 (S)	%			114	82-119	
4-Bromofluorobenzene (S)	%			95	87-113	
Dibromofluoromethane (S)	%			107	86-112	
Toluene-d8 (S)	%			108	90-110	

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Lenexa, KS 66219
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QUALITY CONTROL DATA

Project: FLORA VISTA NO. 1 (074926)
Pace Project No.: 60112337

QC Batch: WETA/18800 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 60112337001, 60112337002, 60112337003, 60112337004

METHOD BLANK: 932563 Matrix: Water
Associated Lab Samples: 60112337001, 60112337002, 60112337003, 60112337004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	ND	1.0	12/29/11 00:06	

LABORATORY CONTROL SAMPLE: 932564

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	5	4.9	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 932565 932566

Parameter	Units	60112253001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	95.8	50	50	144	146	97	100	61-119	1	10	

MATRIX SPIKE SAMPLE: 932567

Parameter	Units	60112362006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	186	100	289	104	61-119	

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QUALIFIERS

Project: FLORA VISTA NO. 1 (074926)
Pace Project No.: 60112337

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

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

BATCH QUALIFIERS

Batch: MSV/42673

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: MSV/42739

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: MSV/42749

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

B	Analyte was detected in the associated method blank.
P2	Re-extraction or re-analysis could not be performed due to insufficient sample amount.
S0	Surrogate recovery outside laboratory control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: FLORA VISTA NO. 1 (074926)
Pace Project No.: 60112337

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60112337001	**GW-074926-121411-CB-MW-1**	EPA 3010	MPRP/16530	EPA 6010	ICP/14221
60112337002	**GW-074926-121411-CB-MW-2**	EPA 3010	MPRP/16530	EPA 6010	ICP/14221
60112337003	**GW-074926-121411-CB-MW-3**	EPA 3010	MPRP/16530	EPA 6010	ICP/14221
60112337004	**GW-074926-121411-CB-MW-4**	EPA 3010	MPRP/16530	EPA 6010	ICP/14221
60112337001	**GW-074926-121411-CB-MW-1**	EPA 8260	MSV/42673		
60112337001	**GW-074926-121411-CB-MW-1**	EPA 8260	MSV/42739		
60112337002	**GW-074926-121411-CB-MW-2**	EPA 8260	MSV/42673		
60112337003	**GW-074926-121411-CB-MW-3**	EPA 8260	MSV/42749		
60112337004	**GW-074926-121411-CB-MW-4**	EPA 8260	MSV/42673		
60112337005	**GW-074926-121411-CB-DUP**	EPA 8260	MSV/42673		
60112337006	**TB-074926-121411-TB1**	EPA 8260	MSV/42673		
60112337001	**GW-074926-121411-CB-MW-1**	EPA 300.0	WETA/18800		
60112337002	**GW-074926-121411-CB-MW-2**	EPA 300.0	WETA/18800		
60112337003	**GW-074926-121411-CB-MW-3**	EPA 300.0	WETA/18800		
60112337004	**GW-074926-121411-CB-MW-4**	EPA 300.0	WETA/18800		

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

Section A Required Client Information:

Company:	CRA
Address:	6121 Indian School Rd NE, Ste 200, Albequerque, NM 87110
Email To:	cmathews@craworld.com
Phone:	(505)884-0672
Fax:	(505)884-4932
Requested Due Date/TAT:	standard

Section B Required Project Information:

Report To:	Christine Mathews
Copy To:	Kelly Blanchard, Angela Bown
Purchase Order No.:	4515860224
Project Name:	Flora Vista No. 1
Project Number:	074926

Section C Invoice Information:

Attention:	ENFOS
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	Alice Tracy
Pace Profile #:	5514, 5

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☒ OTHER NMOCD

Site Location STATE: NM

Section D Required Client Information

Valid Matrix Codes: DRINKING WATER DW; WATER WT; WASTE WATER WW; PRODUCT P; SOIL/SOLID SL; OIL OL; WIPE WP; AIR AR; OTHER OT; TISSUE TS

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

Pace Project No./ Lab I.D.: 60112337

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test	8260 BTEX	6010 Dissolved Fe & Mn	300.0 Sulfate	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	GW-074926-121411-CB-MW-1	WT	G			12.14.11	1510		5	X		X	X						X	X	X		BP3U BP3N 3(DG9H) 001
2	GW-074926-121411-CB-MW-2	WT	G			12.14.11	1615		5	X		X	X						X	X	X		002
3	GW-074926-121411-CB-MW-3	WT	G			12.14.11	1630		5	X		X	X						X	X	X		003
4	GW-074926-121411-CB-MW-4	WT	G			12.14.11	1525		5	X		X	X						X	X	X		004
5	GW-074926-121411-CB-DUP	WT	G			12.14.11	1530		3				X						X				005
6	TB-074926-121411-TB1	WT				12.15.11	0900		3				X						X				006
7																							
8																							
9																							
10																							
11																							
12																							

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Need MDLs on report - J-flag	Jason Ploss / CRA	12.15.11	0930	[signature]	12/16/11	0900	2.1	Y	Y	Y
Metals container filtered in field										
							Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jason Ploss

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM/DD/YY): 12/15/11

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.08, 12-Oct-2007

Sample Condition Upon Receipt

Pace Analytical® www.pacelabs.com

Client Name: COP CRA NM Project # 60412337

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other _____

Tracking #: 8986 3811 3882 Pace Shipping Label Used? ☐ Yes ☐ No

Custody Seal on Cooler/Box Present: ☑ Yes ☐ No Seals intact: ☑ Yes ☐ No

Optional
Proj. Due Date: 12/29/11
Proj. Name:

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ Foam ☐ None ☐ Other _____

Thermometer Used: T-191 / T-194 Type of Ice: Wet Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature: 2.1

Temperature should be above freezing to 6°C

Date and Initials of person examining contents: 12/16/11 hy

		Comments:
Chain of Custody present:	☑Yes ☐No ☐N/A	1.
Chain of Custody filled out:	☑Yes ☐No ☐N/A	2.
Chain of Custody relinquished:	☑Yes ☐No ☐N/A	3.
Sampler name & signature on COC:	☑Yes ☐No ☐N/A	4.
Samples arrived within holding time:	☑Yes ☐No ☐N/A	5.
Short Hold Time analyses (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time requested:	☐Yes ☑No ☐N/A	7.
Sufficient volume:	☑Yes ☐No ☐N/A	8.
Correct containers used:	☑Yes ☐No ☐N/A	9.
-Pace containers used:	☑Yes ☐No ☐N/A	
Containers intact:	☑Yes ☐No ☐N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	☐Yes ☐No ☑N/A	11.
Filtered volume received for dissolved tests	☐Yes ☐No ☑N/A	12.
Sample labels match COC:	☑Yes ☐No ☐N/A	13.
-Includes date/time/ID/analyses Matrix: WT		
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	14.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics	☑Yes ☐No	Initial when completed: hy Lot # of added preservative:
Trip Blank present:	☐Yes ☐No ☐N/A	15.
Pace Trip Blank lot # (if purchased):		
Headspace in VOA vials (>6mm):	☐Yes ☑No ☐N/A	16.
Project sampled in USDA Regulated Area:	☐Yes ☐No ☑N/A	17. List State: hy

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: 12/19/11

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

F-KS-C-003-Rev.05, 19February2010