2006 ANNUAL GROUNDWATER MONITORING REPORT

COOPER-JAL UNIT SOUTH INJECTION STATION
OGRID NO. 4323
NW/4, NW/4, SE/4, SECTION 24, T-24-S, R-36-E
LATITUDE: N 32° 12′ 7.3″ LONGITUDE: W 103° 12′ 59.9″
LEA COUNTY, NEW MEXICO

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LEA COUNTY, NEW MEXICO

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1.0 INTRODUCTION

This Annual Groundwater Monitoring Report presents groundwater data collected during the 2006 reporting period by Conestoga-Rovers & Associates (CRA) on behalf of Chevron Environmental Management Company (CEMC) at the Cooper-Jal Unit South Injection Station (hereafter referred to as the "Site"). Groundwater sampling events were performed on May 9, 2006 and on November 14-16, 2006.

The Site is located on Lea County Road J7, approximately 5.5 miles northwest of Jal, New Mexico and situated in Unit Letter J, northwest quarter (NW/4) of the northwest quarter (NW/4) of the southeast quarter (SE/4), Section 24, Township 24 South, Range 36 East, Lea County, New Mexico. The Site is relatively flat and improved with bermed above-ground storage tanks (ASTs), hardened caliche roadways, and oil and gas production equipment that includes four production wells. Land use in the vicinity of the Site is undeveloped rangeland vegetated with indigenous grass, livestock ranching and oil and gas production. The topography slopes southeast toward Monument Draw located approximately 7.5 miles southeast of the Site. A Site Location Map is presented as FIGURE 1.

Site assessment activities were initiated in 1993 when Environmental Spill Control, Inc. (ESCI) of Hobbs, New Mexico performed a subsurface assessment of an unlined earthen emergency produced water overflow pit that was located adjacent to the west edge of the Site. During the investigation, five boreholes were installed to depths ranging from 15 feet to 100 feet below ground surface (bgs). The investigation revealed the presence of hydrocarbon-affected soil. In 1996, Texaco Exploration and Production, Inc. filed a notice of intent to close the pit with the New Mexico Oil Conservation Division (NMOCD). Approximately 1,248 cubic yards of hydrocarbon-affected material were removed from the pit. During the closure activities, the excavation was lined with approximately 1,091 cubic yards of imported clay and backfilled with 3,360 cubic yards of imported caliche. Texaco submitted the pit closure report to the NMOCD in December 1996.

In 1997, the NMOCD requested additional assessment activities to define the vertical extent of affected soil beneath the pit. Assessment activities performed by Highlander Environmental Corporation revealed elevated soil chloride concentrations. In October 1997, monitor well MW-1 was installed near the former pit. Groundwater samples collected from the well contained chloride concentrations above the New Mexico Water Quality Control Commission (NMWQCC) Human Health Standards for Groundwater. Subsequent assessment activities through May 1998 included the installation of 14 monitor wells. In 1998, electromagnetic (EM-34) terrain conductivity surveys were performed to identify areas of elevated soil chloride concentrations.

In June 1998, Texaco prepared a groundwater corrective action plan to mitigate chloride concentrations and to provide plume containment by extracting groundwater from the affected groundwater-bearing unit. Subsequent assessment activities performed in 1999 included the installation of wells MW-11, RW-1 and RW-2. Wells MW-12 and MW-13 were installed in 2001. Semi-annual groundwater monitoring activities have been performed by CRA since 2005 along with annual reporting to the NMOCD for this Site.

2.0 REGULATORY FRAMEWORK

The NMOCD guidelines require groundwater to be analyzed for potential contaminants as defined by the 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 with a network of 17 monitor wells and two recovery wells in accordance with the *Work Plan for Plume Delineation and Modification to Proposed Groundwater Monitoring Schedule* (LA, November 18, 1998). Wells MW-8, MW-9, MW-9A, MW-10 and MW-11 are the only wells sampled during the first semi-annual monitoring event. The remaining 14 wells are sampled annually during the second semi-annual monitoring event. A Site Details Map is presented as FIGURE 2. Groundwater sampling events were performed on May 9, 2006 and on November 14-16, 2006.

The stratification of chloride-impacted groundwater is monitored with selectively screened wells in the affected groundwater-bearing unit. Wells MW-1 through MW-5 and MW-7 through MW-13 are screened across the basal 10 feet to 20 feet of the groundwater-bearing unit. These wells were drilled and completed to the Chinle Formation "Red Beds" underlying the Ogallala Aquifer and are referred to as the "deep wells" in this report. Wells MW-2A, MW-4A, MW-5A and MW-9A are screened across the water table interface with approximately five feet of screen above the water table and 15 feet of screen below the water table. These wells are referenced as the "shallow wells." Wells MW-6, MW-11, RW-1 and RW-2 are screened across the entire saturated zone of the groundwater-bearing unit and are referred to as "fully penetrating" wells.

Prior to purging the monitor wells, static fluid levels were measured with an electric interface probe to the nearest hundredth of a foot and recorded. Purging was considered complete when three well volumes had been removed or the well was purged dry. 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 6010, 310.1, 325.2, 375.4, 352.1, 9214 and 160.1. The fluids recovered and generated during the sampling event were containerized in a dedicated Polyethylene tank located onsite and subsequently managed at an NMOCD-permitted salt water disposal (SWD) facility by Nabors Well Services LTD. (Nabors).

3.1 POTENTIOMETRIC SURFACE AND GRADIENT

Groundwater elevation data are presented in TABLE I. Groundwater gradient maps for May 2006 and November 2006 are presented on FIGURES 3 and 4, respectively. Depth to groundwater ranged from 130.41 feet to 144.29 feet below top of casing on May 8,

2006 and from 130.42 feet to 144.38 feet below top of casing on November 13, 2006. Although the Site's network of wells is completed at various intervals (shallow, deep and fully penetrating), the groundwater elevations appear to be consistent with historical levels with groundwater flow to the southeast. The maximum gradient observed in 2006 was 0.003 feet/foot.

3.2 ANALYTICAL RESULTS

Analytical results are summarized in TABLE II. An isoconcentration map of the chloride concentration for the May 2006 groundwater monitoring event is presented as FIGURE 5. Chloride isoconcentrations maps for the shallow and deep wells for the November 2006 are presented as FIGURES 6 and 7, respectively.

The analytical results generally fall within historical ranges. During the May 2006 sampling event, one monitor well (MW-9A) exceeded the NMWQCC groundwater standards for chloride. In addition, two monitor wells (MW-9 and MW-11) exceeded the NMWQCC groundwater standard for fluoride. In November 2006, nine wells (MW-2, MW-4, MW-4A, MW-5, MW-7, MW-9A, MW-13, RW-1 and RW-2) exceeded the NMWQCC groundwater standards for chloride and TDS. In addition, two wells (MW-1 and MW-11) exceeded the NMWQCC groundwater standard for fluoride. Two wells (MW-4 and RW-1) also exceeded the NMWQCC groundwater standard for sulfate. Nitrate concentrations were below NMWQCC groundwater standards during the 2006 sampling events. Copies of the certified analytical reports and chain-of-custody documentation are attached in APPENDIX A.

4.0 PLANNED ACTIVITIES

The first semi-annual 2007 groundwater monitoring event is scheduled for May 2007. On October 1, 1999, Texaco Exploration and Production, Inc. filed applications with the New Mexico Office of the State Engineer (NMOSE) to Divert Underground Waters for proposed recovery wells RW-1 (CP-884) and RW-2 (CP-885). The objective for the application to divert underground water was to remove chloride-impacted groundwater as a corrective action. However, LA reported that the NMOSE denied the appropriation permits on concerns that NMOSE's internal 40-year aquifer drawdown projections exceeded NMOSE criteria.

CRA understands that the Capitan Underground Water Basin underlying the Site has been declared a "Critical" underground water basin and closed to new appropriations. CRA and CEMC will coordinate with the NMOCD and NMOSE to further evaluate the diversion of underground water as a corrective action. Subsequently, the proposed groundwater remediation method may be modified, as appropriate, to achieve the NMWQCC cleanup standards and/or meet regulatory obligations.

5.0 SUMMARY OF FINDINGS

Based on groundwater monitoring activities performed at the Site, CRA presents the following summary:

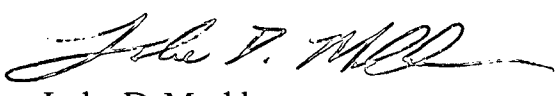
- Groundwater at the Site is monitored with a network of 19 monitor wells. Wells MW-8, MW-9, MW-9A, MW-10 and MW-11 are sampled semi-annually. The remaining 14 wells are sampled annually during the second semi-annual sampling event.

- Depth to groundwater ranged from 130.41 feet to 144.29 feet below top of casing on May 8, 2006 and from 130.42 feet to 144.38 feet below top of casing on November 13, 2006. Groundwater flow at the Site is to the southeast at a gradient of 0.003 feet/foot.

- The analytical results generally fall within historical ranges with higher chloride concentrations in the basal portion of the Ogallala aquifer. During the May 2006 sampling event, one monitor well (MW-9A) exceeded the NMWQCC groundwater standards for chloride. In addition, two monitor wells (MW-9 and MW-11) exceeded the NMWQCC groundwater standard for fluoride. In November 2006, nine wells (MW-2, MW-4, MW-4A, MW-5, MW-7, MW-9A, MW-13, RW-1 and RW-2) exceeded the NMWQCC groundwater standards for chloride and TDS. In addition, two wells (MW-1 and MW-11) exceeded the NMWQCC groundwater standard for fluoride. Two wells (MW-4 and RW-1) also exceeded the NMWQCC groundwater standard for sulfate. Nitrate concentrations were below NMWQCC groundwater standards during the 2006 sampling events.

- The first semi-annual 2007 groundwater monitoring event is scheduled for May 2007. CRA and CEMC will coordinate with the NMOCD and NMOSE to further evaluate the diversion of underground water as a corrective action. Subsequently, the proposed groundwater remediation method may be modified, as appropriate, to achieve the NMWQCC cleanup standards and/or meet regulatory obligations.

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



Luke D. Markham
Project Manager

Thomas C. Larson
Senior Project Manager

FIGURES

JAL NW QUADRANGLE
NEW MEXICO

LAT= 32° 12' 07.3" N
LONG= 103° 12' 59.9" W

PHOTOREVISED 1977

USGS MAP SERIES 1:24,000

0 1 2 4
(Miles)

0 4000 8000 12000 16000
(Feet)

CONTOUR INTERVAL 10 FEET

NORTH

039123 SJR 051505

SITE LOCATION MAP	JOB No. 039123
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY COOPER–JAL UNIT SOUTH INJECTION STATION LEA COUNTY, NEW MEXICO	FIGURE 1

Approximate Scale In Feet
1"=400'
0 200 400

MW-13

MW-12

COOPER-JAL SOUTH
WATER STATION
TANK BATTERY

Fence

Cattle Guard

MW-6

MW-3

WELL NO. 148

MW-2A

MW-2

MW-1

MW-5

MW-5A

RW-1

MW-4A

MW-4

WELL NO. 245

MW-10

RW-2

MW-7

WELL NO. 411

WELL NO. 421

MW-8

MW-9A

MW-9

MW-11

LEGEND

- Monitor Well Location (Deep)
- Monitor Well Location (Shallow)
- Cooper-Jal Oil Well Location
- Recovery Well Location (Fully Penetrating)
- Monitor Well Location (Fully Penetrating)

Basemap adapted from Larson & Associates, Inc. (August 18, 2005).

031923 SLR 021406

SITE DETAILS MAP

CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
COOPER-JAL UNIT SOUTH INJECTION STATION
LEA COUNTY, NEW MEXICO

JOB No.
039123

FIGURE
2

Approximate Scale In Feet
1"=400'
0 200 400

MW-13
3194.20

3194
3193
3192
3191
3190
3189
3188
3187
3186
3185
3184
3183

MW-12
3188.88

COOPER-JAL SOUTH
WATER STATION
TANK BATTERY

Fence

Cattle Guard

MW-3
3185.89

WELL NO. 148

MW-1
3185.49

MW-2A
MW-2
3185.34

3185.40

MW-6
3184.57

3184.20

MW-5
3184.57

MW-5A
3184.27

RW-1

MW-4A
3184.32

MW-4
3184.14

WELL NO. 245

MW-10
3182.65

RW-2
3183.20

MW-7
3182.75

WELL NO. 411

WELL NO. 421

MW-8
3183.20

3180.54
MW-9A

MW-9
3180.53

MW-11
3179.28

3182
3181
3180
3179

LEGEND

- Monitor Well Location (Deep)
- Monitor Well Location (Shallow)
- Cooper-Jal Oil Well Location
- Recovery Well Location (Fully Penetrating)
- Monitor Well Location (Fully Penetrating)
- 3094.38 Groundwater Level Elevation
- Groundwater Level Elevation Contour (Interval = 1 ft)
- Direction of Groundwater Flow

1. Groundwater level elevations were measured by Larson & Associates on May 8, 2006.
2. Contours are feet above MSL.
3. Basemap adapted from Larson & Associates, Inc. (August 18, 2005).

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GRA

GROUNDWATER GRADIENT MAP - MAY 2006

CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
COOPER-JAL UNIT SOUTH INJECTION STATION
LEA COUNTY, NEW MEXICO

JOB No.
039123

FIGURE
3

Approximate Scale In Feet
1"=400'
0 200 400

MW-13
3194.11

MW-12
3188.90

COOPER-JAL SOUTH
WATER STATION
TANK BATTERY

Fence

Cattle Guard

MW-3
3185.94

WELL NO. 148

MW-2A
3185.47

MW-2
3185.42

MW-1
3185.55

3184.58

RW-1

MW-6
3184.66

3184.28

MW-5

MW-5A
3184.33

MW-4A
3184.38

MW-4
3184.15

WELL NO. 245

MW-10
3182.71

RW-2
3183.15

MW-7
3182.81

WELL NO. 411

WELL NO. 421

MW-8
3183.24

3181.47
MW-9A

MW-9
3180.60

MW-11
3179.27

3194
3193
3192
3191
3190
3189
3188
3187
3186
3185
3184
3183
3182
3181
3180
3179

LEGEND

- Monitor Well Location (Deep)
- Monitor Well Location (Shallow)
- Cooper-Jal Oil Well Location
- Recovery Well Location (Fully Penetrating)
- Monitor Well Location (Fully Penetrating)
- 3094.38 Groundwater Level Elevation
- Groundwater Level Elevation Contour (Interval = 1 ft)
- Direction of Groundwater Flow

1. Groundwater level elevations were measured by Conestoga-Rovers & Associates on November 13, 2006.
2. Contours are feet above MSL.
3. Basemap adapted from Larson & Associates, Inc. (August 18, 2005).

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GROUNDWATER GRADIENT MAP - NOVEMBER 2006

CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
COOPER-JAL UNIT SOUTH INJECTION STATION
LEA COUNTY, NEW MEXICO

JOB No.
039123

FIGURE
4

Approximate Scale In Feet
1"=400'
0 200 400

MW-13

MW-12

COOPER-JAL SOUTH
WATER STATION
TANK BATTERY

Fence

Cattle Guard

MW-6

MW-3

WELL NO. 148

MW-2A

MW-2

MW-1

MW-5

MW-5A

RW-1

MW-4A

MW-4

WELL NO. 245

MW-10
180

RW-2

MW-7

WELL NO. 411

WELL NO. 421

250

MW-8
210

MW-9A

MW-9
270

37

MW-11
37

LEGEND

- Monitor Well Location (Deep)
- Monitor Well Location (Shallow)
- Cooper-Jal Oil Well Location
- Recovery Well Location (Fully Penetrating)
- Monitor Well Location (Fully Penetrating)
- 270 Chloride Concentration (mg/L)

1. Groundwater samples were collected on May 9, 2006.
2. Chloride analysis by EPA Method 300.0
3. Includes shallow, deep, and fully penetrating/screened wells (5 total).
4. Basemap adapted from Larson & Associates, Inc. (August 18, 2005).

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CHLORIDE ISOCONCENTRATION MAP - MAY 2006
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
COOPER-JAL UNIT SOUTH INJECTION STATION
LEA COUNTY, NEW MEXICO

JOB No.
039123

FIGURE
5

Approximate Scale In Feet
1"=400'
0 200 400

MW-13

MW-12

COOPER-JAL SOUTH
WATER STATION
TANK BATTERY

Fence

Cattle Guard

MW-6

MW-3

WELL NO. 148

MW-2A 49

MW-2

MW-1

MW-5

MW-5A 47

RW-1

MW-4A

MW-4 960

WELL NO. 245

MW-10

RW-2

MW-7

WELL NO. 411

WELL NO. 421

750

500

250

MW-8

MW-9A 290

MW-9

MW-11

LEGEND

- Monitor Well Location (Deep)
- Monitor Well Location (Shallow)
- Cooper-Jal Oil Well Location
- Recovery Well Location (Fully Penetrating)
- Monitor Well Location (Fully Penetrating)
- 290 Chloride Concentration (mg/L)
- Chloride Concentration Contour (Interval = 250 mg/L)

1. Groundwater samples were collected on November 14-16, 2006.
2. Chloride analysis by EPA Method 300.0
3. Includes four wells completed in the upper portion of the Ogallala Aquifer.
4. Basemap adapted from Larson & Associates, Inc. (August 18, 2005).

031923 2006 SLR 022707

SHALLOW GROUNDWATER CHLORIDE ISOCONCENTRATION MAP - NOVEMBER 2006

CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
COOPER-JAL UNIT SOUTH INJECTION STATION
LEA COUNTY, NEW MEXICO

JOB No. 039123

FIGURE 6

Approximate Scale In Feet
1"=400'
0 200 400

MW-13
2,000
2000
1000
500
250

MW-12
120

COOPER-JAL SOUTH
WATER STATION
TANK BATTERY

Fence

Cattle Guard

68
MW-6

MW-3
30

WELL NO. 148

MW-2A
MW-2
3,500

MW-1
96

MW-5 2,000
MW-5A

11,000

RW-1

MW-4A

MW-4
14,000

WELL NO. 245

MW-10
190

10,000

RW-2
2,500

5,000
4,000

MW-7
550

WELL NO. 411

WELL NO. 421

3,000
2,000
1,000

MW-8
230

500

MW-9A
MW-9
210

MW-11
34

LEGEND

- Monitor Well Location (Deep)
- Monitor Well Location (Shallow)
- Cooper-Jal Oil Well Location
- Recovery Well Location (Fully Penetrating)
- Monitor Well Location (Fully Penetrating)
- 290 Chloride Concentration (mg/L)
- Chloride Concentration Contour (Interval Variable Range = 250-10,000 mg/L)

1. Groundwater samples were collected on November 14-16, 2006.
2. Chloride analysis by EPA Method 300.0
3. Includes deep and fully penetrating/ screened wells.
4. Basemap adapted from Larson & Associates, Inc. (August 18, 2005).

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DEEP GROUNDWATER CHLORIDE ISOCONCENTRATION MAP - NOVEMBER 2006

CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
COOPER-JAL UNIT SOUTH INJECTION STATION
LEA COUNTY, NEW MEXICO

JOB No.
039123

FIGURE
7

TABLES

TABLE I
GROUNDWATER GAUGING SUMMARY
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
COOPER-JAL UNIT SOUTH INJECTION STATION
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)
Shallow Screened Wells						
MW-2A	05/18/98	134.80	2	3185.06	142.30	130-145
3319.86	05/25/99	134.73	---	3185.13	---	---
	02/08/01	134.58	---	3185.28	---	---
	05/10/02	134.50	---	3185.36	---	---
	10/22/02	134.66	---	3185.20	---	---
	05/20/03	135.80	---	3184.06	---	---
	11/24/03	134.60	---	3185.26	---	---
	05/11/04	134.53	---	3185.33	---	---
	11/15/04	134.58	---	3185.28	---	---
	05/17/05	134.47	---	3185.39	---	---
	11/15/05	134.74	---	3185.12	---	---
	05/08/06	134.46	---	3185.40	---	---
	11/13/06	134.39	---	3185.47	---	---
MW-4A	05/18/98	135.68	2	3183.90	146.00	128-143
3319.58	05/21/99	135.65	---	3183.93	---	---
	05/25/99	135.90	---	3183.68	---	---
	02/08/01	135.34	---	3184.24	---	---
	05/10/02	135.30	---	3184.28	---	---
	10/22/02	135.51	---	3184.07	---	---
	05/20/03	135.55	---	3184.03	---	---
	11/24/03	135.31	---	3184.27	---	---
	05/11/04	135.72	---	3183.86	---	---
	11/15/04	135.38	---	3184.20	---	---
	05/17/05	135.32	---	3184.26	---	---
	11/15/05	135.52	---	3184.06	---	---
	05/08/06	135.26	---	3184.32	---	---
	11/13/06	135.20	---	3184.38	---	---
MW-5A	05/18/98	137.20	2	3183.87	143.85	126-141
3321.07	05/25/99	137.11	---	3183.96	---	---
	02/08/01	136.99	---	3184.08	---	---
	05/10/02	136.90	---	3184.17	---	---
	10/22/02	137.17	---	3183.90	---	---
	05/20/03	137.24	---	3183.83	---	---
	11/24/03	136.91	---	3184.16	---	---
	05/11/04	136.88	---	3184.19	---	---
	11/15/04	136.92	---	3184.15	---	---
	05/17/05	136.83	---	3184.24	---	---
	11/15/05	137.06	---	3184.01	---	---
	05/08/06	136.80	---	3184.27	---	---
	11/13/06	136.74	---	3184.33	---	---

TABLE I
GROUNDWATER GAUGING SUMMARY
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
COOPER-JAL UNIT SOUTH INJECTION STATION
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-9A	05/18/98	132.65	2	3179.91	144.15	127-142
3312.56	05/25/99	132.43	---	3180.13	---	---
	02/08/01	132.37	---	3180.19	---	---
	05/10/02	137.20	---	3175.36	---	---
	10/22/02	132.35	---	3180.21	---	---
	05/20/03	132.55	---	3180.01	---	---
	11/24/03	132.10	---	3180.46	---	---
	05/11/04	132.14	---	3180.42	---	---
	11/15/04	132.19	---	3180.37	---	---
	05/17/05	132.06	---	3180.50	---	---
	11/15/05	132.35	---	3180.21	---	---
	05/08/06	132.02	---	3180.54	---	---
	11/13/06	131.09	---	3181.47	---	---
Deep Screened Wells						
MW-1	05/18/98	135.05	2	3185.12	172.38	153-173
3320.17	05/25/99	134.93	---	3185.24	---	---
	02/08/01	134.80	---	3185.37	---	---
	05/10/02	134.77	---	3185.40	---	---
	10/22/02	134.89	---	3185.28	---	---
	05/20/03	135.17	---	3185.00	---	---
	11/24/03	134.70	---	3185.47	---	---
	05/11/04	134.75	---	3185.42	---	---
	11/15/04	134.76	---	3185.41	---	---
	05/17/05	134.29	---	3185.88	---	---
	11/15/05	134.93	---	3185.24	---	---
	05/08/06	134.68	---	3185.49	---	---
	11/13/06	134.62	---	3185.55	---	---
MW-2	05/18/98	135.00	2	3184.86	170.60	163-173
3319.86	05/25/99	134.79	---	3185.07	---	---
	02/08/01	134.63	---	3185.23	---	---
	05/10/02	134.65	---	3185.21	---	---
	10/22/02	134.72	---	3185.14	---	---
	05/20/03	134.95	---	3184.91	---	---
	11/24/03	134.56	---	3185.30	---	---
	05/11/04	134.55	---	3185.31	---	---
	11/15/04	134.53	---	3185.33	---	---
	05/17/05	134.39	---	3185.47	---	---
	11/15/05	134.77	---	3185.09	---	---
	05/08/06	134.52	---	3185.34	---	---
	11/13/06	134.44	---	3185.42	---	---

TABLE I
GROUNDWATER GAUGING SUMMARY
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
COOPER-JAL UNIT SOUTH INJECTION STATION
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-3	05/18/98	132.65	2	3185.56	171.93	161-171
3318.21	05/25/99	132.52	---	3185.69	---	---
	02/08/01	132.40	---	3185.81	---	---
	05/10/02	132.40	---	3185.81	---	---
	10/22/02	132.49	---	3185.72	---	---
	05/20/03	132.75	---	3185.46	---	---
	11/24/03	132.29	---	3185.92	---	---
	05/11/04	132.38	---	3185.83	---	---
	11/15/04	132.46	---	3185.75	---	---
	05/17/05	132.32	---	3185.89	---	---
	11/15/05	132.55	---	3185.66	---	---
	05/08/06	132.32	---	3185.89	---	---
	11/13/06	132.27	---	3185.94	---	---
MW-4	05/18/98	136.01	2	3183.73	171.41	161-171
3319.74	05/25/99	135.57	---	3184.17	---	---
	02/08/01	135.87	---	3183.87	---	---
	05/10/02	135.67	---	3184.07	---	---
	10/22/02	135.90	---	3183.84	---	---
	05/20/03	136.00	---	3183.74	---	---
	11/24/03	135.70	---	3184.04	---	---
	05/11/04	135.34	---	3184.40	---	---
	11/15/04	135.76	---	3183.98	---	---
	05/17/05	135.69	---	3184.05	---	---
	11/15/05	135.85	---	3183.89	---	---
	05/08/06	135.60	---	3184.14	---	---
	11/13/06	135.59	---	3184.15	---	---
MW-5	05/18/98	137.42	2	3183.68	173.65	161-171
3321.10	05/25/99	137.28	---	3183.82	---	---
	02/08/01	137.18	---	3183.92	---	---
	05/10/02	137.10	---	3184.00	---	---
	10/22/02	137.04	---	3184.06	---	---
	05/20/03	137.45	---	3183.65	---	---
	11/24/03	137.01	---	3184.09	---	---
	05/11/04	137.01	---	3184.09	---	---
	11/15/04	137.08	---	3184.02	---	---
	05/17/05	137.00	---	3184.10	---	---
	11/15/05	137.18	---	3183.92	---	---
	05/08/06	136.90	---	3184.20	---	---
	11/13/06	136.81	---	3184.29	---	---

TABLE I
GROUNDWATER GAUGING SUMMARY
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
COOPER-JAL UNIT SOUTH INJECTION STATION
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-7	05/18/98	136.19	2	3182.20	166.15	151-166
3318.39	05/25/99	135.98	---	3182.41	---	---
	02/08/01	135.87	---	3182.52	---	---
	05/10/02	135.67	---	3182.72	---	---
	10/22/02	135.89	---	3182.50	---	---
	05/20/03	136.12	---	3182.27	---	---
	11/24/03	135.71	---	3182.68	---	---
	05/11/04	135.74	---	3182.65	---	---
	11/15/04	135.78	---	3182.61	---	---
	05/17/05	135.68	---	3182.71	---	---
	11/15/05	135.90	---	3182.49	---	---
	05/08/06	135.64	---	3182.75	---	---
	11/13/06	135.58	---	3182.81	---	---
MW-8	05/18/98	134.36	2	3182.78	171.92	155-170
3317.14	05/25/99	134.21	---	3182.93	---	---
	02/08/01	134.08	---	3183.06	---	---
	05/10/02	133.95	---	3183.19	---	---
	10/22/02	134.18	---	3182.96	---	---
	05/20/03	134.38	---	3182.76	---	---
	11/24/03	133.99	---	3183.15	---	---
	05/11/04	134.02	---	3183.12	---	---
	11/15/04	134.11	---	3183.03	---	---
	05/17/05	133.97	---	3183.17	---	---
	11/15/05	134.21	---	3182.93	---	---
	05/08/06	133.94	---	3183.20	---	---
	11/13/06	133.90	---	3183.24	---	---
MW-9	05/18/98	132.89	2	3179.90	161.40	149-164
3312.79	05/25/99	132.68	---	3180.11	---	---
	02/08/01	132.52	---	3180.27	---	---
	05/10/02	137.20	---	3175.59	---	---
	10/22/02	132.56	---	3180.23	---	---
	05/20/03	132.75	---	3180.04	---	---
	11/24/03	132.35	---	3180.44	---	---
	05/11/04	132.39	---	3180.40	---	---
	11/15/04	132.43	---	3180.36	---	---
	05/17/05	132.26	---	3180.53	---	---
	11/15/05	132.60	---	3180.19	---	---
	05/08/06	132.26	---	3180.53	---	---
	11/13/06	132.19	---	3180.60	---	---

TABLE I
GROUNDWATER GAUGING SUMMARY
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
COOPER-JAL UNIT SOUTH INJECTION STATION
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-10	05/18/98	137.18	2	3182.12	164.15	151-166
3319.30	05/25/99	137.04	---	3182.26	---	---
	02/08/01	136.88	---	3182.42	---	---
	05/10/02	136.80	---	3182.50	---	---
	10/22/02	136.91	---	3182.39	---	---
	05/20/03	137.13	---	3182.17	---	---
	11/24/03	136.71	---	3182.59	---	---
	05/11/04	136.77	---	3182.53	---	---
	11/15/04	136.82	---	3182.48	---	---
	05/17/05	136.34	---	3182.96	---	---
	11/15/05	136.95	---	3182.35	---	---
	05/08/06	136.65	---	3182.65	---	---
	11/13/06	136.59	---	3182.71	---	---
MW-12	05/10/02	139.57	2	3188.86	165.50	156.68-171.65
3328.43	10/22/02	139.73	---	3188.70	---	---
	05/20/03	139.72	---	3188.71	---	---
	11/24/03	139.69	---	3188.74	---	---
	05/11/04	139.64	---	3188.79	---	---
	11/15/04	139.68	---	3188.75	---	---
	05/17/05	139.58	---	3188.85	---	---
	11/15/05	139.83	---	3188.60	---	---
	05/08/06	139.55	---	3188.88	---	---
	11/13/06	139.53	---	3188.90	---	---
MW-13	05/10/02	144.45	2	3194.04	167.40	156.68-171.65
3338.49	10/22/02	144.49	---	3194.00	---	---
	05/20/03	144.9	---	3193.59	---	---
	11/24/03	144.37	---	3194.12	---	---
	05/11/04	144.47	---	3194.02	---	---
	11/15/04	144.56	---	3193.93	---	---
	05/17/05	144.36	---	3194.13	---	---
	11/15/05	144.60	---	3193.89	---	---
	05/08/06	144.29	---	3194.20	---	---
	11/13/06	144.38	---	3194.11	---	---

TABLE I
GROUNDWATER GAUGING SUMMARY
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
COOPER-JAL UNIT SOUTH INJECTION STATION
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)
Fully Penetrating Screened Wells						
MW-6	05/18/98	136.73	2	3184.42	169.25	120-170
3321.15	05/25/99	136.61	---	3184.54	---	---
	02/08/01	136.50	---	3184.65	---	---
	05/10/02	136.40	---	3184.75	---	---
	10/22/02	136.57	---	3184.58	---	---
	05/20/03	136.85	---	3184.30	---	---
	11/24/03	136.38	---	3184.77	---	---
	05/11/04	136.41	---	3184.74	---	---
	11/15/04	136.08	---	3185.07	---	---
	05/17/05	136.58	---	3184.57	---	---
	11/15/05	136.82	---	3184.33	---	---
	05/08/06	136.58	---	3184.57	---	---
	11/13/06	136.49	---	3184.66	---	---
MW-11	03/23/99	131.12	4	3178.57	165.71	125-165
3309.69	05/25/99	130.91	---	3178.78	---	---
	02/08/01	130.11	---	3179.58	---	---
	05/10/02	135.60	---	3174.09	---	---
	10/22/02	130.76	---	3178.93	---	---
	05/20/03	131.03	---	3178.66	---	---
	11/24/03	130.57	---	3179.12	---	---
	05/11/04	130.61	---	3179.08	---	---
	11/15/04	130.65	---	3179.04	---	---
	05/17/05	131.56	---	3178.13	---	---
	11/15/05	130.70	---	3178.99	---	---
	05/08/06	130.41	---	3179.28	---	---
	11/13/06	130.42	---	3179.27	---	---
RW-1	05/21/99	134.32	5	3184.18	171.25	130.41-174.37
3318.50	05/25/99	134.24	---	3184.26	---	---
	02/08/01	134.15	---	3184.35	---	---
	05/10/02	134.00	---	3184.50	---	---
	10/22/02	134.17	---	3184.33	---	---
	05/20/03	134.40	---	3184.10	---	---
	11/24/03	134.02	---	3184.48	---	---
	05/11/04	134.01	---	3184.49	---	---
	11/15/04	134.06	---	3184.44	---	---
	05/17/05	133.97	---	3184.53	---	---
	11/15/05	134.20	---	3184.30	---	---
	05/08/06	133.93	---	3184.57	---	---
	11/13/06	133.92	---	3184.58	---	---

TABLE I
GROUNDWATER GAUGING SUMMARY
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
COOPER-JAL UNIT SOUTH INJECTION STATION
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)
RW-2	02/08/01	135.58	5	3183.04	154.63	134.22-172.73
3318.62	05/10/02	135.55	---	3183.07	---	---
	10/22/02	135.55	---	3183.07	---	---
	05/20/03	135.58	---	3183.04	---	---
	11/24/03	135.54	---	3183.08	---	---
	05/11/04	135.48	---	3183.14	---	---
	11/15/04	135.43	---	3183.19	---	---
	05/17/05	135.46	---	3183.16	---	---
	11/15/05	135.65	---	3182.97	---	---
	05/08/06	135.42	---	3183.20	---	---
	11/13/06	135.47	---	3183.15	---	---

Notes:

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

TABLE II

GROUNDWATER ANALYTICAL SUMMARY

CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY

COOPER-JAL UNIT INJECTION STATION

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
Shallow Screened Wells													
MW-2A	2/26/98	--	--	190	280	--	--	330	144.0	36.0	5.70	215.0	1,200
	2/14/01	<1.0	162	162	44	1.30	2.30	76	64.4	16.7	7.02	45.5	390
	5/15/02	<1.0	176	176	36.6	<1.00	2.34	79.1	57.6	13.9	4.35	43.8	435
	10/23/02	--	--	--	44.3	--	--	97	--	--	--	--	425
	5/22/03	<1.0	168	168	40.5	<1.00	2.18	75.5	67.2	14.3	3.76	47.9	418
	11/25/03	<1.0	166	166	43.1	1.00	2.23	77.4	51.7	14.4	3.98	43.8	452
	5/12/04	<1.00	176	176	44.8	<1.00	2.24	76.5	62.9	15.0	3.66	43.6	440
	11/16/04	<1.00	164	164	52.5	1.22	2.78	75.4	68.8	15.3	3.98	49.1	428
	11/16/05	<10.0	151	151	56.8	0.60	2.3	75.1 D1	157.000	18.000	4.200	49.800	630 N
	11/14/06	<10	180	180	49	0.55	1.6	76	69.800	15.600	3.470	49.900	488
MW-4A	2/27/98	--	--	180	1,600	--	--	410	470.0	130.0	11.00	620.0	3,300
	2/14/01	<1.0	154	154	1,600	1.40	2.80	210	--	--	--	--	4,000
	5/15/02	<1.0	156	156	577	<1.00	2.23	121	200.0	49.5	10.30	125.0	1,610
	10/23/02	--	--	--	478	--	--	114	--	--	--	--	1,430
	5/22/03	<1.0	154	154	844	<1.00	2.43	160	279.0	58.9	10.10	248.0	2,200
	11/26/03	<1.0	158	158	1,060	<4.00	5.82	182	337.0	79.3	15.20	329.0	2,585
	5/11/04	<1.00	156	156	984	<2.00	3.30	179	297.0	66.5	11.50	279.0	2,300
	11/17/04	<1.00	164	164	1,110	<2.00	4.62	186	369.0	75.4	14.90	413.0	2,235
	11/16/05	<10.0	181	181	827 D1	<0.5	2.2	160 D1	335.000	64.400	9.230	382.000	2,340 N
	11/15/06	<10	620	620	960	<0.50	2.6	170	227.000	53.500	8.100	406.000	2,870
MW-5A	2/26/98	--	--	170	190	--	--	180	107.0	23.0	3.50	117.0	740
	2/15/01	<1.0	164	164	140	1.20	2.10	130	90.2	27.9	8.70	74.6	670
	5/15/02	<1.0	182	182	53.5	<1.00	2.23	84.4	63.2	16.1	4.69	43.6	475
	10/23/02	--	--	--	50	--	--	616	--	--	--	--	8,670
	5/22/03	<1.0	158	158	32.5	<1.00	2.10	69.9	55.5	13.8	3.41	41.5	416
	11/25/03	<1.0	332	332	34.1	1.05	2.20	75.5	60.9	14.6	4.08	45.0	422
	5/11/04	<1.00	164	164	38.8	<1.00	2.25	75.8	60.9	15.0	3.40	43.2	484
	11/17/04	<1.00	152	152	39.6	1.37	2.66	74.3	58.1	13.6	3.83	48.5	430
	11/16/05	<10.0	191	191	40.2	0.82	2.1	75.2 D1	176.000	17.800	4.220	45.300	570 N
	11/14/06	<10	240	240	47	0.64	1.5	79	90.400	16.100	3.580	51.400	588

TABLE II

GROUNDWATER ANALYTICAL SUMMARY

CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY

COOPER-JAL UNIT INJECTION STATION

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-9A	5/14/98	--	--	280	600	--	--	770	338.0	96.0	12.00	334.0	2,200
	2/15/01	<1.0	142	142	85	1.40	2.20	71	71.6	19.2	6.94	46.0	400
	5/15/02	<1.0	136	136	148	<1.00	2.18	65.3	62.9	16.1	4.62	46.8	445
	10/23/02	--	--	--	168	--	--	75.5	--	--	--	--	651
	5/22/03	<1.0	126	126	207	<1.00	2.09	62.1	102.0	25.2	4.80	55.7	672
	11/26/03	<1.0	118	118	216	1.14	2.26	62.7	107.0	25.1	5.31	53.2	648
	5/12/04	<1.00	122	122	242	<1.00	2.10	64.7	105.0	26.2	5.11	26.2	950
	11/16/04	<1.00	114	114	296	1.24	2.74	67.5	130.0	33.1	6.24	70.3	826
	5/17/05	<1.00	112	112	354	1.04	2.85	77.1	131.0	31.7	6.39	60.5	828
	11/17/05	<10.0	121	121	310 D1	0.82	0.31	74.7 D1	337.000	41.400	8.080	74.300	1,520 N
	5/9/06	<10	670	670	270	0.67	1.6	78	111.000	27.100	3.880	56.700	992
	11/15/06	<10	1,600	1,600	290	0.62	1.6	72	126.000	33.400	4.740	68.400	1,280
Deep Screened Wells													
MW-1	9/16/97	--	--	280	8,500	--	--	1,100	520.0	630.0	50.00	4,300.0	15,000
	2/25/98	--	--	280	5,600	--	--	570	285.0	520.0	116.00	2,900.0	9,300
	2/14/01	<1.0	306	306	11,000	4.40	7.70	1,000	374.0	780.0	236.00	5,236.0	20,000
	5/17/02	<1.0	208	208	237	5.83	3.28	86.9	45.7	20.1	11.90	184.0	784
	10/23/02	--	--	--	168	--	--	96.8	--	--	--	--	696
	5/21/03	<1.0	290	290	6,600	<8.00	10.90	875	238.0	475.0	96.50	3,410.0	13,200
	11/25/03	<1.0	250	250	402	7.03	2.72	125	19.2	22.0	18.50	294.0	1,158
	5/12/04	<1.00	264	264	504	7.31	2.70	136	17.2	23.1	22.40	355.0	1,328
	11/16/04	<1.00	232	232	384	4.94	3.30	103	29.2	22.7	25.40	373.0	952
	11/16/05	<10.0	262	262	1,210 D1	3.0	2.4	215 D1	85.400	92.600	23.000	847.000	2,640 N
	11/14/06	<10	200	200	96	4.2	2.0	76	13.200	6.490	15.600	172.000	624
MW-2	2/25/98	--	--	210	5,900	--	--	760	840.0	380.0	30.00	2,650.0	9,400
	4/9/98	--	--	290	8,200	--	--	990	1,100.0	490.0	29.00	3,430.0	15,000
	2/14/01	<1.0	184	184	7,400	2.30	4.10	870	1,025.0	488.0	48.50	5,189.0	15,000
	5/17/02	<1.0	160	160	3,200	1.72	3.18	483	587.0	239.0	35.60	1,160.0	6,040
	10/23/02	--	--	--	2,920	--	--	451	--	--	--	--	6,770
	5/22/03	<1.0	158	158	2,550	2.04	3.87	386	448.0	176.0	20.00	1,020.0	5,880
	11/25/03	<1.0	160	160	3,330	<4.00	5.63	446	555.0	227.0	32.00	1,120.0	6,760
	5/12/04	<1.00	146	146	1,750	<2.00	2.78	246	308.0	112.0	29.70	549.0	3,965
	11/16/04	<1.00	120	120	430	<1.00	2.13	56.9	104.0	29.4	22.40	158.0	832
	11/16/05	<10.0	171	171	4,720 D1	0.72	2.6	643 D1	594.000	269.000	20.800	3,290.000	10,000 N
	11/14/06	<10	160	160	3,500	0.78 N	2.1	470	535.000	212.000	21.000	1,5400.000	8,260

TABLE II
GROUNDWATER ANALYTICAL SUMMARY
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
COOPER-JAL UNIT INJECTION STATION
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-3	2/27/98	--	--	190	452	--	--	406	200.0	50.0	11.00	237.0	1,500
	2/14/01	<1.0	158	158	34	1.60	2.40	100	54.5	19.0	7.61	48.6	440
	5/17/02	<1.0	158	158	30.6	1.56	2.35	102	55.6	18.4	5.04	50.0	433
	10/23/02	--	--	--	35.4	--	--	104	--	--	--	--	419
	5/22/03	<1.0	156	156	30.6	1.17	2.25	96.3	53.2	17.8	5.39	54.6	435
	11/25/03	<1.0	160	160	31.4	1.35	2.30	103	46.5	18.0	5.19	51.7	440
	5/12/04	<1.00	164	164	32.3	1.20	2.38	101	52.2	16.8	4.77	47.5	448
	11/16/04	<1.00	166	166	35.1	1.53	2.77	95.4	56.3	23.6	12.70	58.9	424
	11/17/05	<10.0	171	171	96.3	0.97	2.2	108 D1	89.200	22.100	6.870	93.400	840 N
	11/15/06	<10	170	170	30	0.92 N	1.7	96	51.300	17.300	4.300	57.200	505
MW-4	2/27/98	--	--	230	12,000	--	--	1,500	1,700.0	880.0	48.00	5,300.0	22,000
	4/9/98	--	--	240	13,000	--	--	1,500	1,740.0	840.0	42.00	5,400.0	23,000
	2/14/01	<1.0	232	232	15,000	1.80	6.80	1,500	--	--	--	--	29,000
	5/17/02	<1.0	232	232	11,300	2.01	6.09	1,380	1,610.0	814.0	60.90	4,310.0	22,600
	10/23/02	--	--	--	11,300	--	--	1,320	--	--	--	--	23,200
	5/22/03	<1.0	220	220	11,300	<10.00	12.30	1,370	1,450.0	659.0	47.30	4,140.0	62,500
	11/26/03	<1.0	218	218	12,100	<8.00	12.30	1,400	1830.0	889.0	62.00	4,620.0	54,450
	5/11/04	<1.00	214	214	14,200	<8.00	8.97	1,560	1800.0	829.0	60.70	4,850.0	65,450
	11/17/04	<1.00	222	222	13,600	<20.00	31.50	1,410	2020.0	972.0	73.60	5,900.0	25,200
	11/17/05	<10.0	181	181	9,440 D1	0.82	0.20	45.8 D1	849.000	387.000	28.100	3,880.000	24,300 N
	11/15/06	<10	260	260	14,000	<5.0 C	5.2	1,400	1,760.000	897.000	58.800	6,150.000	28,700
MW-5	2/26/98	--	--	180	6,600	--	--	910	1,400.0	470.0	31.00	2,400.0	12,000
	2/14/01	<1.0	166	166	7,700	1.80	4.10	910	--	--	--	--	18,000
	5/17/02	<1.0	156	156	4,040	1.53	4.56	586	757.0	319.0	60.90	1,260.0	8,340
	10/23/02	--	--	--	3,900	--	--	94.8	--	--	--	--	422
	5/22/03	<1.0	158	158	3,170	<4.00	6.52	550	644.0	215.0	49.90	1,240.0	7,860
	11/25/03	<1.0	168	168	5,120	<4.00	6.77	739	978.0	365.0	54.90	1,680.0	11,940
	5/11/04	<1.00	160	160	6,760	<3.00	4.65	1,030	1,180.0	417.0	40.30	2,120.0	20,380
	11/17/04	<1.00	172	172	6,750	<10	16.60	786	1,210.0	456.0	40.60	2,300.0	11,980
	11/17/05	<10.0	161	161	2,140 D1	0.79	0.16	334 D1	339.000	126.000	10.800	791.000	7,120 N
	11/14/06	<10	160	160	2,000	0.60	1.5	300	437.000	173.000	14.200	918.000	4,420

TABLE II

GROUNDWATER ANALYTICAL SUMMARY

CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY

COOPER-JAL UNIT INJECTION STATION

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	5/14/98	--	--	230	430	--	--	340	214.0	66.0	13.00	165.0	1,200
	2/14/01	<1.0	150	150	510	1.70	2.40	150	--	--	--	--	1,500
	5/16/02	<1.0	150	150	75.7	1.59	2.27	97.4	68.6	23.2	6.63	54.5	501
	10/22/02	--	--	--	88.6	--	--	109	--	--	--	--	490
	5/22/03	<1.0	140	140	175	1.17	2.14	88.9	85.5	28.2	6.18	64.6	631
	11/26/03	<1.0	136	136	189	1.29	2.23	93.5	95.7	31.0	7.91	63.6	704
	5/13/04	<1.00	130	130	267	1.11	2.18	94.7	107.0	34.7	6.59	62.9	914
	11/16/04	<1.00	130	130	367	1.49	2.72	97.3	142.0	49.5	8.61	87.9	870
	11/17/05	<10.0	123	123	456 D1	0.53	0.28	106 D1	412.000	64.700	12.100	100.000	1,440 N
	11/15/06	<10	240	240	350	0.63	1.5	110	202.000	70.300	7.400	102.000	2,100
MW-8	5/13/98	--	--	200	270	--	--	390	190.0	60.0	12.00	170.0	1,200
	2/14/01	<1.0	156	156	49	1.80	2.50	100	59.9	21.5	7.84	52.9	400
	5/16/02	<1.0	158	158	32.9	1.57	2.33	101	56.6	19.2	5.20	49.5	432
	10/22/02	--	--	--	40.8	--	--	104	--	--	--	--	392
	5/22/03	8	160	168	33.2	1.40	2.32	98.3	53.9	18.3	9.31	46.4	410
	11/26/03	<1.0	142	142	31.7	1.59	2.38	95.6	55.3	18.2	5.31	50.2	443
	5/12/04	<1.00	154	154	36.3	1.39	2.38	101	53.0	17.3	4.56	48.1	435
	11/16/04	<1.00	170	170	39.8	1.94	2.94	103	57.8	18.6	5.63	56.4	435
	5/17/05	4	152	156	41	1.64	2.94	105	61.0	18.6	5.78	47.3	434
	11/17/05	<10.0	171	171	113	1.1	<0.05	115 D1	83.400	21.700	5.740	102.000	750 N
	5/9/06	<10	160	160	210	0.89	1.4	200	72.700	33.300	7.120	125.000	896
	11/14/06	<10	150	150	230	1.1	1.2	200	74.200	38.300	9.610	162.000	912
MW-9	5/14/98	--	--	190	350	--	--	470	207.0	61.0	12.00	200.0	1,300
	2/15/01	<1.0	156	156	35	2.60	2.40	110	60.4	19.8	7.47	47.0	430
	5/16/02	<1.0	160	160	31.7	2.22	2.28	99.4	60.8	17.6	5.32	50.1	440
	10/23/02	--	--	--	39	--	--	102	--	--	--	--	456
	5/22/03	<1.0	160	160	31	1.75	2.19	93.5	52.2	15.8	4.75	50.2	455
	11/26/03	<1.0	150	150	31.8	1.99	2.34	99.8	57.7	16.6	4.69	46.3	452
	5/12/04	<1.00	164	164	33.6	1.79	2.29	99.2	54.8	16.0	4.27	43.5	467
	11/16/04	8	154	162	367	1.49	2.72	97.3	63.2	17.8	5.59	55.5	433
	5/17/05	4	154	154	44.2	2.43	3.05	117	58.8	16.7	5.94	44.1	434
	11/17/05	<10.0	161	161	83.3	1.3	0.14	111 D1	149.000	26.200	7.430	80.400	790 N
	5/9/06	<10	170	170	37	1.8	1.8	99	52.700	15.000	3.210	45.500	428
	11/15/06	<10	150	150	210	1.1	1.2	190	70.500	35.800	8.640	152.000	905

TABLE II
GROUNDWATER ANALYTICAL SUMMARY
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
COOPER-JAL UNIT INJECTION STATION
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-10	5/14/98	--	--	240	360	--	--	450	211.0	62.0	11.00	190.0	1,400
	2/15/01	<1.0	140	140	190	2.00	2.30	97	108.0	32.3	8.20	61.0	660
	5/17/02	<1.0	152	152	204	1.93	2.19	99.1	109.0	31.7	7.60	62.4	713
	10/22/02	--	--	--	213	--	--	108	--	--	--	--	758
	5/22/03	<1.0	152	152	213	1.45	2.17	96.6	109.0	29.9	8.65	74.2	764
	11/26/03	<1.0	152	152	220	1.54	2.26	103	120.0	35.7	6.96	64.0	752
	5/13/04	<1.00	158	158	232	1.39	2.23	102	114.0	31.6	5.95	57.2	802
	11/17/04	<1.00	170	170	245	1.73	2.78	104	121.0	35.7	7.07	70.3	764
	5/17/05	<1.00	150	150	233	1.77	2.80	106	113.0	32.3	6.83	60.2	776
	11/17/05	<10.0	151	151	205 D1	1.2	0.26	111 D1	482.000	47.400	13.100	82.400	970 N
	5/9/06	<10	190	190	180	1.4	1.6	98	93.300	27.100	4.310	60.400	724
	11/16/06	<10	320	320	190	1.2	1.6	92	101.000	30.000	4.750	64.100	900
MW-12	5/15/02	<1.0	160	160	58.3	1.09	2.44	91.3	53.5	15.9	5.52	50.3	462
	10/23/02	--	--	--	65	--	--	102	--	--	--	--	477
	5/22/03	<1.0	148	148	91.1	1.04	2.30	87.7	74.2	21.0	4.89	57.6	516
	11/25/03	<1.0	142	142	93.1	1.18	2.36	90.9	74.7	20.9	5.41	52.5	548
	5/12/04	<1.00	458	458	72.9	1.04	2.35	86.7	58.1	19.0	5.92	51.8	489
	11/15/04	<1.00	184	184	79.8	1.39	2.83	88.8	59.7	21.5	16.50	77.4	512
	11/17/05	<10.0	151	151	109	0.93	0.12	94.6 D1	193.000	26.600	13.400	87.500	700 N
	11/16/06	<10	270	270	120	0.71	1.7	84	82.300	27.000	4.820	62.200	620
MW-13	5/13/02	<1.0	100	100	517	<1.00	1.61	437	116.0	76.0	19.40	269.0	1,596
	10/23/02	--	--	--	549	--	--	370	--	--	--	--	1,740
	5/22/03	<1.0	186	186	944	<2.00	2.33	361	289.0	101.0	15.30	458.0	3,060
	11/25/03	<1.0	226	226	1,460	<2.00	2.22	372	369.0	117.0	20.00	478.0	3,445
	5/12/04	<1.00	234	234	1,550	<4.00	4.58	369	384.0	114.0	18.60	485.0	4,240
	11/15/04	<1.00	226	226	1,870	<2.00	4.92	384	510.0	164.0	16.50	627.0	3,600
	11/17/05	<10.0	201	201	722 D1	1.0	2.5	206 D1	786.000	91.600	19.700	276.000	2,350 N
	11/16/06	<10	1,500	1,500	2,000	<0.50 N	2.7	500 N	529.000	176.000	14.200	493.000	5,060

TABLE II

GROUNDWATER ANALYTICAL SUMMARY

CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY

COOPER-JAL UNIT INJECTION STATION

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
Fully Penetrating Screened Wells													
MW-6	2/26/98	--	--	200	260	--	--	400	180.0	44.0	6.20	205.0	1,200
	2/14/01	<1.0	158	158	59	1.70	2.20	99	67.5	22.1	7.67	52.3	470
	5/17/02	<1.0	162	162	57.6	1.62	2.14	99.3	63.1	19.6	5.12	48.6	427
	10/23/02	--	--	--	46.1	--	--	109	--	--	--	--	331
	5/22/03	<1.0	162	162	40.3	1.24	2.13	94.4	61.7	17.4	4.23	51.9	464
	11/25/03	<1.0	154	154	53.6	1.40	2.18	98	53.6	18.7	4.97	51.7	482
	5/11/04	<1.00	156	156	54.4	1.23	2.19	97	59.0	18.1	4.22	47.8	506
	11/16/04	<1.00	162	162	57.9	1.64	2.68	99.8	66.6	19.6	5.16	57.0	464
	11/17/05	<10.0	201	201	101	0.97	0.35	97.6 D1	103.000	20.200	4.100	59.100	730 N
	11/15/06	<10	750	750	68	0.99	1.5	93	64.600	20.400	4.250	57.100	507
MW-11	1/22/99	30	<1.0	30	46	2.30	4.20	94	33.0	7.0	9.10	58.0	370
	2/15/01	<1.0	156	156	37	2.40	2.40	120	64.0	19.1	7.83	50.1	360
	5/16/02	<1.0	160	160	31.9	2.13	2.33	98.8	63.5	17.2	4.83	47.0	444
	10/23/02	--	--	--	37.2	--	--	102	--	--	--	--	447
	5/22/03	12	154	166	32.3	1.74	2.28	96.7	62.3	0.0	4.63	47.6	437
	11/26/03	<1.0	160	160	32.4	1.83	2.23	96.4	59.2	16.6	4.67	48.6	448
	5/12/04	<1.00	164	164	34.6	1.71	2.38	97.7	54.8	15.7	4.28	46.2	457
	11/16/04	<1.00	160	160	39	2.17	2.81	100	65.2	16.8	5.14	54.3	454
	5/17/05	4	158	162	43.1	1.87	2.82	94.6	68.4	16.9	6.45	44.0	429
	11/17/05	<10.0	161	161	58.1	1.5	2.1	91.3 D1	75.000	17.700	4.550	64.700	700 N
	5/9/06	<10	180	180	37	1.8	1.7	100	54.100	16.200	3.260	46.900	456
	11/14/06	<10	170	170	34	1.8	1.8	110	58.000	18.200	4.150	53.400	532
RW-1	5/27/99	0	224	224	8,700	2.70	7.00	540	679.0	321.0	34.00	3,290	14,000
	5/22/03	<1.0	190	190	2,410	2.46	4.25	345	162.0	145.0	25.40	1,180.0	5,260
	11/26/03	<1.0	184	184	1,990	<4.00	20.00	324	199.0	147.0	38.60	1,080.0	5,050
	5/11/04	<1.00	148	148	491	1.32	2.65	109	66.5	25.4	11.20	252.0	1,224
	11/17/04	<1.00	160	160	633	1.65	3.23	121	89.7	43.5	18.00	382.0	1,314
	11/17/05	<10.0	221	221	895 D1	1.0	1.4	166 D1	122.000	70.900	6.400	495.000	2,380 N
	11/16/06	<10	380	380	11.000	<0.50	<20 HC	1,100	559.000	694.000	43.500	5.580.000	22.000

TABLE II

GROUNDWATER ANALYTICAL SUMMARY

CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY

COOPER-JAL UNIT INJECTION STATION

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
RW-2	5/22/03	324	<4.00	780	1,580	<2.00	2.43	23.9	1,060.0	<0.500	20.20	258.0	4,310
	11/26/03	64	<4.00	704	1,480	<5.00	5.81	38.3	988.0	<0.500	23.80	240.0	3,535
	5/13/04	36.0	<4.00	576	1,770	<3.00	3.19	67	898.0	<0.500	21.60	260.0	4,175
	11/17/04	104.0	<4.00	692	2,280	<10.0	<10.0	116	1180.0	<0.500	18.50	415.0	3,915
	11/17/05	281	<10.0	422	1,770 D1	0.89	0.60	175 D1	861.000	16.600	13.100	361.000	7,350 N
	11/16/06	49	150	199	2,500	0.57	1.9	370	978.000	48.800	18.000	437.000	5,270

Notes:

1. Shaded cells indicate New Mexico Water Quality Control Commission (NMWQCC) exceedance.
2. Results shown in mg/L.
3. N - See narrative in laboratory report for a detailed explanation.
4. D1 - The analysis was performed at a dilution due to the high analyte concentration.
5. H - The analysis was performed past holding time.
6. C - Elevated detection limit due to matrix effect.

APPENDIX A

CERTIFIED LABORATORY REPORTS

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

May 18, 2006

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

RE: Project: 2059553
RE: Project ID: CEMC-COOPER-JAL

Dear Luke Markham:

Enclosed are the analytical results for sample(s) received by the laboratory on May 10, 2006. 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: 2059553

Pace Analytical
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

Project: CEMC-COOPER-JAL

Project No.: 2059553

Sample ID	Lab ID	Matrix	Collection Date/Time		Received Date/Time	
MW-8	20446587	Water	05/09/2006	12:10	05/10/2006	10:50
MW-9	20446588	Water	05/09/2006	11:17	05/10/2006	10:50
MW-9A	20446589	Water	05/09/2006	11:38	05/10/2006	10:50
MW-10	20446590	Water	05/09/2006	12:45	05/10/2006	10:50
MW-11	20446591	Water	05/09/2006	10:50	05/10/2006	10:50
DUP	20446592	Water	05/09/2006		05/10/2006	10:50

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: MW-8 **Client:** CRA

Project: CEMC-COOPER-JAL **Site:** None

Lab ID: 20446587 **Project No.:** 2059553

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

Collected: 05/09/06 **Received:** 05/10/06

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Calcium, Dissolved	EPA 6010	72435	1	72700		ug/L	500.	10-May-06	17-May-06 09:52	KJR (1)	
Magnesium, Dissolved	EPA 6010	72435	1	33300		ug/L	500.	10-May-06	17-May-06 09:52	KJR (1)	
Potassium, Dissolved	EPA 6010	72435	1	7120		ug/L	500.	10-May-06	17-May-06 09:52	KJR (1)	
Sodium, Dissolved	EPA 6010	72435	1	125000		ug/L	500.	10-May-06	17-May-06 09:52	KJR (1)	

4 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting 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.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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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: MW-9 **Client:** CRA

Project: CEMC-COOPER-JAL **Site:** None

Lab ID: 20446588 **Project No.:** 2059553

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

Collected: 05/09/06 **Received:** 05/10/06

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Calcium, Dissolved	EPA 6010	72435	1	52700		ug/L	500.	10-May-06	17-May-06	10:08 KJR (1)	
Magnesium, Dissolved	EPA 6010	72435	1	15000		ug/L	500.	10-May-06	17-May-06	10:08 KJR (1)	
Potassium, Dissolved	EPA 6010	72435	1	3210		ug/L	500.	10-May-06	17-May-06	10:08 KJR (1)	
Sodium, Dissolved	EPA 6010	72435	1	45500		ug/L	500.	10-May-06	17-May-06	10:08 KJR (1)	

4 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting 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.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Phone: 504.469.0333
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LELAP # 02006

Client ID: MW-9A
Project: CEMC-COOPER-JAL
Lab ID: 20446589
Description: None

Client: CRA
Site: None
Project No.: 2059553
Matrix: Water **%Moisture:** n/a
Collected: 05/09/06 **Received:** 05/10/06

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Calcium, Dissolved	EPA 6010	72435	1	111000		ug/L	500.	10-May-06	17-May-06 10:12	KJR (1)	
Magnesium, Dissolved	EPA 6010	72435	1	27100		ug/L	500.	10-May-06	17-May-06 10:12	KJR (1)	
Potassium, Dissolved	EPA 6010	72435	1	3880		ug/L	500.	10-May-06	17-May-06 10:12	KJR (1)	
Sodium, Dissolved	EPA 6010	72435	1	58700		ug/L	500.	10-May-06	17-May-06 10:12	KJR (1)	

4 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
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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.
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(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Phone: 504.469.0333
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LELAP # 02006

Client ID: MW-10 **Client:** CRA

Project: CEMC-COOPER-JAL **Site:** None

Lab ID: 20446590 **Project No.:** 2059553

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

Collected: 05/09/06 **Received:** 05/10/06

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Calcium, Dissolved	EPA 6010	72435	1	93300		ug/L	500.	10-May-06	17-May-06	10:18 KJR (1)	
Magnesium, Dissolved	EPA 6010	72435	1	27100		ug/L	500.	10-May-06	17-May-06	10:18 KJR (1)	
Potassium, Dissolved	EPA 6010	72435	1	4310		ug/L	500.	10-May-06	17-May-06	10:18 KJR (1)	
Sodium, Dissolved	EPA 6010	72435	1	60400		ug/L	500.	10-May-06	17-May-06	10:18 KJR (1)	

4 parameter(s) reported

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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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St. Rose , LA 70087

Phone: 504.469.0333
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LELAP # 02006

Client ID: MW-11 **Client:** CRA

Project: CEMC-COOPER-JAL **Site:** None

Lab ID: 20446591 **Project No.:** 2059553

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

Collected: 05/09/06 **Received:** 05/10/06

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Calcium, Dissolved	EPA 6010	72435	1	54100		ug/L	500.	10-May-06	17-May-06	10:22 KJR (1)	
Magnesium, Dissolved	EPA 6010	72435	1	16200		ug/L	500.	10-May-06	17-May-06	10:22 KJR (1)	
Potassium, Dissolved	EPA 6010	72435	1	3260		ug/L	500.	10-May-06	17-May-06	10:22 KJR (1)	
Sodium, Dissolved	EPA 6010	72435	1	46900		ug/L	500.	10-May-06	17-May-06	10:22 KJR (1)	

4 parameter(s) reported

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client ID: DUP
Client: CRA
Project: CEMC-COOPER-JAL
Site: None
Lab ID: 20446592
Project No.: 2059553
Description: None
Matrix: Water
%Moisture: n/a
Collected: 05/09/06
Received: 05/10/06

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Calcium, Dissolved	EPA 6010	72435	1	68000		ug/L	500.	10-May-06	17-May-06	10:34 KJR (1)	
Magnesium, Dissolved	EPA 6010	72435	1	28700		ug/L	500.	10-May-06	17-May-06	10:34 KJR (1)	
Potassium, Dissolved	EPA 6010	72435	1	6020		ug/L	500.	10-May-06	17-May-06	10:34 KJR (1)	
Sodium, Dissolved	EPA 6010	72435	1	102000		ug/L	500.	10-May-06	17-May-06	10:34 KJR (1)	

4 parameter(s) reported

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Phone: 504.469.0333
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LELAP # 02006

Client ID: MW-8
Project: CEMC-COOPER-JAL
Lab ID: 20446587
Description: None

Client: CRA
Site: None
Project No.: 2059553
Matrix: Water
%Moisture: n/a
Collected: 05/09/06
Received: 05/10/06

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Reg. Limit
Total Dissolved Solids	SM 2540C	72488	1	896.		mg/L	10.0	12-May-06	12-May-06 09:30 SMS2 (1)	

1 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting 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.
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LELAP # 02006

Pace Analytical® New Orleans Laboratory

Client ID: MW-9 **Client:** CRA

Project: CEMC-COOPER-JAL **Site:** None

Lab ID: 20446588 **Project No.:** 2059553

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

Collected: 05/09/06 **Received:** 05/10/06

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Reg. Limit
Total Dissolved Solids	SM 2540C	72488	1	428.		mg/L	10.0	12-May-06	12-May-06 09:30 SMS2 (1)	

1 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
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Reporting 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.
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Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client ID: MW-9A
Client: CRA
Project: CEMC-COOPER-JAL
Site: None
Lab ID: 20446589
Project No.: 2059553
Description: None
Matrix: Water
%Moisture: n/a
Collected: 05/09/06
Received: 05/10/06

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Reg. Limit
Total Dissolved Solids	SM 2540C	72488	1	992.		mg/L	10.0	12-May-06	12-May-06 09:30 SMS2 (1)	

1 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting 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.
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(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: MW-10 **Client:** CRA
Project: CEMC-COOPER-JAL **Site:** None
Lab ID: 20446590 **Project No.:** 2059553
Description: None **Matrix:** Water **%Moisture:** n/a
Collected: 05/09/06 **Received:** 05/10/06

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Reg. Limit
Total Dissolved Solids	SM 2540C	72488	1	724.		mg/L	10.0	12-May-06	12-May-06 09:30 SMS2 (1)	

1 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting 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.
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Client ID: MW-11 **Client:** CRA

Project: CEMC-COOPER-JAL **Site:** None

Lab ID: 20446591 **Project No.:** 2059553

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

Collected: 05/09/06 **Received:** 05/10/06

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Reg. Limit
Total Dissolved Solids	SM 2540C	72488	1	456.		mg/L	10.0	12-May-06	12-May-06 09:30 SMS2 (1)	

1 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
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Phone: 504.469.0333
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LELAP # 02006

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New Orleans Laboratory

Client ID: DUP
Client: CRA
Project: CEMC-COOPER-JAL
Site: None
Lab ID: 20446592
Project No.: 2059553
Description: None
Matrix: Water
%Moisture: n/a
Collected: 05/09/06
Received: 05/10/06

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Reg. Limit
Total Dissolved Solids	SM 2540C	72488	1	652.		mg/L	10.0	12-May-06	12-May-06 09:30 SMS2 (1)	

1 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
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Report of Quality Control

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Phone: 504.469.0333
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LELAP # 02006

Project No.: 2059553

Parameter	Batch	Blank	ARL	Units	LCS Spike	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	MS %Rec	MSD %Rec	(1)MS DUP RPD	QC Limits LCS	QC Limits MS/MSD	RPD Max	Qu
Calcium, Diss	72435	ND	500.	ug/L	10000	97			10000	59 *	49 *	1	73 - 115	75 - 125	20	Q3
Magnesium, D	72435	ND	500.	ug/L	10000	97			10000	78	80	0	73 - 116	75 - 125	20	
Potassium, Dis	72435	ND	500.	ug/L	10000	96			10000	93	91	2	73 - 114	75 - 125	20	
Sodium, Disso	72435	ND	500.	ug/L	10000	97			10000	31 *	21 *	1	64 - 122	75 - 125	20	Q3

5/18/2006 12:20:30

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

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Phone: 504.469.0333
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LELAP # 02006

Wet Chemistry Quality Control Results

Project No.: 2059553

Parameter	Batch	Blank	ARL	Units	LCS Spike	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	MS %Rec	MSD %Rec	(1)MS RPD	DUP RPD	QC Limits LCS	QC Limits MS/MSD	RPD Max	Qu
Total Dissolve	72488	ND	10.0	mg/L	100	102							2	80 - 120	-	20	

5/18/2006 12:20:31

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

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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 No.: 2059553

QC Qualifiers

Qualifier	Qualifier Description
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.

Pace Analytical®

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

Analytical Report Number: 871771

Client: PACE ANALYTICAL SERVICES, INC.

Lab Contact: Brian Basten

Project Name: CEMC - COOPER - JAL

Project Number: 039123

Lab Sample Number	Field ID	Matrix	Collection Date
871771-001	MW-8	WATER	05/09/06 12:10
871771-002	MW-9	WATER	05/09/06 11:17
871771-003	MW-9A	WATER	05/09/06 11:38
871771-004	MW-10	WATER	05/09/06 12:45
871771-005	MW-11	WATER	05/09/06 10:50
871771-006	DUP	WATER	05/09/06

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.

Approval Signature

5-19-06

Date

Pace Analytical Services, Inc.

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

Analytical Report Number: 871771

Client : PACE ANALYTICAL SERVICES, INC.
Project Name : CEMC - COOPER - JAL
Project Number : 039123
Field ID : MW-8

Matrix Type : WATER
Collection Date : 05/09/06
Report Date : 05/19/06
Lab Sample Number : 871771-001

INORGANICS

Test		Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
Hydroxide Alkalinity	<	10	10	1	mg/L		05/15/06	SM 2320B	SM 2320B
Bicarbonate Alkalinity		160	10	1	mg/L		05/15/06	SM 2320B	SM 2320B
Carbonate Alkalinity	<	10	10	1	mg/L		05/15/06	SM 2320B	SM 2320B
Chloride		210	25	5	mg/L		05/10/06	EPA 300.0	EPA 300.0
Fluoride		0.89	0.50	1	mg/L		05/10/06	EPA 300.0	EPA 300.0
Nitrogen, Nitrate		1.4	0.40	1	mg/L		05/10/06	EPA 300.0	EPA 300.0
Sulfate		200	20	5	mg/L		05/10/06	EPA 300.0	EPA 300.0

Pace Analytical Services, Inc.

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Analytical Report Number: 871771

Client : PACE ANALYTICAL SERVICES, INC.
Project Name : CEMC - COOPER - JAL
Project Number : 039123
Field ID : MW-9

Matrix Type : WATER
Collection Date : 05/09/06
Report Date : 05/19/06
Lab Sample Number : 871771-002

INORGANICS

Test		Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
Hydroxide Alkalinity	<	10	10	1	mg/L		05/15/06	SM 2320B	SM 2320B
Bicarbonate Alkalinity		170	10	1	mg/L		05/15/06	SM 2320B	SM 2320B
Carbonate Alkalinity	<	10	10	1	mg/L		05/15/06	SM 2320B	SM 2320B
Chloride		37	5.0	1	mg/L		05/10/06	EPA 300.0	EPA 300.0
Fluoride		1.8	0.50	1	mg/L		05/10/06	EPA 300.0	EPA 300.0
Nitrogen, Nitrate		1.8	0.40	1	mg/L		05/10/06	EPA 300.0	EPA 300.0
Sulfate		99	20	5	mg/L		05/10/06	EPA 300.0	EPA 300.0

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

Analytical Report Number: 871771

Client : PACE ANALYTICAL SERVICES, INC.
Project Name : CEMC - COOPER - JAL
Project Number : 039123
Field ID : MW-9A

Matrix Type : WATER
Collection Date : 05/09/06
Report Date : 05/19/06
Lab Sample Number : 871771-003

INORGANICS

Test		Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
Hydroxide Alkalinity	<	10	10	1	mg/L		05/15/06	SM 2320B	SM 2320B
Bicarbonate Alkalinity		670	10	1	mg/L		05/15/06	SM 2320B	SM 2320B
Carbonate Alkalinity	<	10	10	1	mg/L		05/15/06	SM 2320B	SM 2320B
Chloride		270	25	5	mg/L		05/10/06	EPA 300.0	EPA 300.0
Fluoride		0.67	0.50	1	mg/L		05/10/06	EPA 300.0	EPA 300.0
Nitrogen, Nitrate		1.6	0.40	1	mg/L		05/10/06	EPA 300.0	EPA 300.0
Sulfate		78	4.0	1	mg/L		05/10/06	EPA 300.0	EPA 300.0

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Analytical Report Number: 871771

Client : PACE ANALYTICAL SERVICES, INC.
Project Name : CEMC - COOPER - JAL
Project Number : 039123
Field ID : MW-10

Matrix Type : WATER
Collection Date : 05/09/06
Report Date : 05/19/06
Lab Sample Number : 871771-004

INORGANICS

Test		Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
Hydroxide Alkalinity	<	10	10	1	mg/L		05/15/06	SM 2320B	SM 2320B
Bicarbonate Alkalinity		190	10	1	mg/L		05/15/06	SM 2320B	SM 2320B
Carbonate Alkalinity	<	10	10	1	mg/L		05/15/06	SM 2320B	SM 2320B
Chloride		180	25	5	mg/L		05/11/06	EPA 300.0	EPA 300.0
Fluoride		1.4	0.50	1	mg/L		05/11/06	EPA 300.0	EPA 300.0
Nitrogen, Nitrate		1.6	0.40	1	mg/L		05/11/06	EPA 300.0	EPA 300.0
Sulfate		98	20	5	mg/L		05/11/06	EPA 300.0	EPA 300.0

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Analytical Report Number: 871771

Client : PACE ANALYTICAL SERVICES, INC.
Project Name : CEMC - COOPER - JAL
Project Number : 039123
Field ID : MW-11

Matrix Type : WATER
Collection Date : 05/09/06
Report Date : 05/19/06
Lab Sample Number : 871771-005

INORGANICS

Test		Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
Hydroxide Alkalinity	<	10	10	1	mg/L		05/15/06	SM 2320B	SM 2320B
Bicarbonate Alkalinity		180	10	1	mg/L		05/15/06	SM 2320B	SM 2320B
Carbonate Alkalinity	<	10	10	1	mg/L		05/15/06	SM 2320B	SM 2320B
Chloride		37	5.0	1	mg/L		05/10/06	EPA 300.0	EPA 300.0
Fluoride		1.8	0.50	1	mg/L		05/10/06	EPA 300.0	EPA 300.0
Nitrogen, Nitrate		1.7	0.40	1	mg/L		05/10/06	EPA 300.0	EPA 300.0
Sulfate		100	20	5	mg/L		05/10/06	EPA 300.0	EPA 300.0

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920-469-2436

Analytical Report Number: 871771

Client : PACE ANALYTICAL SERVICES, INC.
Project Name : CEMC - COOPER - JAL
Project Number : 039123
Field ID : DUP

Matrix Type : WATER
Collection Date : 05/09/06
Report Date : 05/19/06
Lab Sample Number : 871771-006

INORGANICS

Test		Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
Hydroxide Alkalinity	<	10	10	1	mg/L		05/15/06	SM 2320B	SM 2320B
Bicarbonate Alkalinity		160	10	1	mg/L		05/15/06	SM 2320B	SM 2320B
Carbonate Alkalinity	<	10	10	1	mg/L		05/15/06	SM 2320B	SM 2320B
Chloride		150	25	5	mg/L		05/10/06	EPA 300.0	EPA 300.0
Fluoride		1.1	0.50	1	mg/L	N	05/10/06	EPA 300.0	EPA 300.0
Nitrogen, Nitrate		1.5	0.40	1	mg/L		05/10/06	EPA 300.0	EPA 300.0
Sulfate		170	20	5	mg/L		05/10/06	EPA 300.0	EPA 300.0

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	Inorganic	Sample received unpreserved. Sample was either preserved at the time of receipt or at the time of sample preparation.
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.

Pace Analytical Services, Inc.

Analysis Summary by Laboratory

1241 Bellevue Street
Green Bay, WI 54302

Test Group Name	871771-001	871771-002	871771-003	871771-004	871771-005	871771-006
ALKALINITY AS CACO3	B	B	B	B	B	B
ALKALINITY, BICARB/CARB	B	B	B	B	B	B
CHLORIDE	B	B	B	B	B	B
FLUORIDE	B	B	B	B	B	B
NITROGEN, NITRATE	B	B	B	B	B	B
SULFATE	B	B	B	B	B	B

Code	Facility	Address	TX Certification
B	Green Bay Lab (Bellevue St)	1241 Bellevue Street, Suite 9 Green Bay, WI 54302	Not Certified

Sample Condition Upon Receipt

Pace Analytical

Client Name: CRA Project # 871771

Courier: [X] Fed Ex [ ] UPS [ ] USPS [ ] Client [ ] Commercial [ ] Pace Other ____

Custody Seal on Cooler/Box Present: [ ] yes [X] no Seals intact: [ ] yes [ ] no

Optional: Proj. Due Date: Proj. Name:

Packing Material: [ ] Bubble Wrap [ ] Bubble Bags [X] None [ ] Other ____

Thermometer Used JB Type of Ice: (Wet) Blue None [X] Samples on ice, cooling process has begun

Cooler Temperature 0°C Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: CS 5/10/06

Temp should be above freezing to 6°C

		Comments:
Chain of Custody Present:	[X] Yes [ ] No [ ] N/A	1.
Chain of Custody Filled Out:	[X] Yes [ ] No [ ] N/A	2.
Chain of Custody Relinquished:	[X] Yes [ ] No [ ] N/A	3.
Sampler Name & Signature on COC:	[ ] Yes [X] No [ ] N/A	4.
Samples Arrived within Hold Time:	[X] Yes [ ] No [ ] N/A	5.
Short Hold Time Analysis (<72hr):	[X] Yes [ ] No [ ] N/A	6. NO_3 emailed ✓
Rush Turn Around Time Requested:	[ ] Yes [X] No [ ] N/A	7.
Sufficient Volume:	[ ] Yes [X] No [ ] N/A	8. Sample for MW-10 to be shipped to GB 5-11-06 per CO 5-9-06
Correct Containers Used:	[X] Yes [ ] No [ ] N/A	9.
-Pace Containers Used:	[X] Yes [ ] No [ ] N/A	
Containers Intact:	[X] Yes [ ] No [ ] N/A	10.
Filtered volume received for Dissolved tests	[ ] Yes [ ] No [X] N/A	11.
Sample Labels match COC:	[X] Yes [ ] No [ ] N/A	12.
-Includes date/time/ID/Analysis Matrix: W		
All containers needing preservation have been checked.	[ ] Yes [ ] No [X] N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	[ ] Yes [ ] No [X] N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	[ ] Yes [ ] No	Initial when completed
Samples checked for dechlorination:	[ ] Yes [X] No [ ] N/A	14.
Headspace in VOA Vials (>6mm):	[ ] Yes [ ] No [X] N/A	15.
Trip Blank Present:	[ ] Yes [X] No [ ] N/A	16.
Trip Blank Custody Seals Present	[ ] Yes [ ] No [X] 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:** 5-10-06

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)

CHAIN-OF-CUSTODY / Analytical Request Document

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

Pace Analytical™
www.pacelabs.com

Page: 1 of 1

673873

To Be Completed by Pace Analytical and Client

Required Client Information: Section A

Company: CRA
Address: 2135 S. Loop 250 West
Midland, TX 79703
Phone: 432-686-0086 Fax: 432-686-0186

Required Client Information: Section B

Report To: Luke Markham
Copy To:
Invoice To: Luke Markham
P.O.
Project Name: CEMC - Cooper-Jal
Project Number: 039123

Client Information (Check quote/contract):
Requested Due Date: *TAT: Standard

* Turn around times less than 14 days subject to laboratory and contractual obligations and may result in a Rush Turnaround Surcharge.
Turn Around Time (TAT) in calendar days.

Section C

Quote Reference:
Project Manager:
Project #:
Profile #:

Requested Analysis:

Section D Required Client Information:

SAMPLE ID
One character per box.
(A–Z, 0–9 / .–)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
WATER	WT
SOIL	SL
OIL	OL
WIPE	WP
AIR	AR
TISSUE	TS
OTHER	OT

ITEM #	SAMPLE ID	MATRIX CODE	DATE COLLECTED (mm / dd / yy)	TIME COLLECTED (hh:mm a/p)	# Containers 500ml	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other ICE	(SM 2320B) Alkalinity	(Cond. 120.1) Fluoride	Sulfate	Nitrate-N	Chloride (E300.0)	87177 Remarks / Lab ID
1	MW-8 001	WT	050906	1210	1	X							X	X	X	X	X	X	1-500mL Poly
2	MW-9 002	WT	050906	1117	1	X							X	X	X	X	X	X	
3	MW-9A 003	WT	050906	1138	1	X							X	X	X	X	X	X	2-500mL Poly
4	MW-10 004	WT	050906	1245	1	X							X	X	X	X	X	X	-will rec. 5/14/06
5	MW-11 005	WT	050906	1050	1	X							X	X	X	X	X	X	
6	DUP 006	WT	050906	←	1	X							X	X	X	X	X	X	
7	TEMP BLANK	WT																	
8																			
9																			
10																			
11																			
12																			

SHIPMENT METHOD	AIRBILL NO.	SHIPPING DATE	NO. OF COOLERS
FEDEX	841824924252	5-9-06	1

ITEM NUMBER	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
	CRA	5-9-06	1700	FedEx		
	FedEx	5/10	1235	C. Schufelberger	5/10	1235

SAMPLE CONDITION

Temp in °C	0°C
Received on Ice	(Y) N
Sealed Cooler	Y (N)
Samples Intact	(Y) N

SAMPLE NOTES

Additional Comments:

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER:

DATE Signed: (MM / DD / YY) 5-9-06

ORIGINAL

SEE REVERSE SIDE FOR INSTRUCTIONS

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

December 02, 2006

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

RE: Project: 2064369
RE: Project ID: COOPER-JAL/039123

Dear Luke Markham:

Enclosed are the analytical results for sample(s) received by the laboratory on November 15, 2006. 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

Pace Analytical®
New Orleans Laboratory

Report of Laboratory Analysis

Project Number: 2064369

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
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

Project: COOPER-JAL/039123

Project No.: 2064369

Sample ID	Lab ID	Matrix	Collection Date/Time		Received Date/Time	
MW2 111406	20484827	Water	11/14/2006	11:55	11/15/2006	10:00
MW1 111406	20484828	Water	11/14/2006	12:41	11/15/2006	10:00
MW2A 111406	20484830	Water	11/14/2006	12:20	11/15/2006	10:00
MW5 111406	20484832	Water	11/14/2006	13:03	11/15/2006	10:00
MW5A 111406	20484833	Water	11/14/2006	13:31	11/15/2006	10:00
MW8 111406	20484834	Water	11/14/2006	14:25	11/15/2006	10:00
MW11 111406	20484835	Water	11/14/2006	13:58	11/15/2006	10:00
MW3 111506	20485168	Water	11/15/2006	14:40	11/16/2006	10:20
MW4 111506	20485169	Water	11/15/2006	13:25	11/16/2006	10:20
MW4A 111506	20485170	Water	11/15/2006	12:55	11/16/2006	10:20
MW6 111506	20485171	Water	11/15/2006	14:00	11/16/2006	10:20
MW7 111506	20485172	Water	11/15/2006	11:15	11/16/2006	10:20
MW9 111506	20485173	Water	11/15/2006	10:45	11/16/2006	10:20
MW9A 111506	20485175	Water	11/15/2006	10:55	11/16/2006	10:20
MW3 111506	20485669	Water	11/15/2006	14:40	11/17/2006	10:15
MW4 111506	20485670	Water	11/15/2006	13:25	11/17/2006	10:15
MW4A 111506	20485673	Water	11/15/2006	12:55	11/17/2006	10:15
MW6 111506	20485674	Water	11/15/2006	14:00	11/17/2006	10:15
MW7 111506	20485675	Water	11/15/2006	11:15	11/17/2006	10:15
MW9 111506	20485676	Water	11/15/2006	10:45	11/17/2006	10:15
MW9A 111506	20485677	Water	11/15/2006	10:55	11/17/2006	10:15
MW10 111606	20485678	Water	11/16/2006	11:00	11/17/2006	10:15
MW12 111606	20485679	Water	11/16/2006	13:40	11/17/2006	10:15
MW13 111606	20485684	Water	11/16/2006	14:20	11/17/2006	10:15
RW1 111606	20485685	Water	11/16/2006	12:50	11/17/2006	10:15
RW2 111606	20485689	Water	11/16/2006	11:15	11/17/2006	10:15
DUP 111606	20485690	Water	11/16/2006		11/17/2006	10:15

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 111406 **Client:** CRA

Project: COOPER-JAL/039123 **Site:** None

Lab ID: 20484827 **Project No.:** 2064369

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

Collected: 11/14/06 **Received:** 11/15/06

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Calcium, Dissolved	EPA 6010	78968	1	535000		ug/L	500.	16-Nov-06	22-Nov-06 10:47	KJR (1)	
Magnesium, Dissolved	EPA 6010	78968	1	212000		ug/L	500.	16-Nov-06	22-Nov-06 10:47	KJR (1)	
Potassium, Dissolved	EPA 6010	78968	1	21000		ug/L	500.	16-Nov-06	22-Nov-06 10:47	KJR (1)	
Sodium, Dissolved	EPA 6010	78968	10	1540000	D1	ug/L	5000	16-Nov-06	27-Nov-06 10:39	KJR (1)	

4 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting 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.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Florida Dept. of Health (NELAC) - E87595
Kansas Dept. of Health .Environment - E-10266
U.S. Dept. of Agriculture Foreign Soil Permit - S-47270

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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 111406 **Client:** CRA

Project: COOPER-JAL/039123 **Site:** None

Lab ID: 20484828 **Project No.:** 2064369

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

Collected: 11/14/06 **Received:** 11/15/06

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Calcium, Dissolved	EPA 6010	78968	1	13200		ug/L	500.	16-Nov-06	22-Nov-06 11:07	KJR (1)	
Magnesium, Dissolved	EPA 6010	78968	1	6490		ug/L	500.	16-Nov-06	22-Nov-06 11:07	KJR (1)	
Potassium, Dissolved	EPA 6010	78968	1	15600		ug/L	500.	16-Nov-06	22-Nov-06 11:07	KJR (1)	
Sodium, Dissolved	EPA 6010	78968	1	172000		ug/L	500.	16-Nov-06	22-Nov-06 11:07	KJR (1)	

4 parameter(s) reported

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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.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Phone: 504.469.0333
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LELAP # 02006

Client ID: MW2A 111406 **Client:** CRA

Project: COOPER-JAL/039123 **Site:** None

Lab ID: 20484830 **Project No.:** 2064369

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

Collected: 11/14/06 **Received:** 11/15/06

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Calcium, Dissolved	EPA 6010	78968	1	69800		ug/L	500.	16-Nov-06	22-Nov-06 11:12	KJR (1)	
Magnesium, Dissolved	EPA 6010	78968	1	15600		ug/L	500.	16-Nov-06	22-Nov-06 11:12	KJR (1)	
Potassium, Dissolved	EPA 6010	78968	1	3470		ug/L	500.	16-Nov-06	22-Nov-06 11:12	KJR (1)	
Sodium, Dissolved	EPA 6010	78968	1	49900		ug/L	500.	16-Nov-06	22-Nov-06 11:12	KJR (1)	

4 parameter(s) reported

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LELAP # 02006

Client ID: MW5 111406
Client: CRA
Project: COOPER-JAL/039123
Site: None
Lab ID: 20484832
Project No.: 2064369
Description: None
Matrix: Water
%Moisture: n/a
Collected: 11/14/06
Received: 11/15/06

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Calcium, Dissolved	EPA 6010	78968	1	437000		ug/L	500.	16-Nov-06	22-Nov-06 11:17	KJR (1)	
Magnesium, Dissolved	EPA 6010	78968	1	173000		ug/L	500.	16-Nov-06	22-Nov-06 11:17	KJR (1)	
Potassium, Dissolved	EPA 6010	78968	1	14200		ug/L	500.	16-Nov-06	22-Nov-06 11:17	KJR (1)	
Sodium, Dissolved	EPA 6010	78968	1	918000		ug/L	500.	16-Nov-06	22-Nov-06 11:17	KJR (1)	

4 parameter(s) reported

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LELAP # 02006

Client ID: MW5A 111406
Client: CRA
Project: COOPER-JAL/039123
Site: None
Lab ID: 20484833
Project No.: 2064369
Description: None
Matrix: Water
%Moisture: n/a
Collected: 11/14/06
Received: 11/15/06

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Calcium, Dissolved	EPA 6010	78968	1	90400		ug/L	500.	16-Nov-06	22-Nov-06 11:22	KJR (1)	
Magnesium, Dissolved	EPA 6010	78968	1	16100		ug/L	500.	16-Nov-06	22-Nov-06 11:22	KJR (1)	
Potassium, Dissolved	EPA 6010	78968	1	3580		ug/L	500.	16-Nov-06	22-Nov-06 11:22	KJR (1)	
Sodium, Dissolved	EPA 6010	78968	1	51400		ug/L	500.	16-Nov-06	22-Nov-06 11:22	KJR (1)	

4 parameter(s) reported

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Phone: 504.469.0333
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LELAP # 02006

Client ID: MW8 111406
Client: CRA
Project: COOPER-JAL/039123
Site: None
Lab ID: 20484834
Project No.: 2064369
Description: None
Matrix: Water
%Moisture: n/a
Collected: 11/14/06
Received: 11/15/06

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Calcium, Dissolved	EPA 6010	78968	1	74200		ug/L	500.	16-Nov-06	22-Nov-06 14:28	KJR (1)	
Magnesium, Dissolved	EPA 6010	78968	1	38300		ug/L	500.	16-Nov-06	22-Nov-06 14:28	KJR (1)	
Potassium, Dissolved	EPA 6010	78968	1	9610		ug/L	500.	16-Nov-06	22-Nov-06 14:28	KJR (1)	
Sodium, Dissolved	EPA 6010	78968	1	162000		ug/L	500.	16-Nov-06	22-Nov-06 14:28	KJR (1)	

4 parameter(s) reported

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Phone: 504.469.0333
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LELAP # 02006

Client ID: MW11 111406 **Client:** CRA

Project: COOPER-JAL/039123 **Site:** None

Lab ID: 20484835 **Project No.:** 2064369

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

Collected: 11/14/06 **Received:** 11/15/06

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Calcium, Dissolved	EPA 6010	78968	1	58000		ug/L	500.	16-Nov-06	22-Nov-06 14:33	KJR (1)	
Magnesium, Dissolved	EPA 6010	78968	1	18200		ug/L	500.	16-Nov-06	22-Nov-06 14:33	KJR (1)	
Potassium, Dissolved	EPA 6010	78968	1	4130		ug/L	500.	16-Nov-06	22-Nov-06 14:33	KJR (1)	
Sodium, Dissolved	EPA 6010	78968	1	53400		ug/L	500.	16-Nov-06	22-Nov-06 14:33	KJR (1)	

4 parameter(s) reported

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client ID: MW3 111506 **Client:** CRA

Project: COOPER-JAL/039123 **Site:** None

Lab ID: 20485669 **Project No.:** 2064369

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

Collected: 11/15/06 **Received:** 11/17/06

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Calcium, Dissolved	EPA 6010	79113	1	51300		ug/L	500.	21-Nov-06	22-Nov-06 14:51	KJR (1)	
Magnesium, Dissolved	EPA 6010	79113	1	17300		ug/L	500.	21-Nov-06	22-Nov-06 14:51	KJR (1)	
Potassium, Dissolved	EPA 6010	79113	1	4300		ug/L	500.	21-Nov-06	22-Nov-06 14:51	KJR (1)	
Sodium, Dissolved	EPA 6010	79113	1	57200		ug/L	500.	21-Nov-06	22-Nov-06 14:51	KJR (1)	

4 parameter(s) reported

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Phone: 504.469.0333
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LELAP # 02006

Client ID: MW4 111506 **Client:** CRA

Project: COOPER-JAL/039123 **Site:** None

Lab ID: 20485670 **Project No.:** 2064369

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

Collected: 11/15/06 **Received:** 11/17/06

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Calcium, Dissolved	EPA 6010	79113	10	1760000	D1	ug/L	5000	21-Nov-06	27-Nov-06 10:58	KJR (1)	
Magnesium, Dissolved	EPA 6010	79113	1	897000		ug/L	500.	21-Nov-06	22-Nov-06 14:56	KJR (1)	
Potassium, Dissolved	EPA 6010	79113	1	58800		ug/L	500.	21-Nov-06	22-Nov-06 14:56	KJR (1)	
Sodium, Dissolved	EPA 6010	79113	10	6150000	D1	ug/L	5000	21-Nov-06	27-Nov-06 10:58	KJR (1)	

4 parameter(s) reported

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LELAP # 02006

Client ID: MW4A 111506
Client: CRA
Project: COOPER-JAL/039123
Site: None
Lab ID: 20485673
Project No.: 2064369
Description: None
Matrix: Water
% Moisture: n/a
Collected: 11/15/06
Received: 11/17/06

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Calcium, Dissolved	EPA 6010	79113	1	227000		ug/L	500.	21-Nov-06	22-Nov-06 15:01	KJR (1)	
Magnesium, Dissolved	EPA 6010	79113	1	53500		ug/L	500.	21-Nov-06	22-Nov-06 15:01	KJR (1)	
Potassium, Dissolved	EPA 6010	79113	1	8100		ug/L	500.	21-Nov-06	22-Nov-06 15:01	KJR (1)	
Sodium, Dissolved	EPA 6010	79113	1	406000		ug/L	500.	21-Nov-06	22-Nov-06 15:01	KJR (1)	

4 parameter(s) reported

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Fax: 504.469.0555
LELAP # 02006

Client ID: MW6 111506 **Client:** CRA

Project: COOPER-JAL/039123 **Site:** None

Lab ID: 20485674 **Project No.:** 2064369

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

Collected: 11/15/06 **Received:** 11/17/06

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Calcium, Dissolved	EPA 6010	79113	1	64600		ug/L	500.	21-Nov-06	22-Nov-06 15:06	KJR (1)	
Magnesium, Dissolved	EPA 6010	79113	1	20400		ug/L	500.	21-Nov-06	22-Nov-06 15:06	KJR (1)	
Potassium, Dissolved	EPA 6010	79113	1	4230		ug/L	500.	21-Nov-06	22-Nov-06 15:06	KJR (1)	
Sodium, Dissolved	EPA 6010	79113	1	57100		ug/L	500.	21-Nov-06	22-Nov-06 15:06	KJR (1)	

4 parameter(s) reported

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LELAP # 02006

Client ID: MW7 111506
Client: CRA
Project: COOPER-JAL/039123
Site: None
Lab ID: 20485675
Project No.: 2064369
Description: None
Matrix: Water
%Moisture: n/a
Collected: 11/15/06
Received: 11/17/06

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Calcium, Dissolved	EPA 6010	79113	1	202000		ug/L	500.	21-Nov-06	22-Nov-06 15:11	KJR (1)	
Magnesium, Dissolved	EPA 6010	79113	1	70300		ug/L	500.	21-Nov-06	22-Nov-06 15:11	KJR (1)	
Potassium, Dissolved	EPA 6010	79113	1	7400		ug/L	500.	21-Nov-06	22-Nov-06 15:11	KJR (1)	
Sodium, Dissolved	EPA 6010	79113	1	102000		ug/L	500.	21-Nov-06	22-Nov-06 15:11	KJR (1)	

4 parameter(s) reported

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Phone: 504.469.0333
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LELAP # 02006

Client ID: MW9 111506 **Client:** CRA

Project: COOPER-JAL/039123 **Site:** None

Lab ID: 20485676 **Project No.:** 2064369

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

Collected: 11/15/06 **Received:** 11/17/06

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Calcium, Dissolved	EPA 6010	79113	1	70500		ug/L	500.	21-Nov-06	22-Nov-06 15:16	KJR (1)	
Magnesium, Dissolved	EPA 6010	79113	1	35800		ug/L	500.	21-Nov-06	22-Nov-06 15:16	KJR (1)	
Potassium, Dissolved	EPA 6010	79113	1	8640		ug/L	500.	21-Nov-06	22-Nov-06 15:16	KJR (1)	
Sodium, Dissolved	EPA 6010	79113	1	152000		ug/L	500.	21-Nov-06	22-Nov-06 15:16	KJR (1)	

4 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting 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.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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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

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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: MW9A 111506
Client: CRA
Project: COOPER-JAL/039123
Site: None
Lab ID: 20485677
Project No.: 2064369
Description: None
Matrix: Water
% Moisture: n/a
Collected: 11/15/06
Received: 11/17/06

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Calcium, Dissolved	EPA 6010	79113	1	126000		ug/L	500.	21-Nov-06	22-Nov-06 15:30	KJR (1)	
Magnesium, Dissolved	EPA 6010	79113	1	33400		ug/L	500.	21-Nov-06	22-Nov-06 15:30	KJR (1)	
Potassium, Dissolved	EPA 6010	79113	1	4740		ug/L	500.	21-Nov-06	22-Nov-06 15:30	KJR (1)	
Sodium, Dissolved	EPA 6010	79113	1	68400		ug/L	500.	21-Nov-06	22-Nov-06 15:30	KJR (1)	

4 parameter(s) reported

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Phone: 504.469.0333
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LELAP # 02006

Client ID: MW10 111606 **Client:** CRA

Project: COOPER-JAL/039123 **Site:** None

Lab ID: 20485678 **Project No.:** 2064369

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

Collected: 11/16/06 **Received:** 11/17/06

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Calcium, Dissolved	EPA 6010	79113	1	101000		ug/L	500.	21-Nov-06	22-Nov-06 15:35	KJR (1)	
Magnesium, Dissolved	EPA 6010	79113	1	30000		ug/L	500.	21-Nov-06	22-Nov-06 15:35	KJR (1)	
Potassium, Dissolved	EPA 6010	79113	1	4750		ug/L	500.	21-Nov-06	22-Nov-06 15:35	KJR (1)	
Sodium, Dissolved	EPA 6010	79113	1	64100		ug/L	500.	21-Nov-06	22-Nov-06 15:35	KJR (1)	

4 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting 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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Phone: 504.469.0333
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LELAP # 02006

Client ID: MW12 111606 **Client:** CRA

Project: COOPER-JAL/039123 **Site:** None

Lab ID: 20485679 **Project No.:** 2064369

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

Collected: 11/16/06 **Received:** 11/17/06

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Calcium, Dissolved	EPA 6010	79113	1	82300		ug/L	500.	21-Nov-06	22-Nov-06 15:40	KJR (1)	
Magnesium, Dissolved	EPA 6010	79113	1	27000		ug/L	500.	21-Nov-06	22-Nov-06 15:40	KJR (1)	
Potassium, Dissolved	EPA 6010	79113	1	4820		ug/L	500.	21-Nov-06	22-Nov-06 15:40	KJR (1)	
Sodium, Dissolved	EPA 6010	79113	1	62200		ug/L	500.	21-Nov-06	22-Nov-06 15:40	KJR (1)	

4 parameter(s) reported

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LELAP # 02006

Client ID: MW13 111606 **Client:** CRA

Project: COOPER-JAL/039123 **Site:** None

Lab ID: 20485684 **Project No.:** 2064369

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

Collected: 11/16/06 **Received:** 11/17/06

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Calcium, Dissolved	EPA 6010	79113	1	529000		ug/L	500.	21-Nov-06	22-Nov-06	15:47 KJR (1)	
Magnesium, Dissolved	EPA 6010	79113	1	176000		ug/L	500.	21-Nov-06	22-Nov-06	15:47 KJR (1)	
Potassium, Dissolved	EPA 6010	79113	1	14200		ug/L	500.	21-Nov-06	22-Nov-06	15:47 KJR (1)	
Sodium, Dissolved	EPA 6010	79113	1	493000		ug/L	500.	21-Nov-06	22-Nov-06	15:47 KJR (1)	

4 parameter(s) reported

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LELAP # 02006

Client ID: RW1 111606 **Client:** CRA

Project: COOPER-JAL/039123 **Site:** None

Lab ID: 20485685 **Project No.:** 2064369

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

Collected: 11/16/06 **Received:** 11/17/06

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Calcium, Dissolved	EPA 6010	79113	1	539000		ug/L	500.	21-Nov-06	22-Nov-06 15:52	KJR (1)	
Magnesium, Dissolved	EPA 6010	79113	1	694000		ug/L	500.	21-Nov-06	22-Nov-06 15:52	KJR (1)	
Potassium, Dissolved	EPA 6010	79113	1	43300		ug/L	500.	21-Nov-06	22-Nov-06 15:52	KJR (1)	
Sodium, Dissolved	EPA 6010	79113	10	5580000	D1	ug/L	5000	21-Nov-06	27-Nov-06 11:03	KJR (1)	

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: RW2 111606
Client: CRA
Project: COOPER-JAL/039123
Site: None
Lab ID: 20485689
Project No.: 2064369
Description: None
Matrix: Water
% Moisture: n/a
Collected: 11/16/06
Received: 11/17/06

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Calcium, Dissolved	EPA 6010	78968	1	978000		ug/L	500.	17-Nov-06	22-Nov-06 14:40	KJR (1)	
Magnesium, Dissolved	EPA 6010	78968	1	48800		ug/L	500.	17-Nov-06	22-Nov-06 14:40	KJR (1)	
Potassium, Dissolved	EPA 6010	78968	1	18000		ug/L	500.	17-Nov-06	22-Nov-06 14:40	KJR (1)	
Sodium, Dissolved	EPA 6010	78968	1	437000		ug/L	500.	17-Nov-06	22-Nov-06 14:40	KJR (1)	

4 parameter(s) reported

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1000 Riverbend Blvd. Suite F
St. Rose , LA 70087

Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client ID: DUP 111606 **Client:** CRA

Project: COOPER-JAL/039123 **Site:** None

Lab ID: 20485690 **Project No.:** 2064369

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

Collected: 11/16/06 **Received:** 11/17/06

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Calcium, Dissolved	EPA 6010	78968	1	563000		ug/L	500.	17-Nov-06	22-Nov-06 14:46	KJR (1)	
Magnesium, Dissolved	EPA 6010	78968	1	644000		ug/L	500.	17-Nov-06	22-Nov-06 14:46	KJR (1)	
Potassium, Dissolved	EPA 6010	78968	1	46400		ug/L	500.	17-Nov-06	22-Nov-06 14:46	KJR (1)	
Sodium, Dissolved	EPA 6010	78968	10	5410000	D1	ug/L	5000	17-Nov-06	27-Nov-06 10:53	KJR (1)	

4 parameter(s) reported

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LELAP # 02006

Client ID: MW2 111406 **Client:** CRA

Project: COOPER-JAL/039123 **Site:** None

Lab ID: 20484827 **Project No.:** 2064369

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

Collected: 11/14/06 **Received:** 11/15/06

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Reg. Limit
Total Dissolved Solids	SM 2540C	78949	1	8260		mg/L	10.0	20-Nov-06	20-Nov-06 14:40 MHM (1)	

1 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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LELAP # 02006

Client ID: MW1 111406 **Client:** CRA

Project: COOPER-JAL/039123 **Site:** None

Lab ID: 20484828 **Project No.:** 2064369

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

Collected: 11/14/06 **Received:** 11/15/06

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Reg. Limit
Total Dissolved Solids	SM 2540C	78949	1	624.		mg/L	10.0	16-Nov-06	16-Nov-06 14:40 MHM (1)	

1 parameter(s) reported

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

Client ID: MW2A 111406
Client: CRA
Project: COOPER-JAL/039123
Site: None
Lab ID: 20484830
Project No.: 2064369
Description: None
Matrix: Water
% Moisture: n/a
Collected: 11/14/06
Received: 11/15/06

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Reg. Limit
Total Dissolved Solids	SM 2540C	78949	1	488.		mg/L	10.0	16-Nov-06	16-Nov-06 14:40 MHM (1)	

1 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting 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.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

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Phone: 504.469.0333
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LELAP # 02006

Client ID: MW5 111406 **Client:** CRA

Project: COOPER-JAL/039123 **Site:** None

Lab ID: 20484832 **Project No.:** 2064369

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

Collected: 11/14/06 **Received:** 11/15/06

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Reg. Limit
Total Dissolved Solids	SM 2540C	78949	1	4420		mg/L	10.0	20-Nov-06	20-Nov-06 14:40 MHM (1)	

1 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting 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.
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LELAP # 02006

Client ID: MW5A 111406
Client: CRA
Project: COOPER-JAL/039123
Site: None
Lab ID: 20484833
Project No.: 2064369
Description: None
Matrix: Water
%Moisture: n/a
Collected: 11/14/06
Received: 11/15/06

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Reg. Limit
Total Dissolved Solids	SM 2540C	78949	1	588.		mg/L	10.0	16-Nov-06	16-Nov-06 14:40 MHM (1)	

1 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
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Florida Dept. of Health (NELAC) - E87595
Kansas Dept. of Health _Environment - E-10266
U.S. Dept. of Agriculture Foreign Soil Permit - S-47270

Report of Laboratory Analysis

Pace Analytical New Orleans Laboratory

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 111406 **Client:** CRA

Project: COOPER-JAL/039123 **Site:** None

Lab ID: 20484834 **Project No.:** 2064369

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

Collected: 11/14/06 **Received:** 11/15/06

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Reg. Limit
Total Dissolved Solids	SM 2540C	78949	1	912.		mg/L	10.0	16-Nov-06	16-Nov-06 14:40 MHM (1)	

1 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
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(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.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

12/2/2006 09:25:59

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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client ID: MW11 111406
Client: CRA
Project: COOPER-JAL/039123
Site: None
Lab ID: 20484835
Project No.: 2064369
Description: None
Matrix: Water
% Moisture: n/a
Collected: 11/14/06
Received: 11/15/06

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Reg. Limit
Total Dissolved Solids	SM 2540C	78949	1	532.		mg/L	10.0	16-Nov-06	16-Nov-06 14:40 MHM (1)	

1 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: MW3 111506 **Client:** CRA

Project: COOPER-JAL/039123 **Site:** None

Lab ID: 20485669 **Project No.:** 2064369

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

Collected: 11/15/06 **Received:** 11/17/06

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Reg. Limit
Total Dissolved Solids	EPA 160.1	79504	1	505.		mg/L	10.0	27-Nov-06	27-Nov-06 10:06 XXXX (0)	

1 parameter(s) reported

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

Client ID: MW4 111506 **Client:** CRA

Project: COOPER-JAL/039123 **Site:** None

Lab ID: 20485670 **Project No.:** 2064369

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

Collected: 11/15/06 **Received:** 11/17/06

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Reg. Limit
Total Dissolved Solids	EPA 160.1	79504	1	28700		mg/L	10.0	27-Nov-06	27-Nov-06 09:59 XXXX (0)	

1 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting 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.
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(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
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Client ID: MW4A 111506 **Client:** CRA

Project: COOPER-JAL/039123 **Site:** None

Lab ID: 20485673 **Project No.:** 2064369

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

Collected: 11/15/06 **Received:** 11/17/06

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Reg. Limit
Total Dissolved Solids	EPA 160.1	79504	1	2870		mg/L	10.0	27-Nov-06	27-Nov-06 09:50 XXXX (0)	

1 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting 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.
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(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
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LELAP # 02006

Client ID: MW6 111506 **Client:** CRA

Project: COOPER-JAL/039123 **Site:** None

Lab ID: 20485674 **Project No.:** 2064369

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

Collected: 11/15/06 **Received:** 11/17/06

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Reg. Limit
Total Dissolved Solids	EPA 160.1	79504	1	507.		mg/L	10.0	28-Nov-06	28-Nov-06 09:20 XXXX (0)	

1 parameter(s) reported

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

Client ID: MW7 111506 **Client:** CRA

Project: COOPER-JAL/039123 **Site:** None

Lab ID: 20485675 **Project No.:** 2064369

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

Collected: 11/15/06 **Received:** 11/17/06

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Reg. Limit
Total Dissolved Solids	EPA 160.1	79504	1	2100		mg/L	10.0	28-Nov-06	28-Nov-06 08:55 XXXX (0)	

1 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
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LELAP # 02006

Client ID: MW9 111506
Project: COOPER-JAL/039123
Lab ID: 20485676
Description: None

Client: CRA
Site: None
Project No.: 2064369
Matrix: Water
% Moisture: n/a
Collected: 11/15/06
Received: 11/17/06

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Reg. Limit
Total Dissolved Solids	EPA 160.1	79504	1	905.		mg/L	10.0	27-Nov-06	27-Nov-06 09:41 XXXX (0)	

1 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
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Phone: 504.469.0333
Fax: 504.469.0555
LELAP # 02006

Client ID: MW9A 111506 **Client:** CRA

Project: COOPER-JAL/039123 **Site:** None

Lab ID: 20485677 **Project No.:** 2064369

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

Collected: 11/15/06 **Received:** 11/17/06

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Reg. Limit
Total Dissolved Solids	EPA 160.1	79504	1	1280		mg/L	10.0	27-Nov-06	27-Nov-06 10:13 XXXX (0)	

1 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
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LELAP # 02006

Client ID: MW10 111606 **Client:** CRA

Project: COOPER-JAL/039123 **Site:** None

Lab ID: 20485678 **Project No.:** 2064369

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

Collected: 11/16/06 **Received:** 11/17/06

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Reg. Limit
Total Dissolved Solids	EPA 160.1	79504	1	900.		mg/L	10.0	21-Nov-06	21-Nov-06 16:50 XXXX (0)	

1 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
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Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
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LELAP # 02006

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Client ID: MW12 111606 **Client:** CRA

Project: COOPER-JAL/039123 **Site:** None

Lab ID: 20485679 **Project No.:** 2064369

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

Collected: 11/16/06 **Received:** 11/17/06

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Reg. Limit
Total Dissolved Solids	EPA 160.1	79504	1	620.		mg/L	10.0	21-Nov-06	21-Nov-06 16:39 XXXX (0)	

1 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
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Phone: 504.469.0333
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LELAP # 02006

Client ID: MW13 111606 **Client:** CRA

Project: COOPER-JAL/039123 **Site:** None

Lab ID: 20485684 **Project No.:** 2064369

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

Collected: 11/16/06 **Received:** 11/17/06

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Reg. Limit
Total Dissolved Solids	EPA 160.1	79504	1	5060		mg/L	10.0	21-Nov-06	21-Nov-06 16:36 XXXX (0)	

1 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
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Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
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Client ID: RW1 111606 **Client:** CRA

Project: COOPER-JAL/039123 **Site:** None

Lab ID: 20485685 **Project No.:** 2064369

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

Collected: 11/16/06 **Received:** 11/17/06

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Reg. Limit
Total Dissolved Solids	EPA 160.1	79504	1	22000		mg/L	10.0	21-Nov-06	21-Nov-06 16:45 XXXX (0)	

1 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting 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.
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Client ID: RW2 111606 **Client:** CRA

Project: COOPER-JAL/039123 **Site:** None

Lab ID: 20485689 **Project No.:** 2064369

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

Collected: 11/16/06 **Received:** 11/17/06

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Reg. Limit
Total Dissolved Solids	EPA 160.1	79504	1	5270		mg/L	10.0	21-Nov-06	21-Nov-06 16:35 XXXX (0)	

1 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting 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.
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LELAP # 02006

Client ID: DUP 111606 **Client:** CRA

Project: COOPER-JAL/039123 **Site:** None

Lab ID: 20485690 **Project No.:** 2064369

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

Collected: 11/16/06 **Received:** 11/17/06

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Reg. Limit
Total Dissolved Solids	EPA 160.1	79504	1	22400		mg/L	10.0	21-Nov-06	21-Nov-06 15:20 XXXX (0)	

1 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
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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.
Analysis performed in (1) New Orleans, (2) Baton Rouge, (3) Bossier City, (4) Houston, or (0) subcontract or field.

12/2/2006 09:25:59

New Orleans Laboratory Certifications
Louisiana Dept. of Environmental Quality (LELAP) - 02006
Arkansas Dept. of Environmental Quality - 88-0661
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

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 No.: 2064369

Parameter	Batch	Blank	ARL	Units	LCS Spike	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	MS %Rec	MSD %Rec	(1)MS DUP RPD	QC Limits LCS	QC Limits MS/MSD	RPD Max	Qu
Calcium, Diss	78968	ND	500.	ug/L	10000	103			10000	271 *	333 *	1	73 - 115	75 - 125	20	Q3
Calcium, Diss	78968			ug/L					10000	271 *	333 *	1	-	75 - 125	20	Q3
Magnesium, D	78968	ND	500.	ug/L	10000	102			10000	228 *	210 *	1	73 - 116	75 - 125	20	Q3
Magnesium, D	78968			ug/L					10000	228 *	210 *	1	-	75 - 125	20	Q3
Potassium, Dis	78968	ND	500.	ug/L	10000	105			10000	126 *	112	4	73 - 114	75 - 125	20	Q1
Potassium, Dis	78968			ug/L					10000	126 *	112	4	-	75 - 125	20	Q1
Sodium, Disso	78968	ND	500.	ug/L	10000	107			10000	0 *	190 *	3	64 - 122	75 - 125	20	D1
Sodium, Disso	78968			ug/L					10000	0 *	190 *	3	-	75 - 125	20	D1
Calcium, Diss	79113	ND	500.	ug/L	10000	93			10000	89	99	5	73 - 115	75 - 125	20	
Magnesium, D	79113	ND	500.	ug/L	10000	96			10000	86	99	4	73 - 116	75 - 125	20	
Potassium, Dis	79113	ND	500.	ug/L	10000	96			10000	90	104	5	73 - 114	75 - 125	20	
Sodium, Disso	79113	ND	500.	ug/L	10000	95			10000	114	218 *	2	64 - 122	75 - 125	20	

12/2/2006 09:26:01

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

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

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

Wet Chemistry Quality Control Results

Project No.: 2064369

Parameter	Batch	Blank	ARL	Units	LCS Spike	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	MS %Rec	MSD %Rec	(1)MS RPD	DUP RPD	QC Limits LCS	QC Limits MS/MSD	RPD Max	Qu
Total Dissolve	78949	ND	10.0	mg/L									0	-	-	20	
Total Dissolve	78949	ND	10.0	mg/L	100	112								80 - 120	-		

12/2/2006 09:26:04

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

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

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 No.: 2064369

General Qualifiers

Qualifier	Qualifier Description
D1	The analysis was performed at a dilution due to the high analyte concentration.

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.

CHAIN-OF-CUSTODY / Analytical Request Document

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

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Page: 1 of 2

0947078

2064369

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:

Section B
Required Project Information:

Report To: Luke Markham / CRA
Copy To:
Purchase Order No.:
Project Name: Cooper - Jal
Project Number: 039123

Section C
Invoice Information:

Attention:
Company Name:
Address:
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 ______

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

Requested Analysis: Ca, Mg, Na, K (Dissolved) 6010B; TDS 2540C

Filtered (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	Ca, Mg, Na, K (Dissolved) 6010B	TDS 2540C	Residual Chlorine (Y/N)	Pace Project Number Lab I.D.
1	MW3111506	WT	G			11-15	1440	20	2	X							X	X	X		20485669
2	MW4111506	WT	G			11-15	1325	18	2	X							X	X	X		670
3	MW4A111506	WT	G			11-15	1255	19	2	X							X	X	X		673
4	MW6111506	WT	G			11-15	1400	20	2	X							X	X	X		674
5	MW7111506	WT	G			11-15	1115	20	2	X							X	X	X		675
6	MW9111506	WT	G			11-15	1045	19	2	X							X	X	X		676
7	MW9A111506	WT	G			11-15	1055	19	2	X							X	X	X		677
8	MW10111606	WT	G			11-16	1100	18	2	X							X	X	X		678
9	MW12111606	WT	G			11-16	1340	19	2	X							X	X	X		679
10	MW13111606	WT	G			11-16	1420	21	2	X							X	X	X		684
11	RW1111606	WT	G			11-16	1250	21	2	X							X	X	X		685
12	RW2111606	WT	G			11-16	1115	19	2	X							X	X	X		689

Additional Comments:

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
[signature] / CRA	11-16	1700					Y/N	Y/N	Y/N
FedEx	11-17-06	1015	[signature]	11-17-06	1015	4.0	Y	Y	Y
							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): 11-16-06

SEE REVERSE SIDE FOR INSTRUCTIONS

ORIGINAL

Pace Analytical®

CHAIN-OF-CUSTODY / Analytical Request Document

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

0947076

2064369

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:	

Section B **Required** Project Information:

Report To: Luke Markham / CRA
Copy To:
Purchase Order No.:
Project Name: Cooper - Jal
Project Number: 039123

Section C Invoice Information:

Attention:
Company Name:
Address:
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 _____ 6010B

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)

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	~~Other~~ Ice	Requested Analysis: TDS 2540 C	Ca, Mg, Na, K (Dissolved)	Temp	Residual Chlorine (Y/N)	Pace Project Number Lab I.D.
1	Dup111606	WT	G			11-16	—	-	2	x							x	x	x			20485690
2	Temp	WT	G			—	—	-	1	x							x			x		
3																						
4																						
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						

Additional Comments:

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
[signature] / CRA	11-16	1700					Y/N	Y/N	Y/N
[signature]	11-17-06	1015	[signature]	11/17/06	1015	4.0	(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): 11-16-06

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: 878471

Client: PACE ANALYTICAL SERVICES, INC.
Lab Contact: Brian Basten

Project Name: CRA

Project Number: 2064369

Lab Sample Number	Field ID	Matrix	Collection Date
878471-001	MW2 111406 20484827	WATER	11/14/06 11:55
878471-002	MW2A 111406 20484830	WATER	11/14/06 12:20
878471-003	MW1 111406 20484828	WATER	11/14/06 12:41
878471-004	MW5 111406 20484832	WATER	11/14/06 13:03
878471-005	MW5A 111406 20484833	WATER	11/14/06 13:31
878471-006	MW8 111406 20484834	WATER	11/14/06 14:25
878471-007	MW11 111406 20484835	WATER	11/14/06 13:58
878534-001	MW3 111506 20485168	WATER	11/15/06 14:40
878534-002	MW4 111506 20485169	WATER	11/15/06 13:25
878534-003	MW4A 111506 20485170	WATER	11/15/06 12:55
878534-004	MW6 111506 20485171	WATER	11/15/06 14:00
878534-005	MW7 111506 20485172	WATER	11/15/06 11:15
878534-006	MW9 111506 20485173	WATER	11/15/06 10:45
878534-007	MW9A 111506 20485175	WATER	11/15/06 10:55
878566-001	MW11 111606 20485678	WATER	11/16/06 11:00
878566-002	MW12 111606 20485679	WATER	11/16/06 13:40
878566-003	MW13 111606 20485684	WATER	11/16/06 14:20
878566-004	RW1 111606 20485685	WATER	11/16/06 12:50
878566-005	RW2 111606 20485689	WATER	11/16/06 11:15
878566-006	DUP 111606 20485690	WATER	11/16/06

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.

Approval Signature

11-29-06
Date

Pace Analytical Services, Inc.

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

Analytical Report Number: 878471

Client : PACE ANALYTICAL SERVICES, INC.
Project Name : CRA
Project Number : 2064369
Field ID : MW2 111406 20484827

Matrix Type : WATER
Collection Date : 11/14/06
Report Date : 11/29/06
Lab Sample Number : 878471-001

INORGANICS

Test		Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
Hydroxide Alkalinity	<	10	10	1	mg/L		11/17/06	SM 2320B	SM 2320B
Bicarbonate Alkalinity		160	10	1	mg/L		11/17/06	SM 2320B	SM 2320B
Carbonate Alkalinity	<	10	10	1	mg/L		11/17/06	SM 2320B	SM 2320B
Chloride		3500	250	50	mg/L		11/16/06	EPA 300.0	EPA 300.0
Fluoride		0.78	0.50	1	mg/L	N	11/15/06	EPA 300.0	EPA 300.0
Nitrogen, Nitrate		2.1	0.40	1	mg/L		11/15/06	EPA 300.0	EPA 300.0
Sulfate		470	40	10	mg/L		11/16/06	EPA 300.0	EPA 300.0

Pace Analytical Services, Inc.

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

Analytical Report Number: 878471

Client : PACE ANALYTICAL SERVICES, INC.
Project Name : CRA
Project Number : 2064369
Field ID : MW2A 111406 20484830

Matrix Type : WATER
Collection Date : 11/14/06
Report Date : 11/29/06
Lab Sample Number : 878471-002

INORGANICS

Test		Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
Hydroxide Alkalinity	<	10	10	1	mg/L		11/17/06	SM 2320B	SM 2320B
Bicarbonate Alkalinity		180	10	1	mg/L		11/17/06	SM 2320B	SM 2320B
Carbonate Alkalinity	<	10	10	1	mg/L		11/17/06	SM 2320B	SM 2320B
Chloride		49	5.0	1	mg/L		11/15/06	EPA 300.0	EPA 300.0
Fluoride		0.55	0.50	1	mg/L		11/15/06	EPA 300.0	EPA 300.0
Nitrogen, Nitrate		1.6	0.40	1	mg/L		11/15/06	EPA 300.0	EPA 300.0
Sulfate		76	8.0	2	mg/L		11/16/06	EPA 300.0	EPA 300.0

Pace Analytical Services, Inc.

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

Analytical Report Number: 878471

Client : PACE ANALYTICAL SERVICES, INC.
Project Name : CRA
Project Number : 2064369
Field ID : MW1 111406 20484828

Matrix Type : WATER
Collection Date : 11/14/06
Report Date : 11/29/06
Lab Sample Number : 878471-003

INORGANICS

Test		Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
Hydroxide Alkalinity	<	10	10	1	mg/L		11/17/06	SM 2320B	SM 2320B
Bicarbonate Alkalinity		200	10	1	mg/L		11/17/06	SM 2320B	SM 2320B
Carbonate Alkalinity	<	10	10	1	mg/L		11/17/06	SM 2320B	SM 2320B
Chloride		96	5.0	1	mg/L		11/15/06	EPA 300.0	EPA 300.0
Fluoride		4.2	0.50	1	mg/L		11/15/06	EPA 300.0	EPA 300.0
Nitrogen, Nitrate		2.0	0.40	1	mg/L		11/15/06	EPA 300.0	EPA 300.0
Sulfate		76	8.0	2	mg/L		11/16/06	EPA 300.0	EPA 300.0

Pace Analytical Services, Inc.

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

Analytical Report Number: 878471

Client : PACE ANALYTICAL SERVICES, INC.
Project Name : CRA
Project Number : 2064369
Field ID : MW5 111406 20484832

Matrix Type : WATER
Collection Date : 11/14/06
Report Date : 11/29/06
Lab Sample Number : 878471-004

INORGANICS

Test		Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
Hydroxide Alkalinity	<	10	10	1	mg/L		11/17/06	SM 2320B	SM 2320B
Bicarbonate Alkalinity		160	10	1	mg/L		11/17/06	SM 2320B	SM 2320B
Carbonate Alkalinity	<	10	10	1	mg/L		11/17/06	SM 2320B	SM 2320B
Chloride		2000	250	50	mg/L		11/16/06	EPA 300.0	EPA 300.0
Fluoride		0.60	0.50	1	mg/L		11/15/06	EPA 300.0	EPA 300.0
Nitrogen, Nitrate		1.5	0.40	1	mg/L		11/15/06	EPA 300.0	EPA 300.0
Sulfate		300	40	10	mg/L		11/16/06	EPA 300.0	EPA 300.0

Pace Analytical Services, Inc.

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

Analytical Report Number: 878471

Client : PACE ANALYTICAL SERVICES, INC.
Project Name : CRA
Project Number : 2064369
Field ID : MW5A 111406 20484833

Matrix Type : WATER
Collection Date : 11/14/06
Report Date : 11/29/06
Lab Sample Number : 878471-005

INORGANICS

Test		Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
Hydroxide Alkalinity	<	10	10	1	mg/L		11/17/06	SM 2320B	SM 2320B
Bicarbonate Alkalinity		240	10	1	mg/L		11/17/06	SM 2320B	SM 2320B
Carbonate Alkalinity	<	10	10	1	mg/L		11/17/06	SM 2320B	SM 2320B
Chloride		47	5.0	1	mg/L		11/15/06	EPA 300.0	EPA 300.0
Fluoride		0.64	0.50	1	mg/L		11/15/06	EPA 300.0	EPA 300.0
Nitrogen, Nitrate		1.5	0.40	1	mg/L		11/15/06	EPA 300.0	EPA 300.0
Sulfate		79	4.0	1	mg/L		11/15/06	EPA 300.0	EPA 300.0

Pace Analytical Services, Inc.

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

Analytical Report Number: 878471

Client : PACE ANALYTICAL SERVICES, INC.
Project Name : CRA
Project Number : 2064369
Field ID : MW8 111406 20484834

Matrix Type : WATER
Collection Date : 11/14/06
Report Date : 11/29/06
Lab Sample Number : 878471-006

INORGANICS

Test		Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
Hydroxide Alkalinity	<	10	10	1	mg/L		11/17/06	SM 2320B	SM 2320B
Bicarbonate Alkalinity		150	10	1	mg/L		11/17/06	SM 2320B	SM 2320B
Carbonate Alkalinity	<	10	10	1	mg/L		11/17/06	SM 2320B	SM 2320B
Chloride		230	50	10	mg/L		11/16/06	EPA 300.0	EPA 300.0
Fluoride		1.1	0.50	1	mg/L		11/15/06	EPA 300.0	EPA 300.0
Nitrogen, Nitrate		1.2	0.40	1	mg/L		11/15/06	EPA 300.0	EPA 300.0
Sulfate		200	40	10	mg/L		11/16/06	EPA 300.0	EPA 300.0

Pace Analytical Services, Inc.

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

Analytical Report Number: 878471

Client : PACE ANALYTICAL SERVICES, INC.
Project Name : CRA
Project Number : 2064369
Field ID : MW11 111406 20484835

Matrix Type : WATER
Collection Date : 11/14/06
Report Date : 11/29/06
Lab Sample Number : 878471-007

INORGANICS

Test		Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
Hydroxide Alkalinity	<	10	10	1	mg/L		11/17/06	SM 2320B	SM 2320B
Bicarbonate Alkalinity		170	10	1	mg/L		11/17/06	SM 2320B	SM 2320B
Carbonate Alkalinity	<	10	10	1	mg/L		11/17/06	SM 2320B	SM 2320B
Chloride		34	5.0	1	mg/L		11/15/06	EPA 300.0	EPA 300.0
Fluoride		1.8	0.50	1	mg/L		11/15/06	EPA 300.0	EPA 300.0
Nitrogen, Nitrate		1.8	0.40	1	mg/L		11/15/06	EPA 300.0	EPA 300.0
Sulfate		110	20	5	mg/L		11/16/06	EPA 300.0	EPA 300.0

Pace Analytical Services, Inc.

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

Analytical Report Number: 878471

Client : PACE ANALYTICAL SERVICES, INC.
Project Name : CRA
Project Number : 2064369
Field ID : MW3 111506 20485168

Matrix Type : WATER
Collection Date : 11/15/06
Report Date : 11/29/06
Lab Sample Number : 878534-001

INORGANICS

Test		Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
Hydroxide Alkalinity	<	10	10	1	mg/L		11/17/06	SM 2320B	SM 2320B
Bicarbonate Alkalinity		170	10	1	mg/L		11/17/06	SM 2320B	SM 2320B
Carbonate Alkalinity	<	10	10	1	mg/L		11/17/06	SM 2320B	SM 2320B
Chloride		30	5.0	1	mg/L		11/17/06	EPA 300.0	EPA 300.0
Fluoride		0.92	0.50	1	mg/L	N	11/17/06	EPA 300.0	EPA 300.0
Nitrogen, Nitrate		1.7	0.40	1	mg/L		11/17/06	EPA 300.0	EPA 300.0
Sulfate		96	8.0	2	mg/L		11/17/06	EPA 300.0	EPA 300.0

Pace Analytical Services, Inc.

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

Analytical Report Number: 878471

Client : PACE ANALYTICAL SERVICES, INC.
Project Name : CRA
Project Number : 2064369
Field ID : MW4 111506 20485169

Matrix Type : WATER
Collection Date : 11/15/06
Report Date : 11/29/06
Lab Sample Number : 878534-002

INORGANICS

Test		Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
Hydroxide Alkalinity	<	10	10	1	mg/L		11/17/06	SM 2320B	SM 2320B
Bicarbonate Alkalinity		260	10	1	mg/L		11/17/06	SM 2320B	SM 2320B
Carbonate Alkalinity	<	10	10	1	mg/L		11/17/06	SM 2320B	SM 2320B
Chloride		14000	2500	500	mg/L		11/20/06	EPA 300.0	EPA 300.0
Fluoride	<	5.0	5.0	10	mg/L	C	11/17/06	EPA 300.0	EPA 300.0
Nitrogen, Nitrate		5.2	0.40	1	mg/L		11/17/06	EPA 300.0	EPA 300.0
Sulfate		1400	400	100	mg/L		11/17/06	EPA 300.0	EPA 300.0

Pace Analytical Services, Inc.

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Green Bay, WI 54302
920-469-2436

Analytical Report Number: 878471

Client : PACE ANALYTICAL SERVICES, INC.
Project Name : CRA
Project Number : 2064369
Field ID : MW4A 111506 20485170

Matrix Type : WATER
Collection Date : 11/15/06
Report Date : 11/29/06
Lab Sample Number : 878534-003

INORGANICS

Test		Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
Hydroxide Alkalinity	<	10	10	1	mg/L		11/17/06	SM 2320B	SM 2320B
Bicarbonate Alkalinity		620	10	1	mg/L		11/17/06	SM 2320B	SM 2320B
Carbonate Alkalinity	<	10	10	1	mg/L		11/17/06	SM 2320B	SM 2320B
Chloride		960	100	20	mg/L		11/20/06	EPA 300.0	EPA 300.0
Fluoride	<	0.50	0.50	1	mg/L		11/17/06	EPA 300.0	EPA 300.0
Nitrogen, Nitrate		2.6	0.40	1	mg/L		11/17/06	EPA 300.0	EPA 300.0
Sulfate		170	40	10	mg/L		11/17/06	EPA 300.0	EPA 300.0

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Analytical Report Number: 878471

Client : PACE ANALYTICAL SERVICES, INC.
Project Name : CRA
Project Number : 2064369
Field ID : MW6 111506 20485171

Matrix Type : WATER
Collection Date : 11/15/06
Report Date : 11/29/06
Lab Sample Number : 878534-004

INORGANICS

Test		Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
Hydroxide Alkalinity	<	10	10	1	mg/L		11/17/06	SM 2320B	SM 2320B
Bicarbonate Alkalinity		750	10	1	mg/L		11/17/06	SM 2320B	SM 2320B
Carbonate Alkalinity	<	10	10	1	mg/L		11/17/06	SM 2320B	SM 2320B
Chloride		68	5.0	1	mg/L		11/17/06	EPA 300.0	EPA 300.0
Fluoride		0.99	0.50	1	mg/L		11/17/06	EPA 300.0	EPA 300.0
Nitrogen, Nitrate		1.5	0.40	1	mg/L		11/17/06	EPA 300.0	EPA 300.0
Sulfate		93	8.0	2	mg/L		11/17/06	EPA 300.0	EPA 300.0

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Analytical Report Number: 878471

Client : PACE ANALYTICAL SERVICES, INC.
Project Name : CRA
Project Number : 2064369
Field ID : MW7 111506 20485172

Matrix Type : WATER
Collection Date : 11/15/06
Report Date : 11/29/06
Lab Sample Number : 878534-005

INORGANICS

Test		Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
Hydroxide Alkalinity	<	10	10	1	mg/L		11/17/06	SM 2320B	SM 2320B
Bicarbonate Alkalinity		240	10	1	mg/L		11/17/06	SM 2320B	SM 2320B
Carbonate Alkalinity	<	10	10	1	mg/L		11/17/06	SM 2320B	SM 2320B
Chloride		550	50	10	mg/L		11/17/06	EPA 300.0	EPA 300.0
Fluoride		0.63	0.50	1	mg/L		11/17/06	EPA 300.0	EPA 300.0
Nitrogen, Nitrate		1.5	0.40	1	mg/L		11/17/06	EPA 300.0	EPA 300.0
Sulfate		110	40	10	mg/L		11/17/06	EPA 300.0	EPA 300.0

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Analytical Report Number: 878471

Client : PACE ANALYTICAL SERVICES, INC.
Project Name : CRA
Project Number : 2064369
Field ID : MW9 111506 20485173

Matrix Type : WATER
Collection Date : 11/15/06
Report Date : 11/29/06
Lab Sample Number : 878534-006

INORGANICS

Test		Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
Hydroxide Alkalinity	<	10	10	1	mg/L		11/17/06	SM 2320B	SM 2320B
Bicarbonate Alkalinity		150	10	1	mg/L		11/17/06	SM 2320B	SM 2320B
Carbonate Alkalinity	<	10	10	1	mg/L		11/17/06	SM 2320B	SM 2320B
Chloride		210	50	10	mg/L		11/17/06	EPA 300.0	EPA 300.0
Fluoride		1.1	0.50	1	mg/L		11/17/06	EPA 300.0	EPA 300.0
Nitrogen, Nitrate		1.2	0.40	1	mg/L		11/17/06	EPA 300.0	EPA 300.0
Sulfate		190	40	10	mg/L		11/17/06	EPA 300.0	EPA 300.0

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Analytical Report Number: 878471

Client : PACE ANALYTICAL SERVICES, INC.
Project Name : CRA
Project Number : 2064369
Field ID : MW9A 111506 20485175

Matrix Type : WATER
Collection Date : 11/15/06
Report Date : 11/29/06
Lab Sample Number : 878534-007

INORGANICS

Test		Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
Hydroxide Alkalinity	<	10	10	1	mg/L		11/17/06	SM 2320B	SM 2320B
Bicarbonate Alkalinity		1600	10	1	mg/L		11/17/06	SM 2320B	SM 2320B
Carbonate Alkalinity	<	10	10	1	mg/L		11/17/06	SM 2320B	SM 2320B
Chloride		290	50	10	mg/L		11/20/06	EPA 300.0	EPA 300.0
Fluoride		0.62	0.50	1	mg/L		11/17/06	EPA 300.0	EPA 300.0
Nitrogen, Nitrate		1.6	0.40	1	mg/L		11/17/06	EPA 300.0	EPA 300.0
Sulfate		72	8.0	2	mg/L		11/17/06	EPA 300.0	EPA 300.0

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Analytical Report Number: 878471

Client : PACE ANALYTICAL SERVICES, INC.
Project Name : CRA
Project Number : 2064369
***Field ID* :** MW11 111606 20485678

Matrix Type : WATER
Collection Date : 11/16/06
Report Date : 11/29/06
Lab Sample Number : 878566-001

INORGANICS

Test		Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
Hydroxide Alkalinity	<	10	10	1	mg/L		11/22/06	SM 2320B	SM 2320B
Bicarbonate Alkalinity		320	10	1	mg/L		11/22/06	SM 2320B	SM 2320B
Carbonate Alkalinity	<	10	10	1	mg/L		11/22/06	SM 2320B	SM 2320B
Chloride		190	25	5	mg/L		11/19/06	EPA 300.0	EPA 300.0
Fluoride		1.2	0.50	1	mg/L		11/17/06	EPA 300.0	EPA 300.0
Nitrogen, Nitrate		1.6	0.40	1	mg/L		11/17/06	EPA 300.0	EPA 300.0
Sulfate		92	20	5	mg/L		11/19/06	EPA 300.0	EPA 300.0

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Analytical Report Number: 878471

Client : PACE ANALYTICAL SERVICES, INC.
Project Name : CRA
Project Number : 2064369
Field ID : MW12 111606 20485679

Matrix Type : WATER
Collection Date : 11/16/06
Report Date : 11/29/06
Lab Sample Number : 878566-002

INORGANICS

Test		Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
Hydroxide Alkalinity	<	10	10	1	mg/L		11/22/06	SM 2320B	SM 2320B
Bicarbonate Alkalinity		270	10	1	mg/L		11/22/06	SM 2320B	SM 2320B
Carbonate Alkalinity	<	10	10	1	mg/L		11/22/06	SM 2320B	SM 2320B
Chloride		120	25	5	mg/L		11/19/06	EPA 300.0	EPA 300.0
Fluoride		0.71	0.50	1	mg/L		11/17/06	EPA 300.0	EPA 300.0
Nitrogen, Nitrate		1.7	0.40	1	mg/L		11/17/06	EPA 300.0	EPA 300.0
Sulfate		84	20	5	mg/L		11/19/06	EPA 300.0	EPA 300.0

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Analytical Report Number: 878471

Client : PACE ANALYTICAL SERVICES, INC.
Project Name : CRA
Project Number : 2064369
Field ID : MW13 111606 20485684

Matrix Type : WATER
Collection Date : 11/16/06
Report Date : 11/29/06
Lab Sample Number : 878566-003

INORGANICS

Test		Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
Hydroxide Alkalinity	<	10	10	1	mg/L		11/22/06	SM 2320B	SM 2320B
Bicarbonate Alkalinity		1500	10	1	mg/L		11/22/06	SM 2320B	SM 2320B
Carbonate Alkalinity	<	10	10	1	mg/L		11/22/06	SM 2320B	SM 2320B
Chloride		2000	500	100	mg/L		11/19/06	EPA 300.0	EPA 300.0
Fluoride	<	0.50	0.50	1	mg/L	N	11/17/06	EPA 300.0	EPA 300.0
Nitrogen, Nitrate		2.7	0.40	1	mg/L		11/17/06	EPA 300.0	EPA 300.0
Sulfate		500	400	100	mg/L	N	11/19/06	EPA 300.0	EPA 300.0

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Analytical Report Number: 878471

Client : PACE ANALYTICAL SERVICES, INC.
Project Name : CRA
Project Number : 2064369
Field ID : RW1 111606 20485685

Matrix Type : WATER
Collection Date : 11/16/06
Report Date : 11/29/06
Lab Sample Number : 878566-004

INORGANICS

Test		Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
Hydroxide Alkalinity	<	10	10	1	mg/L		11/22/06	SM 2320B	SM 2320B
Bicarbonate Alkalinity		380	10	1	mg/L		11/22/06	SM 2320B	SM 2320B
Carbonate Alkalinity	<	10	10	1	mg/L		11/22/06	SM 2320B	SM 2320B
Chloride		11000	2500	500	mg/L		11/20/06	EPA 300.0	EPA 300.0
Fluoride	<	0.50	0.50	1	mg/L		11/17/06	EPA 300.0	EPA 300.0
Nitrogen, Nitrate	<	20	20	50	mg/L	HC	11/20/06	EPA 300.0	EPA 300.0
Sulfate		1100	200	50	mg/L		11/20/06	EPA 300.0	EPA 300.0

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Analytical Report Number: 878471

Client : PACE ANALYTICAL SERVICES, INC.
Project Name : CRA
Project Number : 2064369
Field ID : RW2 111606 20485689

Matrix Type : WATER
Collection Date : 11/16/06
Report Date : 11/29/06
Lab Sample Number : 878566-005

INORGANICS

Test		Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
Hydroxide Alkalinity	<	10	10	1	mg/L		11/22/06	SM 2320B	SM 2320B
Bicarbonate Alkalinity		150	10	1	mg/L		11/22/06	SM 2320B	SM 2320B
Carbonate Alkalinity		49	10	1	mg/L		11/22/06	SM 2320B	SM 2320B
Chloride		2500	250	50	mg/L		11/19/06	EPA 300.0	EPA 300.0
Fluoride		0.57	0.50	1	mg/L		11/17/06	EPA 300.0	EPA 300.0
Nitrogen, Nitrate		1.9	0.40	1	mg/L		11/17/06	EPA 300.0	EPA 300.0
Sulfate		370	200	50	mg/L		11/19/06	EPA 300.0	EPA 300.0

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Analytical Report Number: 878471

Client : PACE ANALYTICAL SERVICES, INC.
Project Name : CRA
Project Number : 2064369
Field ID : DUP 111606 20485690

Matrix Type : WATER
Collection Date : 11/16/06
Report Date : 11/29/06
Lab Sample Number : 878566-006

INORGANICS

Test		Result	EQL	Dilution	Units	Code	Anl Date	Prep Method	Anl Method
Hydroxide Alkalinity	<	10	10	1	mg/L		11/22/06	SM 2320B	SM 2320B
Bicarbonate Alkalinity		390	10	1	mg/L		11/22/06	SM 2320B	SM 2320B
Carbonate Alkalinity	<	10	10	1	mg/L		11/22/06	SM 2320B	SM 2320B
Chloride		11000	2500	500	mg/L		11/20/06	EPA 300.0	EPA 300.0
Fluoride	<	0.50	0.50	1	mg/L	N	11/17/06	EPA 300.0	EPA 300.0
Nitrogen, Nitrate	<	20	20	50	mg/L	NHC	11/20/06	EPA 300.0	EPA 300.0
Sulfate		1100	200	50	mg/L		11/20/06	EPA 300.0	EPA 300.0

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Fax: 920-469-8827

Lab Number	TestGroupID	Field ID	Comment
878534-002	W-F-W	MW4 111506	C - Elevated detection limit due to matrix effect.
878566-004	W-NO3-W	RW1 111606	H - Analysis performed "4" days past holding time.
878566-004	W-NO3-W	RW1 111606	C - Elevated detection limit due to matrix effect.
878566-006	W-NO3-W	DUP 111606	H - Analysis performed "4" days past holding time.
878566-006	W-NO3-W	DUP 111606	C - Elevated detection limit due to matrix effect.

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	Inorganic	Sample received unpreserved. Sample was either preserved at the time of receipt or at the time of sample preparation.
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.

Pace Analytical Services, Inc.

Analysis Summary by Laboratory

1241 Bellevue Street
Green Bay, WI 54302

Test Group Name	878471-001	878471-002	878471-003	878471-004	878471-005	878471-006	878471-007	878534-001	878534-002	878534-003	878534-004	878534-005	878534-006	878534-007	878566-001	878566-002	878566-003	878566-004	878566-005	878566-006
ALKALINITY AS CACO3								B	B	B	B	B	B	B	B	B	B	B	B	B
ALKALINITY AS HYDROXIDE	B	B	B	B	B	B	B													
ALKALINITY, BICARB/CARB	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
CHLORIDE	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
FLUORIDE	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
NITROGEN, NITRATE	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
SULFATE	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B

Code	Facility	Address	TX Certification
B	Green Bay Lab (Bellevue St)	1241 Bellevue Street, Suite 9 Green Bay, WI 54302	Not Certified

QC Reports for Batch

Batch	QC Report	QC Level	State
878471	QCLevel2-DupNo(MS)MS	QC-2	TX
878534	QCLevel2-DupNo(MS)MS	QC-2	TX
878566	QCLevel2-DupNo(MS)MS	QC-2	TX

Sample Condition Upon Receipt

Pace Analytical

Client Name: CRA Project # 818471

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

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 1°C Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: RB 11-15-06 BD 11-15-06

Temp should be above freezing to 6°C Comments:

Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☑Yes ☐No ☐N/A	6. NITRATES
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
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:** 11-18-06

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)

CHAIN-OF-CUSTODY / Analytical Request Document

Pace Analytical®

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

Page: of

0947074

Section A
Required Client Information:

Company: CRA
Address: 2135 S. Loop 250 W.
Midland, Tx. 79703
Email To: LMarkham@craworld.com
Phone: 432-686-0086 Fax: 432-686-0186
Requested Due Date/TAT:

Section B
Required Project Information:

Report To: Luke Markham / CRA
Copy To:
Purchase Order No.:
Project Name: Cooper-Jal
Project Number: 039123

Section C
Invoice Information:

Attention:
Company Name:
Address:
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 ______

Filtered (Y/N)

Requested Analysis: Alk (Carb/Bicarb) 2320B; Cl, SO4, Fluoride 300.0; Nitrate; Temp; Residual Chlorine (Y/N)

Pace Project Number: 878471

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

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	°C SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	~~Other~~ ICE	Alk (Carb/Bicarb) 2320B	Cl, SO4, Fluoride 300.0	Nitrate	Temp	Residual Chlorine (Y/N)	Lab I.D
1	MW2111406	WT	G			11-14	1155	21	1	x							x	x	x	x			001 -125MCA
2	MW2A111406	WT	G			11-14	1220	21	1	x							x	x	x	x			002
3	MW1111406	WT	G			11-14	1241	20	1	x							x	x	x	x			003
4	MW5111406	WT	G			11-14	1303	22	1	x							x	x	x	x			004
5	MW5A111406	WT	G			11-14	1331	21	1	x							x	x	x	x			005
6	MW8111406	WT	G			11-14	1425	23	1	x							x	x	x	x			006
7	MW11111406	WT	G			11-14	1358	22	1	x							x	x	x	x			007
8																							
9	TEMP	WT	-			-	-		1	x							x				x		
10																							
11																							
12																							

Additional Comments:

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITION			
[signature] CRA	11-14	1700	FED EX				Y/N	Y/N	Y/N
FED EX	11/15/06	1020	[signature]	11/15/06	1020	1.0	Y	Y	Y
							Y/N	Y/N	Y/N
							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

ORIGINAL

Sample Condition Upon Receipt

878534

Pace Analytical

Client Name: ORA

Project # ~~878354~~

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

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 1.0 Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: RB 11-16-06

Temp should be above freezing to 6°C Comments:

Chain of Custody Present:	☑Yes	☐No	☐N/A
Chain of Custody Filled Out:	☑Yes	☐No	☐N/A
Chain of Custody Relinquished:	☑Yes	☐No	☐N/A
Sampler Name & Signature on COC:	☑Yes	☐No	☐N/A
Samples Arrived within Hold Time:	☑Yes	☐No	☐N/A
Short Hold Time Analysis (<72hr):	☑Yes	☐No	☐N/A
Rush Turn Around Time Requested:	☐Yes	☑No	☐N/A
Sufficient Volume:	☑Yes	☐No	☐N/A
Correct Containers Used:	☑Yes	☐No	☐N/A
-Pace Containers Used:	☑Yes	☐No	☐N/A
Containers Intact:	☑Yes	☐No	☐N/A
Filtered volume received for Dissolved tests	☐Yes	☐No	☑N/A
Sample Labels match COC:	☑Yes	☐No	☐N/A
-Includes date/time/ID/Analysis Matrix: W			
All containers needing preservation have been checked.	☐Yes	☐No	☑N/A
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	
Samples checked for dechlorination:	☐Yes	☐No	☑N/A
Headspace in VOA Vials (>6mm):	☐Yes	☐No	☑N/A
Trip Blank Present:	☐Yes	☐No	☑N/A
Trip Blank Custody Seals Present	☐Yes	☐No	☐N/A
Pace Trip Blank Lot # (if purchased): _____			

1.	
2.	
3.	
4.	
5.	
6. NITRATE	
7.	
8.	
9.	
10.	
11.	
12.	
13.	
Initial when completed	Lot # of added preservative
14.	
15.	
16.	

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ **Date:** 11-16-06

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)

CHAIN-OF-CUSTODY / Analytical Request Document

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

Pace Analytical®

Page: | of |

0947079

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: CRA	Report To: Luke Markham / CRA	Attention:
Address: 2135 S. Loop 250 W. Midland, Tx. 79703	Copy To:	Company Name:
		Address:
Email To:	Purchase Order No.:	Pace Quote Reference:
Phone: 432-686-0086 Fax: 432-686-0186	Project Name: Cooper - Jal	Pace Project Manager:
Requested Due Date/TAT:	Project Number: 039123	Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ Other_____

SITE LOCATION ☐GA ☐IL ☐IN ☐MI ☐MN ☐NC ☐OH ☐SC ☐WI ☒OTHER _____

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

ITEM #	SAMPLE ID	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	Filtered (Y/N)	Requested Analysis: Fluoride, Sulfate 300.0	Alk (Carb/Bicarb) 2320	Temp	Residual Chlorine (Y/N)	Pace Project Number / Lab I.D
1	MW3 111506	WT				11-15	1440	20	1	X							X		X X X		001		1-250mL
2	MW4 111506	WT				11-15	1325	18	1	X							X		X X X		002		
3	MW4A 111506	WT				11-15	1255	19	1	X							X		X X X		003		
4	MW6 111506	WT				11-15	1400	20	1	X							X		X X X		004		
5	MW7 111506	WT				11-15	1115	20	1	X							X		X X X		005		
6	MW9 111506	WT				11-15	1045	19	1	X							X		X X X		006		
7	MW9A 111506	WT				11-15	1055	19	1	X							X		X X X		007		
8																							
9	Temp	WT				—			1	X							X				X		
10																							
11																							
12																							

8785341

8785341

Pace Project Number
Lab I.D

Additional Comments:

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
/ CRA	11-15	1700	FedEx		
FedEx	11-16-06	1020		11/16/06	1020

SAMPLE CONDITION

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

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Cory Coleman

SIGNATURE of SAMPLER: _____ DATE Signed (MM / DD / YY)

SEE REVERSE SIDE FOR INSTRUCTIONS

ORIGINAL

Sample Condition Upon Receipt

Pace Analytical

Client Name: CLA

Project # 878566

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

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 2-0

Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: AB 11-17-06 CLL 11/17/06

Temp should be above freezing to 6°C

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☑Yes ☐No ☐N/A	6. NITRATE
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
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:** 11-17-06

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)

CHAIN-OF-CUSTODY / Analytical Request Document

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

Pace Analytical®

Page: of 0947077

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:

Section B
Required Project Information:

Report To: Luke Markham / CRA
Copy To:
Purchase Order No.:
Project Name: Cooper - Jal
Project Number: 039123

Section C
Invoice Information:

Attention:
Company Name:
Address:
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

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

ITEM #	SAMPLE ID	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: Fluoride, Sulfate, 300.0	Nitrate, Chloride, 300.0	Alk (Carb/Bicarb) 2320	Temp	Residual Chlorine (Y/N)	878566 Pace Project Number / Lab I.D
1	MW10111606	WT	G			11-16	1100	18	1	X							X		X	X	X	001		1-250mL
2	MW12111606	WT	G			11-16	1340	19	1	X							X		X	X	X	002		
3	MW13111606	WT	G			11-16	1420	21	1	X							X		X	X	X	003		
4	AW1 111606	WT	G			11-16	1250	21	1	X							X		X	X	X	004		
5	RW2 111606	WT	G			11-16	1115	19	1	X							X		X	X	X	005		
6	Dup 111606	WT	G			11-16	—		1	X							X		X	X	X	006		
7	Temp	WP	G			—	—		1	X							X					X		
8																								
9																								
10																								
11																								
12																								

Additional Comments:

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITION			
Cory Coleman / CRA	11-16	1700	FED EX	11/16/06	1700	2.0	(Y)N	(Y)N	(Y)N
FEDEX	11-17-06	1035		11/17/06	1035	2.0	(Y)N	(Y)N	(Y)N
							Y/N	Y/N	Y/N
							Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE	Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
PRINT Name of SAMPLER: Cory Coleman				
SIGNATURE of SAMPLER: DATE Signed (MM / DD / YY)				

SEE REVERSE SIDE FOR INSTRUCTIONS

ORIGINAL