1R – 255

AGWMR

06/26/2008

Chevron

Matthew P. Hudson
Remediation Project Manager

Upstream Business Unit
Chevron Environmental Management Company
1400 Smith St
Room 40038
Houston, TX 77002
Tel 713 372 1046
mhudson@chevron.com

June 26, 2008

Mr. Glenn von Gonten
New Mexico Oil Conservation Division
1220 So. St. Francis Drive
Santa Fe, New Mexico 87505

Subject: 2007 Annual Groundwater Monitoring Reports

Dear Glenn:

Please find enclosed one copy each of the 2007 Annual Groundwater Monitoring Reports for the following sites:

- **1R-254: G.L. Erwin "A and B" Federal NCT-2 Tank Battery, Lea County, NM**
- **1R-255: J.R. Philips Tank Battery No. 2, Lea County, NM**
- **1R-258: Former New Mexico State "F" Tank Battery, Lea County, NM**
- **1R-289: Cooper-Jal Unit South Injection Station, Lea County, NM**

Should you have any questions regarding these reports, please contact me at (713) 372-1046.

Sincerely,

Matthew P. Hudson

Enclosures

cc: Patricia Caperton, NMOCD-Hobbs (electronic copies of reports)
Luke Markham, Conestoga-Rovers & Associates
James Ornelas, Conestoga-Rovers & Associates
Todd Wells, Conestoga-Rovers & Associates

2007 ANNUAL GROUNDWATER MONITORING REPORT

J.R. PHILLPS 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

Prepared For:
Mr. Matt Hudson
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
Upstream Business Unit
1400 Smith Street, Room 40038
Houston, Texas 77002

Prepared by:
Conestoga-Rovers & Associates

2135 S Loop 250 West
Midland, Texas 79703

Office: 432-686-0086
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JUNE 12, 2008
REF. NO. 039126 (3)

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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 30 and 31, 2007.

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 30 and 31, 2007.

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 (Pace Analytical Services, Inc. located in St. Rose, Louisiana) for analysis of major cations, anions and TDS by Environmental Protection Agency (EPA) Methods 6010B, 310.2, 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 2007 is presented as FIGURE 3. Depth to groundwater ranged from 29.47 feet to 35.50 feet below top of casing on May 30, 2007. Groundwater flow at the Site is to the southeast at a gradient of approximately 0.009 feet/foot.

3.2 ANALYTICAL RESULTS

Analytical results are summarized in TABLE II. Isopleths of the chloride, sulfate and TDS concentrations for the May 2007 groundwater monitoring event are presented as FIGURES 4, 5 and 6, respectively.

The analytical results generally fall within historical ranges. During the May 2007 sampling event, all nine wells sampled exceeded the NMWQCC groundwater standards for chloride and TDS. In addition, eight monitor wells (MW-1 through MW-8) exceeded the NMWQCC groundwater standard for sulfate. Fluoride and nitrate concentrations were below laboratory detection limits during the 2007 sampling event. 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 2008, with submission of an annual report to the NMOCD, detailing the results of activities.

5.0 SUMMARY

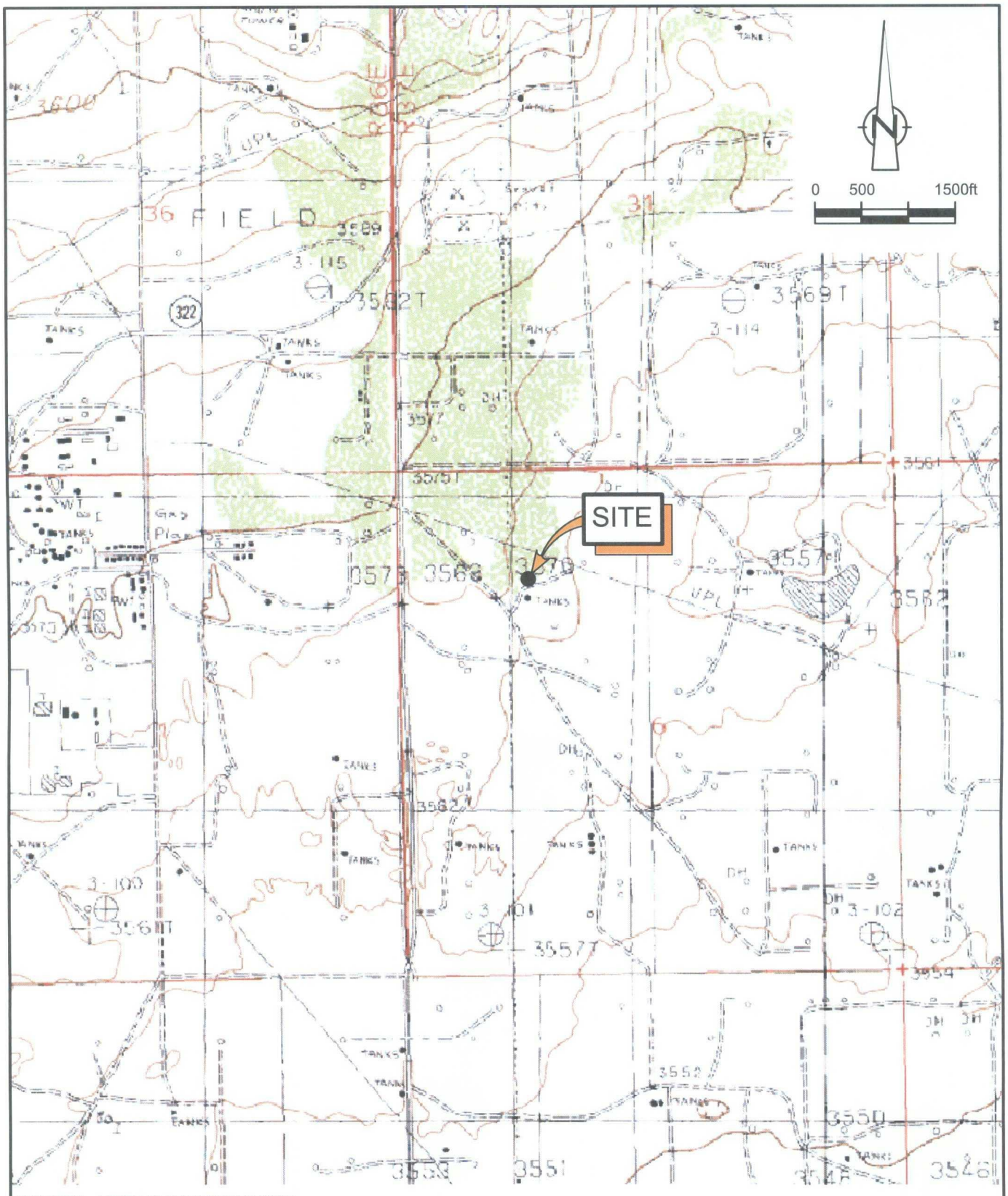
Based on historical data review and groundwater monitoring activities performed at the Site, CRA presents the following summary:

- Groundwater at the Site is monitored annually with a network of eight monitor wells and one water well;
- Depth to groundwater ranged from 29.47 feet to 35.50 feet below top of casing on May 30, 2007. Groundwater flow at the Site is to the southeast at a gradient of approximately 0.009 feet/foot;
- The analytical results generally fall within historical ranges. During the May 2007 sampling event, all nine wells sampled exceeded the NMWQCC groundwater standards for chloride and TDS. In addition, eight monitor wells (MW-1 through MW-8) exceeded the NMWQCC groundwater standard for sulfate. Fluoride and nitrate concentrations were below laboratory detection limits during the 2007 sampling event;
- The 2008 groundwater monitoring event is scheduled for May 2008.

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

039126-07(003)GN-MD001 MAY 01/2008

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

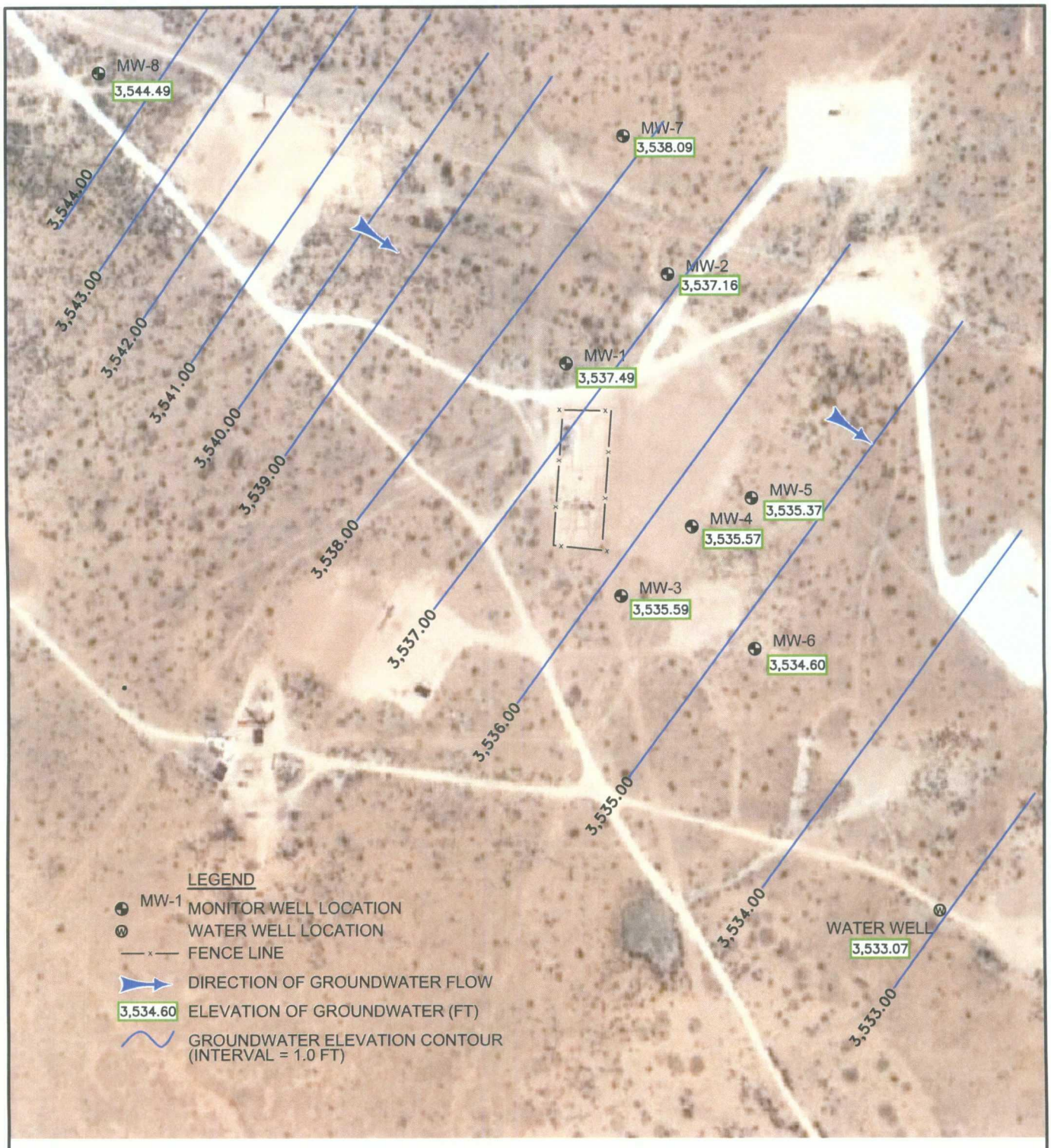
N

0 100 300ft

figure 2

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

039126-07(003)GN-MD002 JUN 12/2008



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

2. GROUNDWATER ELEVATIONS COLLECTED ON MAY 30, 2007.

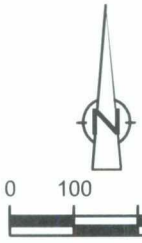
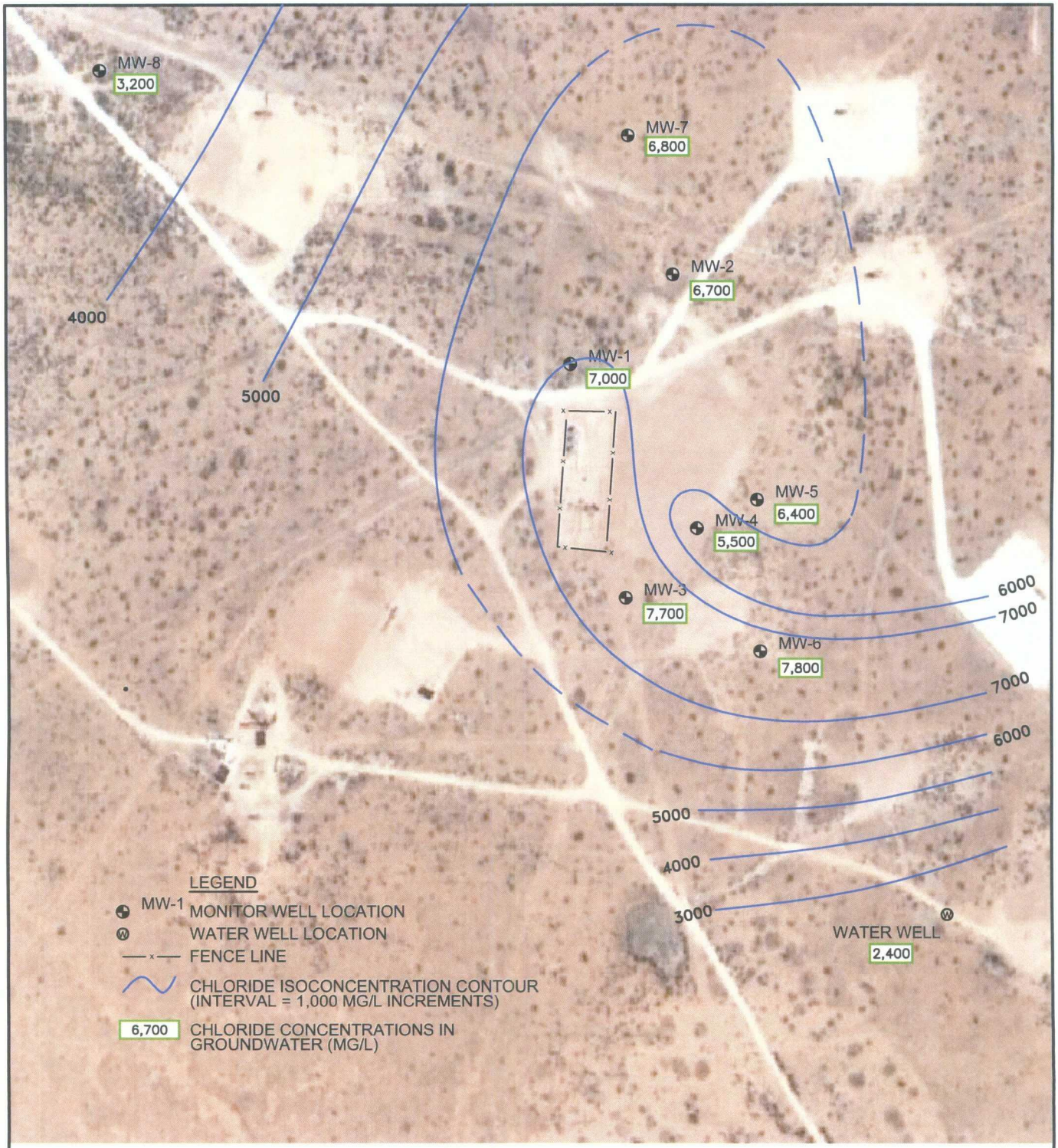


figure 3

GROUNDWATER GRADIENT MAP - MAY 2007
J. R. PHILLIPS NO. 2 TANK BATTERY
LEA COUNTY, NEW MEXICO
Chevron Environmental Management Company

039126-07(003)GN-MD003 JUN 12/2008



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

2. GROUNDWATER SAMPLES COLLECTED ON MAY 31, 2007.

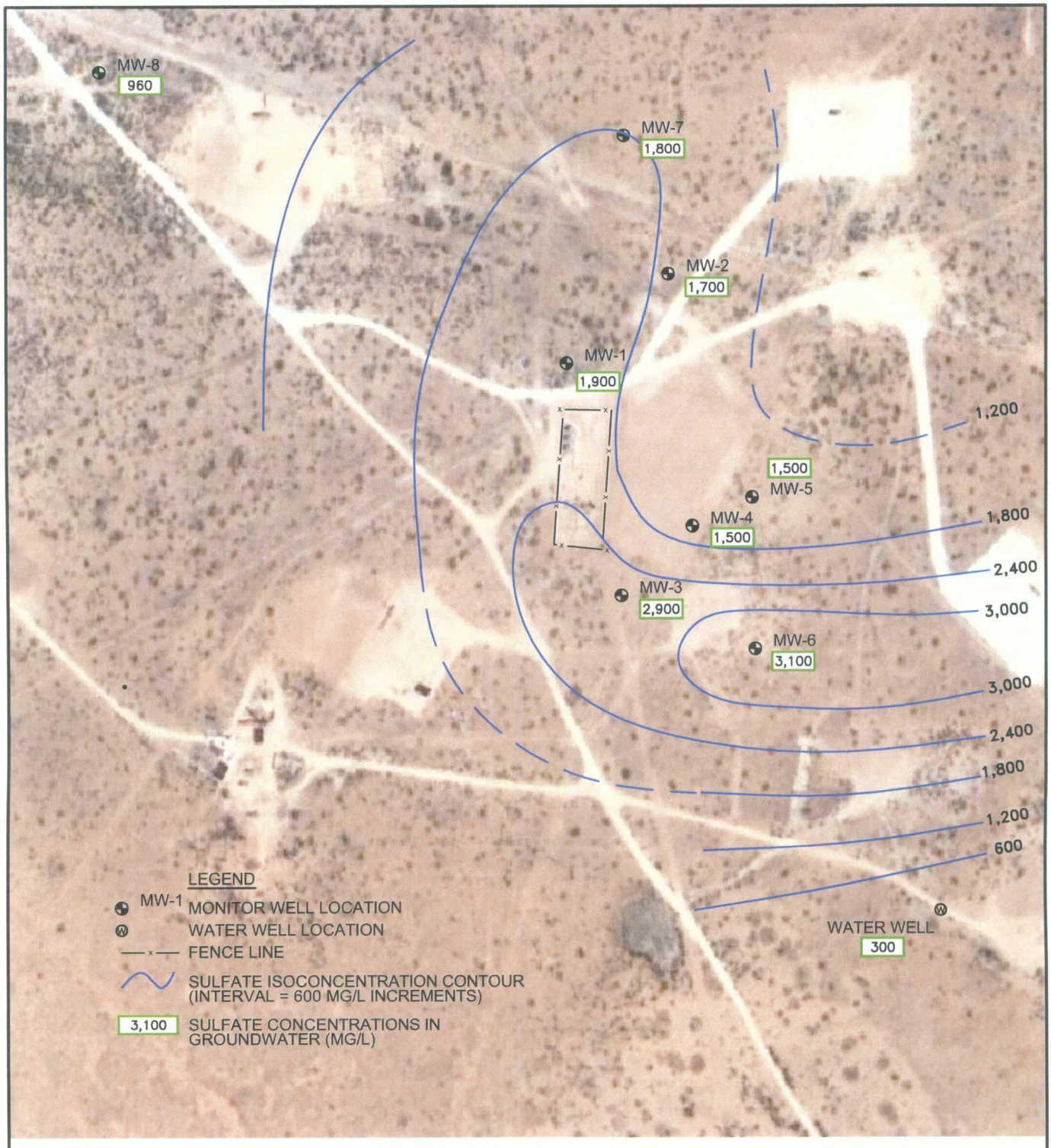
N

0 100 300ft

figure 4

CHLORIDE ISOCONCENTRATION MAP - MAY 2007
J. R. PHILLIPS NO. 2 TANK BATTERY
LEA COUNTY, NEW MEXICO
Chevron Environmental Management Company

039126-07(003)GN-MD004 JUN 12/2008



NOTES:

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

2. GROUNDWATER SAMPLES COLLECTED ON MAY 31, 2007.

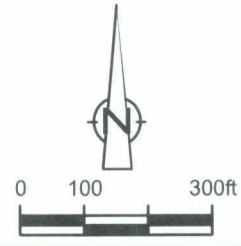


figure 5

SULFATE ISOCONCENTRATION MAP - MAY 2007
J. R. PHILLIPS NO. 2 TANK BATTERY
LEA COUNTY, NEW MEXICO
Chevron Environmental Management Company

039126-07(003)GN-MD000 JUN 12/2008

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

2. GROUNDWATER SAMPLES COLLECTED ON MAY 31, 2007.

N

0 100 300ft

figure 6

TDS ISOCONCENTRATION MAP - MAY 2007
J. R. PHILLIPS NO. 2 TANK BATTERY
LEA COUNTY, NEW MEXICO
Chevron Environmental Management Company

039126-07(003)GN-MD006 JUN 12/2008

TABLE I
GROUNDWATER GAUGING SUMMARY
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
J.R. PHILLIPS TANK BATTERY NO.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	5/2/01	39.33	2	3532.28	45.10	27-42
3571.61	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	---	---
MW-2	5/2/01	39.15	2	3531.97	45.12	27-42
3571.12	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	---	---
MW-3	5/2/01	39.30	2	3531.40	56.50	34-54
3570.70	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	---	---
MW-4	5/2/01	40.24	2	3530.83	57.12	34-54
3571.07	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	35.5	---	3535.57	---	---
MW-5	5/2/01	38.37	2	3530.94	57.75	34-54
3569.31	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	---	---

TABLE I
GROUNDWATER GAUGING SUMMARY
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
J.R. PHILLIPS TANK BATTERY NO.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-6	5/2/01	39.40	2	3530.13	57.30	34-54
3569.53	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	---	---
MW-7	5/2/01	39.76	2	3532.70	57.85	36-56
3572.46	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	---	---
MW-8	5/2/01	40.35	2	3537.31	65.20	47-62
3577.66	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	---	---
WW-1	5/2/01	33.93	5	3528.61	69.35	Unknown
3562.54	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	---	---

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 NO.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	1.60	10	600					1,000
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	<10	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	<10	378	378	7,000	<50	<0.100	1,900	461	200	<50	4,150	15,600
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	<10	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	<10	1370	1370	6,700	<50	<0.100	1,700	417	183	<50	4,000	14,900
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	<10	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	<10	520	520	7,700	<50	<0.100	2,900	591	213	<50	4,760	14,100

TABLE II
GROUNDWATER ANALYTICAL SUMMARY
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
J.R. PHILLIPS TANK BATTERY NO.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	1.60	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	<10	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	<10	624	624	5,500	<50	<0.100	1,500	272	126	<50	3,550	13,700
MW-5	5/3/01	<2.00	416	416	8,685	---	---	3,045	430.9	237.1	44.36	4,651	18,846
	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	<10	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	<10	426	426	6,400	<50	<0.100	1,500	372	154	<50	3,910	14,400
MW-6	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
	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	<10	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	<10	776	776	7,800	<50	<0.100	3,100	600	226	<50	5,200	18,700

TABLE II
GROUNDWATER ANALYTICAL SUMMARY
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
J.R. PHILLIPS TANK BATTERY NO.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	1.60	10	600					1,000
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	--	--	2,280	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	<10	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	<10	397	397	6,800	<50	<0.100	1,800	496	187	<50	3,730	14,900
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	<10	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	<10	378	378	3,200	<50	<0.100	960	394	133	<50	1,830	8,080
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	<10	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	<10	<10	<10	2,400	<25	<0.100	300	645	167	<50	1,830	5,340

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. D1 - 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,

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

Pace Analytical®
New Orleans Laboratory

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

June 18, 2007

Luke Markham
CRA
2135 S. Loop 250 West
Midland, TX 79701

RE: Project: 2070014
RE: Project ID: JR PHILLIPS/039126

Dear Luke Markham:

Enclosed are the analytical results for sample(s) received by the laboratory on June 01, 2007. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

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

Sincerely,

Cindy Olavesen

Cindy Olavesen

ACCREDITED IN ACCORDANCE WITH nelac

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Report of Laboratory Analysis

Project Number: 2070014

6/18/2007 11:42:35

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New Orleans Laboratory

Sample Cross Reference Report

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client: CRA MIDLAND

Project: JR PHILLIPS/039126

Project No.: 2070014

Sample ID	Lab ID	Matrix	Collection Date/Time		Received Date/Time	
MW1 53107	20524683	Water	05/31/2007	13:10	06/01/2007	09:50
MW2 53107	20524684	Water	05/31/2007	13:15	06/01/2007	09:50
MW3 53107	20524685	Water	05/31/2007	13:00	06/01/2007	09:50
MW4 53107	20524686	Water	05/31/2007	12:30	06/01/2007	09:50
MW5 53107	20524687	Water	05/31/2007	12:35	06/01/2007	09:50
MW6 53107	20524688	Water	05/31/2007	12:05	06/01/2007	09:50
MW7 53107	20524689	Water	05/31/2007	13:35	06/01/2007	09:50
MW8 53107	20524690	Water	05/31/2007	14:05	06/01/2007	09:50
WW1 53107	20524691	Water	05/31/2007	11:40	06/01/2007	09:50
DUP 53107	20524692	Water	05/31/2007		06/01/2007	09:50

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New Orleans Laboratory

Project Narrative

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Project: 2070014

Sample Receipt Condition:

All samples were received in accordance with EPA protocol.

Holding Times:

All holding times were met.

Blanks:

All blank results were below reporting limits.

Laboratory Control Samples:

All LCS recoveries were within QC limits.

Matrix Spikes and Duplicates:

MS or MSD recoveries outside of QC limits are qualified in the Report of Quality Control section.

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New Orleans Laboratory

Project Narrative

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Project: 2070014

Analytical Method	Batch	Sample used for QC
EPA 6010	86770	Client sample MW-8 53007 from project 2069969
SM 2540C	86681	Project sample MW1 53107
SM 2320B	86785	Batch sample from another client

For the sample used as the original for the DUP or MS/MSD for the batch:

Project sample means a sample from this project was used.
Client sample means a sample from the same client but in a different project was used.
Batch sample means a sample from the a different client was used.

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New Orleans Laboratory

Report of Laboratory Analysis

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client ID: MW1 53107
Client: CRA_MIDLAND
Project: JR PHILLIPS/039126
Site: None
Lab ID: 20524683
Project No.: 2070014
Description: None
Matrix: Water
%Moisture: n/a
Collected: 05/31/07
Received: 06/01/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Calcium, Dissolved	EPA 6010	86770	10	461000	D2	ug/L	50000	05-Jun-07	11-Jun-07 15:31	KJR	
Magnesium, Dissolved	EPA 6010	86770	10	200000	D2	ug/L	50000	05-Jun-07	11-Jun-07 15:31	KJR	
Potassium, Dissolved	EPA 6010	86770	10	ND	D2	ug/L	50000	05-Jun-07	11-Jun-07 15:31	KJR	
Sodium, Dissolved	EPA 6010	86770	10	4150000	D1	ug/L	50000	05-Jun-07	11-Jun-07 15:31	KJR	

4 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
PF other than 1 denotes sample Prep Factor which accounts for a non-routine sample size.
DF denotes Dilution Factor of final sample.
Reporting/Detection Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.

6/18/2007 11:43:10

New Orleans Laboratory Certifications
Louisiana Dept. of Environmental Quality (LELAP) - 02006
Arkansas Dept. of Environmental Quality - 88-0681
Louisiana Dept. of Health and Hospitals / Drinking Water - LA060023
Florida Dept. of Health (NELAC) - E87595
Kansas Dept. of Health_Environment - E-10266
U.S. Dept. of Agriculture Foreign Soil Permit - S-47270
Pennsylvania DEP (NELAC) 68-04202

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New Orleans Laboratory

Report of Laboratory Analysis

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client ID: MW2 53107 **Client:** CRA MIDLAND

Project: JR PHILLIPS/039126 **Site:** None

Lab ID: 20524684 **Project No.:** 2070014

Description: None **Matrix:** Water **%Moisture:** n/a

Collected: 05/31/07 **Received:** 06/01/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Calcium, Dissolved	EPA 6010	86770	10	417000	D2	ug/L	50000	05-Jun-07	11-Jun-07 15:35	KJR	
Magnesium, Dissolved	EPA 6010	86770	10	183000	D2	ug/L	50000	05-Jun-07	11-Jun-07 15:35	KJR	
Potassium, Dissolved	EPA 6010	86770	10	ND	D2	ug/L	50000	05-Jun-07	11-Jun-07 15:35	KJR	
Sodium, Dissolved	EPA 6010	86770	10	4000000	D1	ug/L	50000	05-Jun-07	11-Jun-07 15:35	KJR	

4 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
PF other than 1 denotes sample Prep Factor which accounts for a non-routine sample size.
DF denotes Dilution Factor of final sample.
Reporting/Detection Limit is corrected for sample size, dilution and moisture content if applicable.
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For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.

6/18/2007 11:43:10

New Orleans Laboratory Certifications
Louisiana Dept. of Environmental Quality (LELAP) - 02006
Arkansas Dept. of Environmental Quality - 88-0681
Louisiana Dept. of Health and Hospitals / Drinking Water - LA060023
Florida Dept. of Health (NELAC) - E87595
Kansas Dept. of Health .Environment - E-10266
U.S. Dept. of Agriculture Foreign Soil Permit - S-47270
Pennsylvania DEP (NELAC) 68-04202

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New Orleans Laboratory

Report of Laboratory Analysis

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client ID: MW3 53107
Client: CRA MIDLAND
Project: JR PHILLIPS/039126
Site: None
Lab ID: 20524685
Project No.: 2070014
Description: None
Matrix: Water
%Moisture: n/a
Collected: 05/31/07
Received: 06/01/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Calcium, Dissolved	EPA 6010	86770	10	591000	D2	ug/L	50000	05-Jun-07	11-Jun-07 15:40	KJR	
Magnesium, Dissolved	EPA 6010	86770	10	213000	D2	ug/L	50000	05-Jun-07	11-Jun-07 15:40	KJR	
Potassium, Dissolved	EPA 6010	86770	10	ND	D2	ug/L	50000	05-Jun-07	11-Jun-07 15:40	KJR	
Sodium, Dissolved	EPA 6010	86770	10	4760000	D1	ug/L	50000	05-Jun-07	11-Jun-07 15:40	KJR	

4 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
PF other than 1 denotes sample Prep Factor which accounts for a non-routine sample size.
DF denotes Dilution Factor of final sample.
Reporting/Detection Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.

6/18/2007 11:43:10

New Orleans Laboratory Certifications
Louisiana Dept. of Environmental Quality (LELAP) - 02006
Arkansas Dept. of Environmental Quality - 88-0681
Louisiana Dept. of Health and Hospitals / Drinking Water - LA060023
Florida Dept. of Health (NELAC) - E87595
Kansas Dept. of Health Environment - E-10266
U.S. Dept. of Agriculture Foreign Soil Permit - S-47270
Pennsylvania DEP (NELAC) 68-04202

Pace Analytical®
New Orleans Laboratory

Report of Laboratory Analysis

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client ID: MW4 53107
Client: CRA MIDLAND
Project: JR PHILLIPS/039126
Site: None
Lab ID: 20524686
Project No.: 2070014
Description: None
Matrix: Water
%Moisture: n/a
Collected: 05/31/07
Received: 06/01/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Calcium, Dissolved	EPA 6010	86770	10	272000	D2	ug/L	50000	05-Jun-07	11-Jun-07 15:44	KJR	
Magnesium, Dissolved	EPA 6010	86770	10	126000	D2	ug/L	50000	05-Jun-07	11-Jun-07 15:44	KJR	
Potassium, Dissolved	EPA 6010	86770	10	ND	D2	ug/L	50000	05-Jun-07	11-Jun-07 15:44	KJR	
Sodium, Dissolved	EPA 6010	86770	10	3550000	D1	ug/L	50000	05-Jun-07	11-Jun-07 15:44	KJR	

4 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
PF other than 1 denotes sample Prep Factor which accounts for a non-routine sample size.
DF denotes Dilution Factor of final sample.
Reporting/Detection Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.

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Louisiana Dept. of Environmental Quality (LELAP) - 02006
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Louisiana Dept. of Health and Hospitals / Drinking Water - LA060023
Florida Dept. of Health (NELAC) - E87595
Kansas Dept. of Health _Environment - E-10266
U.S. Dept. of Agriculture Foreign Soil Permit - S-47270
Pennsylvania DEP (NELAC) 68-04202

Report of Laboratory Analysis

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client ID: MW5 53107 **Client:** CRA_MIDLAND

Project: JR PHILLIPS/039126 **Site:** None

Lab ID: 20524687 **Project No.:** 2070014

Description: None **Matrix:** Water **%Moisture:** n/a

Collected: 05/31/07 **Received:** 06/01/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Calcium, Dissolved	EPA 6010	86770	10	372000	D2	ug/L	50000	05-Jun-07	12-Jun-07 12:22	KJR	
Magnesium, Dissolved	EPA 6010	86770	10	154000	D2	ug/L	50000	05-Jun-07	12-Jun-07 12:22	KJR	
Potassium, Dissolved	EPA 6010	86770	10	ND	D2	ug/L	50000	05-Jun-07	12-Jun-07 12:22	KJR	
Sodium, Dissolved	EPA 6010	86770	10	3910000	D1	ug/L	50000	05-Jun-07	12-Jun-07 12:22	KJR	

4 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
PF other than 1 denotes sample Prep Factor which accounts for a non-routine sample size.
DF denotes Dilution Factor of final sample.
Reporting/Detection Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.

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LELAP # 02006

Client ID: MW6 53107
Client: CRA MIDLAND
Project: JR PHILLIPS/039126
Site: None
Lab ID: 20524688
Project No.: 2070014
Description: None
Matrix: Water
%Moisture: n/a
Collected: 05/31/07
Received: 06/01/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Calcium, Dissolved	EPA 6010	86770	10	600000	D2	ug/L	50000	05-Jun-07	12-Jun-07 12:26	KJR	
Magnesium, Dissolved	EPA 6010	86770	10	226000	D2	ug/L	50000	05-Jun-07	12-Jun-07 12:26	KJR	
Potassium, Dissolved	EPA 6010	86770	10	ND	D2	ug/L	50000	05-Jun-07	12-Jun-07 12:26	KJR	
Sodium, Dissolved	EPA 6010	86770	10	5200000	D1	ug/L	50000	05-Jun-07	12-Jun-07 12:26	KJR	

4 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
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(1b) Flash point less than 140 degrees F is hazardous for ignitibility.

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Client ID: MW7 53107
Client: CRA_MIDLAND
Project: JR PHILLIPS/039126
Site: None
Lab ID: 20524689
Project No.: 2070014
Description: None
Matrix: Water
%Moisture: n/a
Collected: 05/31/07
Received: 06/01/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Calcium, Dissolved	EPA 6010	86770	10	496000	D2	ug/L	50000	05-Jun-07	12-Jun-07 12:30	KJR	
Magnesium, Dissolved	EPA 6010	86770	10	187000	D2	ug/L	50000	05-Jun-07	12-Jun-07 12:30	KJR	
Potassium, Dissolved	EPA 6010	86770	10	ND	D2	ug/L	50000	05-Jun-07	12-Jun-07 12:30	KJR	
Sodium, Dissolved	EPA 6010	86770	10	3730000	D1	ug/L	50000	05-Jun-07	12-Jun-07 12:30	KJR	

4 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
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Phone: 504.469.0333
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LELAP # 02006

Client ID: MW8 53107 **Client:** CRA_MIDLAND

Project: JR PHILLIPS/039126 **Site:** None

Lab ID: 20524690 **Project No.:** 2070014

Description: None **Matrix:** Water **%Moisture:** n/a

Collected: 05/31/07 **Received:** 06/01/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Calcium, Dissolved	EPA 6010	86770	10	394000	D2	ug/L	50000	05-Jun-07	12-Jun-07 12:35	KJR	
Magnesium, Dissolved	EPA 6010	86770	10	133000	D2	ug/L	50000	05-Jun-07	12-Jun-07 12:35	KJR	
Potassium, Dissolved	EPA 6010	86770	10	ND	D2	ug/L	50000	05-Jun-07	12-Jun-07 12:35	KJR	
Sodium, Dissolved	EPA 6010	86770	10	1830000	D1	ug/L	50000	05-Jun-07	12-Jun-07 12:35	KJR	

4 parameter(s) reported

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Phone: 504.469.0333
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LELAP # 02006

Client ID: WW1 53107
Client: CRA MIDLAND
Project: JR PHILLIPS/039126
Site: None
Lab ID: 20524691
Project No.: 2070014
Description: None
Matrix: Water
%Moisture: n/a
Collected: 05/31/07
Received: 06/01/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Calcium, Dissolved	EPA 6010	86770	10	645000	D2	ug/L	50000	05-Jun-07	12-Jun-07 12:41	KJR	
Magnesium, Dissolved	EPA 6010	86770	10	167000	D2	ug/L	50000	05-Jun-07	12-Jun-07 12:41	KJR	
Potassium, Dissolved	EPA 6010	86770	10	ND	D2	ug/L	50000	05-Jun-07	12-Jun-07 12:41	KJR	
Sodium, Dissolved	EPA 6010	86770	10	1830000	D1	ug/L	50000	05-Jun-07	12-Jun-07 12:41	KJR	

4 parameter(s) reported

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(1b) Flash point less than 140 degrees F is hazardous for ignitibility.

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LELAP # 02006

Client ID: DUP 53107 **Client:** CRA_MIDLAND

Project: JR PHILLIPS/039126 **Site:** None

Lab ID: 20524692 **Project No.:** 2070014

Description: None **Matrix:** Water **%Moisture:** n/a

Collected: 05/31/07 **Received:** 06/01/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Calcium, Dissolved	EPA 6010	86770	10	393000	D2	ug/L	50000	05-Jun-07	12-Jun-07 12:45	KJR	
Magnesium, Dissolved	EPA 6010	86770	10	131000	D2	ug/L	50000	05-Jun-07	12-Jun-07 12:45	KJR	
Potassium, Dissolved	EPA 6010	86770	10	ND	D2	ug/L	50000	05-Jun-07	12-Jun-07 12:45	KJR	
Sodium, Dissolved	EPA 6010	86770	10	1740000	D1	ug/L	50000	05-Jun-07	12-Jun-07 12:45	KJR	

4 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
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DF denotes Dilution Factor of final sample.
Reporting/Detection Limit is corrected for sample size, dilution and moisture content if applicable.
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For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
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(1b) Flash point less than 140 degrees F is hazardous for ignitibility.

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client ID: MW1 53107 **Client:** CRA_MIDLAND

Project: JR PHILLIPS/039126 **Site:** None

Lab ID: 20524683 **Project No.:** 2070014

Description: None **Matrix:** Water **%Moisture:** n/a

Collected: 05/31/07 **Received:** 06/01/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Alkalinity, Carbonate (CaCO	SM 2320B	86785	1	ND		mg/L	10.0	05-Jun-07	05-Jun-07	13:50 SMS2	
Alkalinity, Total	SM 2320B	86785	1	378.		mg/L	10.0	05-Jun-07	05-Jun-07	13:50 SMS2	
Alkalinity,Bicarbonate (CaC	SM 2320B	86785	1	378.		mg/L	10.0	05-Jun-07	05-Jun-07	13:50 SMS2	
Nitrogen, Nitrate	SM 4500-NO3	86787	1	ND		mg/L	0.100	05-Jun-07	05-Jun-07	12:19	
Total Dissolved Solids	SM 2540C	86681	1	15600		mg/L	4.00	01-Jun-07	01-Jun-07	15:15 TAE	

5 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
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DF denotes Dilution Factor of final sample.
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For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.

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Phone: 504.469.0333
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LELAP # 02006

Client ID: MW2 53107 **Client:** CRA MIDLAND

Project: JR PHILLIPS/039126 **Site:** None

Lab ID: 20524684 **Project No.:** 2070014

Description: None **Matrix:** Water **%Moisture:** n/a

Collected: 05/31/07 **Received:** 06/01/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Alkalinity, Carbonate (CaCO	SM 2320B	86785	1	ND		mg/L	10.0	05-Jun-07	05-Jun-07 13:50	SMS2	
Alkalinity, Total	SM 2320B	86785	1	1370		mg/L	10.0	05-Jun-07	05-Jun-07 13:50	SMS2	
Alkalinity,Bicarbonate (CaC	SM 2320B	86785	1	1370		mg/L	10.0	05-Jun-07	05-Jun-07 13:50	SMS2	
Nitrogen, Nitrate	SM 4500-NO3	86787	1	ND		mg/L	0.100	05-Jun-07	05-Jun-07 12:22		
Total Dissolved Solids	SM 2540C	86681	1	14900		mg/L	4.00	01-Jun-07	01-Jun-07 15:15	TAE	

5 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
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(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
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Client ID: MW3 53107 **Client:** CRA_MIDLAND

Project: JR PHILLIPS/039126 **Site:** None

Lab ID: 20524685 **Project No.:** 2070014

Description: None **Matrix:** Water **%Moisture:** n/a

Collected: 05/31/07 **Received:** 06/01/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Alkalinity, Carbonate (CaCO	SM 2320B	86785	1	ND		mg/L	10.0	05-Jun-07	05-Jun-07 13:50	SMS2	
Alkalinity, Total	SM 2320B	86785	1	520.		mg/L	10.0	05-Jun-07	05-Jun-07 13:50	SMS2	
Alkalinity,Bicarbonate (CaC	SM 2320B	86785	1	520.		mg/L	10.0	05-Jun-07	05-Jun-07 13:50	SMS2	
Nitrogen, Nitrate	SM 4500-NO3	86787	1	ND		mg/L	0.100	05-Jun-07	05-Jun-07 12:23		
Total Dissolved Solids	SM 2540C	86681	1	14100		mg/L	4.00	01-Jun-07	01-Jun-07 15:15	TAE	

5 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
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DF denotes Dilution Factor of final sample.
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Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.

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LELAP # 02006

Client ID: MW4 53107
Client: CRA_MIDLAND
Project: JR PHILLIPS/039126
Site: None
Lab ID: 20524686
Project No.: 2070014
Description: None
Matrix: Water
%Moisture: n/a
Collected: 05/31/07
Received: 06/01/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Alkalinity, Carbonate (CaCO	SM 2320B	86785	1	ND		mg/L	10.0	05-Jun-07	05-Jun-07 13:50	SMS2	
Alkalinity, Total	SM 2320B	86785	1	624.		mg/L	10.0	05-Jun-07	05-Jun-07 13:50	SMS2	
Alkalinity,Bicarbonate (CaC	SM 2320B	86785	1	624.		mg/L	10.0	05-Jun-07	05-Jun-07 13:50	SMS2	
Nitrogen, Nitrate	SM 4500-NO3	86787	1	ND		mg/L	0.100	05-Jun-07	05-Jun-07 12:24		
Total Dissolved Solids	SM 2540C	86681	1	13700		mg/L	4.00	01-Jun-07	01-Jun-07 15:15	TAE	

5 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
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Client ID: MW5 53107
Client: CRA MIDLAND
Project: JR PHILLIPS/039126
Site: None
Lab ID: 20524687
Project No.: 2070014
Description: None
Matrix: Water
%Moisture: n/a
Collected: 05/31/07
Received: 06/01/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Alkalinity, Carbonate (CaCO	SM 2320B	86785	1	ND		mg/L	10.0	05-Jun-07	05-Jun-07 13:50	SMS2	
Alkalinity, Total	SM 2320B	86785	1	426.		mg/L	10.0	05-Jun-07	05-Jun-07 13:50	SMS2	
Alkalinity,Bicarbonate (CaC	SM 2320B	86785	1	426.		mg/L	10.0	05-Jun-07	05-Jun-07 13:50	SMS2	
Nitrogen, Nitrate	SM 4500-NO3	86787	1	ND		mg/L	0.100	05-Jun-07	05-Jun-07 12:25		
Total Dissolved Solids	SM 2540C	86681	1	14400		mg/L	4.00	01-Jun-07	01-Jun-07 15:15	TAE	

5 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
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Phone: 504.469.0333
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LELAP # 02006

Client ID: MW6 53107
Client: CRA_MIDLAND
Project: JR PHILLIPS/039126
Site: None
Lab ID: 20524688
Project No.: 2070014
Description: None
Matrix: Water
%Moisture: n/a
Collected: 05/31/07
Received: 06/01/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Alkalinity, Carbonate (CaCO	SM 2320B	86785	1	ND		mg/L	10.0	05-Jun-07	05-Jun-07	13:50 SMS2	
Alkalinity, Total	SM 2320B	86785	1	776.		mg/L	10.0	05-Jun-07	05-Jun-07	13:50 SMS2	
Alkalinity,Bicarbonate (CaC	SM 2320B	86785	1	776.		mg/L	10.0	05-Jun-07	05-Jun-07	13:50 SMS2	
Nitrogen, Nitrate	SM 4500-NO3	86787	1	ND		mg/L	0.100	05-Jun-07	05-Jun-07	12:26	
Total Dissolved Solids	SM 2540C	86681	1	18700		mg/L	4.00	01-Jun-07	01-Jun-07	15:15 TAE	

5 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
PF other than 1 denotes sample Prep Factor which accounts for a non-routine sample size.
DF denotes Dilution Factor of final sample.
Reporting/Detection Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.

6/18/2007 11:43:14

New Orleans Laboratory Certifications
Louisiana Dept. of Environmental Quality (LELAP) - 02006
Arkansas Dept. of Environmental Quality - 88-0681
Louisiana Dept. of Health and Hospitals / Drinking Water - LA060023
Florida Dept. of Health (NELAC) - E87595
Kansas Dept. of Health_Environment - E-10266
U.S. Dept. of Agriculture Foreign Soil Permit - S-47270
Pennsylvania DEP (NELAC) 68-04202

Pace Analytical
New Orleans Laboratory

Report of Laboratory Analysis

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client ID: MW7 53107
Project: JR PHILLIPS/039126
Lab ID: 20524689
Description: None

Client: CRA_MIDLAND
Site: None
Project No.: 2070014
Matrix: Water **%Moisture:** n/a
Collected: 05/31/07 **Received:** 06/01/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Alkalinity, Carbonate (CaCO	SM 2320B	86785	1	ND		mg/L	10.0	05-Jun-07	05-Jun-07 13:50	SMS2	
Alkalinity, Total	SM 2320B	86785	1	397.		mg/L	10.0	05-Jun-07	05-Jun-07 13:50	SMS2	
Alkalinity,Bicarbonate (CaC	SM 2320B	86785	1	397.		mg/L	10.0	05-Jun-07	05-Jun-07 13:50	SMS2	
Nitrogen, Nitrate	SM 4500-NO3	86787	1	ND		mg/L	0.100	05-Jun-07	05-Jun-07 12:27		
Total Dissolved Solids	SM 2540C	86681	1	14900		mg/L	4.00	01-Jun-07	01-Jun-07 15:15	TAE	

5 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
PF other than 1 denotes sample Prep Factor which accounts for a non-routine sample size.
DF denotes Dilution Factor of final sample.
Reporting/Detection Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.

6/18/2007 11:43:15

New Orleans Laboratory Certifications
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Pace Analytical
New Orleans Laboratory

Report of Laboratory Analysis

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client ID: MW8 53107
Client: CRA MIDLAND
Project: JR PHILLIPS/039126
Site: None
Lab ID: 20524690
Project No.: 2070014
Description: None
Matrix: Water
%Moisture: n/a
Collected: 05/31/07
Received: 06/01/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Alkalinity, Carbonate (CaCO	SM 2320B	86785	1	ND		mg/L	10.0	05-Jun-07	05-Jun-07 13:50	SMS2	
Alkalinity, Total	SM 2320B	86785	1	378.		mg/L	10.0	05-Jun-07	05-Jun-07 13:50	SMS2	
Alkalinity,Bicarbonate (CaC	SM 2320B	86785	1	378.		mg/L	10.0	05-Jun-07	05-Jun-07 13:50	SMS2	
Nitrogen, Nitrate	SM 4500-NO3	86787	1	ND		mg/L	0.100	05-Jun-07	05-Jun-07 12:28		
Total Dissolved Solids	SM 2540C	86681	1	8080		mg/L	4.00	01-Jun-07	01-Jun-07 15:15	TAE	

5 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
PF other than 1 denotes sample Prep Factor which accounts for a non-routine sample size.
DF denotes Dilution Factor of final sample.
Reporting/Detection Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.

6/18/2007 11:43:15

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Pace Analytical®
New Orleans Laboratory

Report of Laboratory Analysis

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client ID: WW1 53107
Client: CRA MIDLAND
Project: JR PHILLIPS/039126
Site: None
Lab ID: 20524691
Project No.: 2070014
Description: None
Matrix: Water
%Moisture: n/a
Collected: 05/31/07
Received: 06/01/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Alkalinity, Carbonate (CaCO	SM 2320B	86785	1	ND		mg/L	10.0	05-Jun-07	05-Jun-07 13:50	SMS2	
Alkalinity, Total	SM 2320B	86785	1	ND		mg/L	10.0	05-Jun-07	05-Jun-07 13:50	SMS2	
Alkalinity,Bicarbonate (CaC	SM 2320B	86785	1	ND		mg/L	10.0	05-Jun-07	05-Jun-07 13:50	SMS2	
Nitrogen, Nitrate	SM 4500-NO3	86787	1	ND		mg/L	0.100	05-Jun-07	05-Jun-07 12:29		
Total Dissolved Solids	SM 2540C	86681	1	5340		mg/L	4.00	01-Jun-07	01-Jun-07 15:15	TAE	

5 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
PF other than 1 denotes sample Prep Factor which accounts for a non-routine sample size.
DF denotes Dilution Factor of final sample.
Reporting/Detection Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.

6/18/2007 11:43:15

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Pace Analytical®
New Orleans Laboratory

Report of Laboratory Analysis

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client ID: DUP 53107
Client: CRA_MIDLAND
Project: JR PHILLIPS/039126
Site: None
Lab ID: 20524692
Project No.: 2070014
Description: None
Matrix: Water
%Moisture: n/a
Collected: 05/31/07
Received: 06/01/07

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Alkalinity, Carbonate (CaCO	SM 2320B	86785	1	ND		mg/L	10.0	05-Jun-07	05-Jun-07 13:50	SMS2	
Alkalinity, Total	SM 2320B	86785	1	388.		mg/L	10.0	05-Jun-07	05-Jun-07 13:50	SMS2	
Alkalinity,Bicarbonate (CaC	SM 2320B	86785	1	388.		mg/L	10.0	05-Jun-07	05-Jun-07 13:50	SMS2	
Nitrogen, Nitrate	SM 4500-NO3	86787	1	ND		mg/L	0.100	05-Jun-07	05-Jun-07 12:30		
Total Dissolved Solids	SM 2540C	86681	1	7420		mg/L	4.00	01-Jun-07	01-Jun-07 15:15	TAE	

5 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
PF other than 1 denotes sample Prep Factor which accounts for a non-routine sample size.
DF denotes Dilution Factor of final sample.
Reporting/Detection Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.

6/18/2007 11:43:15

New Orleans Laboratory Certifications
Louisiana Dept. of Environmental Quality (LELAP) - 02006
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Pace Analytical
New Orleans Laboratory

Report of Quality Control

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Project: 2070014

Parameter	Batch	Blank	ARL	Units	LCS Spike	LCS Found	LCS %Rec	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	MSD RPD	DUP RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Calcium, Diss	86770	ND	000	ug/L	10000	9270	93	10000	54100.00	61160	54350	71 *	3 *	12		73 - 115	75 - 125	20	Q3
Magnesium, D	86770	ND	000	ug/L	10000	9269	93	10000	19150.00	26520	23880	74 *	47 *	10		73 - 116	75 - 125	20	Q1
Potassium, Dis	86770	ND	000	ug/L	10000	8999	90	10000	4009.00	12500	11270	85	73 *	10		73 - 114	75 - 125	20	
Sodium, Disso	86770	ND	000	ug/L	10000	9188	92	10000	59340.00	66270	60870	69 *	15 *	8		64 - 122	75 - 125	20	Q3

* denotes recovery outside of QC limits.
ARL denotes Adjusted Reporting Limit, corrected for sample size, dilution and moisture content as applicable.
MS/MSD RPD is calculated via SW-846 rules on the basis of spiked sample concentrations rather than spike recoveries.

6/18/2007 11:43:18

New Orleans Laboratory Certifications
Louisiana Dept. of Environmental Quality (LELAP) - 02006
Arkansas Dept. of Environmental Quality - 88-0681
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Florida Dept. of Health (NELAC) - E87595
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Pace Analytical*
New Orleans Laboratory

Report of Quality Control

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Project: 2070014

Parameter	Batch	Blank	ARL	Units	LCS Spike	LCS Found	LCS %Rec	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	MSD RPD	DUP RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Total Dissolve	86681	ND	4.00	mg/L	100	106	106		15560.00						3	80 - 120	-	20	
Alkalinity, Tot	86785			mg/L	50	47.76	96		0.00						0	90 - 110	-	20	

* denotes recovery outside of QC limits.
ARL denotes Adjusted Reporting Limit, corrected for sample size, dilution and moisture content as applicable.
MS/MSD RPD is calculated via SW-846 rules on the basis of spiked sample concentrations rather than spike recoveries.

6/18/2007 11:43:21

Pace Analytical
New Orleans Laboratory

Report Qualifiers

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Project: 2070014

General Qualifiers

Qualifier	Qualifier Description
D1	The analysis was performed at a dilution due to the high analyte concentration.
D2	The analysis was performed at a dilution due to the presence of matrix interferences.

QC Qualifiers

Qualifier	Qualifier Description
Q1	The matrix spike recoveries are poor. Acceptable method performance for this analyte has been demonstrated by the laboratory control sample recovery.
Q3	The matrix spike recoveries are poor due to the presence of this analyte in the sample at a concentration greater than 4 times the spiked amount. Acceptable method performance for this analyte has been demonstrated by the laboratory control sample.

PaceAnalytical®

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

20 70014

Page: 1 of 2

1042643

Section A
Required Client Information:

Company: CRA

Address: 2135 S. Loop 250 W.

Midland, TX. 79703

Email To:

Phone: 432-686-0086 | Fax: 432-686-0186

Requested Due Date/TAT: Standard

Section B
Required Project Information:

Report To: Luke Markham

Copy To:

Purchase Order No.:

Project Name: J.R. Phillips

Project Number: 039126

Section C
Invoice Information:

Attention: Luke Markham

Company Name: CRA

Address: "Same"

Pace Quote Reference:

Pace Project Manager:

Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☒ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ Other ______

SITE LOCATION

☐ GA ☐ IL ☐ IN ☐ MI ☐ MN ☐ NC
☐ OH ☐ SC ☐ WI ☒ OTHER New Mexico

Section D
Required Client Information

SAMPLE ID

One Character per box. (A-Z, 0-9 / ,-) Samples IDs MUST BE UNIQUE

Valid Matrix Codes

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

Filtered (Y/N): N

Requested Analysis: Other (Ice); Alkalinity (Sm2320B) (Carb/Bicarb); Fluoride; Sulfate; Nitrate-N; Chloride (E325.0); Temp; Residual Chlorine (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	Composite Start DATE	Composite Start TIME	Composite End/Grab DATE	Composite End/Grab TIME	SAMPLE TEMP AT COLLECTION °C	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other (Ice)	Alkalinity	Carb/Bicarb	Fluoride	Sulfate	Nitrate-N	Chloride	Temp	Residual Chlorine (Y/N)	Pace Project Number Lab I.D
1	MW1 53107	WT	G			5/31	1310	27	2	X							X	X	X	X	X	X	X			20524683
2	MW2 53107	WT	G			5/31	1315	27	2	X							X	X	X	X	X	X	X			684
3	MW3 53107	WT	G			5/31	1300	27	2	X							X	X	X	X	X	X	X			685
4	MW4 53107	WT	G			5/31	1230	26	2	X							X	X	X	X	X	X	X			686
5	MW5 53107	WT	G			5/31	1235	26	2	X							X	X	X	X	X	X	X			687
6	MW6 53107	WT	G			5/31	1205	25	2	X							X	X	X	X	X	X	X			688
7	MW7 53107	WT	G			5/31	1335	26	2	X							X	X	X	X	X	X	X			689
8	MW8 53107	WT	G			5/31	1405	27	2	X							X	X	X	X	X	X	X			690
9	WW1 53107	WT	G			5/31	1140	27	2	X							X	X	X	X	X	X	X			691
10	DUP 53107	WT	G			5/31	—	—	2	X							X	X	X	X	X	X	X			692
11	TEMP	WT	-			—	—	—	1	X							X							X		
12																										

Additional Comments:

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
Cory Coleman / CRA	5/31/07	1600					Y/N	Y/N	Y/N
Fed EX	6-1-07	0950	[illegible] / Pace	6-1-07	0950	3.9	Y/N	Y/N	Y/N
							Y/N	Y/N	Y/N
							Y/N	Y/N	Y/N

SAMPLE CONDITION

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Cory Coleman

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM / DD / YY): 5/31/07

SEE REVERSE SIDE FOR INSTRUCTIONS

ORIGINAL

Pace Analytical®

1241 Bellevue Street, Suite 9
Green Bay, WI 54302
920-469-2436, Fax: 920-469-8827

Analytical Report Number: 884569

Client: PACE ANALYTICAL SERVICES, INC.
Lab Contact: Eric Wied

Project Name: CRA

Project Number: 2070014

Lab Sample Number	Field ID	Matrix	Collection Date
884569-001	MW1 53107 20524683	WATER	05/31/07 13:10
884569-002	MW2 53107 20524684	WATER	05/31/07 13:15
884569-003	MW3 53107 20524685	WATER	05/31/07 13:00
884569-004	MW4 53107 20524686	WATER	05/31/07 12:30
884569-005	MW5 53107 20524687	WATER	05/31/07 12:35
884569-006	MW6 53107 20524688	WATER	05/31/07 12:05
884569-007	MW7 53107 20524689	WATER	05/31/07 13:35
884569-008	MW8 53107 20524690	WATER	05/31/07 14:05
884569-009	WW1 53107 20524691	WATER	05/31/07 11:40
884569-010	DUP 53107 20524692	WATER	05/31/07

I certify that the data contained in this Final Report has been generated and reviewed in accordance with approved methods and Laboratory Standard Operating Procedure. Exceptions, if any, are discussed in the accompanying sample comments. Release of this final report is authorized by Laboratory management, as is verified by the following signature. This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc. The sample results relate only to the analytes of interest tested.

Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

REPORT OF LABORATORY ANALYSIS

ACCREDITED IN ACCORDANCE WITH nelac

E-Wied
Approval Signature

06.15.07
Date

Pace Analytical
Services, Inc.

Analytical Report Number: 884569

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Client : PACE ANALYTICAL SERVICES, INC.
Project Name : CRA
Project Number : 2070014
Field ID : MW1 53107 20524683

Matrix Type : WATER
Collection Date : 05/31/07
Report Date : 06/15/07
Lab Sample Number : 884569-001

INORGANICS

Test		Result	EQL	Dilution	Units	Code	Anl Date/Time	Prep Method	Anl Method
Chloride		7000	2500	500	mg/L		06/12/07 12:12 PM	EPA 300.0	EPA 300.0
						Prep Date/Time:			Anl By: GLL
Fluoride	<	50	50	100	mg/L	C	06/12/07 12:48 PM	EPA 300.0	EPA 300.0
						Prep Date/Time:			Anl By:
Sulfate		1900	400	100	mg/L		06/12/07 12:48 PM	EPA 300.0	EPA 300.0
						Prep Date/Time:			Anl By: GLL

Pace Analytical
Services, Inc.

Analytical Report Number: 884569

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Client : PACE ANALYTICAL SERVICES, INC.
Project Name : CRA
Project Number : 2070014
Field ID : MW2 53107 20524684

Matrix Type : WATER
Collection Date : 05/31/07
Report Date : 06/15/07
Lab Sample Number : 884569-002

INORGANICS

Test	Result	EQL	Dilution	Units	Code	Anl Date/Time	Prep Method	Anl Method
Chloride	6700	2500	500	mg/L		06/12/07 01:00 PM	EPA 300.0	EPA 300.0
						Prep Date/Time:		Anl By: GLL
Fluoride	< 50	50	100	mg/L	C	06/12/07 01:12 PM	EPA 300.0	EPA 300.0
						Prep Date/Time:		Anl By:
Sulfate	1700	400	100	mg/L		06/12/07 01:12 PM	EPA 300.0	EPA 300.0
						Prep Date/Time:		Anl By: GLL

Pace Analytical Services, Inc.

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Analytical Report Number: 884569

Client : PACE ANALYTICAL SERVICES, INC.
Project Name : CRA
Project Number : 2070014
Field ID : MW3 53107 20524685

Matrix Type : WATER
Collection Date : 05/31/07
Report Date : 06/15/07
Lab Sample Number : 884569-003

INORGANICS

Test		Result	EQL	Dilution	Units	Code	Anl Date/Time	Prep Method	Anl Method
Chloride		7700	2500	500	mg/L		06/12/07 01:25 PM	EPA 300.0	EPA 300.0
						Prep Date/Time:			Anl By: GLL
Fluoride	<	50	50	100	mg/L	C	06/12/07 01:37 PM	EPA 300.0	EPA 300.0
						Prep Date/Time:			Anl By:
Sulfate		2900	400	100	mg/L		06/12/07 01:37 PM	EPA 300.0	EPA 300.0
						Prep Date/Time:			Anl By: GLL

Pace Analytical Services, Inc.

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Analytical Report Number: 884569

Client : PACE ANALYTICAL SERVICES, INC.
Project Name : CRA
Project Number : 2070014
Field ID : MW4 53107 20524686

Matrix Type : WATER
Collection Date : 05/31/07
Report Date : 06/15/07
Lab Sample Number : 884569-004

INORGANICS

Test	Result	EQL	Dilution	Units	Code	Anl Date/Time	Prep Method	Anl Method
Chloride	5500	500	100	mg/L		06/12/07 02:01 PM	EPA 300.0	EPA 300.0
					Prep Date/Time:			Anl By: GLL
Fluoride	< 50	50	100	mg/L	C	06/12/07 02:01 PM	EPA 300.0	EPA 300.0
					Prep Date/Time:			Anl By:
Sulfate	1500	400	100	mg/L		06/12/07 02:01 PM	EPA 300.0	EPA 300.0
					Prep Date/Time:			Anl By: GLL

Pace Analytical
Services, Inc.

Analytical Report Number: 884569

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Client : PACE ANALYTICAL SERVICES, INC.
Project Name : CRA
Project Number : 2070014
Field ID : MW5 53107 20524687

Matrix Type : WATER
Collection Date : 05/31/07
Report Date : 06/15/07
Lab Sample Number : 884569-005

INORGANICS

Test		Result	EQL	Dilution	Units	Code	Anl Date/Time	Prep Method	Anl Method
Chloride		6400	2500	500	mg/L		06/12/07 02:13 PM	EPA 300.0	EPA 300.0
							Prep Date/Time:		Anl By: GLL
Fluoride	<	50	50	100	mg/L	C	06/12/07 02:25 PM	EPA 300.0	EPA 300.0
							Prep Date/Time:		Anl By:
Sulfate		1500	400	100	mg/L		06/12/07 02:25 PM	EPA 300.0	EPA 300.0
							Prep Date/Time:		Anl By: GLL

Pace Analytical
Services, Inc.

Analytical Report Number: 884569

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Client : PACE ANALYTICAL SERVICES, INC.
Project Name : CRA
Project Number : 2070014
Field ID : MW6 53107 20524688

Matrix Type : WATER
Collection Date : 05/31/07
Report Date : 06/15/07
Lab Sample Number : 884569-006

INORGANICS

Test		Result	EQL	Dilution	Units	Code	Anl Date/Time	Prep Method	Anl Method
Chloride		7800	2500	500	mg/L		06/12/07 02:38 PM	EPA 300.0	EPA 300.0
						Prep Date/Time:			Anl By: GLL
Fluoride	<	50	50	100	mg/L	C	06/12/07 03:14 PM	EPA 300.0	EPA 300.0
						Prep Date/Time:			Anl By:
Sulfate		3100	400	100	mg/L		06/12/07 03:14 PM	EPA 300.0	EPA 300.0
						Prep Date/Time:			Anl By: GLL

Pace Analytical Services, Inc.

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Analytical Report Number: 884569

Client : PACE ANALYTICAL SERVICES, INC.
Project Name : CRA
Project Number : 2070014
Field ID : MW7 53107 20524689

Matrix Type : WATER
Collection Date : 05/31/07
Report Date : 06/15/07
Lab Sample Number : 884569-007

INORGANICS

Test		Result	EQL	Dilution	Units	Code	Anl Date/Time	Prep Method	Anl Method
Chloride		6800	500	100	mg/L		06/12/07 03:39 PM	EPA 300.0	EPA 300.0
						Prep Date/Time:			Anl By: GLL
Fluoride	<	50	50	100	mg/L	C	06/12/07 03:39 PM	EPA 300.0	EPA 300.0
						Prep Date/Time:			Anl By:
Sulfate		1800	400	100	mg/L		06/12/07 03:39 PM	EPA 300.0	EPA 300.0
						Prep Date/Time:			Anl By: GLL

Pace Analytical
Services, Inc.

Analytical Report Number: 884569

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Client : PACE ANALYTICAL SERVICES, INC.
Project Name : CRA
Project Number : 2070014
Field ID : MW8 53107 20524690

Matrix Type : WATER
Collection Date : 05/31/07
Report Date : 06/15/07
Lab Sample Number : 884569-008

INORGANICS

Test		Result	EQL	Dilution	Units	Code	Anl Date/Time	Prep Method	Anl Method
Chloride		3200	500	100	mg/L		06/12/07 03:51 PM	EPA 300.0	EPA 300.0
						Prep Date/Time:			Anl By: GLL
Fluoride	<	50	50	100	mg/L	C	06/12/07 03:51 PM	EPA 300.0	EPA 300.0
						Prep Date/Time:			Anl By:
Sulfate		960	400	100	mg/L		06/12/07 03:51 PM	EPA 300.0	EPA 300.0
						Prep Date/Time:			Anl By: GLL

Pace Analytical
Services, Inc.

Analytical Report Number: 884569

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Client : PACE ANALYTICAL SERVICES, INC.
Project Name : CRA
Project Number : 2070014
Field ID : WW1 53107 20524691

Matrix Type : WATER
Collection Date : 05/31/07
Report Date : 06/15/07
Lab Sample Number : 884569-009

INORGANICS

Test	Result	EQL	Dilution	Units	Code	Anl Date/Time	Prep Method	Anl Method
Chloride	2400	250	50	mg/L		06/12/07 04:03 PM	EPA 300.0	EPA 300.0
						Prep Date/Time:		Anl By: GLL
Fluoride	< 25	25	50	mg/L	C	06/12/07 04:03 PM	EPA 300.0	EPA 300.0
						Prep Date/Time:		Anl By:
Sulfate	300	200	50	mg/L		06/12/07 04:03 PM	EPA 300.0	EPA 300.0
						Prep Date/Time:		Anl By: GLL

Pace Analytical
Services, Inc.

Analytical Report Number: 884569

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Client : PACE ANALYTICAL SERVICES, INC.
Project Name : CRA
Project Number : 2070014
Field ID : DUP 53107 20524692

Matrix Type : WATER
Collection Date : 05/31/07
Report Date : 06/15/07
Lab Sample Number : 884569-010

INORGANICS

Test	Result	EQL	Dilution	Units	Code	Anl Date/Time	Prep Method	Anl Method
Chloride	3200	500	100	mg/L	N	06/12/07 04:15 PM	EPA 300.0	EPA 300.0
					Prep Date/Time:			Anl By: GLL
Fluoride	< 50	50	100	mg/L	C	06/12/07 04:15 PM	EPA 300.0	EPA 300.0
					Prep Date/Time:			Anl By:
Sulfate	940	400	100	mg/L		06/12/07 04:15 PM	EPA 300.0	EPA 300.0
					Prep Date/Time:			Anl By: GLL

Pace Analytical
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920-469-2436
Fax: 920-469-8827

Lab Number	TestGroupID	Field ID	Comment
884569	W-F-W	All Samples	C - Elevated detection limit due to high chloride content. For samples 001-010

Qualifier Codes

Flag	Applies To	Explanation
A	Inorganic	Analyte is detected in the method blank. Method blank criteria is evaluated to the laboratory method detection limit. Additionally, method blank acceptance may be based on project specific criteria or determined from analyte concentrations in the sample and are evaluated on a sample by sample basis.
B	Inorganic	The analyte has been detected between the method detection limit and the reporting limit.
B	Organic	Analyte is present in the method blank. Method blank criteria is evaluated to the laboratory method detection limit. Additionally, method blank acceptance may be based on project specific criteria or determined from analyte concentrations in the sample and are evaluated on a sample by sample basis.
C	All	Elevated detection limit.
D	All	Analyte value from diluted analysis or surrogate result not applicable due to sample dilution.
E	Inorganic	Estimated concentration due to matrix interferences. During the metals analysis the serial dilution failed to meet the established control limits of 0-10%. The sample concentration is greater than 50 times the IDL for analysis done on the ICP or 100 times the IDL for analysis done on the ICP-MS. The result was flagged with the E qualifier to indicate that a physical interference was observed.
E	Organic	Analyte concentration exceeds calibration range.
F	Inorganic	Due to potential interferences for this analysis by Inductively Coupled Plasma techniques (SW-846 Method 6010), this analyte has been confirmed by and reported from an alternate method.
F	Organic	Surrogate results outside control criteria.
G	All	The result is estimated because the concentration is less than the lowest calibration standard concentration utilized in the initial calibration. The method detection limit is less than the reporting limit specified for this project.
H	All	Preservation, extraction or analysis performed past holding time.
HF	Inorganic	This test is considered a field parameter, and the recommended holding time is 15 minutes from collection. The analysis was performed in the laboratory beyond the recommended holding time.
J	All	Concentration detected equal to or greater than the method detection limit but less than the reporting limit.
K	Organic	Detection limit may be elevated due to the presence of an unrequested analyte.
L	All	Elevated detection limit due to low sample volume.
M	Organic	Sample pH was greater than 2
N	All	Spiked sample recovery not within control limits.
O	Organic	Sample received overweight.
P	Organic	The relative percent difference between the two columns for detected concentrations was greater than 40%.
Q	All	The analyte has been detected between the limit of detection (LOD) and limit of quantitation (LOQ). The results are qualified due to the uncertainty of analyte concentrations within this range.
S	Organic	The relative percent difference between quantitation and confirmation columns exceeds internal quality control criteria. Because the result is unconfirmed, it has been reported as a non-detect with an elevated detection limit.
U	All	The analyte was not detected at or above the reporting limit.
V	All	Sample received with headspace.
W	All	A second aliquot of sample was analyzed from a container with headspace.
X	All	See Sample Narrative.
Z	Organics	This compound was separated in the check standard but it did not meet the resolution criteria as set forth in SW846.
&	All	Laboratory Control Spike recovery not within control limits.
*	All	Precision not within control limits.
+	Inorganic	The sample result is greater than four times the spike level: therefore, the percent recovery is not evaluated.
<	All	The analyte was not detected at or above the reporting limit.
1	Inorganic	Dissolved analyte or filtered analyte greater than total analyte; analyses passed QC based on precision criteria.
2	Inorganic	Dissolved analyte or filtered analyte greater than total analyte; analyses failed QC based on precision criteria.
3	Inorganic	BOD result is estimated due to the BOD blank exceeding the allowable oxygen depletion.
4	Inorganic	BOD duplicate precision not within control limits. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.
5	Inorganic	BOD result is estimated due to insufficient oxygen depletion. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.
6	Inorganic	BOD laboratory control sample not within control limits. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.
7	Inorganic	BOD result is estimated due to complete oxygen depletion. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.
8	Inorganic	Sample was received unpreserved. Sample was preserved either at the time of receipt or at the time of sample preparation.
9	Inorganic	Sample was received with insufficient preservation. Acid was added either at the time of receipt or at the time of sample preparation.

Test Group Name	884569-001	884569-002	884569-003	884569-004	884569-005	884569-006	884569-007	884569-008	884569-009	884569-010
CHLORIDE	B	B	B	B	B	B	B	B	B	B
FLUORIDE	B	B	B	B	B	B	B	B	B	B
SULFATE	B	B	B	B	B	B	B	B	B	B

Code	TX Certification
B	Not Certified

Pace Analytical Services, Inc.

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436
Fax: 920-469-8827

QC Summary

Batch: 884569
Lab Section: WETCHEM
QC Batch Number: 21645
Prep Method: EPA 300.0
Analytical Method: EPA 300.0

QC Type	Client Sample ID	Lab Sample ID
MB	WCG2192-089MB	WCG2192-089MB
LCS	WCG2192-089MBLCS	WCG2192-089MBLCS
MS	DUP 53107 20524692MS	884569-010MS
MS	884568-001MS	884568-001MS
MSD	DUP 53107 20524692MSD	884569-010MSD
MSD	884568-001MSD	884568-001MSD

Client Sample ID	Lab Sample ID	MB ID	Client Sample ID	Lab Sample ID	MB ID
MW1 53107 20524683	884569-001	MB	MW2 53107 20524684	884569-002	MB
MW3 53107 20524685	884569-003	MB	MW4 53107 20524686	884569-004	MB
MW5 53107 20524687	884569-005	MB	MW6 53107 20524688	884569-006	MB
MW7 53107 20524689	884569-007	MB	MW8 53107 20524690	884569-008	MB
WW1 53107 20524691	884569-009	MB	DUP 53107 20524692	884569-010	MB

Test Name	Method Blank Result	Conc	LCS Spiked Conc	LCS Recovery Conc	%	C	LCSD Spiked Conc	LCSD Recovery Conc	%	C	LCS/LCSD RPD %	C	LCS/LCSD Control Limits LCL %	UCL %	RPD %	Parent Sample Number		Parent Result Conc	MS Spiked Conc	MS Recovery Conc	%	C	MSD Spiked Conc	MSD Recovery Conc	%	C	MS/MSD RPD %	C	MS/MSD Control Limits LCL %	UCL %	RPD %
Chloride	<	5	20.0	19.9	99.4		---	---	---		---		90	110	20	884568-001		62.0	20.0	83.5	107.8		20.0	84.4	112.2	N	1.0		90	110	20
Fluoride	<	0.5	2.0	2	101.0		---	---	---		---		90	110	20	884568-001		1.2	2.0	3.2	99.0		2.0	3.2	100.5		0.9		90	110	20
Sulfate	<	4	16.00	16.2	101.4		---	---	---		---		90	110	20	884568-001		116.7	160.0	271.7	96.9		160.0	274.2	98.4		0.9		90	110	20
Chloride	<	5	20.000	19.9	99.4		---	---	---		---		90	110	20	884569-010		3224.0	2000.0	5474	112.5	N	2000.0	5518	114.7	N	0.8		90	110	20
Fluoride	<	0.5	2.000	2	101.0		---	---	---		---		90	110	20	884569-010	<	5.9	200.0	214	107.0		200.0	211	105.5		1.4		90	110	20
Sulfate	<	4	16.000	16.2	101.4		---	---	---		---		90	110	20	884569-010		938.00	1600.0	2550	100.8		1600.0	2527	99.3		0.9		90	110	20

Conc = mg/L unless otherwise noted
C = QC Code, see Qualifer Sheet
Parent Result is reported down to MDL in order to allow Validation of this worksheet
The %R and RPD results are calculated from raw data values with more significant figures than are reported on this form.

Report Date: 6/15/2007
QC Batch Number: 21645

Sample Condition Upon Receipt

Pace Analytical

Client Name: Pace – LA Project # 884569

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

Optional: Proj. Due Date: Proj. Name:

Tracking #: _____

Custody Seal on Cooler/Box Present: ☒ yes ☐ no Seals intact: ☒ yes ☐ no

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

Thermometer Used: JB Type of Ice: Wet Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature: 10 Biological Tissue is Frozen: Yes No

Temp should be above freezing to 6°C Comments:

Date and Initials of person examining contents: AG 6/6/07 CJ 6-6-07

Chain of Custody Present:	☐Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☒Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☒Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☒Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☒Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☒No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☒No ☐N/A	7. 6/15
Sufficient Volume:	☒Yes ☐No ☐N/A	8.
Correct Containers Used:	☒Yes ☐No ☐N/A	9.
-Pace Containers Used:	☒Yes ☐No ☐N/A	
Containers Intact:	☒Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☒N/A	11.
Sample Labels match COC:	☒Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: W		
All containers needing preservation have been checked.	☐Yes ☐No ☒N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☒N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☐No	Initial when completed / Lot # of added preservative
Samples checked for dechlorination:	☐Yes ☐No ☒N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☒N/A	15.
Trip Blank Present:	☐Yes ☒No ☐N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☒N/A	
Pace Trip Blank Lot # (if purchased): _____		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ **Date:** 06-07-07

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

Pace Analytical®

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

Page: 1 of 2

1042643

Lab 70014

Section A Required Client Information:

Company	CRA
Address	2135 S. Loop 250 W. Midland, TX. 79703
Email To:	
Phone	432-686-0086
Fax	432-686-0186
Requested Due Date/TAT:	Standard

Section B Required Project Information:

Report To:	Luke Markham
Copy To:	
Purchase Order No.:	
Project Name:	J.R. Phillips
Project Number:	039126

Section C Invoice Information:

Attention:	Luke Markham
Company Name:	CRA
Address:	Same "
Pace Quote Reference:	
Pace Project Manager:	
Pace Profile #:	

REGULATORY AGENCY: ☐ NPDES ☒ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☐ Other

SITE LOCATION: ☐GA ☐IL ☐IN ☐MI ☐MN ☐NC ☐OH ☐SC ☐WI ☒OTHER New Mexico

Section D Required Client Information

Valid Matrix Codes

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

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / ,-) Samples IDs MUST BE UNIQUE)	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION °C	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other ICE	Filtered (Y/N)	Requested Analysis: (SM 2320B) Alkalinity	(EPA 300.0) Fluoride	(EPA 300.0) Sulfate	(EPA 353.2) Nitrate-N	(EPA 300.0) Chloride	Temp	Residual Chlorine (Y/N)	Pace Project Number / Lab I.D
1	MW1 5/31/07 001	WT	G			5/31	1310	27	2	X							X		X	X	X	X	X	X		884565 20524683
2	MW2 5/31/07 002	WT	G			5/31	1315	27	2	X							X		X	X	X	X	X	X		694
3	MW3 5/31/07 003	WT	G			5/31	1300	27	2	X							X		X	X	X	X	X	X		685
4	MW4 5/31/07 004	WT	G			5/31	1230	26	2	X							X		X	X	X	X	X	X		686
5	MW5 5/31/07 005	WT	G			5/31	1235	26	2	X							X		X	X	X	X	X	X		687
6	MW6 5/31/07 006	WT	G			5/31	1205	25	2	X							X		X	X	X	X	X	X		688
7	MW7 5/31/07 007	WT	G			5/31	1335	26	2	X							X		X	X	X	X	X	X		689
8	MW8 5/31/07 008	WT	G			5/31	1405	27	2	X							X		X	X	X	X	X	X		690
9	MW1 5/31/07 009	WT	G			5/31	1140	27	2	X							X		X	X	X	X	X	X		691
10	DUP 5/31/07 010	WT	G			5/31	—	—	2	X							X		X	X	X	X	X	X		692
11	TEMP	WT	—			—	—	—	1	X							X								X	
12																										

Additional Comments:

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Cory Coleman / CRA	5/31/07	1600			
Fed Ex	6-1-07	0950	M. Miller / Pace	6-1-07	0950
M. Miller	6-5-07	1700	Fed Ex		
Fed Ex	6-6-07	1015	A. Kerley	6-6-07	1015

SAMPLE CONDITION

	Y/N	Y/N	Y/N
3.9	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
1.0	Y/N	Y/N	Y/N
Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Cory Coleman

SIGNATURE of SAMPLER: [signature] DATE Signed (MM / DD / YY)

SEE REVERSE SIDE FOR INSTRUCTIONS