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2008 ANNUAL GROUNDWATER MONITORING REPORT

J.R. PHILLIPS TANK BATTERY NO. 2

OGRID NO. 4323/CASE NO. 1R255

SE/4, NW/4, SECTION 6, T-20-S, R-37-E

LATITUDE: N 32° 36' 22.3" LONGITUDE: W 103° 17' 41.5"

LEA COUNTY, NEW MEXICO

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LEA COUNTY, NEW MEXICO**

Prepared For:

**Mr. Matt Hudson
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
Upstream Business Unit
15 Smith Road, Room 5317
Midland, Texas 79705**

**JULY 23, 2009
REF. NO. 039126 (4)**

**Prepared by:
Conestoga-Rovers
& Associates**

2135 South Loop 250 West
Midland, Texas 79703
Office: (432) 686-0086
Fax: (432) 686-0186

web: www.CRAworld.com

TABLE OF CONTENTS

1.0	INTRODUCTION	1
2.0	REGULATORY FRAMEWORK.....	3
3.0	GROUNDWATER SAMPLING AND ANALYSIS	4
3.1	POTENTIOMETRIC SURFACE AND GRADIENT	4
3.2	ANALYTICAL RESULTS	4
4.0	PLANNED ACTIVITIES	5
5.0	SUMMARY	6

LIST OF FIGURES

FIGURE 1	SITE LOCATION MAP
FIGURE 2	SITE DETAILS MAP
FIGURE 3	GROUNDWATER GRADIENT MAP – MAY 2008
FIGURE 4	CHLORIDE ISOCONCENTRATION MAP – MAY 2008
FIGURE 5	SULFATE ISOCONCENTRATION MAP – MAY 2008
FIGURE 6	TDS ISOCONCENTRATION MAP – MAY 2008

LIST OF TABLES

TABLE I	GROUNDWATER GAUGING SUMMARY
TABLE II	GROUNDWATER ANALYTICAL SUMMARY

LIST OF APPENDICES

APPENDIX A	NMOCD CORRESPONDENCE
APPENDIX B	CERTIFIED LABORATORY REPORT AND CHAIN-OF-CUSTODIES

1.0 INTRODUCTION

This Annual Groundwater Monitoring Report presents groundwater monitoring data collected at the J.R. Phillips Tank Battery No. 2 (hereafter referred to as the "Site") by Conestoga-Rovers & Associates (CRA) on behalf of Chevron Environmental Management Company (CEMC). Annual groundwater monitoring activities were performed on May 12 and 13, 2008.

The Site is located approximately three miles southwest of Monument, New Mexico and situated in Unit Letter F in the southeast quarter (SE/4) of the northwest quarter (NW/4) of Section 6, Township 20 South, Range 37 East, Lea County, New Mexico. The Site is a former emergency pit used for temporary containment of produced fluids associated with the tank battery. Land use in the vicinity of the Site is undeveloped rangeland vegetated with indigenous grass, livestock ranching and oil and gas production. A Site Location Map is presented as FIGURE 1.

Site assessment activities were initiated in 1999 when Environmental Plus, Inc. (EPI) of Eunice, New Mexico performed a subsurface assessment of the emergency produced water overflow pit located east of the tank battery and a small burn pit located south-southeast of the emergency pit. The investigation revealed the presence of hydrocarbon affected soil. Approximately 33,500 cubic yards of hydrocarbon-affected material were excavated at the Site between December 1999 and October 2000. The soil was transported to the Texaco Exploration and Production, Inc. (Texaco) centralized treatment facility located northwest of Jal, New Mexico. The emergency pit was excavated to approximately 25 to 30 feet below ground surface (bgs) and the burn pit was excavated to approximately 12 to 15 bgs. The remedial excavations were subsequently backfilled and closed during December 2000 and January 2001. Site assessment and remediation activities were presented in the *Comprehensive Report and Proposed Investigation Plan* (Larson & Associates, Inc. [LA], November 28, 2000).

In March 2000, EPI installed two monitor wells (MW-1 and MW-2) to evaluate background chloride concentrations in groundwater at the Site. In April 2001, LA supervised the installation of six monitor (MW-3 through MW-8) to assess groundwater quality upgradient, downgradient and crossgradient of the Site. Details of that investigation were submitted to the New Mexico Oil Conservation Division (NMOCD) in a *Groundwater Assessment Report* (LA, May 24, 2001). In that report, semi-annual groundwater monitoring was proposed for two years, with groundwater samples to be analyzed for major cations, anions and total dissolved solids (TDS).

The proposed activities were approved by the NMOCD in a letter dated December 27, 2001, with the condition that groundwater also be analyzed for benzene, toluene, ethylbenzene and xylene (BTEX). The NMOCD agreed to allow Texaco to monitor groundwater at the Site due to a regional groundwater impact from chloride that has affected groundwater at the Site, as well as upgradient, crossgradient and downgradient of the Site. An *Annual Groundwater Monitoring Report* (LA, May 10, 2004) presented the results of activities performed in 2003, which fulfilled the two-year monitoring schedule approved by the NMOCD. CEMC proposed a modification to the groundwater monitoring schedule from semi-annual to annual, analyzing groundwater samples only

for major cations, anions and TDS. The groundwater monitoring modifications were approved by the NMOCD in a letter dated October 1, 2004. NMOCD correspondence and approval letters are included in APPENDIX A. Annual groundwater monitoring results for activities performed in May 2004 and May 2005 were presented in the *Annual Groundwater Monitoring Report* (LA, August 15, 2005). CRA has performed groundwater monitoring and reporting activities since 2006.

2.0 REGULATORY FRAMEWORK

The NMOCD guidelines require groundwater to be analyzed for potential contaminants as defined by the New Mexico Water Quality Control Commission (NMWQCC) regulations. In addition, the NMWQCC regulations present the Human Health Standards for Groundwater. The constituent of concern in affected groundwater at the Site is chloride. In this report, groundwater analytical results for chloride and four additional analytes are compared to the NMWQCC standards as shown in the following table:

Analyte	NMWQCC Standard for Groundwater (mg/L)
Chloride	250
Fluoride	1.6
Nitrate (NO ₃ as N)	10
Sulfate (SO ₄)	600
Total Dissolved Solids (TDS)	1,000

3.0 GROUNDWATER SAMPLING AND ANALYSIS

Groundwater at the Site is monitored annually with a network of eight monitor wells and one water well (FIGURE 2). CRA performed groundwater sampling activities on May 12 and 13, 2008.

Prior to purging the wells, static fluid levels were measured with an electric interface probe to the nearest hundredth of a foot. After recording fluid levels, the wells were purged of a minimum of three casing volumes of groundwater. Geochemical field parameters including pH, temperature and conductivity were collected during the purging/sampling process. All non-disposable groundwater sampling equipment was decontaminated with a soap (Liquinox®) and potable water wash, a potable water rinse and a final deionized water rinse to minimize potential cross-contamination between each monitor well. Subsequent to the purging process, groundwater samples were collected using clean, disposable PVC bailers. Laboratory-supplied sample containers were then filled directly from the disposable PVC bailers.

Groundwater samples were placed on ice in insulated coolers and chilled to a temperature of approximately 4°C (40°F). The coolers were sealed for shipment and proper chain-of-custody documentation accompanied the samples to the laboratory (TestAmerica Laboratories, Inc. located in Houston, Texas) for analysis of major cations, anions and TDS by Environmental Protection Agency (EPA) Methods 6010B, 3005A, 2320B, 300.0 and 2540C. The fluids recovered and generated during the sampling event were containerized in sealed, 55-gallon drums located onsite and subsequently managed at an NMOCD-permitted and Chevron-approved salt water disposal (SWD) facility operated by Nabors Well Services LTD. (Nabors).

3.1 POTENTIOMETRIC SURFACE AND GRADIENT

Groundwater elevation data are presented in TABLE I. A groundwater gradient map for May 2008 is presented as FIGURE 3. Depth to groundwater ranged from 30.50 feet to 36.46 feet below top of casing on May 12, 2008. Groundwater flow at the Site is to the southeast at a gradient of approximately 0.004 feet/foot.

3.2 ANALYTICAL RESULTS

Analytical results are summarized in TABLE II. Isopleths of the chloride, sulfate and TDS concentrations for the May 2008 groundwater monitoring event are presented as FIGURES 4, 5 and 6, respectively.

The analytical results generally fall within historical ranges. During the May 2008 sampling event, all nine wells sampled exceeded the NMWQCC groundwater standards for chloride, sulfate and TDS. In addition, eight monitor wells (MW-1 through MW-8) exceeded the NMWQCC groundwater standard for fluoride. Copies of the certified analytical reports and chain-of-custody documentation are attached in APPENDIX B.

4.0 PLANNED ACTIVITIES

Annual groundwater monitoring will continue at the Site in 2009, with submission of an annual report to the NMOCD, detailing the results of activities.

5.0 SUMMARY

Based on historical data review and groundwater monitoring activities performed at the Site, CRA presents the following summary:

- Groundwater at the Site is monitored annually with a network of eight monitor wells and one water well;
- Depth to groundwater ranged from 30.50 feet to 36.46 feet below top of casing on May 12, 2008. Groundwater flow at the Site is to the southeast at a gradient of approximately 0.004 feet/foot;
- The analytical results generally fall within historical ranges. During the May 2008 sampling event, all nine wells sampled exceeded the NMWQCC groundwater standards for chloride, sulfate and TDS. In addition, eight monitor wells (MW-1 through MW-8) exceeded the NMWQCC groundwater standard for fluoride. Nitrate concentrations were below NMWQCC standards during the 2008 sampling event;
- The 2009 groundwater monitoring event is scheduled for May 2009.

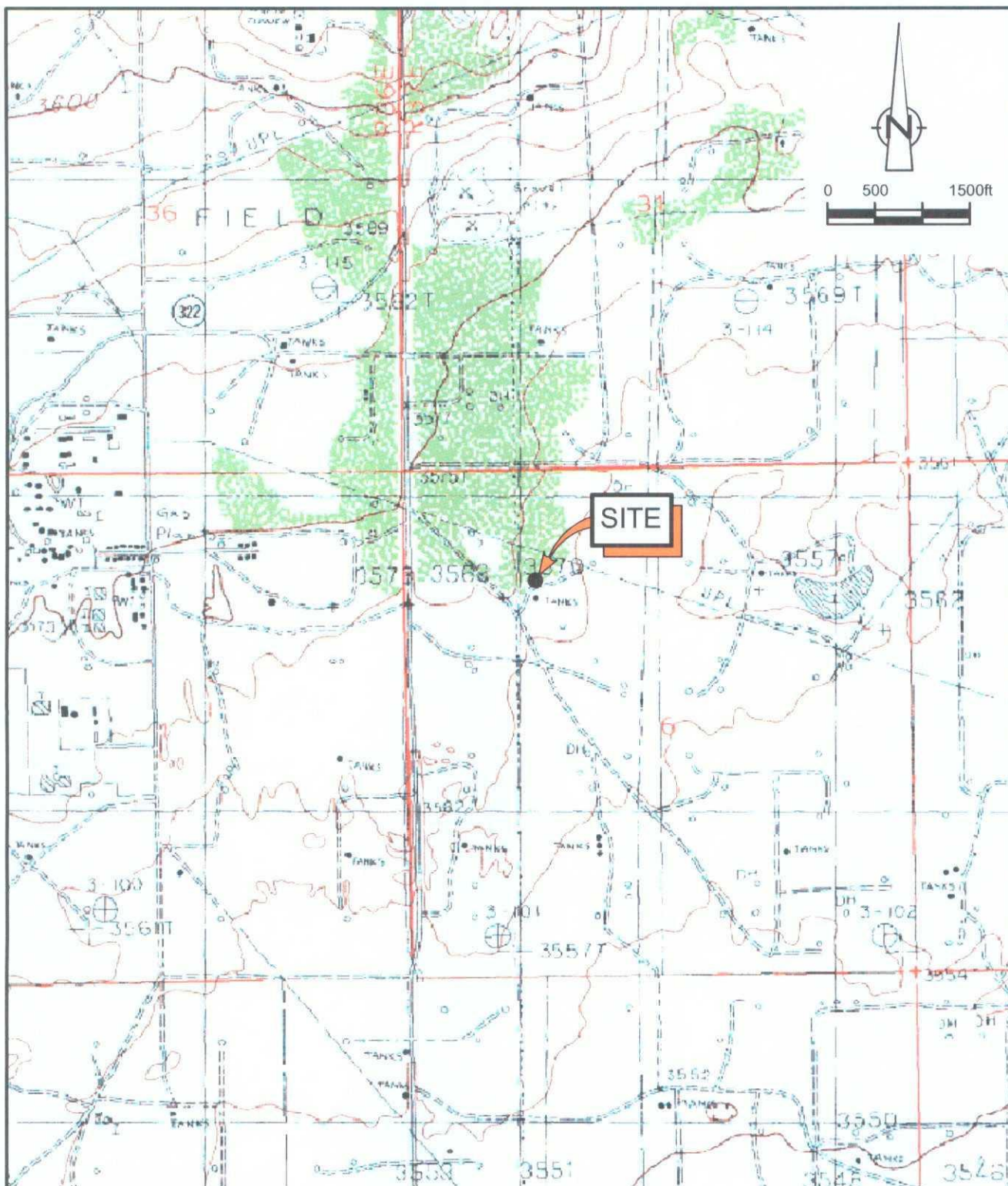
All of Which is Respectfully Submitted,
CONESTOGA-ROVERS & ASSOCIATES



Todd Wells
Project Manager



Thomas C. Larson
Operations Manager



SOURCE: USGS QUADRANGLE MAP;
MONUMENT SOUTH, NEW MEXICO (1985)

32° 36' 22.3" N, 103° 17' 41.5" W



figure 1
SITE LOCATION MAP
J. R. PHILLIPS NO. 2 TANK BATTERY
LEA COUNTY, NEW MEXICO
Chevron Environmental Management Company



NOTE:

MAP BASED ON APRIL 15, 2008 SURVEY PERFORMED BY
WEST COMPANY OF MIDLAND, INC.

LEGEND

-  MW-1 MONITOR WELL LOCATION
-  WATER WELL LOCATION
-  FENCE LINE

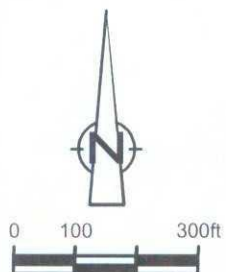
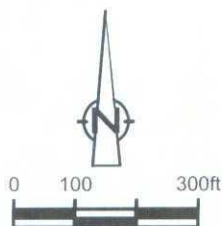


figure 2

SITE DETAILS MAP
J. R. PHILLIPS NO. 2 TANK BATTERY
LEA COUNTY, NEW MEXICO
Chevron Environmental Management Company





NOTES:

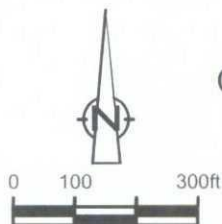
1. MAP BASED ON APRIL 15, 2008 SURVEY PERFORMED BY WEST COMPANY OF MIDLAND, INC.

2. GROUNDWATER SAMPLES COLLECTED ON MAY 13, 2008.

figure 4

CHLORIDE ISOCONCENTRATION MAP - MAY 2008
J. R. PHILLIPS NO. 2 TANK BATTERY
LEA COUNTY, NEW MEXICO

Chevron Environmental Management Company

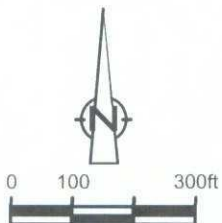




NOTES:

1. MAP BASED ON APRIL 15, 2008 SURVEY PERFORMED BY WEST COMPANY OF MIDLAND, INC.

2. GROUNDWATER SAMPLES COLLECTED ON MAY 13, 2008.



SULFATE ISOCONCENTRATION MAP - MAY 2008
J. R. PHILLIPS NO. 2 TANK BATTERY
LEA COUNTY, NEW MEXICO

Chevron Environmental Management Company

figure 5



TABLE I
GROUNDWATER GAUGING SUMMARY
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
J.R. PHILLIPS TANK BATTERY #2
LEA COUNTY, NEW MEXICO

Well ID TOC Elevation	Collection Date	Depth to Groundwater (ft TOC)	Casing Diameter (in)	Groundwater Elevation (ft)	Well Depth (ft TOC)	Well Screen Interval (ft bgs)
MW-1 3571.61	5/2/01	39.33	2	3532.28	45.10	27-42
	05/21/02	40.37	---	3531.24	---	---
	11/12/02	40.92	---	3530.69	---	---
	05/15/03	41.11	---	3530.50	---	---
	09/03/03	41.54	---	3530.07	---	---
	11/20/03	41.65	---	3529.96	---	---
	05/03/04	41.40	---	3530.21	---	---
	05/10/05	38.86	---	3532.75	---	---
	05/15/06	34.70	---	3536.91	---	---
	05/30/07	34.12	---	3537.49	---	---
	05/12/08	35.28	---	3536.33	---	---
MW-2 3571.12	5/2/01	39.15	2	3531.97	45.12	27-42
	05/21/02	40.14	---	3530.98	---	---
	11/12/02	40.69	---	3530.43	---	---
	05/15/03	40.89	---	3530.23	---	---
	09/03/03	41.33	---	3529.79	---	---
	11/20/03	41.42	---	3529.70	---	---
	05/03/04	41.11	---	3530.01	---	---
	05/10/05	35.78	---	3535.34	---	---
	05/15/06	34.63	---	3536.49	---	---
	05/30/07	33.96	---	3537.16	---	---
	05/12/08	35.08	---	3536.04	45.25	---
MW-3 3570.70	5/2/01	39.30	2	3531.40	56.50	34-54
	05/21/02	40.57	---	3530.13	---	---
	11/12/02	41.09	---	3529.61	---	---
	05/15/03	41.26	---	3529.44	---	---
	09/03/03	41.61	---	3529.09	---	---
	11/20/03	41.73	---	3528.97	---	---
	05/03/04	41.60	---	3529.10	---	---
	05/10/05	36.89	---	3533.81	---	---
	05/15/06	35.70	---	3535.00	---	---
	05/30/07	35.11	---	3535.59	---	---
	05/12/08	36.03	---	3534.67	56.60	---
MW-4 3571.07	5/2/01	40.24	2	3530.83	57.12	34-54
	05/21/02	41.09	---	3529.98	---	---
	11/12/02	41.59	---	3529.48	---	---
	05/15/03	41.77	---	3529.30	---	---
	09/03/03	42.19	---	3528.88	---	---
	11/20/03	42.27	---	3528.80	---	---
	05/03/04	42.03	---	3529.04	---	---
	05/10/05	37.15	---	3533.92	---	---
	05/15/06	36.15	---	3534.92	---	---
	05/30/07	35.50	---	3535.57	---	---
	05/12/08	36.46	---	3534.61	56.90	---

TABLE I
GROUNDWATER GAUGING SUMMARY
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
J.R. PHILLIPS TANK BATTERY #2
LEA COUNTY, NEW MEXICO

Well ID TOC Elevation	Collection Date	Depth to Groundwater (ft TOC)	Casing Diameter (in)	Groundwater Elevation (ft)	Well Depth (ft TOC)	Well Screen Interval (ft bgs)
MW-5 3569.31	5/2/01	38.37	2	3530.94	57.75	34-54
	05/21/02	39.53	---	3529.78	---	---
	11/12/02	40.02	---	3529.29	---	---
	05/15/03	40.21	---	3529.10	---	---
	09/03/03	42.21	---	3527.10	---	---
	11/20/03	40.71	---	3528.60	---	---
	05/03/04	40.39	---	3528.92	---	---
	05/10/05	35.48	---	3533.83	---	---
	05/15/06	34.65	---	3534.66	---	---
	05/30/07	33.94	---	3535.37	---	---
	05/12/08	34.93	---	3534.38	57.90	---
MW-6 3569.53	5/2/01	39.40	2	3530.13	57.30	34-54
	05/21/02	40.22	---	3529.31	---	---
	11/12/02	40.72	---	3528.81	---	---
	05/15/03	40.88	---	3528.65	---	---
	09/03/03	41.92	---	3527.61	---	---
	11/20/03	41.33	---	3528.20	---	---
	05/03/04	41.12	---	3528.41	---	---
	05/10/05	36.56	---	3532.97	---	---
	05/15/06	35.65	---	3533.88	---	---
	05/30/07	34.93	---	3534.60	---	---
	05/12/08	35.79	---	3533.74	57.90	---
MW-7 3572.46	5/2/01	39.76	2	3532.70	57.85	36-56
	05/21/02	40.85	---	3531.61	---	---
	11/12/02	41.47	---	3530.99	---	---
	05/15/03	41.65	---	3530.81	---	---
	09/03/03	42.13	---	3530.33	---	---
	11/20/03	42.25	---	3530.21	---	---
	05/03/04	41.92	---	3530.54	---	---
	05/10/05	36.43	---	3536.03	---	---
	05/15/06	35.08	---	3537.38	---	---
	05/30/07	34.37	---	3538.09	---	---
	05/12/08	35.56	---	3536.90	57.85	---
MW-8 3577.66	5/2/01	40.35	2	3537.31	65.20	47-62
	05/21/02	49.27	---	3528.39	---	---
	11/12/02	43.15	---	3534.51	---	---
	05/15/03	43.30	---	3534.36	---	---
	09/03/03	43.52	---	3534.14	---	---
	11/20/03	43.87	---	3533.79	---	---
	05/03/04	44.07	---	3533.59	---	---
	05/10/05	32.30	---	3545.36	---	---
	05/15/06	33.45	---	3544.21	---	---
	05/30/07	33.17	---	3544.49	---	---
	05/12/08	35.66	---	3542.00	65.35	---

TABLE I
GROUNDWATER GAUGING SUMMARY
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
J.R. PHILLIPS TANK BATTERY #2
LEA COUNTY, NEW MEXICO

Well ID <i>TOC Elevation</i>	Collection Date	Depth to Groundwater (ft TOC)	Casing Diameter (in)	Groundwater Elevation (ft)	Well Depth (ft TOC)	Well Screen Interval (ft bgs)
WW-1 3562.54	5/2/01	33.93	5	3528.61	69.35	Unknown
	05/21/02	34.60	---	3527.94	---	---
	11/12/02	35.03	---	3527.51	---	---
	09/03/03	35.51	---	3527.03	---	---
	11/20/03	35.56	---	3526.98	---	---
	05/03/04	35.49	---	3527.05	---	---
	05/10/05	30.58	---	3531.96	---	---
	05/15/06	30.05	---	3532.49	---	---
	05/30/07	29.47	---	3533.07	---	---
	05/12/08	30.50	---	3532.04	69.65	---

Notes:

1. TOC - Top of Casing.
2. bgs - below ground surface.

TABLE II
GROUNDWATER ANALYTICAL SUMMARY
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
J.R. PHILLIPS TANK BATTERY #2
LEA COUNTY, NEW MEXICO

Sample ID	Sample Date	Carbonate Alkalinity	Bicarbonate Alkalinity	Total Alkalinity	Chloride	Fluoride	Nitrate - N	Sulfate	Calcium	Magnesium	Potassium	Sodium	TDS
New Mexico Water Quality Control Commission Groundwater Standard													
2501,60106001,000													
MW-1	4/10/01	0.00	556	556	7,300	--	--	2,061	445	175	44.00	5,058	15,816
	5/3/01	<2.00	500	500	6,913	--	--	2,020	323.4	172.5	52.11	3,756	14,501
	5/23/02	<1.00	494	494	6,060	--	--	1,850	361	154	66.40	3,750	13,300
	11/12/02	<0.10	456	456	6,030	--	--	1,400	235	143	67.40	3,060	12,800
	5/15/03	<1.00	430	430	5,150	--	--	1,710	312	121	42.80	3,970	5,990
	9/9/03	---	---	---	5,320	--	--	---	---	---	---	---	---
	11/21/03	<1.00	460	460	4,910	--	--	1,730	302	121	54.6	3,360	11,540
	5/4/04	<1.00	438	438	5,280	<4.00	<4.00	1,620	272	115	49.10	3,030	11,260
	5/10/05	<1.00	412	412	7,000	<2.00	<2.00	2,360	453	211	94.50	3,780	16,250
	5/16/06	<1.0	410	410	6,700	1.3	<0.40	1,700	403,000 D2	182,000 D2	38,400 D2	4,080,000 D1	16,600
5/31/07	<1.0	378	378	7,000	<50	<0.100	1,900	461	200	<50	4,150	15,600	
5/13/08	<1.53	534	534	6,670	2.13	<0.95	1,960	427	192	53.6	3,520	14,700	
MW-2	4/10/01	0.00	566	566	8,704	--	--	2,611	569	296	31.00	5,871	19,312
	5/3/01	<2.00	516	516	7,799	--	--	2,670	412.4	221.7	30.31	4,424	16,857
	5/22/02	<1.00	530	530	7,320	--	--	2,150	471	204	42.20	4,200	15,700
	11/12/02	<0.10	482	482	6,740	--	--	1,780	352	187	48.70	3,640	14,300
	5/15/03	<1.00	498	498	5,850	--	--	1,990	312	150	31.30	4,670	14,000
	9/9/03	---	---	---	6,470	--	--	---	---	---	---	---	---
	11/21/03	<1.00	510	510	5,790	--	--	2,100	378	158	52.1	3,770	14,080
	5/4/04	<1.00	530	530	6,040	<4.00	<4.00	1,950	326	136	43.80	3,300	12,520
	5/10/05	<1.00	502	502	8,080	5.57	<2.00	2,090	385	171	52.90	4,310	17,050
	5/16/06	<1.0	890	890	6,300	2.1	<0.40	1,600	375,000 D2	168,000 D2	9,330 D2	4,330,000 D1	14,200
5/31/07	<1.0	1370	1370	6,700	<50	<0.100	1,700	417	183	<50	4,000	14,900	
5/13/08	<1.53	736	736	6,440	6.93	<0.95	1,690	410	184	29.1	3,530	14,000	
MW-3	5/3/01	<2.00	458	458	11,078	---	---	3,525	984	431.9	38.89	6,114	24,135
	5/23/02	<1.00	512	512	10,800	---	---	3,920	999	350	56.50	6,210	24,200
	11/13/02	<0.10	456	456	11,400	---	---	3,670	863	371	59.30	5,680	23,600
	5/15/03	<1.00	462	462	10,700	---	---	4,220	921	315	34.10	5,870	24,200
	9/9/03	---	---	---	10,300	---	---	---	---	---	---	---	---
	11/21/03	<1.00	464	464	10,500	---	---	4,480	972	333	47.50	7,540	23,100
	5/4/04	<1.00	478	478	11,400	<8.00	<8.00	4,750	808	291	54.10	5,290	22,500
	5/10/05	<1.00	472	472	11,900	<2.00	<2.00	4,190	965	356	86.70	7,320	26,750
	5/16/06	<1.0	550	550	8,600	0.76	<0.40	3,100	642,000 D2	243,000 D2	24,100 D2	6,040,000 D1	23,200
	5/31/07	<1.0	520	520	7,700	<50	<0.100	2,900	591	213	<50	4,760	14,100
5/13/08	<1.53	491	491	7,500	7.19	<0.95	2,590	578	202	25.5	4,440	17,200	

TABLE II
GROUNDWATER ANALYTICAL SUMMARY
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
J.R. PHILLIPS TANK BATTERY #2
LEA COUNTY, NEW MEXICO

Sample ID	Sample Date	Carbonate Alkalinity	Bicarbonate Alkalinity	Total Alkalinity	Chloride	Fluoride	Nitrate - N	Sulfate	Calcium	Magnesium	Potassium	Sodium	TDS
New Mexico Water Quality Control Commission Groundwater Standard													
		250		1,600		10		600		1,000			
MW-4	5/3/01	<2.00	618	618	9,572	---	---	2,755	467.7	299.8	49.25	5,435	20,118
	5/22/02	<1.00	814	814	8,170	---	---	1,940	389	220	45.30	5,100	18,200
	11/13/02	<0.10	1020	1020	7,890	---	---	1,020	47.1	202	21.60	3,980	14,800
	5/15/03	<1.00	1050	1050	7,140	---	---	1,210	185	179	14.80	5,250	15,200
	9/9/03	---	---	---	7,800	---	---	---	---	---	---	---	---
	11/21/03	<1.00	770	770	7,500	---	---	2,720	334	198	39.70	4,760	17,350
	5/4/04	<1.00	900	900	8,740	<6.00	<6.00	3,170	240	191	25.80	3,660	15,800
	5/10/05	<1.00	708	708	7,750	2.73	<2.00	2,010	330	186	50.40	4,400	26,700
	5/16/06	<1.0	750	750	6,400	0.81	<0.40	1,900	253,000 D2	146,000 D2	<5,000 D2	4,120,000 D1	11,100
	5/31/07	<1.0	624	624	5,500	<5.0	<0.100	1,500	272	126	<50	3,550	13,700
	5/13/08	<1.53	627	627	5,550	6.64	<0.95	1,430	280	129	31.6	3,270	12,400
	5/3/01	<2.00	416	416	8,685	---	---	3,045	430.9	237.1	44.36	4,651	18,846
MW-5	5/23/02	<1.00	496	496	6,970	---	---	2,510	394	200	44.00	4,680	16,900
	11/13/02	<0.10	640	640	7,270	---	---	1,790	266	172	43.80	3,880	14,900
	5/15/03	<1.00	562	562	6,800	---	---	2,320	383	167	30.90	5,300	16,000
	9/9/03	---	---	---	7,090	---	---	---	---	---	---	---	---
	11/21/03	<1.00	522	522	7,010	---	---	3,170	434	178	54.90	4,300	16,850
	5/4/04	<1.00	534	534	6,630	<4.00	<4.00	2,310	365	152	47.80	3,850	16,800
	5/10/05	<1.00	536	536	23,300	<2.00	<2.00	2,380	362	151	68.30	4,400	17,400
	5/16/06	<1.0	530	530	5,800	1.4	<0.40	1,600	335,000 D2	143,000 D2	23,900 D2	4,110,000 D1	14,100
	5/31/07	<1.0	426	426	6,400	<5.0	<0.100	1,500	372	154	<50	3,910	14,400
	5/13/08	<1.53	410	410	6,720	6.87	<0.95	1,590	413	180	32.2	3,580	14,700
	5/3/01	<2.00	460	460	11,876	---	---	4,380	1,004	429.9	52.27	6,281	25,288
	5/23/02	<1.00	474	474	11,000	---	---	4,300	1,130	483	53.00	6,060	25,500
MW-6	11/13/02	<0.10	416	416	10,800	---	---	3,660	936	486	57.60	5,470	23,400
	5/15/03	<1.00	470	470	10,700	---	---	4,310	1,000	388	34.10	5,760	23,800
	9/9/03	---	---	---	10,300	---	---	---	---	---	---	---	---
	11/20/03	<1.00	480	480	10,000	---	---	4,410	904	399	42.50	5,610	23,500
	5/4/04	<1.00	466	466	11,400	<8.00	<8.00	4,310	869	350	49.00	5,590	23,850
	5/10/05	<1.00	476	476	11,000	3.48	<2.00	4,050	801	331	52.20	6,090	24,200
	5/16/06	<1.0	750	750	8,700	1.0	<0.40	3,200	620,000 D2	268,000 D2	24,200 D2	5,980,000 D1	18,900
	5/31/07	<1.0	776	776	7,800	<5.0	<0.100	3,100	600	226	<50	5,200	18,700
	5/13/08	<1.53	672	672	7,230	7.3	<0.95	2,870	425	179	24.7	4,470	16,900

TABLE II
GROUNDWATER ANALYTICAL SUMMARY
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
J.R. PHILLIPS TANK BATTERY #2
LEA COUNTY, NEW MEXICO

Sample ID	Sample Date	Carbonate Alkalinity	Bicarbonate Alkalinity	Total Alkalinity	Chloride	Fluoride	Nitrate - N	Sulfate	Calcium	Magnesium	Potassium	Sodium	TDS
New Mexico Water Quality Control Commission Groundwater Standard													
2506001,000													
MW-7	5/2/01	<2.00	436	436	8,154	--	--	2,430	599.5	289.8	34.57	4,578	18,578
	5/22/02	<1.00	440	440	7,420	--	--	2,800	630	264	48.50	4,390	16,900
	11/12/02	<0.10	412	412	7,530	--	--	1,800	512	244	55.00	3,950	15,700
	5/15/03	<1.00	438	438	7,180	--	--	2,350	583	220	33.30	4,970	16,800
	9/9/03	---	---	---	6,910	--	--	---	---	---	---	---	---
	11/20/03	<1.00	434	434	6,360	--	--	2,110	532	204	52.70	3,770	14,500
	5/4/04	<1.00	418	418	6,610	<4.00	<4.00	1,930	527	188	47.10	3,460	16,600
	5/10/05	<1.00	450	450	8,210	2.14	<2.00	1,810	506	188	62.80	3,860	14,600
	5/16/06	<1.0	480	480	6,500	1.1	<0.40	1,700	530,000 D2	200,000 D2	15,600 D2	4,020,000 D1	18,100
	5/31/07	<1.0	397	397	6,800	<50	<0.100	1,800	496	187	<50	3,730	14,900
5/13/08	<1.53	417	417	6,070	6.80	<0.95	1,920	484	194	31.7	3,430	14,200	
MW-8	5/2/01	<2.00	426	426	7,445	--	--	1,213	766.7	295.7	52.68	2,999	16,325
	5/23/02	<1.00	430	430	6,680	--	--	1,260	701	237	75.90	3,420	13,300
	11/12/02	<0.10	444	444	7,270	--	--	1,220	591	254	88.00	3,150	14,000
	5/15/03	<1.00	468	468	7,300	--	--	1,690	777	265	55.10	4,580	15,700
	9/9/03	--	--	--	7,270	--	--	--	--	--	--	--	--
	11/20/03	<1.00	438	438	8,190	--	--	2,570	881	280	64.5	3,560	14,040
	5/4/04	<1.00	380	380	7,960	<6.00	<6.00	1,370	912	321	60.10	2,970	12,750
	5/10/05	<1.00	446	446	2,590	4.12	<1.00	936	228	84.40	46.30	1,740	5,635
	5/16/06	<1.0	480	480	2,600	3.1	<0.40	960	327,000 D2	117,000 D2	21,000 D2	1,680,000 D1	6,620
	5/31/07	<1.0	378	378	3,200	<50	<0.100	960	394	133	<50	1,830	8,080
5/13/08	<1.53	472	472	3,160	2.94	<0.95	762	354	132	28.9	1,770	7,280	
WW-1	--	--	--	--	13,152	--	--	--	--	--	--	--	--
	5/3/01	<2.00	<2.00	<2.00	12,053	--	--	629	1,419	387.3	38.95	1,486	22,571
	11/12/02	<0.10	<2.0	<2.0	<5.0	--	--	998	1,120	361	38.30	2,260	15,800
	5/15/03	<1.00	<4.00	<4.00	11,800	--	--	1,780	1,490	403	28.90	3,360	21,400
	9/9/03	--	--	--	<5.00	--	--	--	--	--	--	--	--
	11/21/03	<1.00	<4.00	<4.00	10,000	--	--	2,180	1,650	461	52.7	3,630	18,900
	5/4/04	<1.00	<4.00	<4.00	12,500	<8.00	<8.00	1,880	1,540	450	47.00	3,470	23,400
	5/10/05	<1.00	<4.00	<4.00	121	<1.00	<1.00	63.40	39.8	12.2	3.05	10.20	336
	5/16/06	<1.0	67	67	1,300	<0.50	1.9	110	155,000 D2	34,500 D2	<5,000 D2	186,000 D1	4,180
	5/31/07	<1.0	<1.0	<1.0	2,400	<25	<0.100	300	645	167	<50	1,830	5,340
5/13/08	<1.53	<1.53	<1.53	10,200	<1.0	<1.9	1,770	1,400	364	<8.121	3,320	22,700	

Notes:

1. Shaded cells indicate New Mexico Water Quality Control Commission (NMWQCC) exceedance.
2. Results shown in mg/L.
3. Analytical data prior to 2006 was provided to CRA by Larson & Associates.
4. DI - The analysis was performed at a dilution due to the high analyte concentration.
5. D2 - The analysis was performed at a dilution due to the presence of matrix interferences.

APPENDIX A
NMOCD CORRESPONDENCE



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON
Governor
Jennifer A. Salisbury
Cabinet Secretary

Lori Wrotenbery
Director
Oil Conservation Division

December 27, 2001

CERTIFIED MAIL

RETURN RECEIPT NO. 7000-1670-0012-5357-8116

Mr. Rodney Bailey
Texaco Exploration & Production, Inc.
500 N. Loraine
Midland, Texas 79701

**RE: CASE #1R0255
J.R. PHILLIPS #2 TANK BATTERY SITE
MONUMENT, NEW MEXICO**

Dear Mr. Bailey:

The New Mexico Oil Conservation Division (OCD) has reviewed Texaco Exploration & Production, Inc.'s (Texaco) May 24, 2001 "GROUNDWATER ASSESSMENT REPORT, TEXACO EXPLORATION AND PRODUCTION INC., J.R. PHILLIPS TANK BATTERY #2, SE/4, NW/4, SECTION 6, TOWNSHIP 20 SOUTH, RANGE 37 EAST, LEA COUNTY, NEW MEXICO, MAY 24, 2001" which was submitted on behalf of Texaco by their consultant Larson & Associates, Inc. This document contains the results of Texaco's investigation of the extent of ground water contamination related to a former emergency pit at the J.R. Phillips #2 Tank Battery south of Monument, New Mexico. The document also contains a proposal for further ground water monitoring at the site.

The above referenced monitoring proposal is approved with the following conditions:

1. Ground water from the monitoring wells shall also be analyzed for concentrations of benzene, toluene, ethylbenzene and xylene (BTEX).
2. Texaco shall notify the OCD at least 48 hours in advance of scheduled activities such that the OCD has the opportunity to witness the events and split samples.

Please be advised that OCD approval does not relieve Texaco of responsibility if the work plan fails to adequately monitor contamination related to Texaco's activities, or if contamination exists which is outside the scope of the work plan. In addition, OCD approval does not relieve Texaco of responsibility for compliance with any other federal, state or local laws and regulations.

If you have any questions, please contact me at (505) 476-3491.

Sincerely,

A handwritten signature in cursive script, appearing to read "Will Olson".

William C. Olson
Hydrologist
Environmental Bureau

xc: Chris Williams, OCD Hobbs District Office
Mark Larson, Larson & Associates, Inc.



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON

Governor

Joanna Prukop

Cabinet Secretary

Mark E. Fesmire, P.E.

Director

Oil Conservation Division

October 1, 2004

Mr. Rodney Bailey
ChevronTexaco
15 Smith Road
Midland, Texas 79705

**RE: CASE #1R0255
J.R. PHILLIPS #2 TANK BATTERY SITE
MONUMENT, NEW MEXICO**

Dear Mr. Bailey:

The New Mexico Oil Conservation Division (OCD) has reviewed ChevronTexaco's May 10, 2004 "ANNUAL GROUNDWATER MONITORING REPORT, CHEVRONTExaco EXPLORATION AND PRODUCTION COMPANY, J.R. PHILLIPS TANK BATTERY NO. 2, NW/4 SE/4, SECTION 30, TOWNSHIP 18 SOUTH, RANGE 38 EAST, LEA COUNTY, NEW MEXICO" which was submitted on behalf of ChevronTexaco by their consultant Larson & Associates, Inc. This document contains the results of ChevronTexaco's 2003 remediation and monitoring of contaminated ground water at the J.R. Phillips #2 Tank Battery south of Monument, New Mexico. The document also proposes to change the sampling schedule of ground water monitoring wells from semi-annual to annual sampling.

The above-referenced monitoring proposal is approved. Please be advised that OCD approval does not limit ChevronTexaco to the proposed work plan should the plan fail to adequately remediate or monitor contamination related to ChevronTexaco's activities, or if contamination exists which is outside the scope of the work plan. In addition, OCD approval does not relieve ChevronTexaco of responsibility for compliance with any other federal, state or local laws and regulations. If you have any questions, please contact me at (505) 476-3491.

Sincerely,

William C. Olson

Hydrologist

Environmental Bureau

xc: Chris Williams, OCD Hobbs District Office
Cindy K. Crain, Larson & Associates, Inc.

APPENDIX B

CERTIFIED LABORATORY REPORTS AND CHAIN-OF-CUSTODIES

ANALYTICAL REPORT

JOB NUMBER: 354100
Project ID: J.R PHILLIPS

Prepared For:

Conestoga-Rovers and Associates
2135 S. Loop 250 West
Midland, TX 79707

Attention: Todd Wells

Date: 05/29/2008



Signature

05/29/08

Date

Name: Sachin G. Kudchadkar

Title: Project Manager III

E-Mail: sachin.kudchadkar@testamericainc.com

TestAmerica Laboratories, Inc
6310 Rothway Drive
Houston, TX 77040

PHONE: 713-690-4444

TOTAL NO. OF PAGES

36

S A M P L E I N F O R M A T I O N

Date: 05/29/2008

Job Number.: 354100

Customer.... Conestoga-Rovers and Associates

Attn..... Todd Wells

Project Number.....: 99007835

Customer Project ID....: J.R PHILLIPS

Project Description.....: Chevron

Laboratory Sample ID	Customer Sample ID	Sample Matrix	Date Sampled	Time Sampled	Date Received	Time Received
354100-1	MW-1	Water	05/13/2030	12:10	05/14/2008	09:41
354100-2	MW-2	Water	05/13/2030	12:30	05/14/2008	09:41
354100-3	MW-3	Water	05/13/2030	13:50	05/14/2008	09:41
354100-4	MW-4	Water	05/13/2030	13:15	05/14/2008	09:41
354100-5	MW-5	Water	05/13/2030	13:25	05/14/2008	09:41
354100-6	MW-6	Water	05/13/2030	14:00	05/14/2008	09:41
354100-7	MW-7	Water	05/13/2030	12:55	05/14/2008	09:41
354100-8	MW-8	Water	05/13/2030	11:20	05/14/2008	09:41
354100-9	WATER WELL	Water	05/13/2030	11:45	05/14/2008	09:41
354100-10	DUPE	Water	05/13/2030	00:00	05/14/2008	09:41

Q U A L I T Y C O N T R O L R E S U L T S

Job Number.: 354100

Report Date.: 05/29/2008

CUSTOMER: Conestoga-Rovers and Associates

PROJECT: J.R PHILLIPS

ATTN: Todd Wells

Test Method.....: SM 2320 B

Method Description.: Alkalinity

Parameter.....: Alkalinity, Total as CaCO3

Units.....: mg/L CaCO3

Batch(s)....: 199280

Analyst....: sng

Test Code.: ALK

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result *	Limits	F	Date	Time
DU	354242-5		179.29			177.40	1.1	20		05/21/2008	1425
MS	354238-12	WC4081A	6598.98		2500.000000	4112.41	99.5	75-125		05/21/2008	1425
DU	354238-12		4112.41			4112.41	0.0	20		05/21/2008	1425
MB	199280--21		1.89							05/21/2008	1425
MS	354438-6	WC4081A	396.32		250.000000	181.18	86.1	75-125		05/21/2008	1425
MS	354242-5	WC4081A	407.64		250.000000	177.40	92.1	75-125		05/21/2008	1425
LCS	199280--21	WC4050	943.62		1000.0		94.4	90.0-110.		05/21/2008	1425
DU	354100-1		535.98			534.09	0.4	20		05/21/2008	1425
MB	199280--21		1.89							05/21/2008	1425
DU	354438-6		181.18			181.18	0.0	20		05/21/2008	1425
MS	354100-1	WC4081A	764.33		250.000000	534.09	92.1	75-125		05/21/2008	1425
LCS	199280--21	WC4050	943.62		1000.0		94.4	90.0-110.		05/21/2008	1425

Test Method.....: SM 2320 B

Method Description.: Alkalinity

Parameter.....: Bicarbonate (HCO3)

Units.....: mg/L CaCO3

Batch(s)....: 199280

Analyst....: sng

Test Code.: HCO3

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result *	Limits	F	Date	Time
MB	199280--21		1.89							05/21/2008	1425
DU	354242-5		179.29			177.40	1.1	20		05/21/2008	1425
DU	354438-6		181.18			181.18	0.0	20		05/21/2008	1425
DU	354100-1		535.98			534.09	0.4	20		05/21/2008	1425
MB	199280--21		1.89							05/21/2008	1425

Test Method.....: SM 2320 B

Method Description.: Alkalinity

Parameter.....: Carbonate (CO3)

Units.....: mg/L CaCO3

Batch(s)....: 199280

Analyst....: sng

Test Code.: CO3

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result *	Limits	F	Date	Time
MB	199280--21		0							05/21/2008	1425
DU	354100-1		0			0	0	5		05/21/2008	1425
DU	354242-5		0			0	0	5		05/21/2008	1425
DU	354438-6		0			0	0	5		05/21/2008	1425
MB	199280--21		0							05/21/2008	1425

Test Method.....: SM 2540C

Method Description.: Solids, Total Dissolved (TDS)

Parameter.....: Solids, Total Dissolved (TDS)

Units.....: mg/L

Batch(s)....: 199020

Analyst....: daw

Test Code.: TDS

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result *	Limits	F	Date	Time
DU	354227-2		637.00			624.00	2.1	10.0		05/15/2008	1640
DU	354100-1		14580.00			14720.00	1.0	10.0		05/15/2008	1640
LCS	199020--21	WCS49472	1821.00		1800		101.2	90.0-110.		05/15/2008	1640
MB	199020--21		1.00							05/15/2008	1640

Job Number.: 354100		Q U A L I T Y C O N T R O L R E S U L T S			Report Date.: 05/29/2008	
CUSTOMER: Conestoga-Rovers and Associates			PROJECT: J.R PHILLIPS		ATTN: Todd Wells	
QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
CCB	Continuing Calibration Blank				05/15/2008	0437

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Chloride	0							
Fluoride (F)	0							
Sulfate (SO4)	0							
Bromide (Br)	0							
Nitrogen, Nitrate as N (NO3-N)	0							
Nitrogen, Nitrite as N (NO2-N)	0							
Nitrate + Nitrite as N	0.000							

CCB	Continuing Calibration Blank					05/15/2008	0540	
Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Fluoride (F)	0							
Chloride	0							
Bromide (Br)	0							
Sulfate (SO4)	0							
Nitrogen, Nitrate as N (NO3-N)	0							
Nitrogen, Nitrite as N (NO2-N)	0							
Nitrate + Nitrite as N	0.000							

CCV	Continuing Calibration Verification	WCS49460				05/14/2008	1551
Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Fluoride (F)	10.152		10.00		101.5	90.0-110.0	
Bromide (Br)	20.044		20.00		100.2	90.0-110.0	
Sulfate (SO4)	19.538		20.00		97.7	90.0-110.0	
Chloride	19.993		20.00		100.0	90.0-110.0	
Nitrogen, Nitrate as N (NO3-N)	10.517		10.0		105.2	90.0-110.0	
Nitrogen, Nitrite as N (NO2-N)	9.8297		10.0		98.3	90.0-110.0	

CCV	Continuing Calibration Verification	WCS49460				05/14/2008	1859
Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Bromide (Br)	19.993		20.00		100.0	90.0-110.0	
Fluoride (F)	10.131		10.00		101.3	90.0-110.0	
Sulfate (SO4)	19.612		20.00		98.1	90.0-110.0	
Chloride	19.935		20.00		99.7	90.0-110.0	
Nitrogen, Nitrate as N (NO3-N)	10.418		10.0		104.2	90.0-110.0	
Nitrogen, Nitrite as N (NO2-N)	9.7858		10.0		97.9	90.0-110.0	

CCV	Continuing Calibration Verification	WCS49460				05/14/2008	2206
Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Bromide (Br)	19.994		20.00		100.0	90.0-110.0	
Chloride	19.904		20.00		99.5	90.0-110.0	
Sulfate (SO4)	19.607		20.00		98.0	90.0-110.0	
Fluoride (F)	10.303		10.00		103.0	90.0-110.0	

Job Number.: 354100		QUALITY CONTROL RESULTS				Report Date.: 05/29/2008			
CUSTOMER: Conestoga-Rovers and Associates			PROJECT: J.R PHILLIPS			ATTN: Todd Wells			
QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time			
CCV	Continuing Calibration Verification	WCS49460			05/14/2008	2206			
Parameter/Test Description		QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Nitrogen, Nitrate as N (NO3-N)		10.440		10.0		104.4		90.0-110.0	
Nitrogen, Nitrite as N (NO2-N)		9.7987		10.0		98.0		90.0-110.0	
CCV	Continuing Calibration Verification	WCS49460			05/15/2008	0114			
Parameter/Test Description		QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Fluoride (F)		10.716		10.00		107.2		90.0-110.0	
Chloride		20.057		20.00		100.3		90.0-110.0	
Bromide (Br)		20.090		20.00		100.5		90.0-110.0	
Sulfate (SO4)		20.056		20.00		100.3		90.0-110.0	
Nitrogen, Nitrate as N (NO3-N)		10.490		10.0		104.9		90.0-110.0	
Nitrogen, Nitrite as N (NO2-N)		9.8364		10.0		98.4		90.0-110.0	
CCV	Continuing Calibration Verification	WCS49460			05/15/2008	0422			
Parameter/Test Description		QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Sulfate (SO4)		19.516		20.00		97.6		90.0-110.0	
Fluoride (F)		10.456		10.00		104.6		90.0-110.0	
Bromide (Br)		19.936		20.00		99.7		90.0-110.0	
Chloride		19.916		20.00		99.6		90.0-110.0	
Nitrogen, Nitrate as N (NO3-N)		10.429		10.0		104.3		90.0-110.0	
Nitrogen, Nitrite as N (NO2-N)		9.7617		10.0		97.6		90.0-110.0	
CCV	Continuing Calibration Verification	WCS49460			05/15/2008	0524			
Parameter/Test Description		QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Sulfate (SO4)		19.454		20.00		97.3		90.0-110.0	
Chloride		19.858		20.00		99.3		90.0-110.0	
Bromide (Br)		19.993		20.00		100.0		90.0-110.0	
Fluoride (F)		10.349		10.00		103.5		90.0-110.0	
Nitrogen, Nitrate as N (NO3-N)		10.414		10.0		104.1		90.0-110.0	
Nitrogen, Nitrite as N (NO2-N)		9.7382		10.0		97.4		90.0-110.0	
DU	Method Duplicate			354100-8	100	05/14/2008	2104		
Parameter/Test Description		QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br), Water		0			0	0		1	
Chloride, Water		32.163			31.563	1.9		20	
Fluoride (F), Water		0.1132			0.1066	0.0066		0.3000	
Sulfate (SO4), Water		7.7680			7.6231	1.9		20	
Nitrogen, Nitrate as N (NO3-N), Water		0			0	0		0	
Nitrogen, Nitrite as N (NO2-N), Water		0			0	0		0	
Nitrate + Nitrite as N, Water		0.000			0.000	0.000		0.400	

Job Number.: 354100			Q U A L I T Y C O N T R O L R E S U L T S		Report Date.: 05/29/2008	
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CUSTOMER: Conestoga-Rovers and Associates			PROJECT: J.R PHILLIPS		ATTN:	
QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time

DU	Method Duplicate		354014-1	10	05/15/2008	0217
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br), Water	0			0	0		1	
Chloride, Water	5.0166			4.9731	0.9		20	
Sulfate (SO4), Water	6.9222			7.1134	2.7		20	
Fluoride (F), Water	12.567			13.514	7.3		20	
Nitrogen, Nitrate as N (NO3-N), Water	0.1291			0.1298	0.0007		0.2500	
Nitrogen, Nitrite as N (NO2-N), Water	0			0	0		0	
Nitrate + Nitrite as N, Water	0.129			0.130	0.001		0.400	

DU	Method Duplicate		354155-1	10	05/15/2008	0350
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Sulfate (SO4), Water	0.4126			0.3449	0.0677		0.5000	
Chloride, Water	6.3501			6.4127	1.0		20	
Bromide (Br), Water	0			0	0		1	
Fluoride (F), Water	0			0.1090	0.1090		0.3000	
Nitrogen, Nitrate as N (NO3-N), Water	0			0	0		0	
Nitrogen, Nitrite as N (NO2-N), Water	0			0	0		0	
Nitrate + Nitrite as N, Water	0.000			0.000	0.000		0.400	

ICB	Initial Calibration Blank				05/14/2008	1300
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Chloride	0							
Bromide (Br)	0							
Sulfate (SO4)	0							
Fluoride (F)	0							
Nitrogen, Nitrate as N (NO3-N)	0							
Nitrogen, Nitrite as N (NO2-N)	0							
Nitrate + Nitrite as N	0.000							

ICV	Initial Calibration Verification	WCS49460			05/14/2008	1244
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Sulfate (SO4)	18.884		20.00		94.4		90.0-110.0	
Fluoride (F)	9.6032		10.00		96.0		90.0-110.0	
Chloride	19.502		20.00		97.5		90.0-110.0	
Bromide (Br)	19.604		20.00		98.0		90.0-110.0	
Nitrogen, Nitrate as N (NO3-N)	10.214		10.0		102.1		90.0-110.0	
Nitrogen, Nitrite as N (NO2-N)	9.5765		10.0		95.8		90.0-110.0	

Job Number.: 354100			Q U A L I T Y C O N T R O L R E S U L T S			Report Date.: 05/29/2008		
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CUSTOMER: Conestoga-Rovers and Associates			PROJECT: J.R PHILLIPS			ATTN:		
QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time		

LCS	Laboratory Control Sample	WCS49460			05/14/2008	1331		
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Chloride	19.905		20.00		99.5		90.0-110.0	
Fluoride (F)	9.7307		10.00		97.3		90.0-110.0	
Bromide (Br)	19.976		20.00		99.9		90.0-110.0	
Sulfate (SO4)	19.426		20.00		97.1		90.0-110.0	
Nitrogen, Nitrate as N (NO3-N)	10.469		10.0		104.7		90.0-110.0	
Nitrogen, Nitrite as N (NO2-N)	9.7750		10.0		97.8		90.0-110.0	

LCS	Laboratory Control Sample	WCS49460			05/15/2008	0201		
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Chloride	19.859		20.00		99.3		90.0-110.0	
Fluoride (F)	10.223		10.00		102.2		90.0-110.0	
Sulfate (SO4)	19.547		20.00		97.7		90.0-110.0	
Bromide (Br)	20.057		20.00		100.3		90.0-110.0	
Nitrogen, Nitrate as N (NO3-N)	10.464		10.0		104.6		90.0-110.0	
Nitrogen, Nitrite as N (NO2-N)	9.7436		10.0		97.4		90.0-110.0	

MB	Method Blank				05/14/2008	1315		
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br)	0							
Chloride	0							
Fluoride (F)	0							
Sulfate (SO4)	0							
Nitrogen, Nitrate as N (NO3-N)	0							
Nitrogen, Nitrite as N (NO2-N)	0							
Nitrate + Nitrite as N	0.000							

MB	Method Blank				05/15/2008	0145		
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br)	0							
Chloride	0.2013							
Sulfate (SO4)	0							
Fluoride (F)	0							
Nitrogen, Nitrate as N (NO3-N)	0							
Nitrogen, Nitrite as N (NO2-N)	0							
Nitrate + Nitrite as N	0.000							

MS	Matrix Spike	WCS48935	354100-8	100	05/14/2008	2120		
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br), Water	9.7759		10.000000	0	97.8		90-110	
Fluoride (F), Water	1.6978		2.000000	0.1066	79.6		90-110	A
Sulfate (SO4), Water	17.270		10.000000	7.6231	96.5		90-110	
Chloride, Water	40.202		10.000000	31.563	86.4		90-110	A

Job Number.: 354100			Q U A L I T Y C O N T R O L R E S U L T S		Report Date.: 05/29/2008	
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CUSTOMER: Conestoga-Rovers and Associates			PROJECT: J.R PHILLIPS		ATTN:	
QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time

MS	Matrix Spike	WCS48935	354100-8	100	05/14/2008	2120
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Nitrogen, Nitrate as N (NO3-N), Water	2.0670		2.000000	0	103.3		90-110	
Nitrogen, Nitrite as N (NO2-N), Water	1.8789		2.000000	0	93.9		90-110	
Nitrate + Nitrite as N, Water	3.946		0.000000	0.000				

MS	Matrix Spike	WCS48935	354014-1	10	05/15/2008	0232
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br), Water	10.969		10.000000	0	109.7		90-110	
Sulfate (SO4), Water	16.471		10.000000	7.1134	93.6		90-110	
Fluoride (F), Water	14.495		2.000000	13.514	49.0		90-110	
Chloride, Water	15.169		10.000000	4.9731	102.0		90-110	
Nitrogen, Nitrate as N (NO3-N), Water	2.1918		2.000000	0.1298	103.1		90-110	
Nitrogen, Nitrite as N (NO2-N), Water	2.1680		2.000000	0	108.4		90-110	
Nitrate + Nitrite as N, Water	4.360		0.000000	0.130				

MS	Matrix Spike	WCS48935	354155-1	10	05/15/2008	0406
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Sulfate (SO4), Water	9.8439		10.000000	0.3449	95.0		90-110	
Bromide (Br), Water	9.7521		10.000000	0	97.5		90-110	
Chloride, Water	16.067		10.000000	6.4127	96.5		90-110	
Fluoride (F), Water	1.6542		2.000000	0.1090	77.3		90-110	A
Nitrogen, Nitrate as N (NO3-N), Water	2.0820		2.000000	0	104.1		90-110	
Nitrogen, Nitrite as N (NO2-N), Water	1.6999		2.000000	0	85.0		90-110	A
Nitrate + Nitrite as N, Water	3.782		0.000000	0.000				

Test Method.....: SW-846 6010B			Units.....: mg/L		Analyst....: srp	
Method Description.: Metals Analysis (ICAP Trace)			Batch(s)....: 199638			

CCB	Continuing Calibration Blank				05/28/2008	0921
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Calcium (Ca)	-0.00748							
Magnesium (Mg)	-0.03122							
Potassium (K)	-0.14658							
Sodium (Na)	0.00266							

CCB	Continuing Calibration Blank				05/28/2008	1100
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Calcium (Ca)	-0.01857							
Magnesium (Mg)	-0.06967							
Potassium (K)	-0.23081							
Sodium (Na)	0.48257							

Job Number.: 354100		Q U A L I T Y C O N T R O L R E S U L T S			Report Date.: 05/29/2008	
CUSTOMER: Conestoga-Rovers and Associates			PROJECT: J.R PHILLIPS		ATTN:	
QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
CCB	Continuing Calibration Blank				05/28/2008	1151
Parameter/Test Description		QC Result	QC Result	True Value	Orig. Value	Calc. Result * Limits F
Calcium (Ca)		-0.02259				
Magnesium (Mg)		-0.08284				
Potassium (K)		-0.30311				
Sodium (Na)		0.44142				
CCB	Continuing Calibration Blank				05/28/2008	1230
Parameter/Test Description		QC Result	QC Result	True Value	Orig. Value	Calc. Result * Limits F
Calcium (Ca)		-0.02783				
Magnesium (Mg)		-0.08707				
Potassium (K)		-0.34446				
Sodium (Na)		0.47204				
CCB	Continuing Calibration Blank				05/28/2008	1351
Parameter/Test Description		QC Result	QC Result	True Value	Orig. Value	Calc. Result * Limits F
Calcium (Ca)		-0.02064				
Magnesium (Mg)		-0.07633				
Potassium (K)		-0.27441				
Sodium (Na)		0.18798				
CCB	Continuing Calibration Blank				05/28/2008	1438
Parameter/Test Description		QC Result	QC Result	True Value	Orig. Value	Calc. Result * Limits F
Calcium (Ca)		-0.01323				
Magnesium (Mg)		-0.06434				
Potassium (K)		-0.16907				
Sodium (Na)		0.15811				
CCB	Continuing Calibration Blank				05/28/2008	1514
Parameter/Test Description		QC Result	QC Result	True Value	Orig. Value	Calc. Result * Limits F
Calcium (Ca)		-0.01213				
Magnesium (Mg)		-0.04769				
Potassium (K)		-0.14623				
Sodium (Na)		0.13391				
CCB	Continuing Calibration Blank				05/28/2008	1610
Parameter/Test Description		QC Result	QC Result	True Value	Orig. Value	Calc. Result * Limits F
Calcium (Ca)		-0.00079				
Magnesium (Mg)		-0.03337				
Potassium (K)		-0.05595				
Sodium (Na)		0.09800				

Job Number.: 354100		Q U A L I T Y C O N T R O L R E S U L T S			Report Date.: 05/29/2008	
CUSTOMER: Conestoga-Rovers and Associates			PROJECT: J.R PHILLIPS		ATTN:	
QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
CCB	Continuing Calibration Blank				05/28/2008	1631
Parameter/Test Description		QC Result	QC Result	True Value	Orig. Value	Calc. Result * Limits F
Calcium (Ca)		0.00072				
Magnesium (Mg)		-0.03834				
Potassium (K)		-0.09200				
Sodium (Na)		0.07915				
CCV	Continuing Calibration Verification	MS052008CC			05/28/2008	0917
Parameter/Test Description		QC Result	QC Result	True Value	Orig. Value	Calc. Result * Limits F
Calcium (Ca)		12.28749		12.50		98.3 90.0-110.0
Magnesium (Mg)		4.70279		5.000		94.1 90.0-110.0
Potassium (K)		12.19663		12.50		97.6 90.0-110.0
Sodium (Na)		12.62000		12.50		101.0 90.0-110.0
CCV	Continuing Calibration Verification	MS052008CC			05/28/2008	1056
Parameter/Test Description		QC Result	QC Result	True Value	Orig. Value	Calc. Result * Limits F
Calcium (Ca)		12.22039		12.50		97.8 90.0-110.0
Magnesium (Mg)		4.63964		5.000		92.8 90.0-110.0
Potassium (K)		12.52725		12.50		100.2 90.0-110.0
Sodium (Na)		12.13835		12.50		97.1 90.0-110.0
CCV	Continuing Calibration Verification	MS052008CC			05/28/2008	1147
Parameter/Test Description		QC Result	QC Result	True Value	Orig. Value	Calc. Result * Limits F
Calcium (Ca)		12.02738		12.50		96.2 90.0-110.0
Magnesium (Mg)		4.58826		5.000		91.8 90.0-110.0
Potassium (K)		12.63315		12.50		101.1 90.0-110.0
Sodium (Na)		12.57669		12.50		100.6 90.0-110.0
CCV	Continuing Calibration Verification	MS052008CC			05/28/2008	1226
Parameter/Test Description		QC Result	QC Result	True Value	Orig. Value	Calc. Result * Limits F
Calcium (Ca)		11.90952		12.50		95.3 90.0-110.0
Magnesium (Mg)		4.63590		5.000		92.7 90.0-110.0
Potassium (K)		12.61691		12.50		100.9 90.0-110.0
Sodium (Na)		12.84091		12.50		102.7 90.0-110.0
CCV	Continuing Calibration Verification	MS052008CC			05/28/2008	1343
Parameter/Test Description		QC Result	QC Result	True Value	Orig. Value	Calc. Result * Limits F
Calcium (Ca)		12.18228		12.50		97.5 90.0-110.0
Magnesium (Mg)		4.65999		5.000		93.2 90.0-110.0
Potassium (K)		12.30685		12.50		98.5 90.0-110.0
Sodium (Na)		12.55244		12.50		100.4 90.0-110.0

Job Number.: 354100		QUALITY CONTROL RESULTS				Report Date.: 05/29/2008		
CUSTOMER: Conestoga-Rovers and Associates			PROJECT: J.R PHILLIPS			ATTN:		
QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time		
CCV	Continuing Calibration Verification	MS052008CC			05/28/2008	1435		
Parameter/Test Description		QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits F	
Calcium (Ca)		12.26347		12.50		98.1	90.0-110.0	
Magnesium (Mg)		4.71293		5.000		94.3	90.0-110.0	
Potassium (K)		12.32393		12.50		98.6	90.0-110.0	
Sodium (Na)		12.73418		12.50		101.9	90.0-110.0	
CCV	Continuing Calibration Verification	MS052008CC			05/28/2008	1510		
Parameter/Test Description		QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits F	
Calcium (Ca)		12.28077		12.50		98.2	90.0-110.0	
Magnesium (Mg)		4.74388		5.000		94.9	90.0-110.0	
Potassium (K)		12.17980		12.50		97.4	90.0-110.0	
Sodium (Na)		12.66389		12.50		101.3	90.0-110.0	
CCV	Continuing Calibration Verification	MS052008CC			05/28/2008	1606		
Parameter/Test Description		QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits F	
Calcium (Ca)		12.49933		12.50		100.0	90.0-110.0	
Magnesium (Mg)		4.82107		5.000		96.4	90.0-110.0	
Potassium (K)		12.04128		12.50		96.3	90.0-110.0	
Sodium (Na)		12.45924		12.50		99.7	90.0-110.0	
CCV	Continuing Calibration Verification	MS052008CC			05/28/2008	1627		
Parameter/Test Description		QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits F	
Calcium (Ca)		12.56621		12.50		100.5	90.0-110.0	
Magnesium (Mg)		4.78596		5.000		95.7	90.0-110.0	
Potassium (K)		12.06625		12.50		96.5	90.0-110.0	
Sodium (Na)		12.32103		12.50		98.6	90.0-110.0	
CH1	Calibration check standard 1	MS050708T1			05/28/2008	0906		
Parameter/Test Description		QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits F	
Calcium (Ca)		0.09815		0.1000		98.2	80.0-120.0	
Magnesium (Mg)		0.08216		0.1000		82.2	80.0-120.0	
Potassium (K)		0.48911		0.60000		81.5	80.0-120.0	
Sodium (Na)		0.65639		0.60000		109.4	80.0-120.0	
CH1	Calibration check standard 1	MS050708T1			05/28/2008	1615		
Parameter/Test Description		QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits F	
Calcium (Ca)		0.09246		0.1000		92.5	80.0-120.0	
Potassium (K)		0.50216		0.60000		83.7	80.0-120.0	

Job Number.: 354100		Q U A L I T Y C O N T R O L R E S U L T S			Report Date.: 05/29/2008	
CUSTOMER: Conestoga-Rovers and Associates			PROJECT: J.R PHILLIPS		ATTN:	
QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
CH3	Standard check for ICAP	MS041408T3			05/28/2008	0854
Parameter/Test Description		QC Result	QC Result	True Value	Orig. Value	Calc. Result * Limits F
Calcium (Ca)		19.82477		20.00		99.1 95.0-105.0
Magnesium (Mg)		19.78650		20.00		98.9 95.0-105.0
Potassium (K)		20.20104		20.00		101.0 95.0-105.0
Sodium (Na)		20.13417		20.00		100.7 95.0-105.0
EB	Extraction Blank			199563		05/28/2008 1025
Parameter/Test Description		QC Result	QC Result	True Value	Orig. Value	Calc. Result * Limits F
Calcium (Ca), Diss.		0.01623				
Magnesium (Mg), Diss.		-0.01307				
Potassium (K), Diss.		0.01731				
Sodium (Na), Diss.		0.10671				
EB	Extraction Blank			199563		05/28/2008 1131
Parameter/Test Description		QC Result	QC Result	True Value	Orig. Value	Calc. Result * Limits F
Calcium (Ca), TCLP		-0.02886				
Magnesium (Mg), TCLP		-0.10152				
Potassium (K), TCLP		-0.32805				
ICB	Initial Calibration Blank					05/28/2008 0902
Parameter/Test Description		QC Result	QC Result	True Value	Orig. Value	Calc. Result * Limits F
Calcium (Ca)		-0.00121				
Magnesium (Mg)		-0.01660				
Potassium (K)		-0.11092				
Sodium (Na)		0.00358				
ICV	Initial Calibration Verification		MS052008CC			05/28/2008 0858
Parameter/Test Description		QC Result	QC Result	True Value	Orig. Value	Calc. Result * Limits F
Calcium (Ca)		12.39515		12.50		99.2 90.0-110.0
Magnesium (Mg)		4.82661		5.000		96.5 90.0-110.0
Potassium (K)		12.08872		12.50		96.7 90.0-110.0
Sodium (Na)		12.49906		12.50		100.0 90.0-110.0
ISA	Interference Check Sample A		MS040808IA			05/28/2008 0909
Parameter/Test Description		QC Result	QC Result	True Value	Orig. Value	Calc. Result * Limits F
Calcium (Ca)		483.33859		500.0		96.7 80-120
Magnesium (Mg)		531.87048		500.0		106.4 80-120
Potassium (K)		0.07422		0.0		
Sodium (Na)		0.03567		0.0		

Q U A L I T Y C O N T R O L R E S U L T S								
Job Number.: 354100					Report Date.: 05/29/2008			
CUSTOMER: Conestoga-Rovers and Associates			PROJECT: J.R PHILLIPS			ATTN:		
QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time		
ISA	Interference Check Sample A	MS040808IA			05/28/2008	1619		
Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Calcium (Ca)	487.40963		500.0		97.5		80-120	
Magnesium (Mg)	534.24530		500.0		106.8		80-120	
Potassium (K)	0.06197		0.0					
Sodium (Na)	0.13605		0.0					
ISB	Interference Check Sample B	MS040808IB			05/28/2008	0913		
Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Calcium (Ca)	496.99871		510.0		97.5		80.0-120.0	
Magnesium (Mg)	541.32458		510.0		106.1		80.0-120.0	
ISB	Interference Check Sample B	MS040808IB			05/28/2008	1623		
Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Calcium (Ca)	500.33496		510.0		98.1		80.0-120.0	
Magnesium (Mg)	545.70373		510.0		107.0		80.0-120.0	
LCS	Laboratory Control Sample	MSPIKEW	199563		05/28/2008	1021		
Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Calcium (Ca), Water	10.30901		10.00		103.1		80.0-120.0	
Magnesium (Mg), Water	9.69738		10.00		97.0		80.0-120.0	
Potassium (K), Water	10.13922		10.00		101.4		80.0-120.0	
Sodium (Na), Water	10.36908		10.00		103.7		80.0-120.0	
MB	Method Blank		199563		05/28/2008	1017		
Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Calcium (Ca), Water	-0.00931							
Magnesium (Mg), Water	-0.01705							
Potassium (K), Water	0.00325							
Sodium (Na), Water	0.00211							
MD	Method Duplicate		354100-1		05/28/2008	1033		
Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Calcium (Ca), Diss.	422.68109	427.10284		427.10284	1.0		20	
Magnesium (Mg), Diss.	190.88548	191.59106		191.59106	0.4		20	

Job Number.: 354100			Q U A L I T Y C O N T R O L R E S U L T S			Report Date.: 05/29/2008		
CUSTOMER: Conestoga-Rovers and Associates			PROJECT: J.R PHILLIPS			ATTN:		
QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time		
MD	Method Duplicate		354541-1		05/28/2008	1159		
Parameter/Test Description		QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Calcium (Ca), TCLP		323.10516	322.43228		322.43228	0.2	20	
Magnesium (Mg), TCLP		15.98331	15.88644		15.88644	0.6	20	
Potassium (K), TCLP		2.34694	2.29576		2.29576	0.05118	2.00000	
MD	Method Duplicate		354100-1	10	05/28/2008	1308		
Parameter/Test Description		QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Potassium (K), Diss.		5.35010	5.35591		5.35591	0.00581	2.00000	
MD	Method Duplicate		354100-1	100	05/28/2008	1419		
Parameter/Test Description		QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Sodium (Na), Diss.		36.51709	35.23717		35.23717	3.6	20	
MS	Matrix Spike	MSPIKEW	354100-1		05/28/2008	1037		
Parameter/Test Description		QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Calcium (Ca), Diss.		427.53030		10.00	427.10284	4.3	75-125	
Magnesium (Mg), Diss.		198.59024		10.00	191.59106	70.0	75-125	
MS	Matrix Spike	MSPIKEW	354541-1		05/28/2008	1203		
Parameter/Test Description		QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Calcium (Ca), TCLP		335.19650		10.00	322.43228	127.6	75-125	
Magnesium (Mg), TCLP		25.84531		10.00	15.88644	99.6	75-125	
Potassium (K), TCLP		23.45923		10.00	2.29576	211.6	75-125	a
MS	Matrix Spike	MSPIKEW	354100-1	10	05/28/2008	1312		
Parameter/Test Description		QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Potassium (K), Diss.		6.92254		1.000000	5.35591	156.7	75-125	
MS	Matrix Spike	MSPIKEW	354100-1	100	05/28/2008	1423		
Parameter/Test Description		QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Sodium (Na), Diss.		36.20420		0.100000	35.23717	967.0	75-125	

Job Number.: 354100		Q U A L I T Y C O N T R O L R E S U L T S				Report Date.: 05/29/2008		
CUSTOMER: Conestoga-Rovers and Associates			PROJECT: J.R PHILLIPS			ATTN:		
QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time		
MSD	Matrix Spike Duplicate	MSPIKEW	354100-1		05/28/2008	1041		
Parameter/Test Description		QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Calcium (Ca), Diss.		419.64294	427.53030	10.00	427.10284	-74.6	75-125	
Magnesium (Mg), Diss.		196.69259	198.59024	10.00	191.59106	224.5	20	C
						51.0	75-125	
						31.4	20	C
MSD	Matrix Spike Duplicate	MSPIKEW	354541-1			05/28/2008	1207	
Parameter/Test Description		QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Calcium (Ca), TCLP		335.11251	335.19650	10.00	322.43228	126.8	75-125	
Magnesium (Mg), TCLP		25.78034	25.84531	10.00	15.88644	0.6	20	
						98.9	75-125	
Potassium (K), TCLP		23.34678	23.45923	10.00	2.29576	0.7	20	
						210.5	75-125	a
						0.5	20	
MSD	Matrix Spike Duplicate	MSPIKEW	354100-1	10		05/28/2008	1316	
Parameter/Test Description		QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Potassium (K), Diss.		6.95149	6.92254	1.000000	5.35591	159.6	75-125	
						1.8	20	
MSD	Matrix Spike Duplicate	MSPIKEW	354100-1	100		05/28/2008	1427	
Parameter/Test Description		QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Sodium (Na), Diss.		36.56295	36.20420	0.100000	35.23717	1325.8	75-125	
						31.3	20	C
PDS	Post Digestion Spike	MSPIKE3	354100-1			05/28/2008	1218	
Parameter/Test Description		QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Calcium (Ca), Diss.		415.33190		10.00	427.10284	-117.7	75-125	
Magnesium (Mg), Diss.		198.47653		10.00	191.59106	68.9	75-125	
PDS	Post Digestion Spike	MSPIKE3	354100-1	10		05/28/2008	1407	
Parameter/Test Description		QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Potassium (K), Diss.		19.77471		10.00	5.35591	144.2	75-125	A

Job Number.: 354100		Q U A L I T Y C O N T R O L R E S U L T S				Report Date.: 05/29/2008			
CUSTOMER: Conestoga-Rovers and Associates			PROJECT: J.R PHILLIPS			ATTN:			
QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time			
S0	Calibration Blank				05/28/2008	0846			
Parameter/Test Description		QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Calcium (Ca)		0.00294							
Magnesium (Mg)		0.01077							
Potassium (K)		0.27960							
Sodium (Na)		0.01834							
SD	Serial Dilution			354100-1	5		05/28/2008	1222	
Parameter/Test Description		QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Calcium (Ca), Diss.		89.62976			427.10284	4.9		10.0	
Magnesium (Mg), Diss.		40.55711			191.59106	5.8		10.0	
Potassium (K), Diss.		12.91689			76.48688	15.6		10.0	e
SD	Serial Dilution			354100-1	50		05/28/2008	1411	
Parameter/Test Description		QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Potassium (K), Diss.		0.64002			5.35591	40.3		10.0	e
STD	Spiked Blank Duplicate						05/28/2008	0849	
Parameter/Test Description		QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Calcium (Ca)		0.29422							
Magnesium (Mg)		0.44686							
Potassium (K)		2.11538							
Sodium (Na)		5.44277							

QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 05/29/2008

REPORT COMMENTS

- 1) All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.
- 2) Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.
- 3) According to 40CFR Part 136.3, pH, Chlorine Residual, and Dissolved Oxygen analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field, (e.g. pH Field) they were not analyzed immediately, but as soon as possible on laboratory receipt.
- 4) For all USACE projects, the QC limits are based on "mean +/- 2 sigma", which are the warning limits.

General Information:

- Cresylic Acid is the combination of o,m and p-Cresol. The combination is reported as the final result.
- m-Cresol (3-Methylphenol) and p-Cresol (4-methylphenol) co-elute. The result of the two is reported as either m&p-cresol or as 4-methylphenol (p-cresol).
- m-Xylene and p-Xylene co-elute. The result of the two is reported as m,p-Xylene.
- N-Nitrosodiphenylamine decomposes in the gas chromatograph inlet forming dipheylamine and, consequently, may be detected as diphenylamine.
- Methylene Chloride and Acetone are recognized potential laboratory contaminants. Its presence in the sample up to five times the amount reported in the blank may be attributed to laboratory contamination.
- Trimethylsilyl(Diazomethane) is used to esterify acid herbicides in Method SW-846 8151A.
- For Inorganic analyses, duplicate QC limits are determined as follows: If the sample result is less than or equal to 5 times the reporting limit, the RPD limit is equal to the reporting limit. If the sample result is greater than 5 times the reporting limit, the RPD limit is the method defined RPD.
- For TRRP reports, the header on the column RL is equivalent to a MQL/PQL.
- Results for LCS and MS/MSD recoveries listed in the report are reported as ug/L on-column values which are not corrected for variables such as sample volumes or weights extracted, final volume of extracts and dilutions. To correct QC on-column recoveries to reflect actual spiking volumes for soils, multiply the values reported for Diesel Range Organics and Semivolatiles by 33.3 and Gasoline Range Organics by 20. The 8260 and 1006 results will not require correction. The only corection required for water analysis is for method 1006 where the reported concentraiton must be multiplied by 0.1.
- Due to limitation of the reporting software, results for the Method blank in the Semivolatile fraction are reported as "0". Which indicates there was no compound detected at the reporting limit for the compound reveiwed.
- The dilution factor listed on the report represents only the analytical dilutions necessary for the target compounds to be within the calibration range of the instrument. It does not include any preparation factors, dry weight or any other adjustment.

Explanation of Qualifiers:

- U - This qualifier indicates that the analyte was analyzed but not detected.
- J - (Organics only) This qualifier indicates that the analyte is an estimated value between the RL and the MDL.
- B - (Inorganics only) This Qualifier indicates that the analyte is an estimated value between the RL and the MDL.
- N - (Organics only) This flag indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It is applied to all TIC results. For generic charachterization of a TIC, such as "chlorinated hydrocarbon", the "N" flag is not used.

Explanation of General QC Outliers:

- A - Matrix interference present in sample.
- a - MS/MSD analyses yielded comparable poor recoveries, indicating a possible matrix interference. Method performance is demonstrated by acceptable LCS recoveries.
- b - Target analyte was found in the method blank.
- M - QC sample analysis yielded recoveries outside QC acceptance criteria. This sample was reanalyzed.
- L - LCS analysis yielded high recoveries, indicating a potential high bias. No target analytes were

QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 05/29/2008

observed above the RL in the associated samples.

G - Marginal outlier within 1% of acceptance criteria.

r - RPD value is outside method acceptance criteria.

C - Poor RPD values observed due to the non-homogenous nature of the sample.

O - Sample required dilution due to matrix interference.

D - Sample reported from a dilution.

d - Spike and/or surrogate diluted.

E - The reported concentration exceeds the instrument calibration.

F - The analyte is outside QC limits and was not detected in any associated samples in the analytical batch.

H - Continuing Calibration Verification (CCV) standard is not associated with the samples reported.

q - See the subcontract final report for qualifier explanation.

W - The MS/MSD recoveries are outside QC acceptance criteria because the amount spiked is much less than the amount found in the sample.

K - High recovery will not affect the quality of reported results.

Z - See case narrative.

Explanation of Organic QC Outliers:

e - Method blank analysis yielded phthalate concentrations above the RL. Phthalates are recognized potential laboratory contaminants. Its presence in the sample up to five times the amount reported in the blank may be attributed to laboratory contamination.

S - Sample reanalyzed/reextracted due to poor surrogate recovery. Reanalysis confirmed original analysis indicating a possible matrix interference.

T - Sample analysis yielded poor surrogate recovery.

R - The RPD between the two GC columns is greater than 40% and no anomalies are present. The higher result is reported as per EPA Method 8000B.

I - The RPD between the two GC columns is greater than 40% and anomalies are present. The lower of the two results has been reported.

X - Gaseous compound. In-house QC limits are advisory.

Y - Ketone compounds have poor purge efficiency. In-house QC limits are advisory.

f - Surrogate not associated with reported analytes.

Explanation of Inorganic QC Outliers:

Q - Method blank analysis yielded target analytes above the RL. Associated sample results are greater than 10 times the concentrations observed in the method blank.

V - The RPD control limit for sample results less than 5 times the RL is +/- the RL value. Sample and duplicate results are within method acceptance criteria.

e - Serial dilution failed due to matrix interference.

g - Sample result quantitated by Method of Standard Additions (MSA) due to the analytical spike recovery being below 85 percent. The correlation coefficient for the MSA is greater than or equal to 0.995.

s - BOD/CBOD seed value is not within method acceptance criteria. Due to the nature of the test method, the sample cannot be reanalyzed.

l - BOD/CBOD LCS value is not within method acceptance criteria. Due to the nature of the test method, sample cannot be reanalyzed.

N - Spiked sample recovery is not within control limits.

n - Sample result quantitated by Method of Standard Additions (MSA) due to the analytical spike recovery being below 85 percent. The correlation coefficient for the MSA is less than 0.995.

* - Duplicate analysis is not within control limits.

Abbreviations:

Batch - Designation given to identify a specific extraction, digestion, preparation, or analysis set.

CCV - Continuing Calibration Verification

CRA - Low level standard check - GEAA, Mercury

CRI - Low level standard check - ICP

Dil Fac - Dilution Factor - Secondary dilution analysis

QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 05/29/2008

DLFac - Detection Limit Factor
DU - Duplicate
EB - Extraction Blank (TCLP, SPLP, etc.)
ICAL - Initial Calibration
ICB - Initial Calibration Blank
ICV - Initial Calibration Verification
ISA - Interference Check Sample A - ICP
ISB - Interference Check Sample B - ICP
LCD - Laboratory Control Duplicate
LCS - Laboratory Control Sample
MB - Method Blank
MD - Method Duplicate
MDL - Method Detection Limit
MQL - Method Quantitation Limit (TRRP)
MS - Matrix Spike
MSD - Matrix Spike Duplicate
ND - Not Detected
PB - Preparation Blank
PREPF - Preparation Factor
RL - Reporting Limit
RPD - Relative Percent Difference
RRF - Relative Response Factor
RT - Retention Time
SQL - Sample Quantitation Limit (TRRP)
TIC - Tentatively Identified Compound

Method References:

- (1) EPA 600/4-79-020 Methods for the Analysis of Water and Wastes, March 1983.
- (2) EPA 600/R-94-111 Methods for the Determination of Metals in Environmental Samples, Supplement I, May 1994.
- (3) EPA SW846 Test Methods for Evaluating Solid Waste, Third Edition, September 1986; Update I July 1992; Update II, September 1994, Update IIA August 1993; Update IIB, January 1995; Update III, December 1996, Update IVA January 1998, Update IVB November 2000.
- (4) Standard Methods for the Examination of Water and Wastewater, 16th Edition (1985), 17th Edition (1989), 18th Edition (1992), 19th Edition (1995), 20th Edition (1998).
- (5) HACH Water Analysis Handbook 3rd Edition (1997).
- (6) Federal Register, July 1, 1990 (40 CFR Part 136 Appendix A).
- (7) Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, 2nd Edition, January 1997.
- (9) Diagnosis and Improvement of Saline and Alkali Soils, Agriculture Handbook No. 60, United States Department of Agriculture, 1954.

LABORATORY CHRONICLE

Job Number: 354100

Date: 05/29/2008

CUSTOMER: Conestoga-Rovers and Associates

PROJECT: J.R PHILLIPS

ATTN: Todd Wells

Lab ID: 354100-1	Client ID: MW-1	Date Recvd: 05/14/2008	Sample Date: 05/13/2030
METHOD	DESCRIPTION	RUN#	BATCH# PREP BT # (S) DATE/TIME ANALYZED DILUTION
SW-846 3005A	Acid Digest. for ICP - Total Recoverable	1	199563 05/27/2008 1535
SM 2320 B	Alkalinity	1	199280 05/21/2008 1425
	Electronic Data Deliverables	1	
EPA 300.0	Ion Chromatography Analysis	1	198924 05/14/2008 1346 5
EPA 300.0	Ion Chromatography Analysis	1	198924 05/14/2008 1402 100
EPA 300.0	Ion Chromatography Analysis	1	198924 05/14/2008 1418 1000
EPA300.0 Rev2.	Ion Chromatography Analysis - Short Hold	1	198924 05/14/2008 1346 5
SW-846 6010B	Metals Analysis (ICAP Trace)	1	199638 199563 05/28/2008 1029
SW-846 6010B	Metals Analysis (ICAP Trace)	1	199638 199563 05/28/2008 1304 10
SW-846 6010B	Metals Analysis (ICAP Trace)	1	199638 199563 05/28/2008 1415 100
N/A	Sample Filtration	1	199538 05/27/2008 1330
SM 2540C	Solids, Total Dissolved (TDS)	1	199020 05/15/2008 1640

Lab ID: 354100-2	Client ID: MW-2	Date Recvd: 05/14/2008	Sample Date: 05/13/2030
METHOD	DESCRIPTION	RUN#	BATCH# PREP BT # (S) DATE/TIME ANALYZED DILUTION
SW-846 3005A	Acid Digest. for ICP - Total Recoverable	1	199563 05/27/2008 1535
SM 2320 B	Alkalinity	1	199280 05/21/2008 1425
EPA 300.0	Ion Chromatography Analysis	1	198924 05/14/2008 1433 5
EPA 300.0	Ion Chromatography Analysis	1	198924 05/14/2008 1449 100
EPA 300.0	Ion Chromatography Analysis	1	198924 05/14/2008 1505 1000
EPA300.0 Rev2.	Ion Chromatography Analysis - Short Hold	1	198924 05/14/2008 1433 5
SW-846 6010B	Metals Analysis (ICAP Trace)	1	199638 199563 05/28/2008 1045
SW-846 6010B	Metals Analysis (ICAP Trace)	1	199638 199563 05/28/2008 1320 10
SW-846 6010B	Metals Analysis (ICAP Trace)	1	199638 199563 05/28/2008 1431 100
N/A	Sample Filtration	1	199538 05/27/2008 1330
SM 2540C	Solids, Total Dissolved (TDS)	1	199020 05/15/2008 1640

Lab ID: 354100-3	Client ID: MW-3	Date Recvd: 05/14/2008	Sample Date: 05/13/2030
METHOD	DESCRIPTION	RUN#	BATCH# PREP BT # (S) DATE/TIME ANALYZED DILUTION
SW-846 3005A	Acid Digest. for ICP - Total Recoverable	1	199563 05/27/2008 1535
SM 2320 B	Alkalinity	1	199280 05/21/2008 1425
EPA 300.0	Ion Chromatography Analysis	1	198924 05/14/2008 1520 5
EPA 300.0	Ion Chromatography Analysis	1	198924 05/14/2008 1536 100
EPA 300.0	Ion Chromatography Analysis	1	198924 05/14/2008 1623 1000
EPA300.0 Rev2.	Ion Chromatography Analysis - Short Hold	1	198924 05/14/2008 1520 5
SW-846 6010B	Metals Analysis (ICAP Trace)	1	199638 199563 05/28/2008 1048
SW-846 6010B	Metals Analysis (ICAP Trace)	1	199638 199563 05/28/2008 1324 10
SW-846 6010B	Metals Analysis (ICAP Trace)	1	199638 199563 05/28/2008 1558 200
N/A	Sample Filtration	1	199538 05/27/2008 1330
SM 2540C	Solids, Total Dissolved (TDS)	1	199020 05/15/2008 1640

Lab ID: 354100-4	Client ID: MW-4	Date Recvd: 05/14/2008	Sample Date: 05/13/2030
METHOD	DESCRIPTION	RUN#	BATCH# PREP BT # (S) DATE/TIME ANALYZED DILUTION
SW-846 3005A	Acid Digest. for ICP - Total Recoverable	1	199563 05/27/2008 1535
SM 2320 B	Alkalinity	1	199280 05/21/2008 1425
EPA 300.0	Ion Chromatography Analysis	1	198924 05/14/2008 1638 5
EPA 300.0	Ion Chromatography Analysis	1	198924 05/14/2008 1654 100
EPA 300.0	Ion Chromatography Analysis	1	198924 05/14/2008 1710 1000
EPA300.0 Rev2.	Ion Chromatography Analysis - Short Hold	1	198924 05/14/2008 1638 5
SW-846 6010B	Metals Analysis (ICAP Trace)	1	199638 199563 05/28/2008 1052
SW-846 6010B	Metals Analysis (ICAP Trace)	1	199638 199563 05/28/2008 1446 100
N/A	Sample Filtration	1	199538 05/27/2008 1330
SM 2540C	Solids, Total Dissolved (TDS)	1	199020 05/15/2008 1640

Lab ID: 354100-5	Client ID: MW-5	Date Recvd: 05/14/2008	Sample Date: 05/13/2030
METHOD	DESCRIPTION	RUN#	BATCH# PREP BT # (S) DATE/TIME ANALYZED DILUTION
SW-846 3005A	Acid Digest. for ICP - Total Recoverable	1	199563 05/27/2008 1535

LABORATORY CHRONICLE

Job Number: 354100

Date: 05/29/2008

CUSTOMER: Conestoga-Rovers and Associates

PROJECT: J.R PHILLIPS

ATTN: Todd Wells

Lab ID: 354100-5	Client ID: MW-5	Date Recvd: 05/14/2008	Sample Date: 05/13/2030					
METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT	#(S)	DATE/TIME ANALYZED	DILUTION	
SM 2320 B	Alkalinity	1	199280			05/21/2008 1425		
EPA 300.0	Ion Chromatography Analysis	1	198924			05/14/2008 1725	5	
EPA 300.0	Ion Chromatography Analysis	1	198924			05/14/2008 1741	100	
EPA 300.0	Ion Chromatography Analysis	1	198924			05/14/2008 1756	1000	
EPA300.0 Rev2.	Ion Chromatography Analysis - Short Hold	1	198924			05/14/2008 1725	5	
SW-846 6010B	Metals Analysis (ICAP Trace)	1	199638	199563		05/28/2008 1104		
SW-846 6010B	Metals Analysis (ICAP Trace)	1	199638	199563		05/28/2008 1332	10	
SW-846 6010B	Metals Analysis (ICAP Trace)	1	199638	199563		05/28/2008 1450	100	
N/A	Sample Filtration	1	199538			05/27/2008 1330		
SM 2540C	Solids, Total Dissolved (TDS)	1	199020			05/15/2008 1640		
Lab ID: 354100-6	Client ID: MW-6	Date Recvd: 05/14/2008	Sample Date: 05/13/2030					
METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT	#(S)	DATE/TIME ANALYZED	DILUTION	
SW-846 3005A	Acid Digest. for ICP - Total Recoverable	1	199563			05/27/2008 1535		
SM 2320 B	Alkalinity	1	199280			05/21/2008 1425		
EPA 300.0	Ion Chromatography Analysis	1	198924			05/14/2008 1812	5	
EPA 300.0	Ion Chromatography Analysis	1	198924			05/14/2008 1828	100	
EPA 300.0	Ion Chromatography Analysis	1	198924			05/14/2008 1843	1000	
EPA300.0 Rev2.	Ion Chromatography Analysis - Short Hold	1	198924			05/14/2008 1812	5	
SW-846 6010B	Metals Analysis (ICAP Trace)	1	199638	199563		05/28/2008 1108		
SW-846 6010B	Metals Analysis (ICAP Trace)	1	199638	199563		05/28/2008 1336	10	
SW-846 6010B	Metals Analysis (ICAP Trace)	1	199638	199563		05/28/2008 1602	200	
N/A	Sample Filtration	1	199538			05/27/2008 1330		
SM 2540C	Solids, Total Dissolved (TDS)	1	199020			05/15/2008 1640		
Lab ID: 354100-7	Client ID: MW-7	Date Recvd: 05/14/2008	Sample Date: 05/13/2030					
METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT	#(S)	DATE/TIME ANALYZED	DILUTION	
SW-846 3005A	Acid Digest. for ICP - Total Recoverable	1	199563			05/27/2008 1535		
SM 2320 B	Alkalinity	1	199280			05/21/2008 1425		
EPA 300.0	Ion Chromatography Analysis	1	198924			05/14/2008 1930	5	
EPA 300.0	Ion Chromatography Analysis	1	198924			05/14/2008 1946	100	
EPA 300.0	Ion Chromatography Analysis	1	198924			05/14/2008 2001	1000	
EPA300.0 Rev2.	Ion Chromatography Analysis - Short Hold	1	198924			05/14/2008 1930	5	
SW-846 6010B	Metals Analysis (ICAP Trace)	1	199638	199563		05/28/2008 1112		
SW-846 6010B	Metals Analysis (ICAP Trace)	1	199638	199563		05/28/2008 1339	10	
SW-846 6010B	Metals Analysis (ICAP Trace)	1	199638	199563		05/28/2008 1458	100	
N/A	Sample Filtration	1	199538			05/27/2008 1330		
SM 2540C	Solids, Total Dissolved (TDS)	1	199020			05/15/2008 1640		
Lab ID: 354100-8	Client ID: MW-8	Date Recvd: 05/14/2008	Sample Date: 05/13/2030					
METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT	#(S)	DATE/TIME ANALYZED	DILUTION	
SW-846 3005A	Acid Digest. for ICP - Total Recoverable	1	199563			05/27/2008 1535		
SM 2320 B	Alkalinity	1	199280			05/21/2008 1425		
EPA 300.0	Ion Chromatography Analysis	1	198924			05/14/2008 2017	5	
EPA 300.0	Ion Chromatography Analysis	1	198924			05/14/2008 2048	100	
EPA300.0 Rev2.	Ion Chromatography Analysis - Short Hold	1	198924			05/14/2008 2017	5	
SW-846 6010B	Metals Analysis (ICAP Trace)	1	199638	199563		05/28/2008 1120		
SW-846 6010B	Metals Analysis (ICAP Trace)	1	199638	199563		05/28/2008 1355	10	
SW-846 6010B	Metals Analysis (ICAP Trace)	1	199638	199563		05/28/2008 1502	100	
N/A	Sample Filtration	1	199538			05/27/2008 1330		
SM 2540C	Solids, Total Dissolved (TDS)	1	199020			05/15/2008 1640		
Lab ID: 354100-9	Client ID: WATER WELL	Date Recvd: 05/14/2008	Sample Date: 05/13/2030					
METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT	#(S)	DATE/TIME ANALYZED	DILUTION	
SW-846 3005A	Acid Digest. for ICP - Total Recoverable	1	199563			05/27/2008 1535		

L A B O R A T O R Y C H R O N I C L E

Job Number: 354100

Date: 05/29/2008

CUSTOMER: Conestoga-Rovers and Associates

PROJECT: J.R PHILLIPS

ATTN: Todd Wells

Lab ID: 354100-9	Client ID: WATER WELL	Date Recvd: 05/14/2008	Sample Date: 05/13/2030
METHOD	DESCRIPTION	RUN#	BATCH#
SM 2320 B	Alkalinity	1	199280
EPA 300.0	Ion Chromatography Analysis	1	198924
EPA 300.0	Ion Chromatography Analysis	1	198924
EPA 300.0	Ion Chromatography Analysis	1	198924
EPA300.0 Rev2.	Ion Chromatography Analysis - Short Hold	1	198924
SW-846 6010B	Metals Analysis (ICAP Trace)	1	199638 199563
N/A	Sample Filtration	1	199538
SM 2540C	Solids, Total Dissolved (TDS)	1	199020

DATE/TIME ANALYZED	DILUTION
05/21/2008 1425	
05/14/2008 2135	10
05/14/2008 2151	100
05/14/2008 2238	1000
05/14/2008 2135	10
05/28/2008 1359	100
05/27/2008 1330	
05/15/2008 1640	

Lab ID: 354100-10	Client ID: DUPE	Date Recvd: 05/14/2008	Sample Date: 05/13/2030
METHOD	DESCRIPTION	RUN#	BATCH#
SW-846 3005A	Acid Digest. for ICP - Total Recoverable	1	199563
SM 2320 B	Alkalinity	1	199280
EPA 300.0	Ion Chromatography Analysis	1	198924
EPA 300.0	Ion Chromatography Analysis	1	198924
EPA300.0 Rev2.	Ion Chromatography Analysis - Short Hold	1	198924
SW-846 6010B	Metals Analysis (ICAP Trace)	1	199638 199563
SW-846 6010B	Metals Analysis (ICAP Trace)	1	199638 199563
SW-846 6010B	Metals Analysis (ICAP Trace)	1	199638 199563
N/A	Sample Filtration	1	199538
SM 2540C	Solids, Total Dissolved (TDS)	1	199020

DATE/TIME ANALYZED	DILUTION
05/27/2008 1535	
05/21/2008 1425	
05/14/2008 2253	5
05/14/2008 2325	100
05/14/2008 2253	5
05/28/2008 1127	
05/28/2008 1403	10
05/28/2008 1506	100
05/27/2008 1330	
05/15/2008 1640	

TestAmerica

Chain of Custody Record

Temperature on Receipt _____
Drinking Water? Yes ☐ No ☒

354100

THE LEADER IN ENVIRONMENTAL TESTING

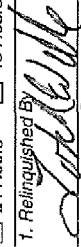
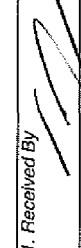
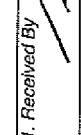
TAL-4124 (1007)

Client	CRA	Project Manager	Todd Wells	Date	5-13-08	Chain of Custody Number	070823
Address	2135 S. Loop 250 W.	Telephone Number (Area Code)/Fax Number	(432) 686-0086 / (432) 686-0186	Lab Number	Houston	Page	1 of 1
City	Midland	State	TX	Zip Code	79703	Analysis (Attach list if more space is needed)	
Project Name and Location (State)	J.R. Phillips Lea County, NM	Site Contact	Todd Wells	Lab Contact	Sachin Kudchadkar		
Contract/Purchase Order/Quote No.		Carrier/Waybill Number					

Special Instructions/
Conditions of Receipt

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix					Containers & Preservatives						
			Air	Aqueous	Sed.	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc2	NaOH	Ice
MW-1	5-13-08	1210	X	X			X							
MW-2	5-13-08	1230	X	X			X							
MW-3	5-13-08	1350	X	X			X							
MW-4	5-13-08	1315	X	X			X							
MW-5	5-13-08	1325	X	X			X							
MW-6	5-13-08	1400	X	X			X							
MW-7	5-13-08	1255	X	X			X							
MW-8	5-13-08	1120	X	X			X							
Water Well	5-13-08	1145	X	X			X							
Dupe	5-13-08	—	X	X			X							

Possible Hazard Identification	Sample Disposal	QC Requirements (Specify)
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months	(A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required	1. Relinquished By	2. Relinquished By	3. Relinquished By
☐ 24 Hours ☐ 48 Hours ☒ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other	 Date: 5-13-08 Time: 1720	 Date: 5-13-08 Time: 1541	 Date: 5-13-08 Time: 1541

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy