3R - 434

APR 2010
GWMR

06/10/2011

3R 454

TETRA TECH, INC.

6121 Indian School Rd. NE Suite 200
Albuquerque, NM 87110
(505) 237-8440

June 10, 2011

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

RE: ConocoPhillips Company Faye Burdette No. 1 – April 2010 Groundwater Monitoring Report
San Juan County, New Mexico

Dear Mr. von Gonten:

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

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

Sincerely,

Kelly E. Blanchard

Kelly E. Blanchard
Project Manager/Geologist

Enclosures (1)

Cc: Brandon Powell, NMOCD (hardcopy)
Terry Lauck, ConocoPhillips Company (electronic)

QUARTERLY GROUNDWATER MONITORING REPORT APRIL 2010 SAMPLING EVENT

CONOCOPHILLIPS COMPANY FAYE BURDETTE NO. 1 AZTEC, NEW MEXICO

API NO. 30-045-09725

Prepared for:

ConocoPhillips

420 South Keeler Avenue
Bartlesville, OK 74004

Prepared by:

TETRA TECH, INC.

6121 Indian School Rd. NE Suite 200
Albuquerque, NM 87110
Tetra Tech Project No. 9690127.100

July 2010

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QUARTERLY GROUNDWATER MONITORING REPORT CONOCOPHILLIPS FAYE BURDETTE NO. 1, AZTEC, NEW MEXICO

1.0 INTRODUCTION

This report presents the results of quarterly groundwater monitoring completed by Tetra Tech, Inc. (Tetra Tech) on April 1, 2010, at the ConocoPhillips Company Faye Burdette No. 1 natural gas well site located on private land in Aztec, New Mexico (Site). This event represents the seventh quarter of groundwater sampling conducted by Tetra Tech at the Site.

The Site is located near the intersection of Highway 550 and Pioneer Avenue in Aztec, NM. The Site consists of a gas production well head and associated equipment and installations. The location and general features of the Site are presented as **Figures 1** and **2**, respectively. A generalized cross section of the site is included as **Figure 3**.

1.1 Site History

The Faye Burdette No. 1 wellhead was spudded by Southwest Production Company in April 1962. Ownership was transferred to Beta Development Company in September 1963 and again to Mesa Operating Limited Partnership in August 1988. Conoco Inc., predecessor to ConocoPhillips Company, acquired the well in July 1991. A release occurred in May 2007 from a rusted portion of the on-site produced water tank. Evidence of pre-existing hydrocarbon impacted soil was encountered during excavation; possibly related to a former earthen pit. Temporary Monitoring Well, MW-1, was drilled by Envirotech in September 2007. Groundwater samples from MW-1 indicate that benzene, toluene, ethylbenzene, and xylenes (BTEX) were below the New Mexico Water Quality Control Commission (NMWQCC) standards. Subsequently, Envirotech recommended plugging and abandoning MW-1 (Envirotech, 2007).

To complete additional investigation and sampling of the Site, Monitor Wells MW-2, MW-3, and MW-4 were installed under the supervision of Tetra Tech during January 2009 at the request of the New Mexico Oil Conservation Division (OCD). All four monitor wells have been incorporated into a quarterly monitoring program that was initiated on January 29, 2009. Site history is outlined in **Table 1**.

2.0 METHODOLOGY AND RESULTS

2.1 Groundwater Monitoring Methodology

Groundwater Elevation Measurements

On April 1, 2010, groundwater elevation measurements were recorded in Monitor Wells MW-1, MW-2, MW-3, and MW-4 using a dual interface probe. Groundwater elevations are detailed in **Table 2**. A groundwater elevation contour map is presented as **Figure 4.** Based on April 2010 monitoring event

data, groundwater flow is to the northwest and is consistent with historic records at this site. The Animas River is approximately 1/3 mile from the site and flows west.

Groundwater sampling

Monitor Wells MW-1, MW-2, MW-3 and MW-4 were sampled, representing the seventh round of consecutive quarterly groundwater monitoring at the Site. Approximately three well volumes were purged from each monitor well with a dedicated polyethylene 1.5-inch disposable bailer. Purge water was placed in the on site produced water tank. Groundwater samples were placed in laboratory prepared bottles, packed on ice, and shipped under chain of custody documentation to Southern Petroleum Laboratories in Houston, Texas. The samples were analyzed for the presence of BTEX in accordance with Environmental Protection Agency (EPA) Method 8260B and dissolved manganese according to EPA Method 6010B. Groundwater sampling field forms are included as **Appendix A**.

2.2 Groundwater Sampling Analytical Results

Groundwater quality samples collected during the April 1, 2010 monitoring event indicate that Monitor Well MW-1 exceeds NMWQCC standard for manganese at 1.71 milligrams per liter (mg/L). The NMWQCC standard for manganese is 0.2 mg/L. BTEX concentrations were below laboratory detection limits for all monitor wells. **Table 3** summarizes the laboratory analytical results for the April 2010 groundwater sampling event. The corresponding laboratory analysis report is included in **Appendix B**.

3.0 CONCLUSIONS

Tetra Tech recommends continued quarterly groundwater sampling at the Site in order to provide sufficient data for Site closure. Site closure will be requested when groundwater quality results begin to indicate that all constituents of concern are consistently below NMWQCC groundwater quality standards; or are representative of background conditions at the Site. Please contact Kelly Blanchard at 505-237-8440 or kelly.blanchard@tetratech.com if you have any questions or require additional information.

REFERENCES

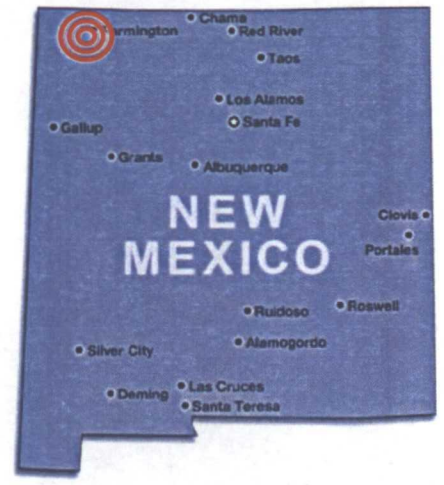
Envirotech, Inc. (2007). *Drilling and Groundwater Sampling Report at Faye Burdette No. 1 Aztec, NM.* Prepared for ConocoPhillips, dated December 12, 2007.

FIGURES

1. Site Location Map
2. Site Layout Map
3. Geologic Cross Section
4. Groundwater Contour Map – April 2010

ConcocoPhillips High Resolution Aerial Imagery 2008

FIGURE 1.
Site Location Map
CONOCOPHILLIPS COMPANY
FAYE BURDETTE NO.1 GAS
PRODUCTION WELL SITE
Sec 9, T30N, R11W
Aztec, New Mexico



Approximate ConocoPhillips Faye Burdette No.1 Site location

N

TETRA TECH, INC.

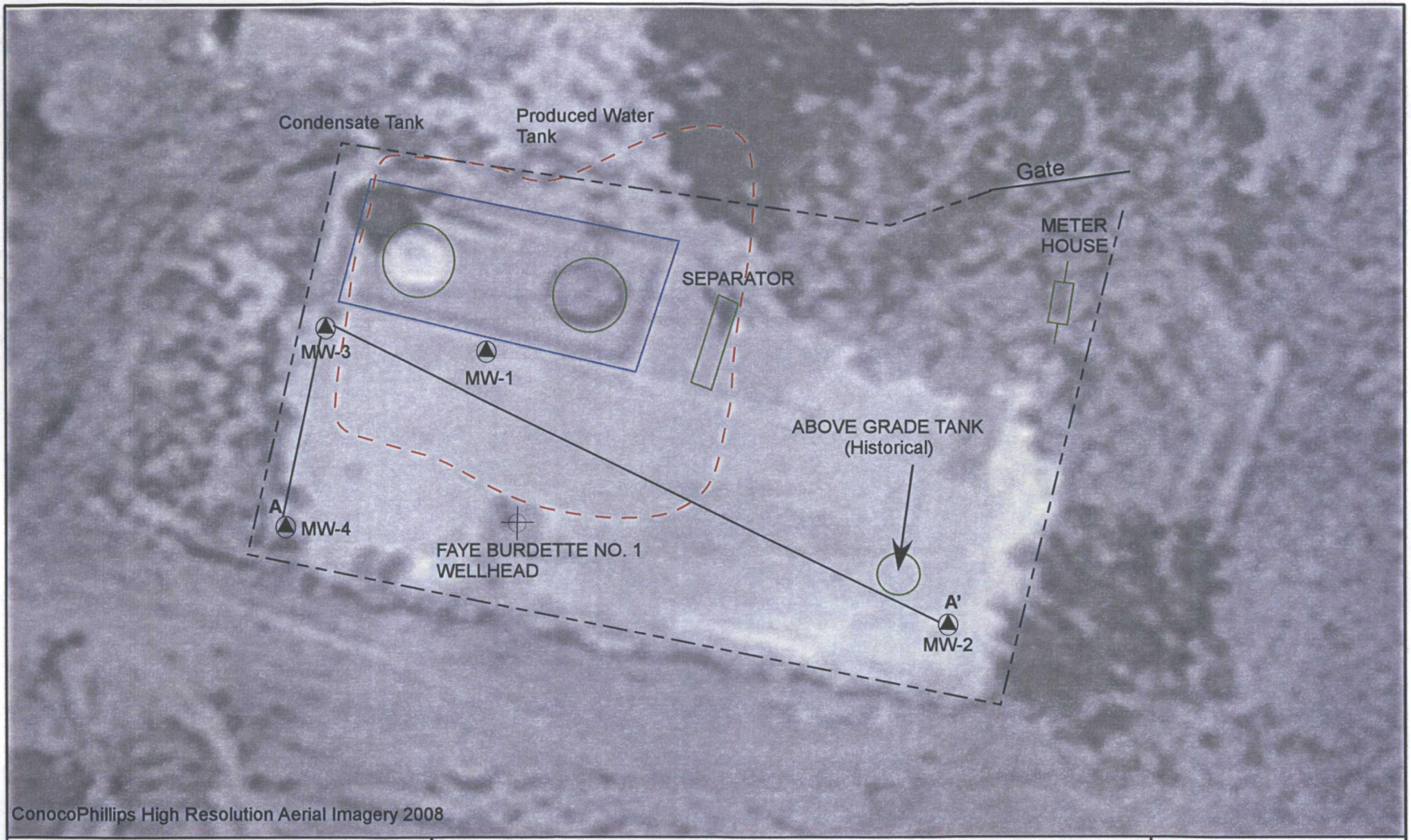


FIGURE 2.
Site Layout Map
CONOCOPHILLIPS COMPANY
FAYE BURDETTE NO.1 GAS PRODUCTION WELL SITE
Sec 9, T30N, R11W
Aztec, New Mexico

LEGEND

- MONITORING WELL
- BERM
- FENCE LINE
- EQUIPMENT
- APPROXIMATE 2007 EXCAVATION AREA

0 25 50
FEET

N

TETRA TECH, INC.

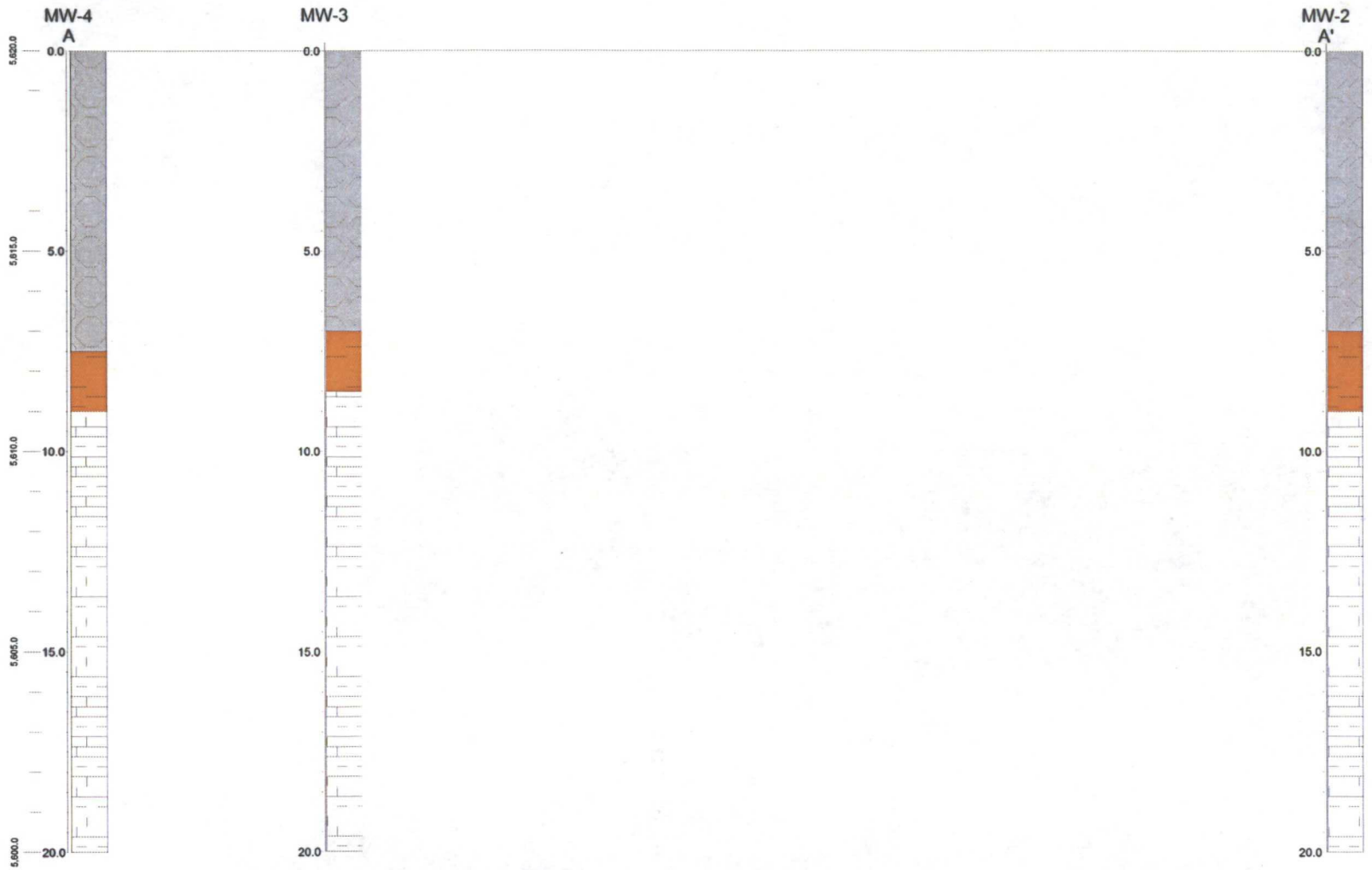


FIGURE 3:
Geologic Cross Section
CONOCOPHILLIPS COMPANY
FAYE BURDETTE NO. 1 GAS
PRODUCTION WELL SITE
Sec 9, T30N, R11W
San Juan County, New Mexico

LEGEND

- Medium grained sand
- Silty Sand
- Undefined

TETRA TECH, INC.

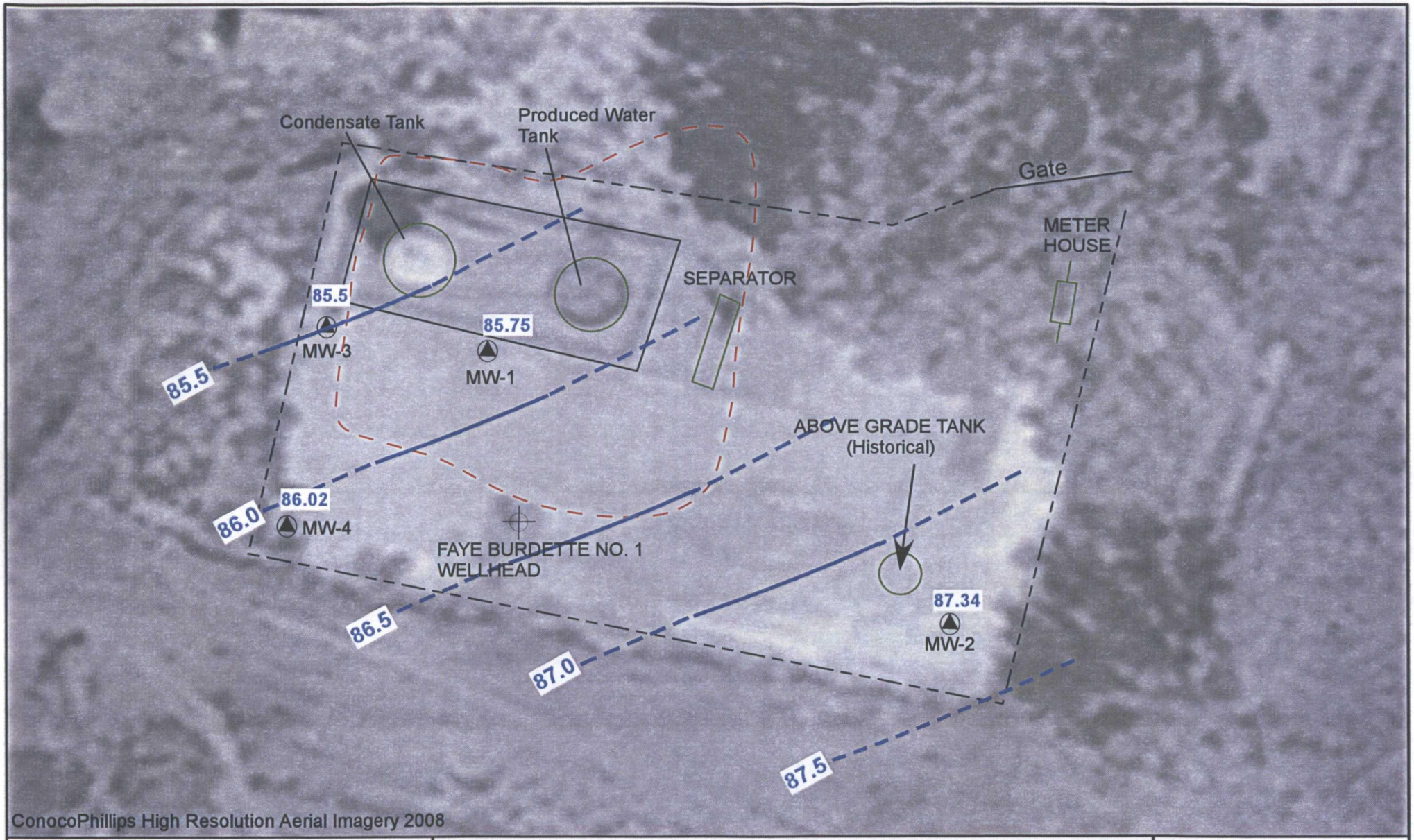


Figure 4
Groundwater Elevation Contour Map - April 2010
CONOCOPHILLIPS COMPANY
FAYE BURDETTE NO. 1 GAS PRODUCTION WELL SITE
Sec 9, T30N, R11W
Aztec, New Mexico

LEGEND

- MONITORING WELL
- GROUNDWATER ELEVATION CONTOUR (dashed where inferred)
- BERM
- FENCE LINE
- EQUIPMENT
- APPROXIMATE 2007 EXCAVATION AREA

0 25 50
FEET

N

TETRA TECH, INC.

TABLES

Table 1. Site History Timeline - ConocoPhillips Company Faye Burdette No. 1

DATE	ACTIVITY
29-Apr-1962	Well was spudded by Southwest Production Company.
1-Sep-1963	Ownership of well transferred to Beta Development Company.
21-Feb-1983	NMOCD inspection noted a leaky 2-inch valve on a storage tank.
15-Aug-1988	Ownership of well transferred to Mesa Operating Limited Partnership.
1-Jul-1991	Ownership of well transferred to Conoco Inc.
24-May-2007	A small (<25 gallons) release occurred from the produced water tank after a rusty spot was scraped off. Follow-up excavation encountered evidence of pre-existing hydrocarbon-impacted soil, apparently related to a former earthen pit beneath the tank.
Jul-07	Contaminated soil excavated from the Site. Two ground water samples were obtained at the time of this excavation, and one (1) of these samples was found to contain total xylenes above the State of New Mexico drinking water standard.
26-Sep-07	Ground water monitoring well installed to a depth of 15 feet below ground surface (bgs) by Envirotech Inc. of Farmington, NM (Envirotech). A soil sample obtained from the well boring was analyzed for benzene, BTEX and total petroleum hydrocarbons (TPH). Results were below NMOCD regulations of 10 parts per million (ppm), 50 ppm, and 100 ppm, respectively.
	A ground water sample was collected from the temporary monitoring well (MW-1) and analyzed for BTEX; results were below the State of New Mexico drinking water standard for this constituent. Depth to ground water recorded at 9.5 feet bgs.
Nov-07	Envirotech report recommends plugging and abandonment of the temporary ground water monitoring well and a no further action determination for the Site (Envirotech, 2007).
Apr-08	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.
22-Oct-08	1st quarter sampling of MW-1 by Tetra Tech.
Jan-09	WDC installed additional Monitoring Wells MW-2, MW-3 and MW-4 under the supervision of Tetra Tech.
29-Jan-09	Second quarter sampling of MW-1 by Tetra Tech. Initial sampling of Monitoring Wells MW-2, MW-3, and MW-4.
31-Mar-09	Third consecutive quarter of sampling MW-1 by Tetra Tech. Second quarter sampling of Monitoring Wells MW-2, MW-3, and MW-4.
17-Jun-09	Fourth consecutive quarter of sampling MW-1 by Tetra Tech. Third quarter of sampling Monitoring Wells MW-2, MW-3, and MW-4.
22-Sep-09	Fifth consecutive quarter of sampling MW-1 by Tetra Tech. Fourth consecutive quarter of sampling Monitoring Wells MW-2, MW-3, and MW-4. Sampling for total metals discontinued as requesting by NMOCD. Sampling for select dissolved metals based on total metals analyses begins since standards are based on these.
16-Dec-09	Sixth consecutive quarter sampling of MW-1 by Tetra Tech. Fifth consecutive quarter sampling of Monitoring Wells MW-2, MW-3, and MW-4 for BTEX and dissolved manganese only.
1-Apr-10	Seventh consecutive quarter sampling of MW-1 by Tetra Tech. Sixth consecutive quarter sampling of Monitoring Wells MW-2, MW-3, and MW-4 for BTEX and dissolved manganese only.

Table 2. Groundwater Elevation Data Summary - ConocoPhillips Company Faye Burdette No. 1

Well ID	Total Depth (ft bgs)	Screen Interval (ft)	*Elevation (ft) (TOC)	Date Measured	Depth to Groundwater (ft below TOC)	Relative Groundwater Elevation
MW-1	17.52	4.8 - 14.8	97.66	10/22/2008	10.91	86.75
				1/29/2009	11.72	85.94
				3/31/2009	11.88	85.78
				6/17/2009	11.24	86.42
				9/22/2009	10.87	86.79
				12/16/2009	11.56	86.1
				4/1/2010	11.91	85.75
MW-2	19.45	5.0 - 20.0	98.54	1/29/2009	10.91	87.63
				3/31/2009	11.12	87.42
				6/17/2009	10.48	88.06
				9/22/2009	10.76	87.78
				12/16/2009	10.61	87.93
				4/1/2010	11.2	87.34
MW-3	22.96	5.0 - 20.0	97.16	1/29/2009	11.44	85.72
				3/31/2009	11.62	85.54
				6/17/2009	10.97	86.19
				9/22/2009	10.57	86.59
				12/16/2009	11.32	85.84
				4/1/2010	11.66	85.50
MW-4	22.28	5.0 - 20.0	97.06	1/29/2009	11.02	86.04
				3/31/2009	11.18	85.88
				6/17/2009	10.59	86.47
				9/22/2009	10.16	86.90
				12/16/2009	10.87	86.19
				4/1/2010	11.04	86.02

ft = Feet

TOC = Top of casing

bgs = below ground surface

* Elevation relative to an arbitrary point set at 100 feet

Table 3. Groundwater Laboratory Analytical Results - ConocoPhillips Company Faye Burdette No. 1

Well ID	Date	Aluminum (mg/L)	Iron (mg/L)	Manganese (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
MW-1	10/22/2008	NA	3.74*	2.09*	< 5	< 5	< 5	< 5
	1/29/2009	2.14*	2.77*	1.41*	< 5	< 5	< 5	< 5
	3/31/2009	3.64*	4.83*	1.24*	< 5	< 5	< 5	< 5
	6/17/2009	2.5*	5.58*	2.47*	< 5	< 5	< 5	< 5
	9/22/2009	0.443	0.445	**1.44**	<1	<1	<1	<1
	12/16/2009	NA	NA	**0.732**	<1	<1	<1	<1
	4/1/2010	NA	NA	**1.71**	<1	<1	<1	<1
MW-1 Duplicate	1/29/2009	NA	NA	NA	< 5	< 5	< 5	< 5
	3/31/2009	NA	NA	NA	< 5	< 5	< 5	< 5
	6/17/2009	2.83	6.13*	2.52*	< 5	< 5	< 5	< 5
	9/22/2009	NA	NA	NA	<1	<1	<1	<1
	12/16/2009	NA	NA	NA	<1	<1	<1	<1
	4/1/2010	NA	NA	NA	<1	<1	<1	<1
MW-2	1/29/2009	4.15*	3.15*	1.79*	< 5	< 5	< 5	< 5
	3/31/2009	1.17*	1.02*	0.326*	< 5	< 5	< 5	< 5
	6/17/2009	3.4*	2.8*	1.37*	< 5	< 5	< 5	< 5
	9/22/2009	<0.1	<0.02	0.0264	<1	<1	<1	<1
	12/16/2009	NA	NA	0.0654	<1	<1	<1	<1
	4/1/2010	NA	NA	0.16	<1	<1	<1	<1
MW-3	1/29/2009	1.82*	2.24*	0.374*	< 5	< 5	< 5	< 5
	3/31/2009	1.64*	1.91*	0.271*	< 5	< 5	< 5	< 5
	6/17/2009	1.68*	2.14*	0.628*	< 5	< 5	< 5	< 5
	9/22/2009	<0.1	0.0291	0.0201	<1	<1	<1	<1
	12/16/2009	NA	NA	0.0607	<1	<1	<1	<1
	4/1/2010	NA	NA	0.0232	<1	<1	<1	<1
MW-4	1/29/2009	6.92*	3.17*	4.15*	< 5	< 5	< 5	< 5
	3/31/2009	4.21*	3.22*	1.45*	< 5	< 5	< 5	< 5
	6/17/2009	2.43*	2.05*	0.854*	< 5	< 5	< 5	< 5
	9/22/2009	<0.1	0.108	**0.476**	<1	<1	<1	<1
	12/16/2009	NA	NA	0.0149	<1	<1	<1	<1
	4/1/2010	NA	NA	< 0.005	<1	<1	<1	<1
Method		*SW6010B*	*SW6010B*	*SW6010B*	*8260B*	*8260B*	*8260B*	*8260B*
NMWQCC Groundwater Quality Standard		**5.0**	**1.0**	**0.2**	**10**	**750**	**750**	**620**

Notes:
MW = monitoring well
NMWQCC = New Mexico Water Quality Control Commission
Constituents in **BOLD** exceed NMWQCC groundwater quality standards
mg/L = milligrams per liter
µg/L = micrograms per liter
NA = not analyzed
<5 = result below laboratory detection limit
Total Metals analysis run for all samples through June 2009; September 2009 dissolved metals analysis run in order to compare to standards
* = total metals analysis result (NMWQCC standards do not apply)

APPENDIX A

TETRA TECH, INC.

WATER SAMPLING FIELD FORM

Project Name Faye Burdette No. 1 Page 1 of 4

Project No.

Site Location Aztec, NM

Site/Well No. ~~MW-1~~ MW-2 Coded/ Replicate No. Date ~~4-1-10~~ 4-5-10

Weather Time Sampling Began 1020 Time Sampling Completed 1030

EVACUATION DATA

Description of Measuring Point (MP) Top of Casing

Height of MP Above/Below Land Surface MP Elevation

Total Sounded Depth of Well Below MP ~~17.52~~ 19.45 Water-Level Elevation

Held Depth to Water Below MP 11.80 Diameter of Casing 2"

Wet Water Column in Well 8.25 Gallons Pumped/Bailed Prior to Sampling 4 gallons

Gallons per Foot 0.16

Gallons in Well 1.32x3 =3.96 Sampling Pump Intake Setting (feet below land surface)

Purging Equipment Purge pump / Bailer

SAMPLING DATA/FIELD PARAMETERS

Time	Temperature (°C)	pH	Conductivity (µS/cm³)	TDS (g/L)	DO (mg/L)	ORP (mV)	DO %
1025	12.46	7.33	1157	.752	8.15	-37.3	69.0
1026	12.51	7.32	1152	.749	4.20	-41.6	39.0
1028	12.50	7.29	1153	.750	3.80	-42.6	35.5

Sampling Equipment Purge Pump/Bailer

Constituents Sampled	Container Description	Preservative
BTEX	3 40mL VOA's	HCl
Dissolved Mn	16 oz Plastic	None

Remarks

Sampling Personnel Christine Mathews / Kelly Blanchard

Well Casing Volumes

Gal./ft.							
	1 ¼" = 0.077	2" = 0.16	3" = 0.37	4" = 0.65
	1 ½" = 0.10	2 ½" = 0.24	3" ½ = 0.50	6" = 1.46

TETRA TECH, INC.

WATER SAMPLING FIELD FORM

Project Name Faye Burdette No. 1 Page 2 of 4

Project No.

Site Location Aztec, NM

Site/Well No. ~~MW-2~~ MW-1 Coded/ Replicate No. 1135 Date 4-1-10

Weather cloudy, cold Time Sampling Began 11:15 Time Sampling Completed ~~1130~~ 1135

EVACUATION DATA

Description of Measuring Point (MP) Top of Casing

Height of MP Above/Below Land Surface MP Elevation

Total Sounded Depth of Well Below MP ~~19.45~~ 17.92 Water-Level Elevation

Held Depth to Water Below MP ~~11.20~~ 11.91 Diameter of Casing 2"

Wet Water Column in Well ~~8.25~~ 6.01 Gallons Pumped/Bailed Prior to Sampling

Gallons per Foot 0.16

Gallons in Well 0.96 ~~1.32~~ x3 = ~~3.96~~ 2.88

Sampling Pump Intake (feet below land

Purging Equipment Purge pump / Bailer

SAMPLING DATA/FIELD PARAMETERS

Time	Temperature (°C)	pH	Conductivity (µS/cm³)	TDS (g/L)	DO (mg/L)	ORP (mV)	DO %
11:22	11.07	7.00	1422	0.925	2.08	-46.7	19.4
11:23	11.05	7.02	1418	0.921	1.68	-50.1	14.6
11:25	11.03	7.02	1425	0.926	1.47	-51.7	13.4

Sampling Equipment Purge Pump/Bailer

Constituents Sampled	Container Description	Preservative
BTEX	3 40mL VOA's	HCl
Dissolved Mn	16 oz Plastic	None

Remarks

Sampling Personnel

Well Casing Volumes

Gal./ft.	1 ¼" = 0.077	2" = 0.16	3" = 0.37	4" = 0.65
	1 ½" = 0.10	2 ½" = 0.24	3" ½ = 0.50	6" = 1.46

TETRA TECH, INC.

WATER SAMPLING FIELD FORM

Project Name: Faye Burdette No. 1 — Page 3 of 4

Project No.:

Site Location: Aztec, NM

Site/Well No.: MW-3 — Coded/ Replicate No.: — Date: 4-1-10

Weather: cloudy, cold — Time Sampling Began: 1057 — Time Sampling Completed: 1110

EVACUATION DATA

Description of Measuring Point (MP): Top of Casing

Height of MP Above/Below Land Surface: — MP Elevation:

Total Sounded Depth of Well Below MP: 22.96 — Water-Level Elevation:

Held: — Depth to Water Below MP: 11.66 — Diameter of Casing: 2"

Wet: — Water Column in Well: 11.3 — Gallons Pumped/Bailed Prior to Sampling: 5.5 gallons

Gallons per Foot: 0.16

Gallons in Well: 1.808 x 3 = 5.42 — Sampling Pump Intake Setting (feet below land surface):

Purging Equipment: Purge pump / Bailer

SAMPLING DATA/FIELD PARAMETERS

Time	Temperature (°C)	pH	Conductivity (µS/cm³)	TDS (g/L)	DO (mg/L)	ORP (mV)	DO %
1105	12.61	7.16	1280	.832	2.38	-47.1	22.0
1106	12.49	7.14	1282	.833	1.91	-48.8	17.5
1108	12.31	7.13	1282	.834	2.55	-49.6	23.1

Sampling Equipment: Purge Pump/Bailer

Constituents Sampled	Container Description	Preservative
BTEX	3 40mL VOA's	HCl
Dissolved Mn	16 oz Plastic	None

Remarks:

Sampling Personnel: Christine Matheus & Kelly Blanchard

Well Casing Volumes

Gal./ft.							
	1 ¼" = 0.077	2" = 0.16	3" = 0.37	4" = 0.65
	1 ½" = 0.10	2 ½" = 0.24	3" ½ = 0.50	6" = 1.46

TETRA TECH, INC.

WATER SAMPLING FIELD FORM

Project Name Faye Burdette No. 1 Page 4 of 4

Project No.

Site Location Aztec, NM

Site/Well No. MW-4 Coded/ Replicate No. — Date ~~3~~ 4-1-10

Weather Snow, Cloudy, Cold. Time Sampling Began 1039 Time Sampling Completed 1050

EVACUATION DATA

Description of Measuring Point (MP) Top of Casing

Height of MP Above/Below Land Surface MP Elevation

Total Sounded Depth of Well Below MP 22.28 Water-Level Elevation

Held ____ Depth to Water Below MP 11.24 Diameter of Casing 2"

Wet ____ Water Column in Well 11.04 Gallons Pumped/Bailed Prior to Sampling 5.5

Gallons per Foot 0.16

Gallons in Well 1.76 X 3 = 5.28 Sampling Pump Intake Setting (feet below land surface) —

Purging Equipment Purge pump / Bailer

SAMPLING DATA/FIELD PARAMETERS

Time	Temperature (°C)	pH	Conductivity (µS/cm³)	TDS (g/L)	DO (mg/L)	ORP (mV)	DO %
1044	10.89	7.27	1431	0.930	3.71	-37.2	31.1
1046	11.92	7.21	1428	0.928	2.12	-42.4	19.8
1048	11.89	7.21	1429	0.929	2.13	-44.3	19.9

Sampling Equipment Purge Pump/Bailer

Constituents Sampled	Container Description	Preservative
BTEX	3 40mL VOA's	HCl
Dissolved Mn	16 oz Plastic	None

Remarks

Sampling Personnel K. Blanchard, C. Mathews

Well Casing Volumes

Gal./ft.	1 ¼" = 0.077	2" = 0.16	3" = 0.37	4" = 0.65
	1 ½" = 0.10	2 ½" = 0.24	3" ½ = 0.50	6" = 1.46

APPENDIX B

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

Certificate of Analysis

April 15, 2010

Workorder: H10040049

Kelly Blanchard
Tetra Tech
6121 Indian School Road NE
Suite 200
Albuquerque, NM 87110

Project: Faye Burdette No.1

Project Number: Faye Burdette No.1

Site: Albuquerque, NM

PO Number: ENFOS#4510713617

NELAC Cert. No.: T104704205-09-1

This Report Contains A Total Of 17 Pages

Excluding Any Attachments

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

Certificate of Analysis

April 15, 2010

Workorder: H10040049

Kelly Blanchard
Tetra Tech
6121 Indian School Road NE
Suite 200
Albuquerque, NM 87110

Project: Faye Burdette No.1

Project Number: Faye Burdette No.1

Site: Albuquerque, NM

PO Number: ENFOS#4510713617

NELAC Cert. No.: T104704205-09-1

I. SAMPLE RECEIPT:

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

II: ANALYSES AND EXCEPTIONS:

There were no exceptions noted.

III. GENERAL REPORTING COMMENTS:

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

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

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

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

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

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

SPL Inc.
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Certificate of Analysis

April 15, 2010

Workorder: H10040049

Kelly Blanchard
Tetra Tech
6121 Indian School Road NE
Suite 200
Albuquerque, NM 87110

Project: Faye Burdette No.1

Project Number: Faye Burdette No.1

Site: Albuquerque, NM

PO Number: ENFOS#4510713617

NELAC Cert. No.: T104704205-09-1

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

Erica Cardenas, Senior Project Manager

Enclosures

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SAMPLE SUMMARY

Workorder: H10040049 : Faye Burdette No.1 | Project Number: Faye Burdette No.1

Lab ID	Sample ID	Matrix	COC ID	Date/Time Collected	Date/Time Received
H10040049001	MW-1	Water		4/1/2010 11:35	4/2/2010 09:15
H10040049002	MW-2	Water		4/1/2010 10:30	4/2/2010 09:15
H10040049003	MW-3	Water		4/1/2010 11:10	4/2/2010 09:15
H10040049004	MW-4	Water		4/1/2010 10:50	4/2/2010 09:15
H10040049005	Trip Blank	Water		4/1/2010 00:00	4/2/2010 09:15
H10040049006	Duplicate	Water		4/1/2010 11:25	4/2/2010 09:15

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ANALYTICAL RESULTS

Workorder: H10040049 : Faye Burdette No.1 | Project Number: Faye Burdette No.1

Lab ID: **H10040049001** | Date/Time Received: 4/2/2010 09:15 | Matrix: Water

Sample ID: **MW-1** | Date/Time Collected: 4/1/2010 11:35

ICP DISSOLVED METALS

Analysis Desc: SW-846 6010B | Preparation Batches: Batch: 1638 SW-846 3010A on 04/05/2010 17:00 by R_V | Analytical Batches: Batch: 1334 SW-846 6010B on 04/11/2010 16:29 by EBG

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Manganese	1.71		0.00500	0.000300	1		1638	1334

VOLATILES

Analysis Desc: SW-846 8260B | SW-846 5030Analytical Batches: Batch: 1745 SW-846 8260B on 04/13/2010 03:42 by LKT

Parameters	Results ug/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Benzene	ND		1.0	0.10	1			1745
Ethylbenzene	ND		1.0	0.15	1			1745
Toluene	ND		1.0	0.29	1			1745
m,p-Xylene	ND		1.0	0.18	1			1745
o-Xylene	ND		1.0	0.13	1			1745
Xylenes, Total	ND		1.0	0.13	1			1745
4-Bromofluorobenzene (S)	96.5 %		74-125		1			1745
1,2-Dichloroethane-d4 (S)	100 %		70-130		1			1745
Toluene-d8 (S)	92.4 %		82-118		1			1745

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ANALYTICAL RESULTS

Workorder: H10040049 : Faye Burdette No.1 | Project Number: Faye Burdette No.1

Lab ID: **H10040049002** | Date/Time Received: 4/2/2010 09:15 | Matrix: Water

Sample ID: **MW-2** | Date/Time Collected: 4/1/2010 10:30

ICP DISSOLVED METALS

Analysis Desc: SW-846 6010B | Preparation Batches: Batch: 1638 SW-846 3010A on 04/05/2010 17:00 by R_V | Analytical Batches: Batch: 1334 SW-846 6010B on 04/11/2010 16:34 by EBG

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Manganese	0.160		0.00500	0.000300	1		1638	1334

VOLATILES

Analysis Desc: SW-846 8260B | SW-846 5030Analytical Batches: Batch: 1745 SW-846 8260B on 04/13/2010 04:09 by LKT

Parameters	Results ug/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Benzene	ND		1.0	0.10	1			1745
Ethylbenzene	ND		1.0	0.15	1			1745
Toluene	ND		1.0	0.29	1			1745
m,p-Xylene	ND		1.0	0.18	1			1745
o-Xylene	ND		1.0	0.13	1			1745
Xylenes, Total	ND		1.0	0.13	1			1745
4-Bromofluorobenzene (S)	95.1 %		74-125		1			1745
1,2-Dichloroethane-d4 (S)	92.3 %		70-130		1			1745
Toluene-d8 (S)	92.7 %		82-118		1			1745

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ANALYTICAL RESULTS

Workorder: H10040049 : Faye Burdette No.1 | Project Number: Faye Burdette No.1

Lab ID: **H10040049003** | Date/Time Received: 4/2/2010 09:15 | Matrix: Water

Sample ID: **MW-3** | Date/Time Collected: 4/1/2010 11:10

ICP DISSOLVED METALS

Analysis Desc: SW-846 6010B | Preparation Batches: Batch: 1638 SW-846 3010A on 04/05/2010 17:00 by R_V | Analytical Batches: Batch: 1334 SW-846 6010B on 04/11/2010 16:40 by EBG

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Manganese	0.0232		0.00500	0.000300	1		1638	1334

VOLATILES

Analysis Desc: SW-846 8260B | SW-846 5030Analytical Batches: Batch: 1745 SW-846 8260B on 04/13/2010 04:37 by LKT

Parameters	Results ug/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Benzene	ND		1.0	0.10	1			1745
Ethylbenzene	ND		1.0	0.15	1			1745
Toluene	ND		1.0	0.29	1			1745
m,p-Xylene	ND		1.0	0.18	1			1745
o-Xylene	ND		1.0	0.13	1			1745
Xylenes, Total	ND		1.0	0.13	1			1745
4-Bromofluorobenzene (S)	96.2 %		74-125		1			1745
1,2-Dichloroethane-d4 (S)	101 %		70-130		1			1745
Toluene-d8 (S)	92.2 %		82-118		1			1745

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ANALYTICAL RESULTS

Workorder: H10040049 : Faye Burdette No.1 | Project Number: Faye Burdette No.1

Lab ID: **H10040049004** | Date/Time Received: 4/2/2010 09:15 | Matrix: Water

Sample ID: **MW-4** | Date/Time Collected: 4/1/2010 10:50

ICP DISSOLVED METALS

Analysis Desc: SW-846 6010B
Preparation Batches:
Batch: 1638 SW-846 3010A on 04/05/2010 17:00 by R_V
Analytical Batches:
Batch: 1334 SW-846 6010B on 04/11/2010 16:46 by EBG

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Manganese	ND		0.00500	0.000300	1		1638	1334

VOLATILES

Analysis Desc: SW-846 8260B
SW-846 5030Analytical Batches:
Batch: 1745 SW-846 8260B on 04/13/2010 05:04 by LKT

Parameters	Results ug/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Benzene	ND		1.0	0.10	1			1745
Ethylbenzene	ND		1.0	0.15	1			1745
Toluene	ND		1.0	0.29	1			1745
m,p-Xylene	ND		1.0	0.18	1			1745
o-Xylene	ND		1.0	0.13	1			1745
Xylenes, Total	ND		1.0	0.13	1			1745
4-Bromofluorobenzene (S)	96.1 %		74-125		1			1745
1,2-Dichloroethane-d4 (S)	92.7 %		70-130		1			1745
Toluene-d8 (S)	93.4 %		82-118		1			1745

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ANALYTICAL RESULTS

Workorder: H10040049 : Faye Burdette No.1 | Project Number: Faye Burdette No.1

Lab ID: **H10040049005** | Date/Time Received: 4/2/2010 09:15 | Matrix: Water

Sample ID: **Trip Blank** | Date/Time Collected: 4/1/2010 00:00

VOLATILES

Analysis Desc: SW-846 8260B | SW-846 5030Analytical Batches:

Batch: 1745 SW-846 8260B on 04/13/2010 01:53 by LKT

Parameters	Results ug/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Benzene	ND		1.0	0.10	1			1745
Ethylbenzene	ND		1.0	0.15	1			1745
Toluene	ND		1.0	0.29	1			1745
m,p-Xylene	ND		1.0	0.18	1			1745
o-Xylene	ND		1.0	0.13	1			1745
Xylenes, Total	ND		1.0	0.13	1			1745
4-Bromofluorobenzene (S)	96.7 %		74-125		1			1745
1,2-Dichloroethane-d4 (S)	99 %		70-130		1			1745
Toluene-d8 (S)	92 %		82-118		1			1745

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ANALYTICAL RESULTS

Workorder: H10040049 : Faye Burdette No.1 | Project Number: Faye Burdette No.1

Lab ID: **H10040049006** | Date/Time Received: 4/2/2010 09:15 | Matrix: Water

Sample ID: **Duplicate** | Date/Time Collected: 4/1/2010 11:25

VOLATILES

Analysis Desc: SW-846 8260B | SW-846 5030Analytical Batches:

Batch: 1745 SW-846 8260B on 04/13/2010 02:20 by LKT

Parameters	Results ug/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Benzene	ND		1.0	0.10	1			1745
Ethylbenzene	ND		1.0	0.15	1			1745
Toluene	ND		1.0	0.29	1			1745
m,p-Xylene	ND		1.0	0.18	1			1745
o-Xylene	ND		1.0	0.13	1			1745
Xylenes, Total	ND		1.0	0.13	1			1745
4-Bromofluorobenzene (S)	98.4 %		74-125		1			1745
1,2-Dichloroethane-d4 (S)	93.2 %		70-130		1			1745
Toluene-d8 (S)	93.1 %		82-118		1			1745

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QUALITY CONTROL DATA

Workorder: H10040049 : Faye Burdette No.1 Project Number: Faye Burdette No.1

QC Batch: DIGM/1638 Analysis Method: SW-846 6010B

QC Batch Method: SW-846 3010A Preparation: 04/05/2010 17:00 by R_V

Associated Lab Samples: H10040019001, H10040019002, H10040019003, H10040019004, H10040021001, H10040021002, H10040021003, H10040021004, H10040025001, H10040025002, H10040025003, H10040049001, H10040049002, H10040049003, H10040049004, H10040050001, H10040051001, H10040051002, H10040051003, H10040051004

METHOD BLANK: 37509

Analysis Date/Time Analyst: 04/11/2010 13:44 EBG

Parameter	Units	Blank Result	Qualifiers	Reporting Limit
Manganese	mg/l	ND		0.00500

LABORATORY CONTROL SAMPLE: 37510

Analysis Date/Time Analyst: 04/11/2010 13:49 EBG

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits
Manganese	mg/l	0.10	0.1052	105	80-120

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 37507 37508 Original: H10040025002

MS Analysis Date/Time Analyst: 04/11/2010 14:00 EBG

MSD Analysis Date/Time Analyst: 04/11/2010 14:06 EBG

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
Manganese	mg/l	0.136	0.10	0.2285	0.2325	92.9	96.9	75-125	1.7	20

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

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QUALITY CONTROL DATA

Workorder: H10040049 : Faye Burdette No.1 Project Number: Faye Burdette No.1

QC Batch: MSV/1744 Analysis Method: SW-846 8260B

QC Batch Method: SW-846 5030 Preparation: 04/12/2010 00:00 by LKT

Associated Lab Samples: H10040042005 H10040049001 H10040049002 H10040049003 H10040049004 H10040049005 H10040049006

METHOD BLANK: 38947

Analysis Date/Time Analyst: 04/12/2010 22:41 LKT

Parameter	Units	Blank Result	Qualifiers	Reporting Limit
Benzene	ug/l	ND		1.0
Ethylbenzene	ug/l	ND		1.0
Toluene	ug/l	ND		1.0
m,p-Xylene	ug/l	ND		1.0
o-Xylene	ug/l	ND		1.0
Xylenes, Total	ug/l	ND		1.0
4-Bromofluorobenzene (S)	%	95.2		74-125
1,2-Dichloroethane-d4 (S)	%	91.5		70-130
Toluene-d8 (S)	%	92.2		82-118

LABORATORY CONTROL SAMPLE: 38948

Analysis Date/Time Analyst: 04/12/2010 21:47 LKT

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits
Benzene	ug/l	20	18.7	93.7	74-123
Ethylbenzene	ug/l	20	18.3	91.4	72-127
Toluene	ug/l	20	18.2	91.1	74-126
m,p-Xylene	ug/l	40	35.9	89.7	71-129
o-Xylene	ug/l	20	18.0	90.2	74-130
Xylenes, Total	ug/l	60	53.92	89.9	71-130
4-Bromofluorobenzene (S)	%			97.7	74-125
1,2-Dichloroethane-d4 (S)	%			102	70-130
Toluene-d8 (S)	%			91.2	82-118

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 38949 38950 Original: H10040049006

MS Analysis Date/Time Analyst: 04/13/2010 02:47 LKT

MSD Analysis Date/Time Analyst: 04/13/2010 03:15 LKT

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
Benzene	ug/l	ND	20	20.2	24.0	101	120	70-124	17.2	20
Ethylbenzene	ug/l	ND	20	19.3	18.7	96.4	93.5	35-175	3.0	20
Toluene	ug/l	ND	20	19.4	19.2	96.9	95.9	70-131	1.0	20

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

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QUALITY CONTROL DATA

Workorder: H10040049 : Faye Burdette No.1 Project Number: Faye Burdette No.1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 38949 38950 Original: H10040049006

MS Analysis Date/Time Analyst: 04/13/2010 02:47 LKT

MSD Analysis Date/Time Analyst: 04/13/2010 03:15 LKT

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
m,p-Xylene	ug/l	ND	40	37.5	36.7	93.7	91.8	35-175	2.0	20
o-Xylene	ug/l	ND	20	19.7	19.3	98.7	96.3	35-175	2.5	20
Xylenes, Total	ug/l	ND	60	57.22	55.99	95.4	93.3	35-175	2.2	20
4-Bromofluorobenzene (S)	%	98.4				99.0	97.1	74-125		30
1,2-Dichloroethane-d4 (S)	%	93.2				103	94.4	70-130		30
Toluene-d8 (S)	%	93.1				92.0	91.7	82-118		30

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

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Legend

(S) - Indicates analyte is a surrogate

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

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: H10040049 : Faye Burdette No.1 | Project Number: Faye Burdette No.1

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
H10040049001	**MW-1**	SW-846 3010A	DIGM/1638	SW-846 6010B	ICP/1334
H10040049002	**MW-2**	SW-846 3010A	DIGM/1638	SW-846 6010B	ICP/1334
H10040049003	**MW-3**	SW-846 3010A	DIGM/1638	SW-846 6010B	ICP/1334
H10040049004	**MW-4**	SW-846 3010A	DIGM/1638	SW-846 6010B	ICP/1334
H10040049001	**MW-1**	SW-846 5030	MSV/1744	SW-846 8260B	MSV/1745
H10040049002	**MW-2**	SW-846 5030	MSV/1744	SW-846 8260B	MSV/1745
H10040049003	**MW-3**	SW-846 5030	MSV/1744	SW-846 8260B	MSV/1745
H10040049004	**MW-4**	SW-846 5030	MSV/1744	SW-846 8260B	MSV/1745
H10040049005	**Trip Blank**	SW-846 5030	MSV/1744	SW-846 8260B	MSV/1745
H10040049006	**Duplicate**	SW-846 5030	MSV/1744	SW-846 8260B	MSV/1745

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Sample Receipt Checklist

WorkOrder:	H10040049	Received By	LOG
Date and Time	04/02/2010 09:15	Carrier Name:	FEDEXS
Temperature:	3.0°C	Chilled By:	Water Ice

1.	Shipping container/cooler in good condition?	YES
2.	Custody seals intact on shipping container/cooler?	YES
3.	Custody seals intact on sample bottles?	Not Present
4.	Chain of custody present?	YES
5.	Chain of custody signed when relinquished and received?	YES
6.	Chain of custody agrees with sample labels?	YES
7.	Samples in proper container/bottle?	YES
8.	Samples containers intact?	YES
9.	Sufficient sample volume for indicated test?	YES
10.	All samples received within holding time?	YES
11.	Container/Temp Blank temperature in compliance?	YES
12.	Water - VOA vials have zero headspace?	VOA Vials Not Present
13.	Water - Preservation checked upon receipt(except VOA*)?	YES

*VOA Preservation Checked After Sample Analysis

SPL Representative: Contact Date & Time:

Client Name Contacted:

Client Instructions:

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SPL, Inc.
Analysis Request & Chain of Custody Record

H10040049

1 of 1

Client Name: Tetra Tech / ConocoPhillips
Address: 6121 Indian School Rd NE #200
City: Albuquerque State: NM Zip: 87110
Phone/Fax: 505 237 8440
Client Contact: Kelly Blanchard Email: Kelly.Blanchard@tetratech.com
Project Name/No.: Faye Burdette No. 1
Site Name:
Site Location: Aztec, NM
Invoice To: ConocoPhillips # 4510713617 PI:

matrix: W=water S=soil O=oil A=air SL=sludge E=encore X=other
bottle: P=plastic A=amber glass G=glass V=vial X=other
size: 1=1 liter 4=4oz 40=vial 8=8oz 16=16oz X=other
pres.: 1=HCl 2=HNO3 3=H2SO4 X=other

SAMPLE ID	DATE	TIME	comp.	grab	matrix	bottle	size	pres.	Number of Containers	BTEX	Dissolved Manganese
MW-1	4-1-10	1135		X	W	V	40	1	3	X	
MW-1	4-1-10	1135		X	W	P	16	Ø	1		X
MW-2	4-1-10	1030		X	W	V	40	1	3	X	
MW-2	4-1-10	1030		X	W	P	16	Ø	1		X
MW-3	4-1-10	1110		X	W	V	40	1	3	X	
MW-3	4-1-10	1110		X	W	P	16	Ø	1		X
MW-4	4-1-10	1050		X	W	V	40	1	3	X	
MW-4	4-1-10	1050		X	W	P	16	Ø	1		X
Duplicate	4-1-10	1125		X	W	V	40	1	3	X	
Trip Blank	4-1-10				W	V	40	1	2	X	

RUSH

Client/Consultant Remarks: Please filter & preserve metals container prior to analysis

Laboratory remarks:

Intact? ☐ Y ☐ N
Ice? ☐ Y ☐ N
Temp: 3.6°C

Requested TAT
☐ 1 Business Day ☐ Contract
☐ 2 Business Days ☒ Standard
☐ 3 Business Days
☐ Other
Rush TAT requires prior notice

Special Reporting Requirements Results: Fax ☐ Email ☒ PDF ☒
Standard QC ☒ Level 3 QC ☐ Level 4 QC ☐ TX TRRP ☐ LA RECAP ☐

Special Detection Limits (specify):

PM review (initial):

1. Relinquished by Sampler: [signature]	date 4-1-10	time 1600	2. Received by:
3. Relinquished by:	date	time	4. Received by:
5. Relinquished by:	date 4/2/10	time 0915	6. Received by Laboratory: [signature]

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