1R - 254

2011 AGWMR

DEC 2012

2011 ANNUAL GROUNDWATER MONITORING REPORT

G.L. ERWIN "A & B" FEDERAL NCT-2 TANK BATTERY
CASE NO. 1R254, OGRID NO. 4323
SW/4, SE/4, SECTION 35, T-24-S, R-37-E
LATITUDE: N 32° 10′ 11.9″ LONGITUDE: W 103° 07′ 46.9″
LEA COUNTY, NEW MEXICO

Prepared For:

Mr. Jason Michelson
CEMC Upstream Business Unit
1400 Smith Street
Room 07062
Houston, Texas 77002

Prepared by:
Conestoga-Rovers & Associates

2135 South Loop, 250 West
Midland, Texas
U.S.A. 79703

Office: (432) 686-0086
Fax: (432) 686-0186

web: http://www.CRAworld.com

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1.0 INTRODUCTION

This Annual Groundwater Monitoring Report presents groundwater data collected during the 2011 reporting period at the G.L. Erwin "A & B" Federal NCT-2 Tank Battery (hereafter referred to as the "Site"). On February 15-16 and August 16 and 18, 2011, Conestoga-Rovers & Associates (CRA) conducted the semi-annual groundwater monitoring events on behalf of Chevron Environmental Management Company (CEMC), as successor to Texaco Exploration and Production, Inc. (Texaco).

The Site is located on Lea County Road J4, approximately 3 miles northeast of Jal, New Mexico in the southwest quarter (SW/4) of the southeast quarter (SE/4), Section 35, Township 24 South, Range 37 East, Lea County, New Mexico. The Site's coordinates are latitude N 32° 10' 11.9" and longitude W 103° 07' 46.9". The Site is relatively flat and improved with bermed above ground storage tanks (ASTs), caliche roadways, and oil and gas production equipment. The production equipment includes pipelines, ASTs of various capacities and active production wells. Land use in the vicinity of the Site includes rangeland with indigenous grass, livestock ranching, oil and gas production. The topography slopes gently southeast toward Monument Draw located approximately 1.5 miles east of the Site.

Site assessment activities were initiated in 1993. In September 1993, Environmental Spill Control, Inc. (ESCI) of Hobbs, New Mexico performed a subsurface investigation in and around an unlined earthen emergency which produced a water overflow pit that was located adjacent to the west edge of the Site. During the investigation, 16 boreholes ranging from 30 to 100 feet below ground surface (bgs) were installed to evaluate soil and groundwater at the Site. Analytical results indicated hydrocarbon impacts to the soil and chloride impacts to the groundwater. In September 1994, ESCI excavated the former pit to approximately 62 feet bgs and removed approximately 40,000 cubic yards of hydrocarbon-affected soil. The excavation was lined from 62.5 feet up to 55.0 feet with a mixture of clean sand and clay and was backfilled with clean soil to the surface. ESCI submitted the pit closure report to Texaco in October 1994.
In February 1995, Texaco submitted a work plan to the New Mexico Oil Conservation Division (NMOCD) to assess affected groundwater at the Site. On March 28, 1995, the work plan was conditionally approved by the NMOCD. Two monitoring wells (WMW and SWMW) were installed and sampled in 1997. Analytical results demonstrated groundwater chloride concentrations were at or above the New Mexico Water Quality Control Commission (NMWQCC)

Standards. In January 1998, Highlander Environmental Corp. (Highlander) performed an electromagnetic (EM-34) terrain conductivity survey. Additionally, Highlander installed eight monitoring wells (MW-1 thru MW-8) from February 1998 to January 1999 in order to further evaluate the extent of affected groundwater.

Texaco submitted a corrective action proposal plan to the New Mexico Office of the State Engineer (NMOSE) to recover groundwater from the recovery well (RW-1). From September 2001 to October 2003, nine additional monitor wells were installed under the direction of Larson and Associates, Inc. (LA). On September 9, 2004, the New Mexico State Engineer Office issued Permit CP 00886 to Divert Underground Waters from recovery well RW-1. Monitor wells (MW-18 thru MW-20) were installed under the direction of LA in November 2004. A total fluids groundwater recovery system was installed at RW-1 under CRA's direct supervision in September 2006. At the request of the NMOCD, two groundwater monitoring wells (MW-21 and MW-22) were installed at the Site on November 19, 2007 to further evaluate the extent of affected groundwater. Two additional monitoring wells (MW-23 and MW-24) were installed to the southeast of the Site on October 10-11, 2011 to facilitate the delineation of the chloride plume. Currently, the Site is monitored semi-annually by CRA.

2.0 REGULATORY FRAMEWORK

The NMOCD guidelines require groundwater to be analyzed for constituents of concern (COC) as defined by the New Mexico Water Quality Control Commission (NMWQCC) standards. The NMWQCC regulations provide Human Health Standards for Groundwater. The COCs in affected groundwater at the Site are chlorides, fluorides, nitrates, sulfates and total dissolved solids (TDS). Groundwater analytical results for COC analytes were compared to the NMWQCC standards shown in the following table:

Analyte	*NMWQCC Standard for Groundwater (mg/L)*
Fluoride[1]	1.6
Nitrate (NO_3 as N)[1]	10
Chloride[2]	250
Sulfate (SO_4)[2]	600
Total Dissolved Solids (TDS)[2]	1,000

Notes:

1) [1]NMWQCC Human Health Standards per NMAC 20.6.2.3103A

2) [2]NMWQCC Other Standards for Domestic Water Supply per NMAC 20.6.2.3103B

3.0 2011 GROUNDWATER MONITORING

Currently, groundwater at the Site is monitored semi-annually with a network of 26 wells (Figure 2). CRA performed ground water sampling events on February 15-16 and August 16 and 18, 2011 at the Site.

Prior to purging the monitor wells, static fluid levels were measured with an electric interface probe to the nearest hundredth of a foot. After recording fluid levels, the wells were hand-bailed and purged of three casing volumes of groundwater. Geochemical field parameters (pH, temperature and conductivity) were recorded during purging. All non-disposable groundwater sampling equipment was decontaminated with a soap (Liquinox®) and potable water wash, a potable water rinse and a final de-ionized water rinse. Subsequent to the purging, groundwater samples were collected with new disposable PVC bailers. Laboratory supplied sample containers were filled directly from the bailers.

The 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 ALS Laboratory Group (ALS) for analysis of major cations, anions and TDS by Environmental Protection Agency (EPA) Methods E300.0 and SW6020, SM 2320B, and M2540C (Appendix A). The fluids recovered during the sampling events were containerized and subsequently disposed of at an OCD-permitted salt water disposal (SWD) facility by Nabors.

3.1 POTENTIOMETRIC SURFACE AND GRADIENT

Groundwater elevation data are presented in Table I and generally fall within historical ranges. Groundwater gradient maps for February and August 2011 are presented as Figures 3 and 4. Groundwater elevations ranged from 3,071.18 feet (MW-20) to 3,108.05 feet (MW-22), above Mean Sea Level (MSL) in February and from 3,071.04 feet (MW-20) to 3,107.93 feet (MW-22), above MSL in August. Groundwater flow at the Site is to the southeast at a gradient of 0.014-feet/foot.

3.2 ANALYTICAL RESULTS

The 2011 analytical results generally fall within historical ranges, and are summarized in Table II. A chloride concentration map for February and

August 2011 groundwater monitoring events is presented collectively as Figure 5. Isopleths maps of chloride concentration for February and August are presented as Figures 6 & 7 respectively.
All wells sampled during the February and August 2011 monitoring events had at least one COC (Chloride, Fluoride, Nitrate-N, Sulfate or Total Dissolved Solids) that exceeded NMWQCC standards except WW-1 which did not exceed any standards in the February event.

Groundwater COCs detected above the NMWQCC standards are highlighted in Table II and are listed below:

- Chloride was detected at concentrations above the NMWQCC standard (250 mg/L) in nineteen wells sampled during the February 2011 event and in eighteen wells during the August 2011 sampling event.

- Fluoride was detected at concentrations above the NMWQCC standard (1.60 mg/L) in five wells sampled during the February 2011 event and in seven wells during the August 2011 sampling event.

- Nitrate was not detected at concentrations above the NMWQCC standard (10.00 mg/L) in any wells during the February or August 2011 events.

- Sulfate was detected at concentrations above the NMWQCC standard (600 mg/L) in ten wells sampled during the February 2011 event and in three well during the August 2011 sampling event.

- Total Dissolved Solids were detected at concentrations above the NMWQCC standard (1,000mg/L) in twenty wells sampled during the February 2011 event and in twenty-one wells during the August 2011 sampling event.

4.0 GROUNDWATER INVESTIGATION ACTIVITIES

In October 2011, two groundwater monitoring wells, MW-23 and MW-24, were installed at the Site. The wells were installed to further evaluate the horizontal extent of affected groundwater at the Site. The respective well locations are presented in Figure 2. Both monitor wells, MW-23 and MW-24, were positioned downgradient southeast of the other site groundwater monitor wells.

4.1 FIELD METHODOLOGIES

Prior to mobilizing the drilling equipment to the Site, the boring location areas were marked and a utility notification made at least 48-hour prior to mobilization. A post-hole digger was utilized to clear each boring location to a depth of approximately 5-feet bgs and approximately 10-inches in diameter.

An air-rotary rig, operated by a licensed State of New Mexico water well driller, White Drilling of Clyde, Texas, was utilized to advance the borings to depths ranging from 60 to 100-feet bgs to assess the nature and extent of chloride impacts at the site.

The two borings were converted into two-inch groundwater monitoring wells (MW-23 and MW-24) at each location utilizing 30 feet of 0.020-inch screen and PVC casing to three feet above the ground surface. The two monitoring wells, MW-23 and MW-24, were terminated at 100-feet and 60-feet bgs respectively. General well specifications included: two-inch diameter PVC casing/screens with gravel-packed screened intervals, 30 feet of screen, bentonite seals above the gravel pack, and above ground surface completions with concrete pads.

4.2 GROUNDWATER ASSESSMENT RESULTS

Groundwater was not encountered initially in either monitor well MW-23 or MW-24, and the wells were not sampled. The wells will continue to be monitored and subsequently sampled when water is present in the wells. New Mexico Office of the State Engineer (NMOSE) Monitor Well Records are provided in Appendix B and CRA Soil Boring Logs and Monitor Well Details are in Appendix C.

Depth to groundwater and related measurements and information pertaining to the monitoring wells are presented in Table I - Groundwater Gauging Summary. A Topographic Survey of Monitor Wells, utilized to calculate top of casing (TOC) elevations and depth to groundwater elevations, is presented in Appendix D. The survey was performed by West Company of Midland, Inc. on November 16, 2011.

5.0 QUALITY ASSURANCE

Two duplicate samples each were collected during the February and August 2011 sampling events. Duplicate concentrations did not exhibit significant deviations for constituents analyzed. Copies of the certified analytical reports and chain-of-custody documentation are attached in Appendix A.

6.0 CORRECTIVE ACTION

The groundwater recovery system in RW-1 was shut down from January to December 2011 for system repairs and improvements. The system was restarted in January 2012.

Since the system was installed in September 2006, 11,894 bbls of water total have been recovered from RW-1.

Groundwater pumping record reports for RW-1 were submitted quarterly to the NMOSE in accordance to permit requirements.

7.0 SUMMARY

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

- Groundwater at the Site is monitored semi-annually with a network of 26 wells.

- Groundwater elevation data are presented in Table I and generally fall within historical ranges. Groundwater gradient maps for February and August 2011 are presented as Figures 3 and 4. Groundwater elevations ranged from 3,071.18 feet to 3,108.05 feet above MSL in February 2011 and from 3,071.04 feet to 3,107.93 feet above MSL in August 2011. Groundwater flow at the Site is to the southeast at a gradient of 0.014-feet/foot.

- The 2011 analytical results generally fall within historical ranges, and are summarized in Table II. All wells sampled during the February and August 2011 monitoring events had at least one COC (Chloride, Fluoride, Nitrate-N, Sulfate or Total Dissolved Solids) that exceeded NMWQCC standards except WW-1.

- October 10-11, 2011 monitor wells, MW-23 and MW-24, were installed downgradient southeast of the Site. Initially, neither well contained water. Both wells will be monitored and sampled when water is present in the well.

- The groundwater recovery system in RW-1 was shut down from January to December 2011 for system repairs and improvements. The system was restarted in January 2012.

- Since the system was installed in September 2006, approximately 11,894 bbls total have been recovered from RW-1.

- Groundwater pumping record reports for RW-1 were submitted quarterly to the NMOSE in accordance to permit requirements.

8.0 PLANNED ACTIVITIES

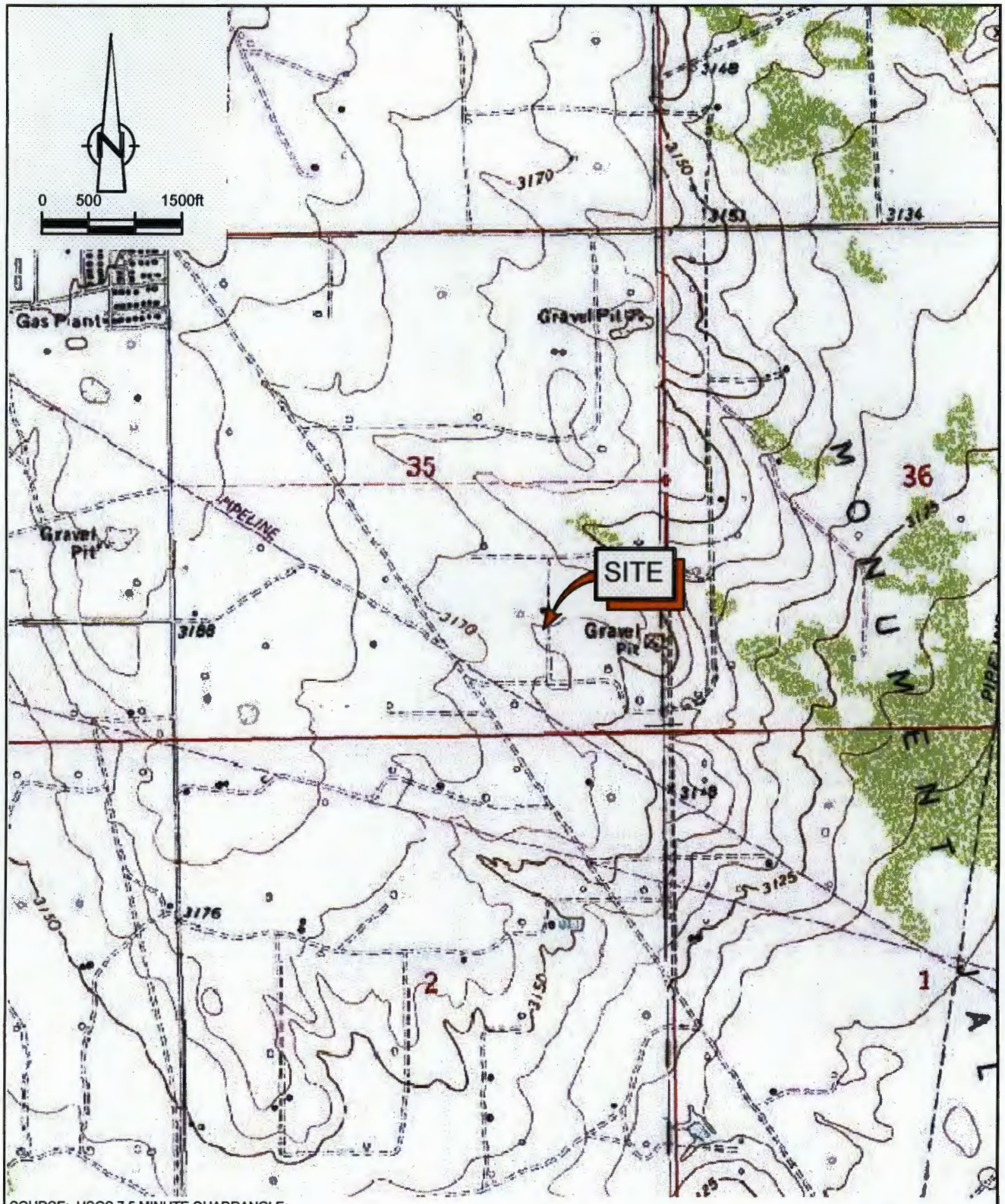
Planned activities at the G.L. Erwin "A & B" Federal NCT-2 Tank Battery include:

- Continue to perform semi-annual groundwater monitoring and sampling events in February and August 2012.
- Continue groundwater recovery from RW-1 in accordance to permit requirements.
- Submit groundwater pumping record reports for RW-1 quarterly to the NMOSE in accordance to permit requirements.
- Install three monitor wells for chloride plume delineation.

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

Todd Wells
Senior Project Manager

Thomas C. Larson
Midland Office Manager



SOURCE: USGS 7.5 MINUTE QUADRANGLE;
JAL NW, NEW MEXICO (1977)
32° 10' 11.9" N, 103° 07' 46.9" W

figure 1

SITE LOCATION MAP
G.L. ERWIN "A&B" FEDERAL NCT-2 TANK BATTERY
LEA COUNTY, NEW MEXICO
Chevron Environmental Management Company

039124-10(009)GN-BR001 AUG 18/2011

RE: ESRI 009 Aerial Photograph.

LEGEND

- MONITOR WELL LOCATION
- RECOVERY WELL LOCATION
- WATER WELL LOCATION
- GROUNDWATER RECOVERY SYSTEM

NOTES:

1. MONITOR WELL LOCATIONS AND TOP OF CASING ELEVATIONS ARE BASED ON A PROFESSIONAL SURVEY CONDUCTED BY PIPER SURVEYING COMPANY IN FEBRUARY AND JULY 1998, OCTOBER 2001, OCTOBER 2003, AND DECEMBER 2004.
2. PUMP AND DISPOSE GROUNDWATER RECOVERY SYSTEM WAS INSTALLED IN SEPTEMBER 2006.
3. MONITOR WELLS MW-21 AND MW-22 WERE INSTALLED ON NOVEMBER 19, 2007 AND TOP OF CASING ELEVATIONS ARE BASED ON A PROFESSIONAL SURVEY CONDUCTED BY WEST COMPANY IN DECEMBER 2007.
4. MW-21, MW-22, MW-23, MW-24, E-1, AND F-1 WERE INSTALLED NOVEMBER 16, 2011

figure 2

SITE DETAILS MAP
G.L. ERWIN "A&B" FEDERAL NCT-2 TANK BATTERY
LEA COUNTY, NEW MEXICO
Chevron Enviromental Management Company

039124-10(009)GN-BR002 DEC 9/2011

RE: USDA NAIP 2009 Aerial Photograph.

LEGEND

- MONITOR WELL LOCATION
- RECOVERY WELL LOCATION
- WATER WELL LOCATION
- GROUNDWATER RECOVERY SYSTEM
- DIRECTION OF GROUNDWATER FLOW
- 3095.32 GROUNDWATER LEVEL ELEVATION
- NG NOT GAUGED
- GROUNDWATER LEVEL ELEVATION CONTOUR (INTERVAL = 5 FT)

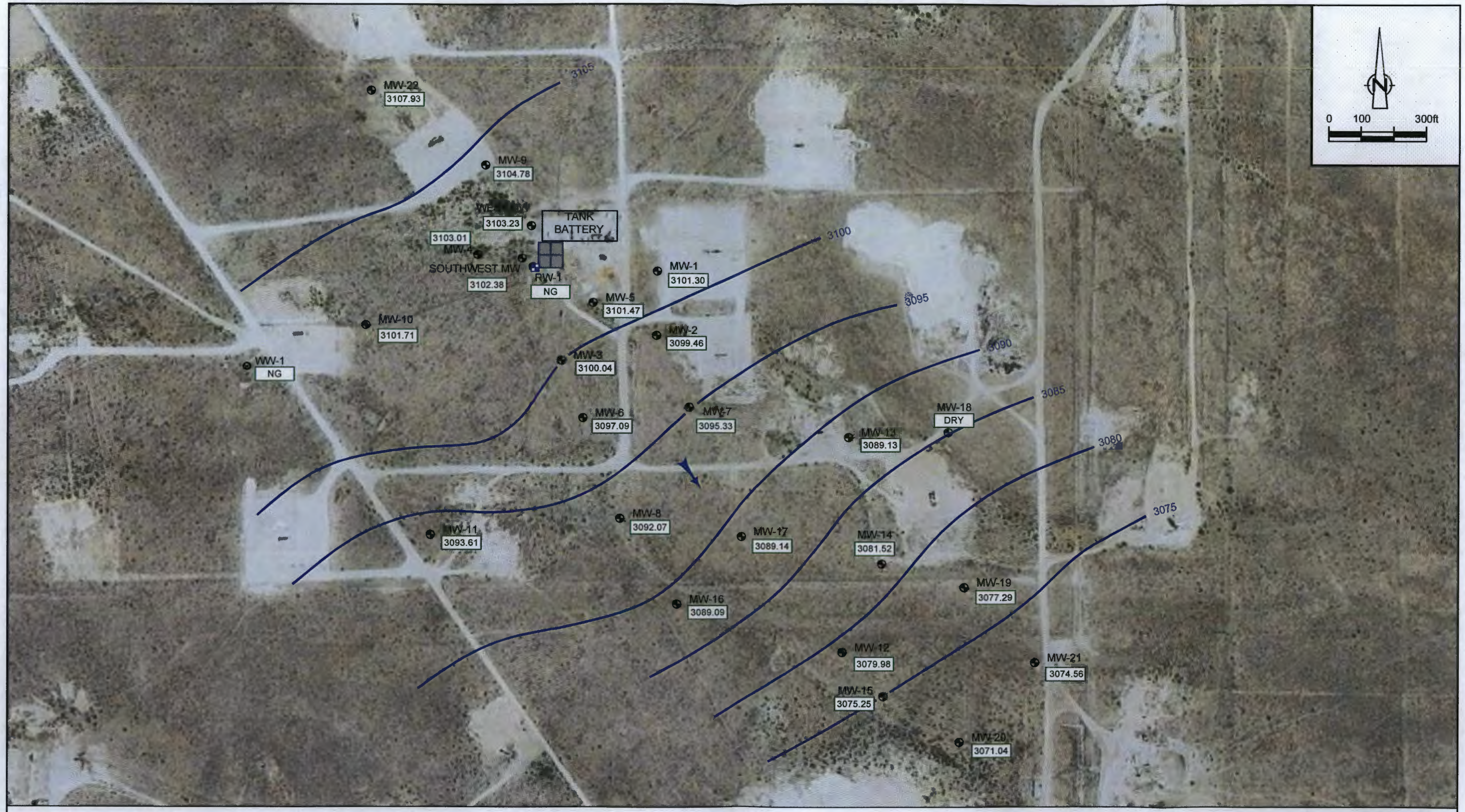
NOTS:

1. GROUNDWATER LEVEL ELEVATIONS WERE GAUGED ON FEBRUARY 15, 2011.

figure 3

GROUNDWATER GRADIENT MAP - FEBRUARY 2011
G.L. ERWIN "A&B" FEDERAL NCT-2 TANK BATTERY
LEA COUNTY, NEW MEXICO
Chevron Environmental Management Company

039124-10(009)GN-BR003 AUG 22/2011



RE: USDA NAIP 2009 Aerial Photograph.

LEGEND

- MONITOR WELL LOCATION
- RECOVERY WELL LOCATION
- WATER WELL LOCATION
- GROUNDWATER RECOVERY SYSTEM
- DIRECTION OF GROUNDWATER FLOW
- 3093.61 GROUNDWATER LEVEL ELEVATION
- NG NOT GAUGED
- GROUNDWATER LEVEL ELEVATION CONTOUR (INTERVAL = 5 FT)

NOTS:

1. GROUNDWATER LEVEL ELEVATIONS WERE GAUGED ON AUGUST 16, 2011.

figure 4

GROUNDWATER GRADIENT MAP - AUGUST 2011
G.L. ERWIN "A&B" FEDERAL NCT-2 TANK BATTERY
LEA COUNTY, NEW MEXICO

Chevron Environmental Management Company

039124-10(009)GN-BR006 SEP 14/2011

RE: USDA NAIP 2009 Aerial Photograph.

LEGEND

- MONITOR WELL LOCATION
- RECOVERY WELL LOCATION
- WATER WELL LOCATION
- GROUNDWATER RECOVERY SYSTEM
- NS NOT SAMPLED

NOTES:

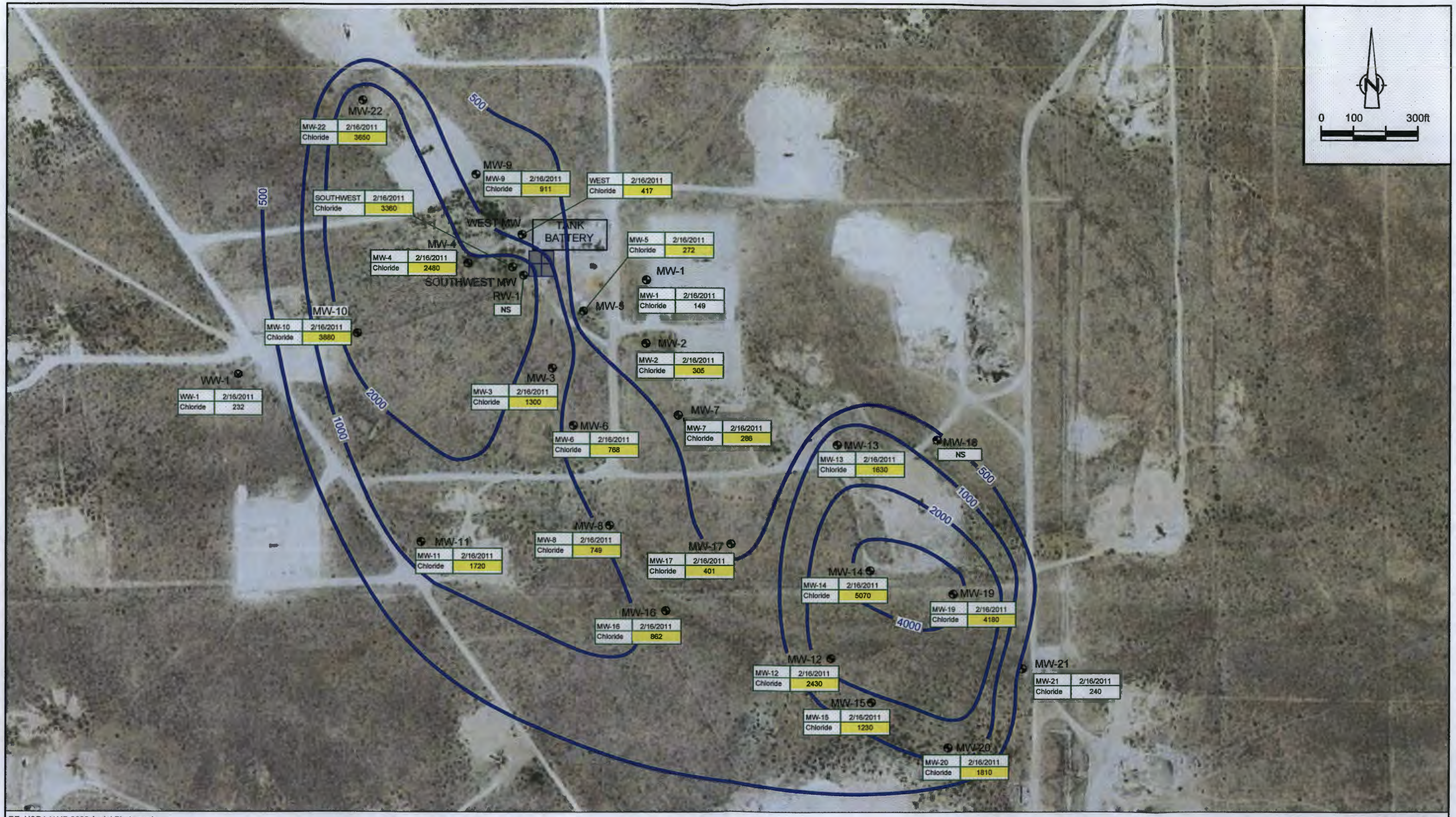
1. CHLORIDE WAS ANALYZED BY EPA METHOD 300.0.
2. HIGHLIGHTED CELLS INDICATE A CONCENTRATION WHICH EXCEEDS THE NMWQCC STANDARDS FOR CHLORIDES (250 mg/L).

SAMPLE DATE
SAMPLE LOCATION — MW-1 | 8/18/2011 | Chloride | 325 — EXCEEDANCE
CONCENTRATIONS IN MG/L

figure 5

CHLORIDE CONCENTRATION MAP - FEBRUARY & AUGUST 2011
G.L. ERWIN "A&B" FEDERAL NCT-2 TANK BATTERY
LEA COUNTY, NEW MEXICO
Chevron Environmental Management Company

039124-10(009)GN-BR004 SEP 19/2011



RE: USDA NAIP 2009 Aerial Photograph.

LEGEND

- MONITOR WELL LOCATION
- RECOVERY WELL LOCATION
- WATER WELL LOCATION
- GROUNDWATER RECOVERY SYSTEM
- NS NOT SAMPLED
- CHLORIDE CONTOUR

NOTES:

1. CHLORIDE WAS ANALYZED BY EPA METHOD 300.0.
2. HIGHLIGHTED CELLS INDICATE A CONCENTRATION WHICH EXCEEDS THE NMWQCC STANDARDS FOR CHLORIDES (250 mg/L).

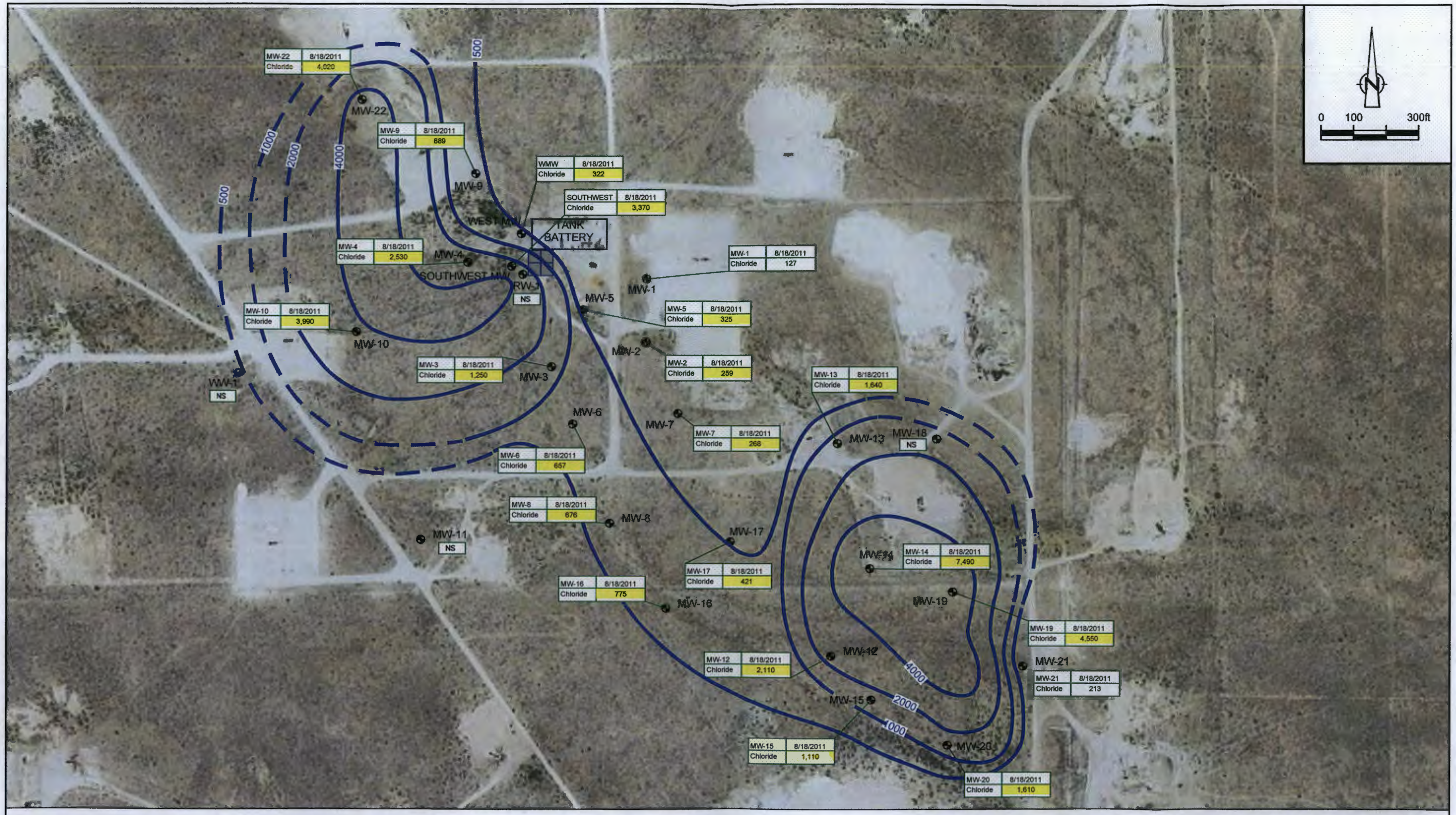
SAMPLE DATE / SAMPLE LOCATION / MW-1 / 7/29/2009 / Chloride / 300 / EXCEEDANCE

CONCENTRATIONS IN MG/L

figure 6

CHLORIDE ISOCONCENTRATION MAP - FEBRUARY 2011
G.L. ERWIN "A&B" FEDERAL NCT-2 TANK BATTERY
LEA COUNTY, NEW MEXICO
Chevron Environmental Management Company

039124-10(009)GN-BR005 SEP 19/2011



LEGEND

- MONITOR WELL LOCATION
- RECOVERY WELL LOCATION
- WATER WELL LOCATION
- GROUNDWATER RECOVERY SYSTEM
- NS NOT SAMPLED
- CHLORIDE CONTOUR

NOTES:

1. CHLORIDE WAS ANALYZED BY EPA METHOD 300.0.
2. HIGHLIGHTED CELLS INDICATE A CONCENTRATION WHICH EXCEEDS THE NMWQCC STANDARDS FOR CHLORIDES (250 mg/L).

SAMPLE DATE / SAMPLE LOCATION — MW-6 | 8/18/2011 | Chloride | 657 — EXCEEDANCE

CONCENTRATIONS IN MG/L

figure 7

CHLORIDE ISOCONCENTRATION MAP - AUGUST 2011
G.L. ERWIN "A&B" FEDERAL NCT-2 TANK BATTERY
LEA COUNTY, NEW MEXICO
Chevron Environmental Management Company

039124-10(009)GN-BR007 SEP 19/2011

TABLE I

GROUNDWATER GAUGING SUMMARY
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
G.L. ERWIN "A & B" FEDERAL NCT-2 TANK BATTERY
SW/4, SE/4, SECTION 35, TOWNSHIP 24 SOUTH, RANGE 37 EAST
LEA COUNTY, NEW MEXICO

WELL TOC [1] elev Diameter (in)	*DATE*	*Depth to Water (ft below TOC)*	*Depth to LNAPL (ft below TOC)*	*LNAPL Thickness (ft)*	*Corrected Groundwater Elev (ft above MSL [2])*	*Total Depth (ft below TOC)*	*Screen Interval (bgs [3])*
MW-01	2/4/98	64.15	---	---	3097.54	87.70	55'-85'
3,161.69	2/7/01	61.40	---	---	3100.29	---	
2	4/30/02	61.43	---	---	3100.26	---	
	10/11/02	61.43	---	---	3100.26	---	
	12/26/02	61.43	---	---	3100.26	---	
	2/17/03	61.42	---	---	3100.27	---	
	5/29/03	61.58	---	---	3100.11	---	
	8/22/03	61.37	---	---	3100.32	---	
	11/5/03	61.35	---	---	3100.34	---	
	2/3/04	61.34	---	---	3100.35	---	
	5/5/04	61.13	---	---	3100.56	---	
	8/2/04	61.08	---	---	3100.61	---	
	11/23/04	60.61	---	---	3101.08	---	
	2/9/05	60.46	---	---	3101.23	---	
	8/4/05	60.62	---	---	3101.07	---	
	2/22/06	60.30	---	---	3101.39	84.60	
	8/24/06	60.46	---	---	3101.23	84.6	
	2/27/07	60.12	---	---	3101.57	---	
	8/23/07	59.88	---	---	3101.81	---	
	2/18/08	59.95	---	---	3101.74	84.59	
	8/11/08	59.99	---	---	3101.70	84.59	
	2/16/09	60.44	---	---	3101.25	---	
	7/27/09	60.57	---	---	3101.12	---	
	2/22/10	60.73	---	---	3100.96	---	
	7/26/10	60.48	---	---	3101.21	---	
	2/15/11	60.42	---	---	3101.27	---	
	8/16/11	60.39	---	---	3101.30	84.60	
MW-02	2/4/98	61.33	---	---	3098.56	72.94	50'-70'
3,159.89	2/7/01	61.45	---	---	3098.44	---	
2	4/30/02	61.47	---	---	3098.42	---	
	10/11/02	61.46	---	---	3098.43	---	
	12/26/02	61.52	---	---	3098.37	---	
	2/17/03	61.53	---	---	3098.36	---	
	5/29/03	61.48	---	---	3098.41	---	
	8/22/03	61.41	---	---	3098.48	---	
	11/5/03	61.38	---	---	3098.51	---	
	2/3/04	61.35	---	---	3098.54	---	
	5/5/04	61.20	---	---	3098.69	---	

TABLE I

GROUNDWATER GAUGING SUMMARY
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
G.L. ERWIN "A & B" FEDERAL NCT-2 TANK BATTERY
SW/4, SE/4, SECTION 35, TOWNSHIP 24 SOUTH, RANGE 37 EAST
LEA COUNTY, NEW MEXICO

WELL TOC [1] elev Diameter (in)	*DATE*	*Depth to Water (ft below TOC)*	*Depth to LNAPL (ft below TOC)*	*LNAPL Thickness (ft)*	*Corrected Groundwater Elev (ft above MSL [2])*	*Total Depth (ft below TOC)*	*Screen Interval (bgs [3])*
MW-02 (cont)	8/2/04	61.11	---	---	3098.78	---	
	11/23/04	60.52	---	---	3099.37	---	
	2/9/05	60.45	---	---	3099.44	---	
	8/4/05	66.60	---	---	3093.29	---	
	2/22/06	60.26	---	---	3099.63	72.81	
	8/24/06	60.42	---	---	3099.47	72.81	
	2/27/07	60.04	---	---	3099.85	---	
	8/23/07	59.80	---	---	3100.09	---	
	2/18/08	59.83	---	---	3100.06	72.82	
	8/11/08	59.89	---	---	3100.00	72.81	
	2/16/09	60.42	---	---	3099.47	---	
	7/27/09	60.55	---	---	3099.34	---	
	2/22/10	60.56	---	---	3099.33	---	
	7/26/10	60.73	---	---	3099.16	---	
	2/15/11	60.50	---	---	3099.39	---	
	8/16/11	60.43	---	---	3099.46	72.81	
MW-03	2/4/98	65.18	---	---	3098.90	73.26	50'-70'
3,164.08	2/7/01	65.22	---	---	3098.86	---	
2	4/30/02	65.11	---	---	3098.97	---	
	10/11/02	65.14	---	---	3098.94	---	
	12/26/02	65.15	---	---	3098.93	---	
	2/17/03	65.15	---	---	3098.93	---	
	5/29/03	65.19	---	---	3098.89	---	
	8/22/03	65.09	---	---	3098.99	---	
	11/5/03	65.09	---	---	3098.99	---	
	2/3/04	65.06	---	---	3099.02	---	
	5/5/04	64.97	---	---	3099.11	---	
	8/2/04	64.54	---	---	3099.54	---	
	11/23/04	64.47	---	---	3099.61	---	
	2/9/05	64.18	---	---	3099.90	---	
	8/4/05	64.30	---	---	3099.78	---	
	2/22/06	63.93	---	---	3100.15	73.14	
	8/24/06	64.09	---	---	3099.99	73.14	
	2/27/07	63.74	---	---	3100.34	---	
	8/23/07	63.54	---	---	3100.54	---	
	2/18/08	63.55	---	---	3100.53	73.13	
	8/11/08	63.61	---	---	3100.47	73.13	
	2/16/09	64.09	---	---	3099.99	---	

TABLE I

GROUNDWATER GAUGING SUMMARY
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
G.L. ERWIN "A & B" FEDERAL NCT-2 TANK BATTERY
SW/4, SE/4, SECTION 35, TOWNSHIP 24 SOUTH, RANGE 37 EAST
LEA COUNTY, NEW MEXICO

WELL TOC [1] elev Diameter (in)	*DATE*	*Depth to Water (ft below TOC)*	*Depth to LNAPL (ft below TOC)*	*LNAPL Thickness (ft)*	*Corrected Groundwater Elev (ft above MSL [2])*	*Total Depth (ft below TOC)*	*Screen Interval (bgs [3])*
MW-03 (cont)	7/27/09	64.22	---	---	3099.86	---	
	2/22/10	64.15	---	---	3099.93	---	
	7/26/10	64.46	---	---	3099.62	---	
	2/15/11	64.16	---	---	3099.92	73.15	
	8/16/11	64.04	---	---	3100.04	73.13	
MW-04	2/4/98	63.94	---	---	3101.71	73.31	50'-70'
3,165.65	10/19/00	63.80	---	---	3101.85	---	
2	2/7/01	63.78	---	---	3101.87	---	
	4/30/02	63.72	---	---	3101.93	---	
	10/11/02	63.74	---	---	3101.91	---	
	12/26/02	63.74	---	---	3101.91	---	
	2/17/03	63.74	---	---	3101.91	---	
	5/29/03	63.83	---	---	3101.82	---	
	8/22/03	63.71	---	---	3101.94	---	
	11/5/03	63.68	---	---	3101.97	---	
	2/3/04	63.64	---	---	3102.01	---	
	5/5/04	63.55	---	---	3102.10	---	
	8/2/04	63.45	---	---	3102.20	---	
	11/23/04	62.91	---	---	3102.74	---	
	2/9/05	62.83	---	---	3102.82	---	
	8/4/05	63.12	---	---	3102.53	---	
	2/23/06	62.80	---	---	3102.85	73.11	
	8/25/06	62.97	---	---	3102.68	73.11	
	2/27/07	62.60	---	---	3103.05	---	
	8/23/07	62.33	---	---	3103.32	---	
	2/18/08	62.35	---	---	3103.30	73.1	
	8/11/08	62.38	---	---	3103.27	73.11	
	2/16/09	62.73	---	---	3102.92	---	
	7/27/09	62.85	---	---	3102.80	---	
	2/22/10	62.72	---	---	3102.93	---	
	7/26/10	62.99	---	---	3102.66	---	
	2/15/11	62.70	---	---	3102.95	---	
	8/16/11	62.64	---	---	3103.01	73.11	
MW-05	2/4/98	60.33	---	---	3100.42	73.10	50'-70'
3,160.75	10/19/00	60.25	---	---	3100.50	---	
2	2/7/01	60.58	---	---	3100.17	---	
	4/30/02	62.27	---	---	3098.48	---	

TABLE I

GROUNDWATER GAUGING SUMMARY
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
G.L. ERWIN "A & B" FEDERAL NCT-2 TANK BATTERY
SW/4, SE/4, SECTION 35, TOWNSHIP 24 SOUTH, RANGE 37 EAST
LEA COUNTY, NEW MEXICO

WELL TOC [1] elev Diameter (in)	*DATE*	*Depth to Water (ft below TOC)*	*Depth to LNAPL (ft below TOC)*	*LNAPL Thickness (ft)*	*Corrected Groundwater Elev (ft above MSL [2])*	*Total Depth (ft below TOC)*	*Screen Interval (bgs [3])*
MW-05 (cont)	10/11/02	60.29	---	---	3100.46	---	
	12/26/02	60.29	---	---	3100.46	---	
	2/17/03	60.30	---	---	3100.45	---	
	5/29/03	60.33	---	---	3100.42	---	
	8/22/03	60.24	---	---	3100.51	---	
	11/5/03	60.24	---	---	3100.51	---	
	2/3/04	60.20	---	---	3100.55	---	
	5/5/04	60.04	---	---	3100.71	---	
	8/2/04	59.97	---	---	3100.78	---	
	11/23/04	59.51	---	---	3101.24	---	
	2/9/05	59.32	---	---	3101.43	---	
	8/4/05	59.55	---	---	3101.20	---	
	2/22/06	59.22	---	---	3101.53	72.95	
	8/24/06	59.39	---	---	3101.36	72.95	
	2/27/07	59.03	---	---	3101.72	---	
	8/23/07	58.84	---	---	3101.91	---	
	2/18/08	58.83	---	---	3101.92	72.95	
	8/11/08	58.84	---	---	3101.91	72.95	
	2/16/09	59.36	---	---	3101.39	---	
	7/27/09	59.50	---	---	3101.25	---	
	2/22/10	59.35	---	---	3101.40	---	
	7/26/10	59.72	---	---	3101.03	---	
	2/15/11			NG		---	
	8/16/11	59.28	---	---	3101.47	72.95	
MW-06	2/7/01	68.00	---	---	3096.18	77.24	59'-74'
3,164.18	4/30/02	68.10	---	---	3096.08	---	
2	10/11/02	68.04	---	---	3096.14	---	
	12/26/02	68.03	---	---	3096.15	---	
	2/17/03	68.03	---	---	3096.15	---	
	5/29/03	68.38	---	---	3095.80	---	
	8/22/03	67.99	---	---	3096.19	---	
	11/5/03	67.99	---	---	3096.19	---	
	2/3/04	67.92	---	---	3096.26	---	
	5/5/04	67.88	---	---	3096.30	---	
	8/2/04	67.78	---	---	3096.40	---	
	11/23/04	67.31	---	---	3096.87	---	
	2/9/05	67.17	---	---	3097.01	---	
	8/4/05	63.13	---	---	3101.05	---	

TABLE I

GROUNDWATER GAUGING SUMMARY
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
G.L. ERWIN "A & B" FEDERAL NCT-2 TANK BATTERY
SW/4, SE/4, SECTION 35, TOWNSHIP 24 SOUTH, RANGE 37 EAST
LEA COUNTY, NEW MEXICO

WELL TOC [1] elev Diameter (in)	DATE	Depth to Water (ft below TOC)	Depth to LNAPL (ft below TOC)	LNAPL Thickness (ft)	Corrected Groundwater Elev (ft above MSL [2])	Total Depth (ft below TOC)	Screen Interval (bgs [3])
MW-06 (cont)	2/22/06	66.72	---	---	3097.46	77.00	
	8/24/06	66.93	---	---	3097.25	77.00	
	2/27/07	66.58	---	---	3097.60	---	
	8/27/07	66.35	---	---	3097.83	---	
	2/18/08	66.35	---	---	3097.83	77.00	
	8/11/08	66.39	---	---	3097.79	77.00	
	2/16/09	66.94	---	---	3097.24	---	
	7/27/09	67.04	---	---	3097.14	---	
	2/22/10	67.10	---	---	3097.08	---	
	7/26/10	67.32	---	---	3096.86	---	
	2/15/11	67.15	---	---	3097.03	77.05	
	8/16/11	67.09	---	---	3097.09	77.00	
MW-07	2/7/01	67.25	---	---	3094.81	73.45	55'-70'
3,162.06	4/30/02	67.50	---	---	3094.56	---	
2	10/11/02	67.53	---	---	3094.53	---	
	12/26/02	67.53	---	---	3094.53	---	
	2/17/03	67.53	---	---	3094.53	---	
	5/29/03	67.61	---	---	3094.45	---	
	8/22/03	67.49	---	---	3094.57	---	
	11/5/03	67.47	---	---	3094.59	---	
	2/3/04	67.46	---	---	3094.60	---	
	5/5/04	67.44	---	---	3094.62	---	
	8/2/04	67.34	---	---	3094.72	---	
	11/23/04	67.02	---	---	3095.04	---	
	2/9/05	67.74	---	---	3094.32	---	
	8/4/05	66.62	---	---	3095.44	---	
	2/22/06	66.31	---	---	3095.75	72.56	
	8/24/06	66.37	---	---	3095.69	72.56	
	2/27/07	66.05	---	---	3096.01	---	
	8/23/07	65.87	---	---	3096.19	---	
	2/18/08	65.88	---	---	3096.18	72.55	
	8/11/08	65.91	---	---	3096.15	72.55	
	2/16/09	66.35	---	---	3095.71	---	
	7/27/09	66.51	---	---	3095.55	---	
	2/22/10	66.70	---	---	3095.36	---	
	7/26/10	66.86	---	---	3095.20	---	
	2/15/11	66.74	---	---	3095.32	72.22	
	8/16/11	66.73	---	---	3095.33	72.30	

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GROUNDWATER GAUGING SUMMARY
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
G.L. ERWIN "A & B" FEDERAL NCT-2 TANK BATTERY
SW/4, SE/4, SECTION 35, TOWNSHIP 24 SOUTH, RANGE 37 EAST
LEA COUNTY, NEW MEXICO

WELL TOC [1] elev Diameter (in)	*DATE*	*Depth to Water (ft below TOC)*	*Depth to LNAPL (ft below TOC)*	*LNAPL Thickness (ft)*	*Corrected Groundwater Elev (ft above MSL [2])*	*Total Depth (ft below TOC)*	*Screen Interval (bgs [3])*
MW-08	2/3/99	68.21	---	---	3091.45	70.66	50'-70'
3,159.66	2/7/01	68.30	---	---	3091.36	---	
2	4/30/02	68.42	---	---	3091.24	---	
	10/11/02	68.30	---	---	3091.36	---	
	12/26/02	68.30	---	---	3091.36	---	
	2/17/03	68.30	---	---	3091.36	---	
	5/29/03	68.36	---	---	3091.30	---	
	8/22/03	68.26	---	---	3091.40	---	
	11/5/03	68.26	---	---	3091.40	---	
	2/3/04	68.24	---	---	3091.42	---	
	5/5/04	68.24	---	---	3091.42	---	
	8/2/04	68.17	---	---	3091.49	---	
	11/23/04	67.72	---	---	3091.94	---	
	2/9/05	67.41	---	---	3092.25	---	
	8/4/05	67.39	---	---	3092.27	---	
	2/22/06	67.04	---	---	3092.62	73.40	
	8/24/06	67.29	---	---	3092.37	73.40	
	2/27/07	66.87	---	---	3092.79	---	
	8/23/07	66.77	---	---	3092.89	---	
	2/18/08	66.79	---	---	3092.87	73.40	
	8/11/08	66.81	---	---	3092.85	73.40	
	2/16/09	67.31	---	---	3092.35	---	
	7/27/09	67.40	---	---	3092.26	---	
	2/22/10	67.53	---	---	3092.13	---	
	7/26/10	67.65	---	---	3092.01	---	
	2/15/11	67.65	---	---	3092.01	73.43	
	8/16/11	67.59	---	---	3092.07	73.40	
MW-09	4/30/02	63.65	---	---	-61.65	70.39	55'-70'
3,167.07	10/11/02	63.59	---	---	-61.59	---	
2	12/26/02	63.59	---	---	-61.59	---	
	2/17/03	63.60	---	---	-61.60	---	
	5/29/03	63.73	---	---	-61.73	---	
	8/22/03	63.56	---	---	-61.56	---	
	11/5/03	63.55	---	---	-61.55	---	
	2/3/04	63.47	---	---	-61.47	---	
	5/5/04	63.27	---	---	-61.27	---	
	8/2/04	63.24	---	---	-61.24	---	
	11/23/04	62.40	---	---	-60.40	---	

TABLE I

GROUNDWATER GAUGING SUMMARY
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
G.L. ERWIN "A & B" FEDERAL NCT-2 TANK BATTERY
SW/4, SE/4, SECTION 35, TOWNSHIP 24 SOUTH, RANGE 37 EAST
LEA COUNTY, NEW MEXICO

WELL TOC [1] elev Diameter (in)	*DATE*	*Depth to Water (ft below TOC)*	*Depth to LNAPL (ft below TOC)*	*LNAPL Thickness (ft)*	*Corrected Groundwater Elev (ft above MSL [2])*	*Total Depth (ft below TOC)*	*Screen Interval (bgs [3])*
MW-09 (cont)	2/9/05	62.50	---	---	-60.50	---	
	8/4/05	62.89	---	---	-60.89	---	
	2/23/06	62.48	---	---	-60.48	69.60	
	8/25/06	62.68	---	---	-60.68	69.6	
	2/27/07	62.23	---	---	-60.23	---	
	8/23/07	61.88	---	---	-59.88	---	
	2/18/08	61.90	---	---	-59.90	69.59	
	8/11/08	61.91	---	---	-59.91	69.59	
	2/16/09	62.33	---	---	-60.33	---	
	7/27/09	62.42	---	---	-60.42	---	
	2/22/10	62.33	---	---	-60.33	---	
	7/26/10	62.53	---	---	-60.53	---	
	2/15/11	62.25	---	---	-60.25	---	
	8/16/11	62.29	---	---	-60.29	69.59	
MW-10	4/30/02	70.35	---	---	3100.64	69.16	54'-69'
3,170.99	10/11/02	70.49	---	---	3100.50	---	
2	12/26/02	70.50	---	---	3100.49	---	
	2/17/03	70.50	---	---	3100.49	---	
	5/29/03	70.37	---	---	3100.62	---	
	8/22/03	70.47	---	---	3100.52	---	
	11/5/03	70.49	---	---	3100.50	---	
	2/3/04	70.43	---	---	3100.56	---	
	5/5/04	70.38	---	---	3100.61	---	
	8/2/04	70.26	---	---	3100.73	---	
	11/23/04	69.78	---	---	3101.21	---	
	2/9/05			NG		---	
	8/4/05	69.89	---	---	3101.10	---	
	2/22/06	69.59	---	---	3101.40	71.95	
	8/25/06	69.65	---	---	3101.34	71.95	
	2/27/07	69.29	---	---	3101.70	---	
	8/23/07	69.06	---	---	3101.93	---	
	2/18/08	69.06	---	---	3101.93	71.94	
	8/11/08	69.05	---	---	3101.94	71.94	
	2/16/09	69.74	---	---	3101.25	---	
	7/27/09	69.27	---	---	3101.72	---	
	2/22/10	69.30	---	---	3101.69	---	
	7/26/10	69.40	---	---	3101.59	---	
	2/15/11			NG		---	

TABLE I

GROUNDWATER GAUGING SUMMARY
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
G.L. ERWIN "A & B" FEDERAL NCT-2 TANK BATTERY
SW/4, SE/4, SECTION 35, TOWNSHIP 24 SOUTH, RANGE 37 EAST
LEA COUNTY, NEW MEXICO

WELL TOC [1] elev Diameter (in)	*DATE*	*Depth to Water (ft below TOC)*	*Depth to LNAPL (ft below TOC)*	*LNAPL Thickness (ft)*	*Corrected Groundwater Elev (ft above MSL [2])*	*Total Depth (ft below TOC)*	*Screen Interval (bgs [3])*
MW-10 (cont)	8/16/11	69.28	---	---	3101.71	71.95	
MW-11	4/30/02			DRY		72.78	58'-73'
3,168.24	10/11/02			DRY		---	
2	12/26/02			DRY		---	
	2/17/03			DRY		---	
	5/29/03			DRY		---	
	8/22/03			DRY		---	
	11/5/03			DRY		---	
	2/3/04			DRY		---	
	5/5/04			DRY		---	
	8/2/04			DRY		---	
	11/23/04			DRY		---	
	2/9/05			DRY		---	
	8/4/05	61.91	---	---	3106.33	---	
	2/22/06	74.71	---	---	3093.53	75.45	
	8/24/06	74.71	---	---	3093.53	75.45	
	2/27/07	74.51	---	---	3,093.73	---	
	8/23/07	74.38	---	---	3,093.86	---	
	2/18/08	74.21	---	---	3,094.03	75.45	
	8/11/08	74.38	---	---	3093.86	75.44	
	2/16/09	74.46	---	---	3093.78	---	
	7/27/09	74.45	---	---	3093.79	---	
	2/22/10	74.52	---	---	3093.72	---	
	7/26/10	74.61	---	---	3093.63	---	
	2/15/11	74.56	---	---	3093.68	75.50	
	8/16/11	74.63	---	---	3093.61	75.50	
MW-12	4/30/02	72.80	---	---	3079.68	74.37	59'-74'
3,152.48	10/11/02	72.81	---	---	3079.67	---	
2	12/26/02	72.82	---	---	3079.66	---	
	2/17/03	72.82	---	---	3079.66	---	
	5/29/03	72.77	---	---	3079.71	---	
	8/22/03	72.81	---	---	3079.67	---	
	11/5/03	72.81	---	---	3079.67	---	
	2/3/04	72.83	---	---	3079.65	---	
	5/5/04	72.78	---	---	3079.70	---	
	8/2/04	72.81	---	---	3079.67	---	
	11/23/04	72.69	---	---	3079.79	---	

TABLE I

GROUNDWATER GAUGING SUMMARY
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
G.L. ERWIN "A & B" FEDERAL NCT-2 TANK BATTERY
SW/4, SE/4, SECTION 35, TOWNSHIP 24 SOUTH, RANGE 37 EAST
LEA COUNTY, NEW MEXICO

WELL TOC [1] elev Diameter (in)	*DATE*	*Depth to Water (ft below TOC)*	*Depth to LNAPL (ft below TOC)*	*LNAPL Thickness (ft)*	*Corrected Groundwater Elev (ft above MSL [2])*	*Total Depth (ft below TOC)*	*Screen Interval (bgs [3])*
MW-12 (cont)	2/9/05	72.83	---	---	3079.65	---	
	8/4/05	72.48	---	---	3080.00	---	
	2/22/06	72.15	---	---	3080.33	77.60	
	8/24/06	71.91	---	---	3080.57	77.60	
	2/27/07	71.75	---	---	3080.73	---	
	8/23/07	71.51	---	---	3080.97	---	
	2/18/08	71.42	---	---	3081.06	77.60	
	8/11/08	71.46	---	---	3081.02	77.60	
	2/16/09	73.13	---	---	3079.35	---	
	7/27/09	71.59	---	---	3080.89	---	
	2/22/10	71.94	---	---	3080.54	---	
	7/26/10	72.21	---	---	3080.27	---	
	2/15/11	72.36	---	---	3080.12	77.57	
	8/16/11	72.50	---	---	3079.98	77.67	
MW-13	4/30/02	66.97	---	---	3087.95	67.90	53'-68'
3,154.92	10/11/02	66.38	---	---	3088.54	---	
2	12/26/02	66.37	---	---	3088.55	---	
	2/17/03	66.37	---	---	3088.55	---	
	5/29/03	66.68	---	---	3088.24	---	
	8/22/03	67.06	---	---	3087.86	---	
	11/5/03	67.36	---	---	3087.56	---	
	2/3/04	67.11	---	---	3087.81	---	
	5/5/04	67.05	---	---	3087.87	---	
	8/2/04	67.21	---	---	3087.71	---	
	11/23/04	66.82	---	---	3088.10	---	
	2/9/05	66.50	---	---	3088.42	---	
	8/4/05	66.11	---	---	3088.81	---	
	2/22/06	65.73	---	---	3089.19	70.54	
	8/24/06	65.45	---	---	3089.47	70.54	
	2/27/07	65.22	---	---	3089.70	---	
	8/23/07	65.06	---	---	3089.86	---	
	2/18/08	65.10	---	---	3089.82	70.54	
	8/11/08	65.12	---	---	3089.80	70.54	
	2/16/09	64.74	---	---	3090.18	---	
	7/27/09	64.89	---	---	3090.03	---	
	2/22/10	65.19	---	---	3089.73	---	
	7/26/10	65.45	---	---	3089.47	---	
	2/15/11	65.60	---	---	3089.32	70.50	

TABLE I

GROUNDWATER GAUGING SUMMARY
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
G.L. ERWIN "A & B" FEDERAL NCT-2 TANK BATTERY
SW/4, SE/4, SECTION 35, TOWNSHIP 24 SOUTH, RANGE 37 EAST
LEA COUNTY, NEW MEXICO

WELL TOC [1] elev Diameter (in)	*DATE*	*Depth to Water (ft below TOC)*	*Depth to LNAPL (ft below TOC)*	*LNAPL Thickness (ft)*	*Corrected Groundwater Elev (ft above MSL [2])*	*Total Depth (ft below TOC)*	*Screen Interval (bgs [3])*
MW-13 (cont)	8/16/11	65.79	---	---	3089.13	70.50	
MW-14	11/5/03	71.60	---	---	3080.31	92.43	79.5'-89.5'
3,151.91	2/3/04	71.62	---	---	3080.29	---	
2	5/5/04	71.67	---	---	3080.24	---	
	8/2/04	71.69	---	---	3080.22	---	
	11/23/04	71.60	---	---	3080.31	---	
	2/9/05	71.30	---	---	3080.61	---	
	8/4/05	70.90	---	---	3081.01	---	
	2/22/06	70.49	---	---	3081.42	92.30	
	8/24/06	70.24	---	---	3081.67	92.3	
	2/27/07	70.05	---	---	3081.86	---	
	8/23/07	69.78	---	---	3082.13	---	
	2/18/08	69.68	---	---	3082.23	92.29	
	8/11/08	69.72	---	---	3082.19	92.30	
	2/16/09	69.31	---	---	3082.60	---	
	7/27/09	69.37	---	---	3082.54	---	
	2/22/10	69.65	---	---	3082.26	---	
	7/26/10	69.95	---	---	3081.96	---	
	2/15/11	70.20	---	---	3081.71	92.15	
	8/16/11	70.39	---	---	3081.52	89.50	
MW-15	11/5/03	DRY	---	---	DRY	87.45	64.5'-84.5'
3,152.48	2/3/04	DRY	---	---	DRY	---	
2	5/5/04	DRY	---	---	DRY	---	
	8/2/04	DRY	---	---	DRY	---	
	11/23/04	DRY	---	---	DRY	---	
	2/9/05	DRY	---	---	DRY	---	
	8/4/05	86.91	---	---	3065.57	---	
	2/22/06	86.54	---	---	3065.94	87.40	
	8/24/06	86.34	---	---	3065.66	87.40	
	2/27/07	85.73	---	---	3066.75	---	
	8/23/07	85.26	---	---	3067.22	---	
	2/18/08	81.90	---	---	3070.58	87.40	
	8/11/08	81.99	---	---	3070.49	87.42	
	2/16/09	77.83	---	---	3074.65	---	
	7/27/09	77.19	---	---	3075.29	---	
	2/22/10	77.06	---	---	3075.42	---	
	7/26/10	77.05	---	---	3075.43	---	

TABLE I

GROUNDWATER GAUGING SUMMARY
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
G.L. ERWIN "A & B" FEDERAL NCT-2 TANK BATTERY
SW/4, SE/4, SECTION 35, TOWNSHIP 24 SOUTH, RANGE 37 EAST
LEA COUNTY, NEW MEXICO

WELL TOC [1] elev Diameter (in)	*DATE*	*Depth to Water (ft below TOC)*	*Depth to LNAPL (ft below TOC)*	*LNAPL Thickness (ft)*	*Corrected Groundwater Elev (ft above MSL [2])*	*Total Depth (ft below TOC)*	*Screen Interval (bgs [3])*
MW-15 (cont)	2/15/11	77.08	---	---	3075.40	87.50	
	8/16/11	77.23	---	---	3075.25	84.50	
MW-16	11/5/03	65.68	---	---	3091.57	77.22	59.5'-74.5'
3,157.25	2/3/04	68.67	---	---	3088.58	---	
2	5/5/04	68.69	---	---	3088.56	---	
	8/2/04	68.65	---	---	3088.60	---	
	11/23/04	68.10	---	---	3089.15	---	
	2/9/05	67.53	---	---	3089.72	---	
	8/4/05	67.77	---	---	3089.48	---	
	2/22/06	67.24	---	---	3090.01	74.42	
	8/24/06	67.66	---	---	3089.59	74.42	
	2/27/07	67.09	---	---	3090.16	---	
	8/23/07	67.10	---	---	3090.15	---	
	2/18/08	67.03	---	---	3090.22	74.42	
	8/11/08	67.09	---	---	3090.16	74.42	
	2/16/09	67.85	---	---	3089.40	---	
	7/27/09	67.92	---	---	3089.33	---	
	2/22/10	68.10	---	---	3089.15	---	
	7/26/10	68.20	---	---	3089.05	---	
	2/15/11	68.18	---	---	3089.07	74.47	
	8/16/11	68.16	---	---	3089.09	74.50	
MW-17	11/5/03	69.51	---	---	3088.86	79.37	57'-77'
3,158.37	2/3/04	69.53	---	---	3088.84	---	
2	5/5/04	69.52	---	---	3088.85	---	
	8/2/04	70.12	---	---	3088.25	---	
	11/23/04	69.31	---	---	3089.06	---	
	2/9/05	69.04	---	---	3089.33	---	
	8/4/05	68.90	---	---	3089.47	---	
	2/22/06	68.72	---	---	3089.65	80.10	
	8/24/06	68.78	---	---	3089.59	80.10	
	2/27/07	68.55	---	---	3089.82	---	
	8/23/07	68.50	---	---	3089.87	---	
	2/18/08	68.41	---	---	3089.96	80.10	
	8/11/08	68.43	---	---	3089.94	80.10	
	2/16/09	68.87	---	---	3089.50	---	
	7/27/09	68.99	---	---	3089.38	---	
	2/22/10	69.14	---	---	3089.23	---	

TABLE I

GROUNDWATER GAUGING SUMMARY
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
G.L. ERWIN "A & B" FEDERAL NCT-2 TANK BATTERY
SW/4, SE/4, SECTION 35, TOWNSHIP 24 SOUTH, RANGE 37 EAST
LEA COUNTY, NEW MEXICO

WELL TOC [1] elev Diameter (in)	*DATE*	*Depth to Water (ft below TOC)*	*Depth to LNAPL (ft below TOC)*	*LNAPL Thickness (ft)*	*Corrected Groundwater Elev (ft above MSL [2])*	*Total Depth (ft below TOC)*	*Screen Interval (bgs [3])*
	7/26/10	69.22	---	---	3089.15	---	
	2/15/11	69.23	---	---	3089.14	79.82	
	8/16/11	69.23	---	---	3089.14	79.96	
MW-18	11/23/04			DRY		76.98	54.5'-74.5
3,151.08	2/9/05			DRY		---	
2	8/4/05			DRY		---	
	2/22/06			DRY		78.43	
	8/24/06			DRY		78.43	
	2/27/07			DRY		---	
	8/23/07			DRY		---	
	2/18/08			DRY		78.44	
	8/11/08			DRY		78.44	
	2/16/09			DRY		---	
	7/27/09			DRY		---	
	2/22/10			DRY		---	
	7/26/10			DRY		---	
	2/15/11			DRY		---	
	8/16/11			DRY		74.50	
MW-19	11/23/04	72.63	---	---	3075.16	104.41	82.5'-102.5'
3,147.79	2/9/05	72.36	---	---	3075.43	---	
2	8/4/05	72.18	---	---	3075.61	---	
	2/22/06	71.83	---	---	3075.96	105.55	
	8/24/06	71.57	---	---	3076.22	105.55	
	2/27/07	71.28	---	---	3,076.51	---	
	8/23/07	70.75	---	---	3,077.04	---	
	2/18/08	70.29	---	---	3,077.50	105.53	
	8/11/08	70.33	---	---	3077.46	105.50	
	2/16/09	71.54	---	---	3076.25	---	
	7/27/09	70.71	---	---	3077.08	---	
	2/22/10	69.91	---	---	3077.88	---	
	7/26/10	70.15	---	---	3077.64	---	
	2/15/11	70.26	---	---	3077.53	105.60	
	8/16/11	70.50	---	---	3077.29	102.50	
MW-20	11/23/04	81.81	---	---	3069.75	94.94	72.5'-92.5'
3,151.56	2/9/05	81.85	---	---	3069.71	---	
2	8/4/05	81.81	---	---	3069.75	---	

TABLE I

GROUNDWATER GAUGING SUMMARY
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
G.L. ERWIN "A & B" FEDERAL NCT-2 TANK BATTERY
SW/4, SE/4, SECTION 35, TOWNSHIP 24 SOUTH, RANGE 37 EAST
LEA COUNTY, NEW MEXICO

WELL TOC [1] elev Diameter (in)	*DATE*	*Depth to Water (ft below TOC)*	*Depth to LNAPL (ft below TOC)*	*LNAPL Thickness (ft)*	*Corrected Groundwater Elev (ft above MSL [2])*	*Total Depth (ft below TOC)*	*Screen Interval (bgs [3])*
MW-20 (cont)	2/22/06	81.71	---	---	3069.85	92.23	
	8/24/06	81.66	---	---	3069.90	92.23	
	2/27/07	81.39	---	---	3,070.17	---	
	8/23/07	81.20	---	---	3,070.36	---	
	2/18/08	80.93	---	---	3,070.63	92.21	
	8/11/08	80.96	---	---	3070.60	92.20	
	2/16/09	80.58	---	---	3070.98	---	
	7/27/09	80.42	---	---	3071.14	---	
	2/22/10	80.35	---	---	3071.21	---	
	7/26/10	80.39	---	---	3071.17	---	
	2/15/11	80.38	---	---	3071.18	90.40	
	8/16/11	80.52	---	---	3071.04	92.50	
MW-21	11/20/07	71.05	---	---	3074.82	99.00	67'-97'
3,145.87	2/18/08	70.96	---	---	3074.91	98.60	
2	8/11/08	71.01	---	---	3074.86	98.60	
	2/16/09	70.78	---	---	3075.09	---	
	7/27/09	70.71	---	---	3075.16	---	
	2/22/10	70.83	---	---	3075.04	---	
	7/26/10	71.03	---	---	3074.84	---	
	2/15/11	71.04	---	---	3074.83	97.68	
	8/16/11	71.31	---	---	3074.56	97.00	
MW-22	11/20/07	62.35	---	---	3108.29	68.95	46.5'-66.5'
3,170.64	2/18/08	62.59	---	---	3108.05	68.60	
2	8/11/08	62.62	---	---	3108.02	68.60	
	2/16/09	62.68	---	---	3107.96	---	
	7/27/09	62.90	---	---	3107.74	---	
	2/22/10	62.74	---	---	3107.90	---	
	7/26/10	62.80	---	---	3107.84	---	
	2/15/11	62.59	---	---	3108.05	---	
	8/16/11	62.71	---	---	3107.93	68.60	
WW-1	4/30/02	70.21	---	---	3100.00	---	--
3,170.21	10/11/02	69.71	---	---	3100.50	---	
	12/26/02	69.70	---	---	3100.51	---	
	2/17/03	69.70	---	---	3100.51	---	
	5/29/03	67.37	---	---	3102.84	---	
	8/22/03	70.27	---	---	3099.94	---	

TABLE I

GROUNDWATER GAUGING SUMMARY
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
G.L. ERWIN "A & B" FEDERAL NCT-2 TANK BATTERY
SW/4, SE/4, SECTION 35, TOWNSHIP 24 SOUTH, RANGE 37 EAST
LEA COUNTY, NEW MEXICO

WELL TOC [1] elev Diameter (in)	*DATE*	*Depth to Water (ft below TOC)*	*Depth to LNAPL (ft below TOC)*	*LNAPL Thickness (ft)*	*Corrected Groundwater Elev (ft above MSL [2])*	*Total Depth (ft below TOC)*	*Screen Interval (bgs [3])*
	11/5/03	70.23	---	---	3099.98	---	
WW-1 (cont)	2/3/04	70.31	---	---	3099.90	---	
	5/5/04	70.23	---	---	3099.98	---	
	8/2/04	69.47	---	---	3100.74	---	
	11/23/04	69.92	---	---	3100.29	---	
	2/9/05	69.75	---	---	3100.46	---	
	8/4/05	69.89	---	---	3100.32	---	
	2/22/06	69.51	---	---	3100.70	---	
	8/25/06	69.50	---	---	3100.71	192.00	
	2/27/07	69.20	---	---	3101.01	---	
	8/23/07	68.99	---	---	3101.22	---	
	2/18/08	69.00	---	---	3101.21	192.00	
	8/11/08	68.95	---	---	3101.26	191.98	
	2/16/09	69.00	---	---	3101.21	---	
	7/27/09	69.00	---	---	3101.21	---	
	2/22/10	68.89	---	---	3101.32	---	
	7/26/10			NG		---	
	2/15/11			NG		---	
	8/16/11			NG		---	
West MW	8/22/97	62.58	---	---	3101.86	70.43	--
3,164.44	2/4/98	62.50	---	---	3101.94	---	
2	10/19/00	62.37	---	---	3102.07	---	
	2/7/01	62.43	---	---	3102.01	---	
	4/30/02	62.37	---	---	3102.07	---	
	10/11/02	62.35	---	---	3102.09	---	
	12/26/02	62.34	---	---	3102.10	---	
	2/17/03	62.34	---	---	3102.10	---	
	5/29/03	62.22	---	---	3102.22	---	
	8/22/03	62.35	---	---	3102.09	---	
	11/5/03	62.31	---	---	3102.13	---	
	2/3/04	62.27	---	---	3102.17	---	
	5/5/04	62.11	---	---	3102.33	---	
	8/2/04	62.01	---	---	3102.43	---	
	11/23/04	61.40	---	---	3103.04	---	
	2/9/05	61.30	---	---	3103.14	---	
	8/4/05	61.61	---	---	3102.83	---	
	2/23/06	61.24	---	---	3103.20	67.28	
	8/25/06	61.43	---	---	3103.01	67.28	

TABLE I

GROUNDWATER GAUGING SUMMARY
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
G.L. ERWIN "A & B" FEDERAL NCT-2 TANK BATTERY
SW/4, SE/4, SECTION 35, TOWNSHIP 24 SOUTH, RANGE 37 EAST
LEA COUNTY, NEW MEXICO

WELL TOC [1] elev Diameter (in)	*DATE*	*Depth to Water (ft below TOC)*	*Depth to LNAPL (ft below TOC)*	*LNAPL Thickness (ft)*	*Corrected Groundwater Elev (ft above MSL [2])*	*Total Depth (ft below TOC)*	*Screen Interval (bgs [3])*
	2/27/07	61.03	---	---	3103.41	---	
West MW (cont)	8/23/07	60.74	---	---	3103.70	---	
	2/18/08	60.97	---	---	3103.47	67.28	
	8/11/08	61.06	---	---	3103.38	67.28	
	2/16/09	61.27	---	---	3103.17	---	
	7/27/09	61.42	---	---	3103.02	---	
	2/22/10	61.26	---	---	3103.18	---	
	7/26/10	61.62	---	---	3102.82	---	
	2/15/11	61.20	---	---	3103.24	---	
	8/16/11	61.21	---	---	3103.23	67.28	
Southwest MW	8/22/97	63.25	---	---	3101.29	70.45	--
3,164.54	2/4/98	63.21	---	---	3101.33	---	
2	10/19/00	63.06	---	---	3101.48	---	
	2/7/01	63.10	---	---	3101.44	---	
	4/30/02	63.06	---	---	3101.48	---	
	10/11/02	62.72	---	---	3101.82	---	
	12/26/02	62.70	---	---	3101.84	---	
	2/17/03	62.70	---	---	3101.84	---	
	5/29/03	62.92	---	---	3101.62	---	
	8/22/03	63.04	---	---	3101.50	---	
	11/5/03	63.03	---	---	3101.51	---	
	2/3/04	62.99	---	---	3101.55	---	
	5/5/04	62.90	---	---	3101.64	---	
	8/2/04	62.71	---	---	3101.83	---	
	11/23/04	62.17	---	---	3102.37	---	
	2/9/05	62.05	---	---	3102.49	---	
	8/4/05	62.33	---	---	3102.21	---	
	2/23/06	61.98	---	---	3102.56	70.16	
	8/25/06	62.17	---	---	3102.37	70.16	
	2/27/07	61.78	---	---	3102.76	---	
	8/23/07	61.52	---	---	3103.02	---	
	2/18/08	61.9	---	---	3102.64	70.16	
	8/11/08	61.93	---	---	3102.61	70.16	
	2/16/09	62.10	---	---	3102.44	---	
	7/27/09	62.19	---	---	3102.35	---	
	2/22/10	62.00	---	---	3102.54	---	
	7/26/10	62.64	---	---	3101.90	---	
	2/15/11			NG		---	

TABLE I

GROUNDWATER GAUGING SUMMARY
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
G.L. ERWIN "A & B" FEDERAL NCT-2 TANK BATTERY
SW/4, SE/4, SECTION 35, TOWNSHIP 24 SOUTH, RANGE 37 EAST
LEA COUNTY, NEW MEXICO

WELL TOC [1] elev Diameter (in)	DATE	Depth to Water (ft below TOC)	Depth to LNAPL (ft below TOC)	LNAPL Thickness (ft)	Corrected Groundwater Elev (ft above MSL [2])	Total Depth (ft below TOC)	Screen Interval (bgs [3])
	8/16/11	61.94	---	---	3102.60	---	
RW-1	1/14/99	50.85	---	---	3112.67	76.30	53'-73'
3,163.52	10/19/00	62.33	---	---	3101.19	---	
4	4/30/02	62.28	---	---	3101.24	---	
	10/11/02	62.27	---	---	3101.25	---	
	12/26/02	62.26	---	---	3101.26	---	
	2/17/03	62.26	---	---	3101.26	---	
	5/29/03	62.34	---	---	3101.18	---	
	8/22/03	62.25	---	---	3101.27	---	
	11/5/03	62.25	---	---	3101.27	---	
	2/3/04	62.20	---	---	3101.32	---	
	5/5/04	62.12	---	---	3101.40	---	
	8/2/04	61.96	---	---	3101.56	---	
	11/23/04	61.46	---	---	3102.06	---	
	2/9/05	61.30	---	---	3102.22	---	
	8/4/05	61.51	---	---	3102.01	---	
	2/23/06	61.20	---	---	3102.32	75.45	
	8/25/06	61.36	---	---	3102.16	75.45	
	2/27/07	62.44	---	---	3101.08	---	
	8/23/07			NG		---	
	2/18/08			NG		---	
	2/16/09			NG		---	
	7/27/09			NG		---	
	2/22/10			NG		---	
	7/26/10			NG		---	
	2/15/11			NG		---	
	8/16/11	61.14	---	---	3102.38	---	

Notes:

[1]TOC - Top of Casing

[2]MSL - Mean Sea Level

[3]BGS - Below ground surface

NG - Not Gauged

Professional Survey conducted by Piper Surveying Company in February & July 1998, October 2001, October 2003, & December 2004.

TABLE II

GROUNDWATER ANALYTICAL SUMMARY
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
G.L. ERWIN "A & B" FEDERAL NCT-2 TANK BATTERY
SW/4, SE/4, SECTION 35, TOWNSHIP 24 SOUTH, RANGE 37 EAST
LEA COUNTY, NEW MEXICO

Well Number	Sample Date	Carbonate (mg/L)	Bicarbonate (mg/L)	Chloride (mg/L)	Fluoride (mg/L)	Nitrate - N (mg/L)	Sulfate (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Potassium (mg/L)	Sodium (mg/L)	TDS (mg/L)	Hardness (mg/L)	Hydroxide (mg/L)
NMWQCC Standard (mg/L)				250	1.60	10.00	600.0	---	---	---	---	1000	---	---
MW-1	2/17/98	<2.0	220	233	--	--	92	--	--	--	--	812	276	--
	2/7/01	<1.0	136	440	2.1	2.8	70	15.7	55.8	11.4	115	1,200	--	--
	5/3/02	<1.0	144	428	1.6	3.06	72.5	103	38.7	8.68	105	--	--	<1.00
	10/11/02	<0.1	155	230	---	---	109	69.3	24.8	7.45	125	737	---	<0.10
	12/27/02	<0.1	149	248	---	---	109	76.6	27.4	5.16	129	728	---	<0.10
	2/18/03	<0.1	147	213	---	---	114	59.1	21.4	5.06	116	713	---	<0.10
	6/2/03	<1.0	132	434	1.77	2.99	73.3	135	47.8	8.62	118	1,320	---	<1.00
	8/25/03	<1.0	144	279	1.76	3.39	73.3	92.7	31.3	7.17	118	856	---	<1.00
	11/5/03	<1.0	162	330	1.94	3.42	78.9	110	37.7	9.03	114	994	---	<1.00
	2/4/04	<1.0	142	390	1.92	3.25	71.1	117	43.2	10.2	113	940	---	<1.00
	5/6/04	<1.00	260	403	1.9	4.8	135	60.2	18.3	8.93	302	1,316	---	<1.00
	8/3/04	<0.1	155	222	---	---	83.2	64.1	30.8	6.41	127	431	---	<0.10
Dup	8/3/04	<0.1	158	301	---	---	104	101	45.5	672	436	605	---	<0.10
	2/11/05	<1.00	146	289	2.68	4.3	79.2	97.9	33.5	8.18	108	840	---	<1.00
	8/5/05	<1.00	156	245	2.08	4.34	89.6	75.5	26.7	6.99	125	856	---	<1.00
	2/22/06	<10.0	160	180	1.6	3.5	83	55.9	18.7	5.19	104	707	---	<10.0
Dup	2/22/06	<10.0	170	160	1.6	3.5	85	57.9	20	5.23	102	840	---	<10.0
	8/24/06	<10.0	300	180	<2.5	3.11	81	57.4	19.3	4.36	107	660	---	<10.0
	2/28/07	<10	170	170	1.8	3.6	81	54.6	18.2	<5.0	103	650	---	<10
	08/23/07	<10	138	420	1.40	2.80	76.0	102	34.8	5.37	101	1,810	--	138
	2/20/08	<5.0	166	300	1.9	2.92	82.1	111	39.7	7.34	104	860	---	<5.0
	8/12/08	<1.53	212.0	217	1.48	3.06	79.6	57.8	19.5	5.2	114.0	692	---	<1.53
	2/19/09	<5.0	160.0	150	2.00	3.00	84.0	55.0	19.0	5.3	120.0	610	---	<5.0
	7/29/09	<5.0	79.0	150	0.95	1.40	41.0	67.0	24.0	5.9	110.0	500	---	<5.0
	2/25/10	<5	172.0	167	1.79	3.23	83.1	57.5	21.2	4.3	105.0	684	---	<5.0
Dup	2/25/10	<5	192.0	157	1.68	<0.100	83.9	52.6	17.6	4.3	103.0	544	---	<5.1
	7/28/10	<5	168.0	147	1.88	2.56	84.8	51.1	17.1	3.8	91.6	564	---	<5.0
	2/16/11	<2.0	165	149	1.74	3.12	82.0	57.5	18.7	3.98	94.4	510	---	<2.0
Dup1	2/16/1911	<2.0	145	155	1.74	3.25	81.9	55.3	17.9	4.02	91.9	604	---	<2.0
	8/18/11	<5.0	167	127	1.76	3.34	83.3	50.7	17.2	2.80	91.4	490	---	<5.0
MW-2	2/17/98	<2.0	360	423	--	--	141	--	--	--	--	1,257	124	--
	2/7/01	<1.0	234	570	2.7	5	130	124	40.7	10.9	359	1,500	--	--

TABLE II

GROUNDWATER ANALYTICAL SUMMARY
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
G.L. ERWIN "A & B" FEDERAL NCT-2 TANK BATTERY
SW/4, SE/4, SECTION 35, TOWNSHIP 24 SOUTH, RANGE 37 EAST
LEA COUNTY, NEW MEXICO

Well Number	Sample Date	Carbonate (mg/L)	Bicarbonate (mg/L)	Chloride (mg/L)	Fluoride (mg/L)	Nitrate - N (mg/L)	Sulfate (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Potassium (mg/L)	Sodium (mg/L)	TDS (mg/L)	Hardness (mg/L)	Hydroxide (mg/L)
NMWQCC Standard (mg/L)				250	1.60	10.00	600.0	---	---	---	---	1000	---	---
MW-2 (cont)	05/03/02	<1.0	262	349	2.28	5.36	148	21	6.18	8.52	315	--	--	<1.00
	10/11/02	10	250	337	---	---	176	18.1	4.92	7.49	329	1,120	---	<0.10
	12/27/02	12	238	319	---	---	142	17.8	5.16	6.1	339	1,110	---	<0.10
	2/18/03	<0.1	228	310	---	---	178	19.4	6.02	6.3	331	1,070	---	<0.10
	6/2/03	<1.0	206	769	2.05	4.43	115	176	52.6	9.94	383	1,955	---	<1.00
	8/25/03	<1.0	242	374	2.07	5.14	142	36.1	10.8	8.49	333	1,240	---	<1.00
	11/5/03	<1.0	232	498	2.21	5.13	145	68.7	21.1	10.1	327	1,354	---	<1.00
	2/4/04	<1.0	230	450	2.06	4.97	131	76.1	25.2	10.7	324	1,424	---	<1.00
	5/6/04	<1.00	150	341	1.79	3.23	75.3	108	38.5	8.38	102	984	---	<1.00
	8/3/04	<0.1	236	496	---	---	144	50.8	34.7	11	472	811	---	<0.10
	2/11/05	<1.00	220	604	2.79	5.48	130	103	34.5	11.3	324	1,462	---	<1.00
	8/5/05	<1.00	228	404	2.24	5.7	154	34.5	10.3	10.7	341	1,120	---	<1.00
	2/22/06	<10.0	250	320	1.7	5.1	150	19.5	5.84	6.15	259	1,150	---	<10.0
	8/24/06	<10.0	250	290	<2.5	3.78	140	26.3	7.7	4.23	298	1,610	---	<10.0
	2/28/07	<10	260	280	2.1	5.4	140	20.9	6.01	6.74	278	950	---	<10
	8/23/07	<10	226	290	1.70	5.30	140.0	19	5.6	<5	303	1,280	--	226
	2/20/08	<5	223	441	1.94	5.11	143	242	83.2	11.8	329	1,190	---	<5
	8/12/08	<1.53	287.0	331	1.54	5.39	144.0	20.6	5.8	6.5	308.0	1,080	---	<1.53
	2/19/09	<5	240.0	310	1.80	5.30	160.0	21.0	6.1	7.2	350.0	1,100	---	<5
	7/29/09	<5	200.0	730	1.50	4.60	130.0	16.0	4.6	3.1	160.0	1,900	---	<5
	2/25/10	<5	255.0	380	1.39	5.78	157.0	27.4	8.5	4.7	333.0	1,130	---	<5
	7/28/10	<5	275.0	273	1.58	4.68	167.0	20.8	5.6	4.3	354.0	1,010	---	<5
	2/16/11	<2.0	250	305	1.26	5.30	154	47.6	13.9	5.08	276.0	1,050	---	<2.0
	8/18/11	<5.0	251	259	1.52	5.56	158	24.6	6.98	3.48	263	1,090	---	<5.0
DUP2	8/18/11	<5.0	272	255	1.38	5.76	135	21.0	5.36	4.08	276	1,090	---	<5.0
MW-3	2/17/98	<2.0	410	983	--	--	173	--	--	--	--	2,261	232	--
	2/7/01	8.0	278	890	3.4	7.3	200	56.7	18.7	20.4	648	2,100	---	--
	05/02/02	<1.0	298	735	2.84	7.57	213	27.5	8.39	24.7	42.8	--	--	<1.00
	05/03/02	<1.0	146	767	2.9	7.39	207	37.9	11.5	25.5	28.2	--	--	<1.00
	10/11/02	<0.1	288	753	---	---	272	29	9.18	20.6	622	1,960	---	<0.10
	12/27/02	<0.1	288	727	---	---	231	27	7.34	19.9	698	1,950	---	<0.10
	2/18/03	<0.1	277	762	---	---	180	25.2	7.84	16.4	580	1,950	---	<0.10

TABLE II

GROUNDWATER ANALYTICAL SUMMARY
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
G.L. ERWIN "A & B" FEDERAL NCT-2 TANK BATTERY
SW/4, SE/4, SECTION 35, TOWNSHIP 24 SOUTH, RANGE 37 EAST
LEA COUNTY, NEW MEXICO

Well Number	Sample Date	Carbonate (mg/L)	Bicarbonate (mg/L)	Chloride (mg/L)	Fluoride (mg/L)	Nitrate - N (mg/L)	Sulfate (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Potassium (mg/L)	Sodium (mg/L)	TDS (mg/L)	Hardness (mg/L)	Hydroxide (mg/L)
NMWQCC Standard (mg/L)				*250*	*1.60*	*10.00*	*600.0*	---	---	---	---	*1000*	---	---
MW-3 (cont)	8/23/07	<1.0	270	802	3.07	8.06	203	64.9	20	18.5	728	2,720	---	<1.00
	8/26/03	<1.0	282	799	3	7.99	198	54.9	18	16.4	597	2,320	---	<1.00
	11/6/03	<1.0	286	746	2.92	7.26	214	37.4	11.1	24.9	577	2,092	---	<1.00
Dup	11/6/03	<1.0	132	521	1.85	2.92	98.1	120	39.5	9.15	200	1,392	---	<1.00
	2/4/04	<1.0	296	755	2.74	7.36	205	42.7	13.1	27.1	546	2,275	---	<1.00
	5/7/04	<1.00	300	774	2.57	7.02	197	38.8	11.2	22.2	528	2,140	---	<1.00
	8/3/04	<0.1	291	798	---	---	155	21.5	16.7	25.8	794	1,640	---	<0.10
	2/11/05	<1.00	292	879	4.61	9.47	196	47	14.5	19.1	590	2,240	---	<1.00
	8/4/05	<1.00	282	922	2.86	8.17	217	48	14.7	21.1	630	1,950	---	<1.00
	2/22/06	<10.0	250	1,100	1.6	8.5	190	46.8	15.3	15.1	446	3,860	---	<10.0
	8/24/06	<10	260	750	2.6	6.43	190	25.3	7.68	11.9	565	1,990	---	<10.0
	2/28/07	<10	270	850	2.2	8.5	190	30.7	9.02	18	516	1,800	---	<10
		<10	204	1,000	1.50	9.50	190.0	228	80	<50	673	2,330	---	204
	2/20/08	<5	246	1,070	3.18	8.38	222	79.7	26.2	19.1	721	2,480	---	<5
	8/13/08	<5	222.0	1,180	2.59	8.27	210.0	46.8	14.3	17.5	896.0	2,700	---	<5
	02/19/09	<5	220.0	1,300	2.00	7.80	220.0	50.0	16.0	20.0	920.0	2,800	---	<5
	7/29/09	<5	190.0	1,600	1.60	7.60	210.0	140.0	47.0	26.0	770.0	3,400	---	<5
	2/24/10	<5	237.0	1,380	1.49	8.81	248.0	65.0	17.5	15.1	938.0	2,670	---	<5
	7/28/10	<5	221.0	1,230	1.68	7.12	259.0	84.8	24.6	14.1	857.0	2,680	---	<5
	02/16/11	<2.0	238	1,300	1.40	8.97	1,290	135	41.3	14.4	746	2,430	---	<2.0
	8/18/11	<5.0	227	1,250	1.42	9.18	887	76.3	23.2	11.2	700	2,750	---	<5.0
MW-4	2/17/98	<2.0	510	372	--	--	136	--	--	--	--	1,268	---	--
	2/7/01	<1.0	286	1,200	1.7	4.7	100	248	84.7	24	506	2,600	--	--
	05/03/02	<1.0	250	868	1	4.72	163	137	48.4	40.7	441	--	--	<1.00
	10/14/02	<0.1	342	381	--	--	124	9.39	2.48	38.4	405	1,220	--	<0.10
Dup	10/14/02	<0.1	358	372	--	--	116	8.82	2.38	37.4	409	1,260	--	<0.10
	12/27/02	<0.1	288	505	---	---	114	21.2	4.42	50.6	461	1,450	---	<0.10
Dup	12/27/02	<0.1	158	115	--	--	139	55.5	23	4.94	94.4	594	--	<0.10
	2/18/03	<0.1	264	691	---	---	118	32.2	7.5	59	474	1,610	---	<0.10
	5/30/03	<1.0	236	1,020	<2.00	5.53	79.6	113	29.7	59.8	664	2,670	---	<1.00
	8/25/03	<1.0	192	1,170	<2.00	5.43	72.9	143	35	82.1	616	2,935	---	<1.00
	11/7/03	<1.0	194	1,620	<2.00	5.48	76.6	228	61.4	83.6	629	3,035	---	<1.00

TABLE II

GROUNDWATER ANALYTICAL SUMMARY
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
G.L. ERWIN "A & B" FEDERAL NCT-2 TANK BATTERY
SW/4, SE/4, SECTION 35, TOWNSHIP 24 SOUTH, RANGE 37 EAST
LEA COUNTY, NEW MEXICO

Well Number	Sample Date	Carbonate (mg/L)	Bicarbonate (mg/L)	Chloride (mg/L)	Fluoride (mg/L)	Nitrate - N (mg/L)	Sulfate (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Potassium (mg/L)	Sodium (mg/L)	TDS (mg/L)	Hardness (mg/L)	Hydroxide (mg/L)
NMWQCC Standard (mg/L)				*250*	*1.60*	*10.00*	*600.0*	---	---	---	---	*1000*	---	---
MW-4 (cont)	2/5/04	<1.0	170	1,730	<2.00	5.93	79	277	75.9	108	630	3,380	---	<1.00
	5/6/04	<1.00	158	2,150	<3.00	5.94	88.2	407	99.9	99.7	593	4,090	---	<1.00
	8/3/04	<0.1	150	2,730	---	---	125	632	191	124	832	6,810	---	<0.10
	2/11/05	<1.00	136	4,520	<1.00	5.19	127	1060	289	156	983	9,030	---	<1.00
	8/4/05	<1.00	132	6,580	<1.00	5.34	166	1650	375	142	1,440	13,200	---	<1.00
	2/23/06	<10.0	130	9,100	<2.5	10	220	1510	326	141	1,070	17,900	---	<10.0
	8/25/06	<10.0	140	12,000	<5	6.13	290	1550	364	136	1,890	17,500	---	<10.0
	2/28/07	<10	170	10,000	<250	<200	<2000	1550	310	160	1,520	21,800	---	<10
	8/21/07	<10	167	10,000	0.30	9	490.0	1630	443	112	3,080	26,000	---	167
	2/20/08	<5	210	8,220	1.33 B	6.05	587	1200	372	143	3,160	18,200	---	<5
	8/13/08	<5	263.0	6,270	<1.5	6.64	607.0	770.0	209.0	97.3	2,510	15,100	---	<5
	02/19/09	<5	300.0	4,900	<0.50	5.60	620.0	580.0	160.0	72.0	2,200	11,000	---	<5
	7/29/09	<5	320.0	3,700	<0.50	6.40	580.0	380.0	110.0	63.0	1,800	8,400	---	<5
	2/25/10	<5	338.0	3,590	0.23	5.94	478.0	378.0	107.0	40.0	1,830	7,940	---	<5
	7/28/10	<5	283.0	3,840	0.45	4.00	419.0	273.0	62.8	30.4	1,840	8,820	---	<5
	2/16/11	<2.0	337	2,480	0.540	4.08	1,240	179	53.6	30.6	1,300	5,840	---	<2.0
	8/18/11	<5.0	358	2,530	0.680	5.39	479	156	41.4	23.9	1,240	4,870	---	<5.0
MW-5	2/17/98	<2.0	360	408	--	--	151	--	--	--	--	1,219	116	--
	2/7/01	<1.0	214	570	1.6	4.8	140	123	40.8	20.3	331	1,500	--	--
	05/03/02	<1.0	238	335	0.96	5.36	162	37.3	11.1	27.3	287	--	--	<1.00
	10/11/02	<0.1	232	337	---	---	173	31.8	10	20.7	305	1,100	---	<0.10
	12/27/02	<0.1	232	337	---	---	171	31.3	8.55	20.6	319	1,210	---	<0.10
	2/18/03	<0.1	210	319	---	---	176	27.2	8.48	16.5	231	1,110	---	<0.10
	6/2/03	<1.0	196	588	1.23	4.86	142	132	40.5	21.2	364	1,644	---	<0.10
	8/26/03	<1.0	210	447	1.32	4.85	141	95.1	29	23.4	291	1,480	---	<1.00
	11/6/03	<1.0	214	456	1.43	5.11	152	94	29.3	24.8	282	1,430	---	<1.00
	2/4/04	<1.0	206	504	1.38	5.31	147	95.1	31.4	27.3	289	1,410	---	<1.00
	5/7/04	<1.00	222	381	1.02	5.98	151	55.9	16.3	25.7	301	1,250	---	<1.00
Dup	5/7/04	<1.00	242	330	1.04	5.75	152	50.7	14.6	27.4	292	1,168	---	<1.00
	8/3/04	<0.1	229	461	---	---	155	47.9	31.3	31.1	435	968	---	<0.10
	2/11/05	<1.0	288	408	2.58	8.36	243	46.2	13.3	30.6	433	1,598	---	<1.0
	8/4/05	<1.00	256	423	1.83	6.82	201	60.5	18.6	20.3	354	1,334	---	<1.00

TABLE II

GROUNDWATER ANALYTICAL SUMMARY
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
G.L. ERWIN "A & B" FEDERAL NCT-2 TANK BATTERY
SW/4, SE/4, SECTION 35, TOWNSHIP 24 SOUTH, RANGE 37 EAST
LEA COUNTY, NEW MEXICO

Well Number	Sample Date	Carbonate (mg/L)	Bicarbonate (mg/L)	Chloride (mg/L)	Fluoride (mg/L)	Nitrate - N (mg/L)	Sulfate (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Potassium (mg/L)	Sodium (mg/L)	TDS (mg/L)	Hardness (mg/L)	Hydroxide (mg/L)
NMWQCC Standard (mg/L)				250	1.60	10.00	600.0	---	---	---	---	1000	---	---
Dup1	8/4/05	<1.00	242	394	1.82	6.74	200	49.2	14.8	21.5	341	1,220	---	<1.00
	2/22/06	<10.0	220	800	1.3	6.6	160	222	69.4	14	274	2,670	---	<10.0
	8/24/06	<10.0	190	930	<5	5.09	140	145	47.6	13.1	295	1,280	---	<10.1
	2/28/07	<10	300	730	3.5	5.2	340	36.9	10.6	18.4	301	1,310	---	<10.2
	8/23/07	<10	115	360	1.80	5.20	170.0	50.1	18.4	16.4	291	2,500	---	<10.3
	2/20/08	<5	255	505	2.9	5.61	168	127	42.1	19.6	353	1,500	---	<10.4
	8/13/08	<5	220.0	438	1.77	6.20	191.0	62.8	19.3	23.9	362.0	1,300	---	<10.5
	02/19/09	<5	220.0	390	1.60	6.20	200.0	63.0	19.0	25.0	310.0	1,200	---	<10.6
	7/29/09	<5	210.0	490	1.40	6.20	200.0	110.0	35.0	23.0	280.0	1,500	---	<10.7
	2/25/10	<5	223.0	326	1.02	6.27	195.0	58.0	19.0	16.5	232.0	1,120	---	<10.8
	7/28/10	<5	235.0	272	1.15	4.61	189.0	51.3	14.6	13.8	257.0	1,130	---	<10.9
Dup 2	7/28/10	<5	233.0	283	1.11	5.17	192.0	60.9	19.2	16.7	269.0	1,180	---	<10.10
	2/16/11	<2.0	206	272	1.12	5.87	413	64.7	18.8	14.9	240	1,010	---	<2.0
	8/18/11	<5.0	224	325	1.22	<0.0300	175	59.4	17.6	13.2	233	1,160	---	<5.0
MW-6	2/7/01	<1.0	200	1,800	3.3	5.4	140	323	108	18.8	657	3,800	--	--
	05/02/02	<1.0	264	503	3.68	7.04	183	24.9	7.29	17.4	475	--	---	<1.00
	10/14/02	<0.1	262	620	--	--	206	18.6	5.34	17.5	556	1,670	--	<0.10
	12/27/02	36	218	620	--	--	192	21.2	6.08	13.6	584	1,650	---	<0.10
	2/18/03	16	238	638	---	---	298	22.1	6.43	11.8	524	1,700	---	<0.10
	6/2/03	<1.0	244	772	3.24	6.62	181	68.7	23.3	14.4	614	2,040	---	<1.00
	8/26/03	<1.0	246	607	2.95	6.65	179	35.9	11.6	12.2	525	2,370	---	<1.00
	11/6/03	<1.0	250	649	3.28	6.89	191	46	13.9	18.1	503	1,932	---	<1.00
	2/4/04	<1.0	266	713	3.15	7.2	189	48.9	15.4	19.9	517	2,210	---	<1.00
	5/7/04	<1.00	266	696	2.92	6.74	182	54.8	16.1	16	503	2,095	---	<1.00
	8/3/04	<0.1	260	718	---	---	240	22.7	21.7	21.7	825	1,430	---	<0.10
	2/11/05	<1.00	270	660	3.76	7.84	192	30.1	9.13	19.5	531	1,774	---	<1.00
	8/4/05	<1.00	268	764	3.16	7.83	206	56.6	18.8	15.3	576	1,650	---	<1.00
	2/22/06	<10.0	270	610	2.4	7.9	180	23.9	7.41	10.9	380	1,570	---	<10.0
	8/24/06	<10.0	260	590	3	5.96	170	108	35	9.38	448	1,880	---	<10.0
	2/28/07	<10	280	530	3	7.8	170	21	6.14	12.8	397	1,550	---	<10
	8/23/07	<10	265	1,100	2.30	7.60	150.0	29.8	11.7	8.35	440	3,970	---	265
	2/20/08	<5	227	799	3.05	7.43	163	181	62.4	15.7	492	1,930	---	<5

TABLE II

GROUNDWATER ANALYTICAL SUMMARY
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
G.L. ERWIN "A & B" FEDERAL NCT-2 TANK BATTERY
SW/4, SE/4, SECTION 35, TOWNSHIP 24 SOUTH, RANGE 37 EAST
LEA COUNTY, NEW MEXICO

Well Number	Sample Date	Carbonate (mg/L)	Bicarbonate (mg/L)	Chloride (mg/L)	Fluoride (mg/L)	Nitrate - N (mg/L)	Sulfate (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Potassium (mg/L)	Sodium (mg/L)	TDS (mg/L)	Hardness (mg/L)	Hydroxide (mg/L)
NMWQCC Standard (mg/L)				250	1.60	10.00	600.0	---	---	---	---	1000	---	---
MW-6 (cont)	8/13/08	<5	238.0	563	2.56	7.83	176.0	22.6	6.6	14.4	558.0	1,640	---	<5
	02/19/09	<5	370.0	1,200	2.00	6.10	150.0	140.0	47.0	16.0	590.0	3,200	---	<6
	7/29/09	<5	210.0	1,200	2.10	7.00	160.0	37.0	11.0	16.0	550.0	2,700	---	<5
	2/24/10	<5	243.0	780	2.07	7.89	193.0	39.7	10.6	9.0	558.0	1,910	---	<5
	7/28/10	<5	247.0	702	2.23	8.99	204.0	30.7	8.9	10.3	591.0	1,740	---	<5
	2/16/11	<2.0	214	768	1.56	6.36	385	30.8	8.32	9.81	539	1,800	---	<2.0
	8/18/11	<5.0	243	657	2.00	8.73	205	80.6	25.2	7.68	492	1,830	---	<5.0
MW-7	2/7/01	<1.0	238	500	3.2	4.1	100	80.3	27.3	10.4	326	1,300	---	---
	05/02/02	<1.0	244	466	2.94	4.18	106	46.6	17	8.42	307	---	---	<1.00
	10/11/02	<0.1	242	408	---	---	128	39.7	13.5	6.7	316	1,120	---	<0.10
	12/27/02	<0.1	232	452	---	---	109	56.2	19.2	5.82	353	1,220	---	<0.10
	2/17/03	<0.1	200	603	---	---	134	90.6	30.9	5.86	339	1,440	---	<0.10
	6/2/03	<1.0	242	388	3.23	4.33	115	39.5	12.5	6.16	370	1,216	---	<1.00
	8/25/03	<1.0	232	367	2.77	4.07	105	39.3	12.3	7.14	309	1,244	---	<1.00
	11/5/03	<1.0	240	343	3.08	4.16	117	36.6	11.4	7.67	304	1,186	---	<1.00
Dup	11/5/03	<1.0	238	355	3.04	4.19	117	34.7	10.8	7.63	298	1,170	---	<1.00
	2/4/04	<1.0	262	320	3.1	4.25	112	30.7	9.87	7.95	298	1,138	---	<1.00
	5/6/04	<1.00	260	339	2.9	4	112	35.2	10.3	6.81	282	1,172	---	<1.00
	8/3/04	<0.1	248	328	---	---	126	22.8	12.1	7.55	436	734	---	<0.10
	2/11/05	<1.00	238	332	3.76	4.65	123	31.5	9.99	7.75	296	1,128	---	<1.00
	8/5/05	<1.00	240	430	3.1	4.36	144	58.2	19.2	8.43	325	1,180	---	<1.00
Dup2	8/5/05	<1.00	236	387	3.14	4.3	144	38.7	12.5	6.51	315	1,100	---	<1.00
	2/22/06	<10.0	290	240	2.6	3.3	120	30.6	9.98	4.89	227	1,120	---	<10.0
	8/24/06	<10.0	260	230	3.1	2.97	110	23.3	7.82	2.96	245	952	---	<10.0
	2/28/07	<10	270	240	3.3	3.6	100	21.3	6.57	<5	230	885	---	<10
	8/23/07	<10	261	250	2.70	3.20	110.0	18.8	8	<5	247	2,320	---	261
	2/20/08	<5	251	269	2.4	3.18	122	37.6	12.4	5.41	261	930	---	<5
	8/13/08	<5	274.0	251	2.41	3.21	121.0	25.0	7.6	4.9	273.0	887	---	<5
	02/19/09	<5	250.0	240	2.90	3.30	100.0	26.0	8.3	5.1	260.0	880	---	<5
	7/29/09	<5	260.0	260	2.90	3.90	110.0	40.0	13.0	5.8	250.0	950	---	<5
	2/24/10	<5	263.0	282	2.54	4.08	106.0	34.3	9.1	3.6	310.0	1,000	---	<5
	7/28/10	<5	259.0	279	2.61	3.39	113.0	28.5	9.0	3.6	265.0	950	---	<5

TABLE II

GROUNDWATER ANALYTICAL SUMMARY
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
G.L. ERWIN "A & B" FEDERAL NCT-2 TANK BATTERY
SW/4, SE/4, SECTION 35, TOWNSHIP 24 SOUTH, RANGE 37 EAST
LEA COUNTY, NEW MEXICO

Well Number	Sample Date	Carbonate (mg/L)	Bicarbonate (mg/L)	Chloride (mg/L)	Fluoride (mg/L)	Nitrate - N (mg/L)	Sulfate (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Potassium (mg/L)	Sodium (mg/L)	TDS (mg/L)	Hardness (mg/L)	Hydroxide (mg/L)
NMWQCC Standard (mg/L)				250	1.60	10.00	600.0	---	---	---	---	1000	---	---
MW-7 (cont)	2/16/11	<2.0	212	286	2.55	4.07	123	32.8	9.39	3.64	246	910	---	<2.0
	8/18/11	<5.0	248	268	2.76	4.16	121	27.5	8.56	2.31	234	1,060	---	<5.0
Dup1	8/18/11	<5.0	262	265	2.58	4.27	105	29.4	8.22	3.32	255	1,010	---	<5.0
MW-8	2/7/01	20	240	900	3.2	6.6	160	79.4	24.5	12.7	604	2,100	--	--
	05/02/02	<1.0	236	818	2.65	6.68	168	94.5	29.2	13	527	--	---	<1.00
	10/14/02	<0.1	250	842	---	---	194	52.4	20.4	10.8	597	1,920	---	<0.10
	12/27/02	<0.1	233	833	---	---	173	59.8	20	8.64	627	2,000	---	<0.10
	2/18/03	<0.1	213	833	---	---	185	53	17.6	7.13	489	1,930	---	<0.10
	6/2/03	<1.0	244	777	3.29	6.82	173	60	18.9	9.47	650	1,968	---	<1.00
	8/25/03	<1.0	244	738	2.85	6.42	159	59.4	17.3	11.4	534	1,996	---	<1.00
	11/7/03	<1.0	248	722	3.27	6.65	171	58.1	17.9	12.2	525	1,972	---	<1.00
	2/4/04	<1.0	254	764	3.77	7.85	161	55.2	18.2	13.2	522	2,038	---	<1.00
	5/6/04	8	262	774	3.36	7.43	164	56.2	16.9	10.7	501	1,968	---	<1.00
	8/4/04	<0.1	246	771	---	---	222	28.6	21.5	11	707	1,530	---	<0.10
	2/11/05	<1.00	238	818	4.28	8.46	167	58.3	19	13.2	543	2,080	---	<1.00
	8/5/05	<1.00	236	888	3.29	7.66	184	71.5	23.3	11.7	574	2,230	---	<1.00
	2/22/06	<10.0	230	810	2.4	7.9	170	55.1	18	8.05	390	1,740	---	<10.0
	8/24/06	<10.0	280	710	3.2	5.51	170	51.2	16.5	6	470	926	---	<10.0
	2/28/07	<10	260	740	3.3	7.3	170	68.3	20.7	8.59	381	1,780	---	<10
	08/22/07	<10	259	700	3.00	7.40	170.0	49.1	18.5	5.35	449	1,980	---	259
	2/20/08	<5	240	711	3.66	7.15	188	82.2	26.4	9.48	461	1,780	---	<5
	8/12/08	<1.53	357.0	668	2.99	6.74	171.0	64.1	19.7	8.5	541.0	1,750	---	<1.53
	02/19/09	<5	230.0	700	3.60	6.40	170.0	64.0	21.0	8.8	500.0	1,700	---	<5
	7/29/09	<5	290.0	740	3.50	6.80	170.0	60.0	19.0	9.5	490.0	1,800	---	<5
	2/24/10	<5	255.0	754	3.16	6.58	160.0	56.4	16.1	5.1	510.0	1,760	---	<5
	7/28/10	<5	263.0	711	3.43	5.67	164.0	54.2	17.0	4.8	533.0	1,720	---	<5
	2/16/11	<2.0	218	749	3.11	6.73	182	53.9	15.8	4.91	466	1,760	---	<2.0
	8/18/11	<5.0	257	676	3.21	7.56	148	47.2	15.0	3.68	440	1,770	---	<5.0
MW-9	05/01/02	<1.0	142	439	1.88	3.26	106	98.8	35.8	9.93	188	---	---	<1.00
	10/14/02	<0.1	137	443	---	---	119	88.4	33.1	10.4	216	1,240	---	<0.10
	12/27/02	<0.1	124	434	---	---	120	93.8	33.8	6.22	192	1,080	---	<0.10

TABLE II

GROUNDWATER ANALYTICAL SUMMARY
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
G.L. ERWIN "A & B" FEDERAL NCT-2 TANK BATTERY
SW/4, SE/4, SECTION 35, TOWNSHIP 24 SOUTH, RANGE 37 EAST
LEA COUNTY, NEW MEXICO

Well Number	Sample Date	Carbonate (mg/L)	Bicarbonate (mg/L)	Chloride (mg/L)	Fluoride (mg/L)	Nitrate - N (mg/L)	Sulfate (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Potassium (mg/L)	Sodium (mg/L)	TDS (mg/L)	Hardness (mg/L)	Hydroxide (mg/L)
NMWQCC Standard (mg/L)				*250*	*1.60*	*10.00*	*600.0*	---	---	---	---	*1000*	---	---
MW-9 (cont)	2/18/03	<0.1	105	461	---	---	126	99.3	34.1	5.62	200	1,190	---	<0.10
	5/30/03	<1.0	122	514	1.82	3.01	102	113	37.9	7.98	240	1,324	---	<1.00
	8/25/03	<1.0	114	562	1.58	2.98	95.2	120	39.2	9.45	219	1,428	---	<1.00
	11/7/03	<1.0	132	468	1.68	2.86	96.2	119	39	9.18	200	1,250	---	<1.00
	2/5/04	<1.0	124	610	2.32	4.18	97.7	125	41.1	10.3	221	1,345	---	<1.00
Dup	2/5/04	<1.0	120	581	1.23	2.19	53.6	132	43.9	10.1	203	1,325	---	<1.00
	5/5/04	<1.00	122	616	1.39	2.68	91	142	50	9.65	212	1,428	---	<1.00
Dup	5/5/04	<1.00	124	599	1.43	2.72	92.2	144	46.7	9.82	223	1,476	---	<1.00
	8/3/04	<0.1	110	691	---	---	115	184	62.9	10.5	279	1,530	---	<0.10
	2/11/05	<1.00	98	1,960	3.63	5.36	103	495	164	21.5	388	3,920	---	<1.00
	8/4/05	<1.00	218	10,000	1.54	5.15	224	2280	686	42.8	1390	27,000	---	<1.00
	2/23/06	<10.0	110	13,000	<2.5	19	430	2050	438	47.8	1450	24,300	---	<10.0
	8/25/06	<10.0	260	10,000	<2.5	3.75	360	1,330	360	38.3	1,920	24,100	---	<10.0
	2/28/07	<10	140	8,700	<0.5	4.6	430	1180	276	46.9	1510	17,700	---	<10
	8/23/07	<10	157	6,900	<0.1	3.70	400.0	934	283	<50	2290	17,100	---	157
	2/20/08	<5	229	6,270	<0.3	<0.2	447	867	293	27.7	2190	12,500	---	<5
	8/12/08	<1.53	257.0	4,910	1.19	3.74	443.0	720.0	236.0	36.2	1760.0	11,400	---	<1.53
	02/19/09	<5	310.0	4,300	0.75	3.00	490.0	600.0	190.0	25.0	1900.0	9,700	---	<5
	7/29/09	<5	250.0	3,300	0.91	3.40	500.0	420.0	150.0	32.0	1400.0	7,800	---	<5
	2/24/10	<5	304.0	2,070	1.00	3.56	452.0	249.0	65.5	9.2	1220.0	4,370	---	<5
	7/28/10	<5	312.0	1,260	1.41	2.38	413.0	136.0	46.7	7.7	848.0	3,100	---	<5
	2/16/11	<2.0	311	911	1.55	3.03	562	92.5	29.9	6.80	600	1,830	---	<2.0
	8/18/11	<5.0	285	689	2.06	2.95	294	62.7	21.1	3.92	484	1,940	---	<5.0
MW-10	10/14/02	<0.1	204	71	--	--	145	42.3	22.8	7.77	87.3	593	--	<0.10
	12/27/02	<0.1	196	70	---	---	149	68.4	23.1	7.69	92.8	529	---	<0.10
	2/18/03	<0.1	184	65	---	---	159	67.1	22.8	3.04	90.7	552	---	<0.10
	6/2/03	<1.0	198	55.7	1.6	4.31	134	75.7	22.4	4.95	80.4	624	---	<1.00
	8/26/03	<1.0	188	56.1	1.58	4.1	125	70.6	23.4	6.29	72.3	688	---	<1.00
	11/7/03	<1.0	200	70.9	1.69	4.19	131	70.2	23.5	5.8	69.3	638	---	<1.00
	2/5/04	<1.0	196	101	1.68	4.22	121	75.8	25.7	6.29	73.8	674	---	<1.00
	5/7/04	<1.00	174	186	1.4	3.8	111	92.9	30.1	6.34	78.3	736	---	<1.00
	8/3/04	<0.1	144	328	---	---	118	106	49.5	7.7	106	796	---	<0.10

TABLE II

GROUNDWATER ANALYTICAL SUMMARY
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
G.L. ERWIN "A & B" FEDERAL NCT-2 TANK BATTERY
SW/4, SE/4, SECTION 35, TOWNSHIP 24 SOUTH, RANGE 37 EAST
LEA COUNTY, NEW MEXICO

Well Number	Sample Date	Carbonate (mg/L)	Bicarbonate (mg/L)	Chloride (mg/L)	Fluoride (mg/L)	Nitrate - N (mg/L)	Sulfate (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Potassium (mg/L)	Sodium (mg/L)	TDS (mg/L)	Hardness (mg/L)	Hydroxide (mg/L)
NMWQCC Standard (mg/L)				250	1.60	10.00	600.0	---	---	---	---	1000	---	---
MW-10 (cont)	2/11/05	<1.0	112	1,110	3.44	5.86	93.1	357	115	14	157	2,295	---	<1.00
	8/4/05	<1.00	112	1,500	1.32	4.02	94.5	419	139	11.5	186	3,420	---	<1.00
	2/22/06	<10.0	89	2,000	<0.50	6.5	98	520	158	13.8	180	6,180	---	<10.0
	8/25/06	<10.0	110	2,200	<2.5	3.24	97	660	201	13.7	253	7,520	---	<10.0
	2/28/07	<10	360	2,200	0.8	4.2	100	601	168	16.9	224	6,140	---	<10
	8/22/07	<10	74.9	2,200	0.50	6.00	110.0	585	189	<50	270	7,270	---	74.9
	2/20/08	<5	253	1,930	0.75	3.3	109	551	186	17.8	280	4,620	---	<5
	8/12/08	<1.53	800.0	1,700	1.75	3.16	108.0	430.0	154.0	15.4	271.0	4,540	---	<1.53
	02/20/09	<5	370.0	1,600	0.76	2.70	130.0	410.0	150.0	15.0	300.0	4,300	---	<5
	7/29/09	<5	250.0	2,000	0.67	3.10	140.0	470.0	170.0	19.0	300.0	5,800	---	<5
	2/24/10	<5	126.0	2,840	0.46	3.26	126.0	670.0	228.0	12.7	399.0	5,720	---	<6
	7/28/10	<5	89.1	2,260	0.82	2.48	85.5	842.0	292.0	12.1	501.0	6,840	---	<6
	2/16/11	<2.0	112	3,880	0.471	3.66	1,670	884	307	17.0	586	7,790	---	<2.0
	8/18/11	<5.0	110	3,990	0.626	4.30	172	1,000	298	15.9	671	8,290	---	<5.0
MW-11	4/30/02							NS						
	10/11/02							NS						
	12/26/02							NS						
	2/17/03							NS						
	5/29/03							NS						
	8/22/03							NS						
	11/5/03							NS						
	2/3/04							NS						
	5/5/04							NS						
	8/2/04							NS						
	11/23/04							NS						
	2/9/05							NS						
	8/4/05							NS						
	2/22/06							NS						
	2/28/07							NS						
	8/22/07							NS						
	2/20/08							NS						
	8/12/08							NS						

TABLE II

GROUNDWATER ANALYTICAL SUMMARY
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
G.L. ERWIN "A & B" FEDERAL NCT-2 TANK BATTERY
SW/4, SE/4, SECTION 35, TOWNSHIP 24 SOUTH, RANGE 37 EAST
LEA COUNTY, NEW MEXICO

Well Number	Sample Date	Carbonate (mg/L)	Bicarbonate (mg/L)	Chloride (mg/L)	Fluoride (mg/L)	Nitrate - N (mg/L)	Sulfate (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Potassium (mg/L)	Sodium (mg/L)	TDS (mg/L)	Hardness (mg/L)	Hydroxide (mg/L)
NMWQCC Standard (mg/L)				*250*	*1.60*	*10.00*	*600.0*	---	---	---	---	*1000*	---	---
MW-11 (cont)	2/19/09	<5	370.0	1,700	0.80	3.00	100.0	430.0	150.0	17.0	380.0	4,500	---	5
	7/29/09	<5	490.0	1,800	0.72	3.80	120.0	420.0	140.0	19.0	340.0	5,000	---	<5
	2/16/11	<2.0	115	1,720	0.607	3.40	760	365	116	9.65	336	3,420		<2.0
MW-12	05/02/02	<1.0	88	1,120	1.37	4.09	45.3	431	153	17.7	123	--	---	<1.00
	10/11/02	<0.1	93	1,370	---	---	47.5	438	161	15.4	127	2,860	---	<0.10
	12/27/02	<0.1	78	1,520	---	---	49.3	507	181	14.1	151	3,460	---	<0.10
	2/17/03	<0.1	68	1,530	---	---	52.4	461	170	13.3	136	3,980	---	<0.10
	6/2/03	<1.0	72	1,380	<2.00	5.06	45.8	491	157	15.3	151	3,250	---	<1.00
	8/26/03	<1.0	66	1,550	<2.00	4.94	45.9	525	178	14.8	156	3,855	---	<1.00
	11/6/03	<1.0	80	1,610	2.25	4.81	50.3	568	189	20.1	159	3,860	---	<1.00
	2/5/04	<1.0	74	1,680	2.19	5.13	46	525	181	21.6	160	2,910	---	<1.00
	5/7/04	<1.0	70	1,620	<3.00	5.13	53.6	541	178	18.5	152	3,085	---	<1.0
	8/3/04	<0.1	66	1,680	---	---	55.2	680	252	31.1	211	4,300	---	<0.10
	2/11/05	<1.00	82	1,770	2.04	6.08	47.7	503	176	17.8	138	3,080	---	<1.00
	8/5/05	<1.00	72	1,800	1.66	4.69	48.6	547	194	15.2	149	4,180	---	<1.00
	2/22/06	<10.0	73	1,700	0.7	6.7	48	415	135	14.9	129	4,890	---	<10.0
	8/24/06	<10.0	87	1,700	0.93	3.06	48	463	157	12.2	140	6,190	---	<10.0
	2/28/07	<10	95	1,900	1.3	6.9	65	521	154	16.1	155	5,840	---	<10
	08/22/07	<10	108	1,800	0.70	6.00	52.0	476	151	11.9	143	6,470	---	108
	2/20/08	<5	83.8	2,020	0.93	3.99	70.8	589	211	18.1	179	4,580	---	<5
	8/12/08	<1.53	77.0	2,140	1.68	3.84	86.1	647.0	221.0	17.9	212.0	5,160	---	<1.53
	02/19/09	<5	120.0	2,600	0.97	3.20	120.0	810.0	280.0	23.0	340.0	5,400	---	<5
	7/29/09	<5	94.0	2,700	1.20	3.80	120.0	700.0	270.0	28.0	330.0	7,000	---	<5
	2/24/10	<5	89.1	2,120	0.61	3.74	69.4	626.0	218.0	12.9	214.0	4,290	---	<5
	7/28/10	<5	83.0	1,560	1.47	2.84	164.0	681.0	240.0	14.2	279.0	5,680	---	<5
	2/16/11	<2.0	84.6	2,430	0.747	3.91	73.6	528	184	11.1	190	4,390	---	<2.0
	8/18/11	<5.0	85.5	2,110	0.908	4.08	62.7	560	183	10.5	169	5,000	---	<5.0
MW-13	05/02/02	<1.0	122	277	2.31	4.38	131	125	44.3	10.2	65.6	--	---	<1.00
	10/11/02	<0.1	115	337	---	---	124	135	46.5	9.47	88.6	1,210	---	<0.10
	12/27/02	<0.1	104	408	---	---	132	160	55.2	9.71	84.5	1,260	---	<0.10
	2/17/03	<0.1	80	443	---	---	144	152	54.9	8.88	108	1,370	---	<0.10

TABLE II

GROUNDWATER ANALYTICAL SUMMARY
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
G.L. ERWIN "A & B" FEDERAL NCT-2 TANK BATTERY
SW/4, SE/4, SECTION 35, TOWNSHIP 24 SOUTH, RANGE 37 EAST
LEA COUNTY, NEW MEXICO

Well Number	Sample Date	Carbonate (mg/L)	Bicarbonate (mg/L)	Chloride (mg/L)	Fluoride (mg/L)	Nitrate - N (mg/L)	Sulfate (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Potassium (mg/L)	Sodium (mg/L)	TDS (mg/L)	Hardness (mg/L)	Hydroxide (mg/L)
NMWQCC Standard (mg/L)				250	1.60	10.00	600.0	---	---	---	---	1000	---	---
MW-13 (cont)	6/2/03	<1.0	102	421	2.27	4.43	122	153	56	11	90.9	1,260	—	<1.00
	8/26/03	<1.0	92	500	2.1	4.23	115	179	66	12	95.6	1,360	—	<1.00
	11/6/03	<1.0	98	492	2.25	4.42	125	193	68.6	14.3	91.5	1,434	—	<1.00
	2/5/04	<1.0	96	543	2.3	4.56	120	179	65.6	15.4	98.3	1,220	—	<1.00
	5/7/04	<1.00	98	496	2.04	4.14	116	184	62.2	12.8	89.3	1,278	—	<1.00
	8/3/04	<0.1	95	532	---	---	116	225	77.3	15	111	1,410	—	<0.10
	2/11/05	<1.00	100	491	2.19	5.36	117	171	61.7	13.3	92.3	1,260	—	<1.00
	8/5/05	<1.00	96	759	2.29	5.11	125	217	70.8	12.7	103	1,550	—	<1.00
	2/22/06	<10.0	89	590	1.7	4.8	120	177	61.2	11.5	91.8	2,090	—	<10.0
	8/24/06	<10.0	150	760	<2.5	3.58	120	228	78.7	10.9	107	2,590	—	<10.0
	2/28/07	<10	90	880	2	5.2	140	262	84.8	14.6	113	3,060	—	<10
	8/22/07	<10	129	980	1.60	4.00	130.0	279	94.7	11.6	122	3,480	—	129
	2/20/08	<5	209	1,260	1.57	4.02	153	362	145	20.1	172	3,070	—	<5
	8/13/08	<5	141.0	1,410	2.33	1.53	154.0	389.0	155.0	20.1	176.0	4,940	—	<5
	02/19/09	5	130.0	1,800	1.50	3.10	180.0	580.0	200.0	24.0	240.0	4,700	—	5
	7/29/09	<5	120.0	1,800	1.40	4.10	400.0	540.0	220.0	27.0	210.0	5,900	—	<5
	2/24/10	<5	91.1	1,570	1.05	3.53	150.0	452.0	139.0	13.0	160.0	3,400	—	<5
	7/28/10	<5	89.1	4,340	1.08	3.01	921.0	468.0	136.0	12.1	156.0	4,420	—	<5
	2/16/11	<2.0	82.7	1,630	1.36	3.88	1,680	392	150	14.0	170	4,440		<2.0
	8/18/11	<5.0	87.7	1,640	1.57	4.04	166	404	138	11.8	156	4,100		<5.0
MW-14	11/5/03	<1.0	100	3,500	<4.00	6.58	525	951	324	45.3	732	7,315	—	<1.00
	2/4/04	<1.0	74	3,910	<3.00	6.01	559	966	320	46.1	840	7,720	—	<1.0
	5/6/04	<1.00	86	3,970	<4.00	5.54	594	997	350	42.5	836	9,560	—	<1.00
	8/4/04	<0.1	78	4,430	---	---	895	1350	455	60.3	1220	11,500	—	<0.10
	2/11/05	<1.00	80	6,120	3.5	5.99	752	1180	370	56.8	1250	8,860	—	<1.00
	8/5/05	<1.00	86	6,480	1.84	5.04	882	1230	400	46.3	1440	9,570	—	<1.00
	2/22/06	<10.0	81	5,300	<0.50	11	700	914	253	34.1	885	12,100	—	<10.0
Dup	2/22/06	<10.0	82	5,000	<0.50	<40	690	916	253	34	884	11,600	—	<10.0
	8/24/06	<10.0	85	5,600	<5	3.74	690	942	266	27.8	1370	11,300	—	<10.0
	2/28/07	<10	95	5,200	<0.5	4.3	620	758	193	36.9	1060	12,400	—	<10
	8/22/07	<10	92.2	4,700	0.30	3.90	610.0	823	249	<50	1420	11,700	—	92.2
	2/20/08	<5	108	4,910	3.14	3.7	674	847	272	25.7	1510	10,300	—	<5

TABLE II

GROUNDWATER ANALYTICAL SUMMARY
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
G.L. ERWIN "A & B" FEDERAL NCT-2 TANK BATTERY
SW/4, SE/4, SECTION 35, TOWNSHIP 24 SOUTH, RANGE 37 EAST
LEA COUNTY, NEW MEXICO

Well Number	Sample Date	Carbonate (mg/L)	Bicarbonate (mg/L)	Chloride (mg/L)	Fluoride (mg/L)	Nitrate - N (mg/L)	Sulfate (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Potassium (mg/L)	Sodium (mg/L)	TDS (mg/L)	Hardness (mg/L)	Hydroxide (mg/L)
NMWQCC Standard (mg/L)				250	1.60	10.00	600.0	---	---	---	---	1000	---	---
MW-14 (cont)	8/12/08	<1.53	101.0	4,400	1.32	3.50	668.0	781.0	237.0	38.2	1,650.0	10,300	---	<1.53
	2/19/09	<5	100.0	4,200	1.20	2.50	760.0	780.0	230.0	38.0	1,600.0	9,000	---	<5
Dup	2/19/09	<5	100.0	4,200	1.20	2.40	760.0	700.0	220.0	24.0	1,700.0	8,800	---	<5
	7/29/09	<5	110.0	4,100	1.40	2.90	830.0	690.0	200.0	39.0	1,500.0	11,000	---	<5
	2/24/10	<5	107.0	4,280	1.04	3.36	844.0	752.0	218.0	18.9	1,480.0	9,530	---	<5
	7/28/10	<5	107.0	4,290	1.18	2.17	83.8	844.0	256.0	15.1	1,660.0	9,500	---	<5
	2/16/11	<2.0	85.4	5,070	0.706	0.424	1,470	902	294	21.4	1,650	11,200	---	<2.0
	8/18/11	13.1	109	7,490	0.274	3.65	1,010	1,410	318	20.3	2,280	12,800	---	<5.0
MW-15	11/5/03							NS						
	2/3/04							NS						
	5/5/04							NS						
	8/2/04							NS						
	11/23/04							NS						
	2/9/05							NS						
	8/4/05							NS						
	2/22/06							NS						
	2/28/07	<10	170	90	2.2	2.2	71	57.3	19.8	6.03	52.9	575	---	<10
	8/22/07	<10	146	150	1.80	2.10	65.0	66.4	24.1	5.98	60.2	652	---	146
	2/20/08	<5	117	487	1.68	2.19	61.1	161	62.2	10.5	88.1	1,500	---	<5
	8/12/08	<1.53	101.0	792	1.81	2.38	68.3	238.0	92.0	13.3	120.0	2,370	---	<1.53
	02/19/09	<5	100.0	840	1.30	2.20	74.0	290.0	110.0	14.0	110.0	2,000	---	<5
	7/29/09	<5	83.0	1,000	1.30	2.70	85.0	270.0	110.0	15.0	130.0	3,300	---	<5
	2/25/10	<5	99.2	1,120	0.97	2.84	74.0	301.0	116.0	12.5	135.0	2,450	---	<5
	7/28/10	<5	91.1	801	1.16	2.02	152.0	337.0	110.0	11.1	128.0	3,350	---	<5
	2-16-11	<2.0	96.4	1,230	1.05	2.73	84.1	293	110	11.4	124	2,810	---	<2.0
	8/18/11	<5.0	97.0	1,110	1.20	2.84	83.4	293	103	9.52	115	3,720	---	<5.0
MW-16	11/6/03	<1.0	188	863	1.79	5.65	150	183	55.6	14.2	372	2,100	---	<1.00
	2/4/04	<1.0	174	937	2.19	6.59	123	235	76.8	15.2	299	2,200	---	<1.00
	5/7/04	<1.00	172	953	<2.00	5.91	123	240	73.8	12.7	313	2,280	---	<1.00
	8/3/04	<0.1	158	1,010	---	---	159	250	87.5	13.5	382	2,560	---	<0.10
	2/11/05	<1.00	180	944	2.4	7.24	151	198	62.4	10.9	344	2,260	---	<1.00
	8/5/05	<1.00	230	568	1.99	5.14	146	134	46.9	8.7	249	1,420	---	<1.00

TABLE II

GROUNDWATER ANALYTICAL SUMMARY
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
G.L. ERWIN "A & B" FEDERAL NCT-2 TANK BATTERY
SW/4, SE/4, SECTION 35, TOWNSHIP 24 SOUTH, RANGE 37 EAST
LEA COUNTY, NEW MEXICO

Well Number	Sample Date	Carbonate (mg/L)	Bicarbonate (mg/L)	Chloride (mg/L)	Fluoride (mg/L)	Nitrate - N (mg/L)	Sulfate (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Potassium (mg/L)	Sodium (mg/L)	TDS (mg/L)	Hardness (mg/L)	Hydroxide (mg/L)
NMWQCC Standard (mg/L)				*250*	*1.60*	*10.00*	*600.0*	---	---	---	---	*1000*	---	---
MW-16 (cont)	2/22/06	<10.0	180	590	1.3	5.2	110	120	39.1	7.17	207	1,770	---	<10.0
	8/24/06	<10.0	490	500	<2.5	3.17	89	123	40.6	4.93	207	1,460	---	<10.0
	2/28/07	<10	220	410	1.6	4.6	110	71.8	22.2	6.46	228	1,200	---	<10
	8/22/07	<10	296	360	1.40	3.60	87.0	83	29.9	<5	215	1,280	---	296
	2/20/08	<5	190	338	1.31	2.91	88.3	141	47.9	6.53	154	990	---	<5
	8/12/08	<1.53	220.0	536	1.36	3.34	86.2	112.0	37.4	6.8	221.0	1,660	---	<1.53
	02/19/09	<5	190.0	710	1.30	4.10	110.0	130.0	42.0	8.7	340.0	1,900	---	<5
	7/29/09	<5	170.0	810	1.30	4.90	140.0	140.0	46.0	9.9	330.0	2,200	---	<5
	2/24/10	<5	194.0	866	1.05	4.75	132.0	173.0	46.9	5.7	318.0	1,980	---	<5
	7/28/10	<5	197.0	369	2.38	4.43	159.0	157.0	50.5	6.6	404.0	2,050	---	<5
	2/16/11	<2.0	197	862	1.18	5.13	260	138	39.8	5.67	347	1,990	---	<2.0
	8/18/11	<5.0	211	775	1.18	5.80	137	128	39.5	4.47	331	2,360	---	<5.0
MW-17	11/5/03	<1.0	154	587	2.06	3.85	104	177	58.2	12.5	184	1,556	---	<1.00
	2/4/04	<1.0	158	650	2.01	3.93	93.1	158	52.5	12.2	205	1,416	---	<1.00
Dup	2/4/04	<1.0	172	557	2.08	4.03	95.7	162	52.6	12.1	204	1,496	---	<1.00
	5/6/04	<1.00	162	604	1.77	3.57	91.2	182	57.7	10.9	176	1,416	---	<1.00
	8/4/04	<0.1	141	638	---	---	132	207	81	12.7	221	1,660	---	<0.10
	2/11/05	<1.00	174	572	2.94	4.61	101	134	45.9	11	229	1,470	---	<1.00
	8/5/05	<1.00	172	626	2.16	4.37	106	169	53.5	9.5	220	1,750	---	<1.00
	2/22/06	<10.0	150	580	1.5	4	97	123	40.1	8.04	187	1,810	---	<10.0
	8/24/06	<10.0	200	560	<2.5	3.06	100	140	46.1	5.94	178	1,700	---	<10.0
Dup	8/24/06	<10.0	320	530	<2.5	2.94	100	135	46.5	5.76	175	1,700	---	<10.0
	2/28/07	<10	180	530	2.2	4.1	130	94.9	30.3	7.06	213	1,240	---	<10
	8/22/07	<10	177	550	1.80	4.30	130.0	113	41.4	5.97	200	1,310	---	177
	2/20/08	<5	147	622	2.1	3.45	130	169	59.9	8.35	155	1,550	---	<5
	8/12/08	<1.53	173.0	519	1.86	3.37	125.0	124.0	43.0	7.9	222.0	1,660	---	<1.53
	02/19/09	<5	180.0	460	2.40	3.60	170.0	70.0	21.0	7.5	320.0	1,300	---	<5
	7/29/09	<5	190.0	440	2.40	4.00	180.0	76.0	24.0	7.4	270.0	1,300	---	<5
	2/24/10	<5	182.0	512	1.85	3.60	148.0	90.6	30.9	5.4	265.0	1,380	---	<5
	7/28/10	<5	217.0	4,840	0.80	3.09	513.0	87.7	28.8	4.9	245.0	1,390	---	<5
	2/16/11	<2.0	177	401	2.14	3.64	253	54.6	15.2	4.20	248	1,060	---	<2.0
Dup2	2/16/11	<2.0	206	368	2.27	<0.0300	259	53.0	16.4	4.18	238	1,060	---	<2.0

TABLE II

GROUNDWATER ANALYTICAL SUMMARY
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
G.L. ERWIN "A & B" FEDERAL NCT-2 TANK BATTERY
SW/4, SE/4, SECTION 35, TOWNSHIP 24 SOUTH, RANGE 37 EAST
LEA COUNTY, NEW MEXICO

Well Number	*Sample Date*	*Carbonate (mg/L)*	*Bicarbonate (mg/L)*	*Chloride (mg/L)*	*Fluoride (mg/L)*	*Nitrate - N (mg/L)*	*Sulfate (mg/L)*	*Calcium (mg/L)*	*Magnesium (mg/L)*	*Potassium (mg/L)*	*Sodium (mg/L)*	*TDS (mg/L)*	*Hardness (mg/L)*	*Hydroxide (mg/L)*
NMWQCC Standard (mg/L)				*250*	*1.60*	*10.00*	*600.0*	---	---	---	---	*1000*	---	---
MW-17 (cont)	8/18/11	<5.0	196	421	1.87	3.45	111	110	35.9	4.11	173	1,220	---	<5.0
MW-18	11/23/04							NS						
	2/9/05							NS						
	8/4/05							NS						
	2/22/06							NS						
	2/28/07							NS						
	2/20/08							NS						
	8/12/08							NS						
	02/19/09							NS						
	7/29/09							NS						
	2/16/11							DRY						
	8/18/11							DRY						
MW-19	11/23/04	<1.00	86	7,000	<10.0	17.3	582	2020	678	52.4	1590	12,900	---	<1.00
	2/11/05	<1.00	92	5,200	1.3	5.12	502	1340	522	61.3	974	22,000	---	<1.00
	8/5/05	<1.00	82	4,850	1.76	4.7	450	1200	422	50.6	793	9,750	---	<1.00
Dup3	8/5/05	<1.00	80	5,170	1.87	4.83	462	1270	463	51	814	15,800	---	<1.00
	2/22/06	<10.0	75	3,900	<0.50	8.9	400	870	271	32.6	464	8,830	---	<10.0
	8/24/06	<10.0	250	3,900	<5	3.01	390	902	293	28.8	582	10,900	-	<10.0
	2/28/07	<10	92	5,500	<0.5	4.4	600	901	247	37	658	12,700	---	<10
	8/22/07	<10	82.6	4,500	0.30	3.10	440.0	1040	367	<50	686	11,600	---	82.6
	2/20/08	<5	80.1	4,800	1.72	3.62	476	1130	437	31.2	684	10,300	---	<5
	8/12/08	<1.53	79.8	4,240	2.94	3.27	429.0	1,080	399.0	26.7	739.0	9,600	---	<1.53
	02/19/09	<5	89.0	5,300	0.90	3.20	540.0	1,200	450.0	37.0	1200.0	10,000	---	<5
	7/29/09	<5	94.0	5,300	1.10	4.00	580.0	1,200	400.0	37.0	1100.0	13,000	---	<5
	2/24/10	<5	91.1	4,720	0.44	3.73	457.0	1,110	427.0	28.2	809.0	9,080	---	<5
	7/28/10	<5	104.0	4,760	1.08	3.30	130.0	1,160	407.0	27.2	1110.0	10,400	---	<5
	2/16/11	<2.0	81.4	4,180	0.624	2.01	3,010	1,130	370	27.3	972	9,980	---	<2.0
	8/18/11	<5.0	97.6	4,550	0.752	3.95	383	1,020	345	24.0	676	11,100	---	<5.0
MW-20	11/23/04	<1.00	82	606	2.49	2.9	79.7	176	62.6	13.6	104	985	---	<1.00
	2/11/05	<1.00	88	745	1.86	4.34	73.8	227	77.5	15	117	1,480	---	<1.00

TABLE II

GROUNDWATER ANALYTICAL SUMMARY
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
G.L. ERWIN "A & B" FEDERAL NCT-2 TANK BATTERY
SW/4, SE/4, SECTION 35, TOWNSHIP 24 SOUTH, RANGE 37 EAST
LEA COUNTY, NEW MEXICO

Well Number	Sample Date	Carbonate (mg/L)	Bicarbonate (mg/L)	Chloride (mg/L)	Fluoride (mg/L)	Nitrate - N (mg/L)	Sulfate (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Potassium (mg/L)	Sodium (mg/L)	TDS (mg/L)	Hardness (mg/L)	Hydroxide (mg/L)
NMWQCC Standard (mg/L)				250	1.60	10.00	600.0	---	---	---	---	1000	---	---
MW-20 (cont)	8/5/05	<1.00	80	1,170	1.76	4.55	84.5	326	116	14.7	162	2,640	---	<1.00
	2/22/06	<10.0	110	1,100	0.98	5.5	83	295	103	13.5	145	3,000	---	<10.0
	8/24/06	<10.0	1,100	1,100	<2.5	3.39	84	288	101	11.2	160	3,590	-	<10.0
	2/28/07	<10	110	1,300	1.4	5.1	95	332	107	14.6	165	4,500	---	<10
	8/22/07	<10	419	1,400	0.80	5.70	100.0	346	119	11.9	203	4,100	---	419
	2/20/08	<5	117	1,540	1.1	3.83	108	393	158	18.7	247	3,550	---	<5
	8/12/08	<1.53	135.0	1,570	2.02	3.73	113.0	392.0	154.0	18.5	249.0	4,290	---	<1.53
	02/19/09	<5	130.0	1,600	1.00	3.70	130.0	440.0	150.0	20.0	290.0	3,900	---	<5
	7/29/09	<5	120.0	1,700	1.10	4.10	150.0	400.0	150.0	21.0	280.0	4,600	---	<5
	2/25/10	<5	107.0	1,500	0.80	4.03	98.8	402.0	146.0	13.9	229.0	3,460	---	<5
	7/28/10	<5	102.0	245	2.00	3.43	143.0	451.0	156.0	13.6	289.0	4,740	---	<5
	2/16/11	<2.0	98.4	1,810	0.972	3.89	1,070	442	134	13.3	274	4,240	---	<2.0
	8/18/11	<5.0	106	1,610	1.16	3.99	135	393	128	11.1	253	4,550	---	<5.0
MW-21	11/28/07	1.14	415.0	482	---	---	128.0	173.0	64.4	18.3	115.0	1,440	---	1.14
	2/20/08	<5	115	606	1.9	5.15	159	205	71.3	14.4	110	1,740	---	<5
	8/12/08	<1.53	126.0	544	2.00	4.68	147.0	193.0	64.7	12.5	116.0	2,060	---	<1.53
	02/19/09	<5	190.0	400	2.10	4.30	140.0	150.0	46.0	11.0	120.0	1,200	---	<5
	7/29/09	<5	210.0	330	2.20	4.40	150.0	120.0	38.0	10.0	96.0	1,200	---	<5
	2/24/10	<5	184.0	280	1.79	4.04	143.0	123.0	37.8	7.9	100.0	1,030	---	<5
	7/28/10	<5	168.0	2970	0.61	3.41	150.0	109.0	34.3	7.8	95.8	1,010	---	<5
	2/16/11	<2.0	149	240	1.87	4.56	250	106	33.4	8.13	90.0	888	---	<2.0
	8/18/11	<5.0	176	213	2.15	4.93	141	89.5	27.5	5.90	79.1	876	---	<5.0
MW-22	11/28/07	1.14	2950.0	1,020			169.0	286.0	96.7	12.1	229.0	2,330	---	1.14
	2/20/08	<5	374	1,060	0.93	2.7	171	291	102	11.1	244	2,560	---	<5
	8/12/08	<1.53	143.0	1,370	1.70	2.73	167.0	359.0	129.0	12.9	272.0	3,670	---	<1.53
	02/20/09	<5	270.0	2,000	0.74	2.40	180.0	570.0	190.0	17.0	380.0	5,300	---	<5
	7/29/09	<5	310.0	3,000	0.85	2.60	200.0	730.0	260.0	25.0	570.0	6,700	---	<5
	2/25/10	<5	142.0	3,630	0.27	2.92	166.0	802.0	251.0	15.4	590.0	7,060	---	<5
	7/28/10	<5	136.0	3,640	0.64	2.17	204.0	982.0	309.0	15.9	865.0	8,760	---	<5
	2/16/11	<2.0	138	3,650	0.568	1.90	1,530	834	252	14.9	830	7,490	---	<2.0
	8/18/11	<5.0	142	4,020	0.594	2.94	206	745	232	13.7	974	8,900	---	<5.0

TABLE II

GROUNDWATER ANALYTICAL SUMMARY
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
G.L. ERWIN "A & B" FEDERAL NCT-2 TANK BATTERY
SW/4, SE/4, SECTION 35, TOWNSHIP 24 SOUTH, RANGE 37 EAST
LEA COUNTY, NEW MEXICO

Well Number	Sample Date	Carbonate (mg/L)	Bicarbonate (mg/L)	Chloride (mg/L)	Fluoride (mg/L)	Nitrate - N (mg/L)	Sulfate (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Potassium (mg/L)	Sodium (mg/L)	TDS (mg/L)	Hardness (mg/L)	Hydroxide (mg/L)
NMWQCC Standard (mg/L)				250	1.60	10.00	600.0	---	---	---	---	1000	---	---
West	8/22/97	--	--	250	--	--	--	--	--	--	--	--	--	--
	2/17/98	<2.0	370	237	--	--	134	--	--	--	--	975	96	--
	2/7/01	<1.0	236	340	2	4.5	120	39.7	12.5	33.2	264	1,000	--	--
	05/03/02	<1.0	214	329	1.39	4.36	116	41.9	11.9	40.9	234	--	---	<1.00
	10/14/02	<0.1	210	337	--	--	127	39.3	9.37	35.6	290	986	--	<0.10
	12/27/02	<0.1	198	337	---	---	134	43.1	12.5	33.2	263	997	--	<0.10
	2/18/03	<0.1	190	354	---	---	141	33.6	9.78	23.9	152	1,010	---	<0.10
	5/30/03	<1.0	202	353	1.54	4.16	116	48.4	13.3	35.1	283	1,050	---	<1.00
	8/25/03	<1.0	194	351	1.5	4.08	112	49.4	13.2	38.4	265	1,066	---	<1.00
	11/7/03	<1.0	204	327	1.65	3.98	115	51.3	13.8	38.8	235	1,100	---	<1.00
	2/5/04	<1.0	196	345	1.66	4.09	112	51.6	14.6	41.4	235	1,074	---	<1.00
	5/6/04	<1.00	200	339	1.44	3.83	115	53.6	14	37.3	241	1,040	---	<1.00
	8/3/04	<0.1	186	337	---	---	147	41.7	20.1	49.1	297	717	---	<0.10
	2/11/05	<1.00	186	417	2.44	4.47	117	75.9	21.4	43.9	241	1,128	---	<1.00
	8/4/05	<1.00	150	526	1.54	4.16	129	87	23.6	42.2	280	1,104	---	<1.00
	2/23/06	<10.0	150	800	0.76	4	110	149	44.3	47.1	257	2,390	---	<10.0
	8/25/06	<10.0	150	1,500	<2.5	2.78	97	315	87.6	67.7	400	4,840	---	<10.0
	2/28/07	<10	120	2,500	0.86	6.6	120	515	130	98.7	410	7,600	---	<10
	8/21/07	<10	99.8	3,700	0.20	4.31	180.0	844	251	72.7	665	12,700	---	99.8
	2/20/08	<5	119	2,780	0.54	3.43	202	662	189	81.8	564	5,850	---	<5
	8/13/08	<5	175.0	1,940	1.57	3.89	227.0	387.0	119.0	61.8	588.0	5,570	---	<5
	02/19/09	<5	180.0	1,700	0.67	2.80	230.0	330.0	100.0	51.0	550.0	4,300	---	<5
	7/29/09	<5	190.0	1,200	0.81	3.40	240.0	230.0	74.0	37.0	400.0	3,200	---	<5
	7/28/10	<5	238.0	541	0.99	2.69	224.0	128.0	36.6	26.0	345.0	1,760	---	<5
	2/16/11	<2.0	193	417	1.10	3.56	329	91.0	24.8	20.0	263	1,300	---	<2.0
	8/18/11	<5.0	247	322	1.36	3.66	205	68.5	18.1	15.1	232	1,220	---	<5.0
Southwest	8/22/97	--	--	3,300	--	--	--	---	--	--	--	--	--	--
	2/17/98	<2.0	420	2,170	--	--	255	--	--	--	--	4,719	712	--
	2/7/01	<1.0	326	1,900	2.2	5	350	197	59.1	---	1078	4,100	--	--
	05/03/02	<1.0	272	1,490	1.38	4.51	301	200	65	46.4	744	--	--	<1.00
	10/14/02	<0.1	330	1,330	--	--	360	110	32.5	61.5	929	3,020	--	<0.10
	12/27/02	<0.1	308	1,280	---	---	319	107	31.9	66.8	980	3,040	--	<0.10

TABLE II

GROUNDWATER ANALYTICAL SUMMARY
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
G.L. ERWIN "A & B" FEDERAL NCT-2 TANK BATTERY
SW/4, SE/4, SECTION 35, TOWNSHIP 24 SOUTH, RANGE 37 EAST
LEA COUNTY, NEW MEXICO

Well Number	Sample Date	Carbonate (mg/L)	Bicarbonate (mg/L)	Chloride (mg/L)	Fluoride (mg/L)	Nitrate - N (mg/L)	Sulfate (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Potassium (mg/L)	Sodium (mg/L)	TDS (mg/L)	Hardness (mg/L)	Hydroxide (mg/L)
NMWQCC Standard (mg/L)				250	1.60	10.00	600.0	---	---	---	---	1000	---	---
SW (cont)	2/18/03	<0.1	289	1,290	---	---	300	104	31.3	63	918	2,910	---	<0.10
Dup	2/18/03	<0.1	298	1,310	---	---	299	108	32.2	58.3	812	3,040	---	<0.10
	6/2/03	<1.0	304	1,420	2.34	5.83	282	161	45.7	49.1	935	4,070	---	<1.00
Dup	6/2/03	<1.0	290	1,370	2.12	5.65	287	169	54.5	45	899	3,420	---	<1.00
	8/25/03	<1.0	310	1,190	2.25	6.1	272	117	33.6	49.7	774	3,205	---	<1.00
Dup	8/25/03	<1.0	200	1,260	<2.00	5.61	75.5	159	41.8	79	591	3,270	---	<1.00
	11/7/03	<1.0	300	1,240	2.29	5.77	255	129	35.4	48.5	727	3,275	---	<1.00
	2/5/04	<1.0	300	1,240	2.37	6.17	238	109	33.1	52.2	716	2,860	---	<1.00
	5/6/04	<1.00	294	1,310	<3.00	6.38	231	158	30.8	53.2	780	3,180	---	<1.00
	8/3/04	<0.1	276	1,400	---	---	264	75.1	45.2	82.4	1660	2,550	---	<0.10
	2/11/05	<1.00	260	2,920	1.33	9.61	230	323	94.5	84.4	1240	5,575	---	<1.00
	8/4/05	<1.00	226	5,290	1.55	11.7	325	691	201	101	1980	12,000	---	<1.00
	2/23/06	<10.0	300	3,000		11	450	373	108	77.1	896	6,300	---	<10.0
	8/25/06	<10.0	300	3,100	<5.0	5.99	600	415	117	74.9	1240	7,600	---	<10.0
	2/28/07	<10	310	4,500	0.51	8.8	670	511	130	93.7	994	9,120	---	<10
	8/21/07	<10	265	5,500	0.10	11.7	860.0	879	242	82.6	2040	14,900	---	265
	2/20/08	<5	278	5,940	0.63	9.3	896	1010	281	120	2300	13,100	---	<5
	8/13/08	<5	268.0	5,670	4.18	8.14	775.0	934.0	237.0	112.0	2,110.0	13,700	---	<5
	02/19/09	<5	280.0	5,200	0.78	5.40	870.0	920.0	240.0	120.0	2,300.0	13,000	---	<5
	7/29/09	<5	260.0	5,300	0.96	6.10	810.0	790.0	240.0	110.0	2,200.0	12,000	---	<5
	7/28/10	<5	254.0	3,890	0.96	5.17	565.0	758.0	190.0	67.6	1,770.0	8,850	---	<5
Dup 1	7/28/10	<5	274.0	4,050	0.89	3.98	591.0	667.0	184.0	67.9	1,730.0	7,250	---	<5
	2/16/11	<2.0	228	3,360	0.881	0.812	2,450	538	156	63.3	1,470	8,320	---	<2.0
	8/18/11	<5.0	319	3,370	1.04	5.10	643	401	98.9	48.6	1,310	5,170	---	<5.0
RW-1	10/20/00	<1.0	330	1,500	1.7	5.2	330	107	29.6	50	843	3,200	--	--
	10/14/02	<0.1	327	1,150	--	--	340	60.3	25.5	64.3	820	2,720	--	<0.10
	12/27/02	<0.1	294	1,300	--	--	330	123	40.3	56.8	933	3,190	--	<0.10
	2/18/03	<0.1	300	1,150	---	---	316	79.7	25.7	53	721	2,690	---	<0.10
	6/2/03	<1.0	276	1,500	2.05	5.34	275	194	67.21	40.8	923	4,070	---	<1.00
	8/25/03	<1.0	298	1,190	2.01	6.15	278	117	32.7	46.1	705	2,940	---	<1.00
	11/7/03	<1.0	298	1,300	2.13	5.56	266	166	48.1	51.7	106	3,240	---	<1.00
	2/5/04	<1.0	292	1,270	2.22	5.92	246	148	44.7	53.8	704	2,780	---	<1.00

TABLE II

GROUNDWATER ANALYTICAL SUMMARY
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
G.L. ERWIN "A & B" FEDERAL NCT-2 TANK BATTERY
SW/4, SE/4, SECTION 35, TOWNSHIP 24 SOUTH, RANGE 37 EAST
LEA COUNTY, NEW MEXICO

Well Number	Sample Date	Carbonate (mg/L)	Bicarbonate (mg/L)	Chloride (mg/L)	Fluoride (mg/L)	Nitrate - N (mg/L)	Sulfate (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Potassium (mg/L)	Sodium (mg/L)	TDS (mg/L)	Hardness (mg/L)	Hydroxide (mg/L)
NMWQCC Standard (mg/L)				250	1.60	10.00	600.0	---	---	---	---	1000	---	---
RW-1 (cont)	5/6/04	<1.00	310	1,100	<3.00	6.62	235	104	28.3	53.8	635	2,840	---	<1.00
Dup	5/6/04	<1.00	288	1,040	<3.00	6.64	243	90	24.1	44.5	642	2,705	---	<1.00
	8/4/04	<0.1	284	1,120	---	---	290	44.8	33	86.9	785	2,250	---	<0.10
Dup	8/4/04	<0.1	288	1,130	---	---	274	45	31.6	84	961	2,550	---	<0.10
	2/11/05	<1.00	262	1,730	3.59	8.93	217	172	51.5	84	910	3,995	---	<1.00
Dup	2/11/05	<1.00	268	1,690	2	8.59	224	159	46.4	81	813	3,170	---	<1.00
	8/4/05	<1.00	252	2,470	1.26	5.8	188	262	76.1	87.5	1090	5,120	---	<1.00
	2/23/06	<10.0	290	2,400	<2.5	8.9	350	234	67.6	70.4	762	4,680	---	<10.0
	8/25/06	<10	290	2,300	<5	4.41	440	281	77.3	68.5	1040	5,610	-	<10.0
Dup	8/25/06	<10.0	300	2,300	<5	4.6	450	272	77.3	67.1	1030	5,570	-	<10.0
	2/28/07	<10	300	3,100	<0.5	3.5	590	353	97.7	82.2	848	7,400	---	<10
Dup	2/28/07	<10	290	3,200	<0.5	3.5	600	416	115	83.4	878	7,280	---	<10
	8/21/07	<10	265	4,100	0.30	3.54	620.0	656	193	72.6	1640	11,300	---	265
Dup	8/21/07	<10	263	4,100	0.10	3.38	600.0	655	192	72.5	1630	11,400	---	263
	2/20/08	<5	473	5,130	0.56	6.8	677	892	255	126	1810	11,000	---	<5
Dup	2/20/08	<5	231	5,120	0.55	6.78	674	888	252	126	1800	10,800	---	<5
	8/12/08	<1.53	255.0	4,650	1.06	6.43	628.0	816.0	232.0	107.0	1770.0	11,000	---	<1.53
Dup	8/12/08	<1.53	229.0	4,600	1.05	6.37	612.0	778.0	222.0	105.0	1740.0	10,900	---	<1.53
	02/20/09	<5	260.0	4,600	0.69	1.40	690.0	680.0	200.0	84.0	1700.0	11,000	---	<5
Dup	02/20/09	<5	240.0	4,400	0.65	4.20	630.0	660.0	190.0	83.0	1600.0	11,000	---	<5
	7/29/09	<5	240.0	4,300	0.73	3.30	620.0	650.0	220.0	94.0	1700.0	10,000	---	<5
Dup	7/29/09	<5	240.0	4,200	0.72	3.70	600.0	640.0	220.0	95.0	1700.0	9,900	---	<5
	2/25/10	<5	263.0	4,890	0.34	4.28	650.0	680.0	180.0	75.6	1650.0	8,870	---	<5
	7/28/10	<5	254.0	2,920	0.77	4.98	455.0	442.0	132.0	59.5	1310.0	7,200	---	<5
WW-1	05/01/02	<1.0	172	97.2	1.64	4.05	137	51.4	23.4	8.23	84.9	---	---	<1.00
	10/10/02	<0.1	168	106	---	---	124	52.7	22.2	9.99	106	605	---	<0.10
	12/27/02	<0.1	157	111	--	--	134	55	22.5	5.3	96	572	--	<0.10
	2/18/03	<0.1	152	115	---	---	137	53.8	22.1	6.38	93.5	601	---	<0.10
	6/2/03	<1.0	154	127	1.69	3.77	119	59.5	24.1	7.14	118	621	---	<1.00
	8/25/03	<1.0	148	136	1.7	3.72	111	63	24	8.43	104	652	---	<1.00
	11/7/03	<1.0	156	149	1.8	3.62	111	62.3	24.4	8.3	95.5	669	---	<1.00
	2/4/04	<1.0	156	185	1.81	3.79	102	68.2	25.5	8.7	92.4	709	---	<1.00

TABLE II

GROUNDWATER ANALYTICAL SUMMARY
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
G.L. ERWIN "A & B" FEDERAL NCT-2 TANK BATTERY
SW/4, SE/4, SECTION 35, TOWNSHIP 24 SOUTH, RANGE 37 EAST
LEA COUNTY, NEW MEXICO

Well Number	Sample Date	Carbonate (mg/L)	Bicarbonate (mg/L)	Chloride (mg/L)	Fluoride (mg/L)	Nitrate - N (mg/L)	Sulfate (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Potassium (mg/L)	Sodium (mg/L)	TDS (mg/L)	Hardness (mg/L)	Hydroxide (mg/L)
NMWQCC Standard (mg/L)				*250*	*1.60*	*10.00*	*600.0*	---	---	---	---	*1000*	---	---
WW-1 (cont)	5/5/04	<1.00	148	204	1.54	3.48	99.7	71.9	26.5	8.25	120	695	---	<1.00
	8/4/04	<0.1	132	222	---	---	114	92.3	37.9	9.89	139	471	---	<0.10
	8/4/05							NS						
	2/23/06							NS						
	3/1/07	<10	130.0	360	1.50	3.20	77.0	101.0	30.7	5.9	103.0	1,060	---	<10
	8/21/07							NS						
	2/21/08	<5	106	461	1.22	2.9	84.4	112	41.4	6.82	118	1,310	---	<5
	8/12/08							NS						
	02/20/09	<5	150.0	320	1.30	2.80	100.0	97.0	33.0	6.4	110.0	1,100	---	<5
	7/29/09							NS						
	2/24/10	<5	128.0	246	1.23	2.89	115.0	80.10	27.20	4.93	107.0	804	---	<5
	2/16/11	<2.0	127	232	1.21	2.80	232	83.3	26.8	5.40	101	822	---	<2.0

Notes:

1. mg/L: Milligrams per liter
2. <: Concentration below test method detectin limit
3. - -: No data available
4. NS: Not Sampled
5. RW: Recovery well
6. WW: Water well
7. Highlight: Result exceeds NMWQCC standard
8. **Bold** indicates laboratory detection
9. B: This Qualifier indicates that the analyte is an estimated value between the RL and the MDL
10. All analyses prior to 10/14/02 conducted by TraceAnalysis, Inc., Lubbock, TX
11. Analyses from 10/14/02 conducted by Environmental Lab of Texas, Odessa, TX
12. Analyses from 5/30/03 through 08/2005 conducted by Trace Analysis Inc., Lubbock, TX
13. Analyses from 02/2006 through 08/2007, conducted by Pace Analytical, St. Rose, LA and Greenbay, WI Laboratories
14. Analyses from 02/2008 through 08/2009, conducted by Test America, Houston, TX
15. Analyses from 02/2010 and following, conducted by ALS Environmental, Houston, TX

ALS Environmental

03-Mar-2011

Patricia Lynch
Conestoga-Rovers & Associates
6320 Rothway, Suite 100
Houston, TX 77040

Tel: (713) 734-3090
Fax: (713) 734-3391

Re: G.L. Erwin Work Order: **1102473**

Dear Patricia,

ALS Environmental received 26 samples on 17-Feb-2011 11:50 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 49.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

R. Kevin Given

Electronically approved by: Glenda H. Ramos

R. Kevin Given
Project Manager

ACCREDITED IN ACCORDANCE WITH nelac
Certificate No: TX: T104704231-10-3

ALS Environmental

Date: 28-Feb-11

Client: Conestoga-Rovers & Associates
Project: G.L. Erwin
Work Order: **1102473**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
1102473-01	MW-1 021611	Water		2/16/2011 12:05	2/17/2011 11:50	☐
1102473-02	MW-2 021611	Water		2/16/2011 12:25	2/17/2011 11:50	☐
1102473-03	MW-3 021611	Water		2/16/2011 12:45	2/17/2011 11:50	☐
1102473-04	MW-4 021611	Water		2/16/2011 14:30	2/17/2011 11:50	☐
1102473-05	MW-5 021611	Water		2/16/2011 13:15	2/17/2011 11:50	☐
1102473-06	MW-6 021611	Water		2/16/2011 11:16	2/17/2011 11:50	☐
1102473-07	MW-7 021611	Water		2/16/2011 12:28	2/17/2011 11:50	☐
1102473-08	MW-8 021611	Water		2/16/2011 11:45	2/17/2011 11:50	☐
1102473-09	MW-9 021611	Water		2/16/2011 11:45	2/17/2011 11:50	☐
1102473-10	MW-10 021611	Water		2/16/2011 12:55	2/17/2011 11:50	☐
1102473-11	MW-11 021611	Water		2/16/2011 13:10	2/17/2011 11:50	☐
1102473-12	MW-12 021611	Water		2/16/2011 12:05	2/17/2011 11:50	☐
1102473-13	MW-13 021611	Water		2/16/2011 11:34	2/17/2011 11:50	☐
1102473-14	MW-14 021611	Water		2/16/2011 12:43	2/17/2011 11:50	☐
1102473-15	MW-15 021611	Water		2/16/2011 12:12	2/17/2011 11:50	☐
1102473-16	MW-16 021611	Water		2/16/2011 11:58	2/17/2011 11:50	☐
1102473-17	MW-17 021611	Water		2/16/2011 12:53	2/17/2011 11:50	☐
1102473-18	MW-19 021611	Water		2/16/2011 12:35	2/17/2011 11:50	☐
1102473-19	MW-20 021611	Water		2/16/2011 12:18	2/17/2011 11:50	☐
1102473-20	MW-21 021611	Water		2/16/2011 12:27	2/17/2011 11:50	☐
1102473-21	MW-22 021611	Water		2/16/2011 11:25	2/17/2011 11:50	☐
1102473-22	MW-West 021611	Water		2/16/2011 14:15	2/17/2011 11:50	☐
1102473-23	SW-MW 021611	Water		2/16/2011 13:55	2/17/2011 11:50	☐
1102473-24	WW-1 021611	Water		2/16/2011 15:00	2/17/2011 11:50	☐
1102473-25	Dup-1 021611	Water		2/16/2011	2/17/2011 11:50	☐
1102473-26	Dup-2 021611	Water		2/16/2011	2/17/2011 11:50	☐

Client:	Conestoga-Rovers & Associates
Project:	G.L. Erwin
Work Order:	1102473

Case Narrative

Batch 50268, Metals, Sample "MW-12 021611": The recoveries of several metals were outside control limits on the MS/MSD as a result of the high background concentrations.

Batch 50269, Metals, Sample "Dup-2 021611": The recoveries of several metals were outside control limits on the MS/MSD as a result of the high background concentrations.

Batch R105620, Anions, Samples "MW-4 021611", "MW-16 021611", and "MW-17 021611": The recoveries of several anions were outside control limits on the MS/MSD as a result of the high background concentrations.

Batch R105687, Anions: The MS/MSDs were performed on unrelated samples.

ALS Environmental

Date: *28-Feb-11*

Client: Conestoga-Rovers & Associates
Project: G.L. Erwin
Sample ID: MW-1 021611
Collection Date: 2/16/2011 12:05 PM

Work Order: 1102473
Lab ID: 1102473-01
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DISSOLVED METALS		Method: **SW6020**		Prep: SW3010A / 2/23/11			Analyst: **ALR**
Calcium	**57.5**		**0.050**	**0.500**	**mg/L**	1	2/24/2011 02:16
Magnesium	**18.7**		**0.039**	**0.200**	**mg/L**	1	2/24/2011 02:16
Potassium	**3.98**		**0.10**	**0.200**	**mg/L**	1	2/24/2011 02:16
Sodium	**94.4**		**0.10**	**0.200**	**mg/L**	1	2/24/2011 02:16
ANIONS		Method: **E300**					Analyst: **TDW**
Chloride	**149**		**1.00**	**2.50**	**mg/L**	5	2/18/2011 19:08
Fluoride	**1.74**		**0.0500**	**0.100**	**mg/L**	1	2/18/2011 00:10
Nitrogen, Nitrate (As N)	**3.12**		**0.0300**	**0.100**	**mg/L**	1	2/18/2011 00:10
Sulfate	**82.0**		**0.200**	**0.500**	**mg/L**	1	2/18/2011 00:10
Surr: Selenate (surr)	*114*			*85-115*	*%REC*	1	2/18/2011 00:10
Surr: Selenate (surr)	*105*			*85-115*	*%REC*	5	2/18/2011 19:08
ALKALINITY		Method: **SM2320B**					Analyst: **DM**
Alkalinity, Bicarbonate (As CaCO3)	**165**		**2.0**	**5.00**	**mg/L**	1	2/24/2011 16:30
Alkalinity, Carbonate (As CaCO3)	ND		2.0	5.00	mg/L	1	2/24/2011 16:30
Alkalinity, Hydroxide (As CaCO3)	ND		2.0	5.00	mg/L	1	2/24/2011 16:30
Alkalinity, Total (As CaCO3)	**165**		**2.0**	**5.00**	**mg/L**	1	2/24/2011 16:30
TOTAL DISSOLVED SOLIDS		Method: **M2540C**					Analyst: **JKP**
Total Dissolved Solids (Residue, Filterable)	**510**		**5.0**	**10.0**	**mg/L**	1	2/21/2011 14:00

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *28-Feb-11*

Client: Conestoga-Rovers & Associates
Project: G.L. Erwin
Sample ID: MW-2 021611
Collection Date: 2/16/2011 12:25 PM

Work Order: 1102473
Lab ID: 1102473-02
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DISSOLVED METALS		Method: **SW6020**			Prep: SW3010A / 2/23/11		Analyst: **ALR**
Calcium	**47.6**		**0.050**	**0.500**	**mg/L**	1	2/24/2011 02:21
Magnesium	**13.9**		**0.039**	**0.200**	**mg/L**	1	2/24/2011 02:21
Potassium	**5.08**		**0.10**	**0.200**	**mg/L**	1	2/24/2011 02:21
Sodium	**276**		**5.0**	**10.0**	**mg/L**	50	2/24/2011 13:40
ANIONS		Method: **E300**					Analyst: **TDW**
Chloride	**305**		**2.00**	**5.00**	**mg/L**	10	2/18/2011 19:29
Fluoride	**1.26**		**0.0500**	**0.100**	**mg/L**	1	2/18/2011 01:35
Nitrogen, Nitrate (As N)	**5.30**		**0.0300**	**0.100**	**mg/L**	1	2/18/2011 01:35
Sulfate	**154**		**2.00**	**5.00**	**mg/L**	10	2/18/2011 19:29
Surr: Selenate (surr)	*113*			*85-115*	*%REC*	1	2/18/2011 01:35
Surr: Selenate (surr)	*103*			*85-115*	*%REC*	10	2/18/2011 19:29
ALKALINITY		Method: **SM2320B**					Analyst: **DM**
Alkalinity, Bicarbonate (As CaCO3)	**250**		**2.0**	**5.00**	**mg/L**	1	2/24/2011 14:00
Alkalinity, Carbonate (As CaCO3)	ND		2.0	5.00	mg/L	1	2/24/2011 14:00
Alkalinity, Hydroxide (As CaCO3)	ND		2.0	5.00	mg/L	1	2/24/2011 14:00
Alkalinity, Total (As CaCO3)	**250**		**2.0**	**5.00**	**mg/L**	1	2/24/2011 14:00
TOTAL DISSOLVED SOLIDS		Method: **M2540C**					Analyst: **JKP**
Total Dissolved Solids (Residue, Filterable)	**1,050**		**5.0**	**10.0**	**mg/L**	1	2/21/2011 14:00

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *28-Feb-11*

Client: Conestoga-Rovers & Associates
Project: G.L. Erwin
Sample ID: MW-3 021611
Collection Date: 2/16/2011 12:45 PM

Work Order: 1102473
Lab ID: 1102473-03
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DISSOLVED METALS		Method: **SW6020**		Prep: SW3010A / 2/23/11			Analyst: **ALR**
Calcium	**135**		**0.050**	**0.500**	**mg/L**	1	2/24/2011 02:26
Magnesium	**41.3**		**0.039**	**0.200**	**mg/L**	1	2/24/2011 02:26
Potassium	**14.4**		**0.10**	**0.200**	**mg/L**	1	2/24/2011 02:26
Sodium	**746**		**5.0**	**10.0**	**mg/L**	50	2/24/2011 13:46
ANIONS		Method: **E300**					Analyst: **TDW**
Chloride	**1,300**		**10.0**	**25.0**	**mg/L**	50	2/18/2011 19:50
Fluoride	**1.40**		**0.0500**	**0.100**	**mg/L**	1	2/18/2011 04:02
Nitrogen, Nitrate (As N)	**8.97**		**0.0300**	**0.100**	**mg/L**	1	2/18/2011 04:02
Sulfate	**1,290**		**10.0**	**25.0**	**mg/L**	50	2/18/2011 19:50
Surr: Selenate (surr)	*113*			*85-115*	*%REC*	1	2/18/2011 04:02
Surr: Selenate (surr)	*104*			*85-115*	*%REC*	50	2/18/2011 19:50
ALKALINITY		Method: **SM2320B**					Analyst: **DM**
Alkalinity, Bicarbonate (As CaCO3)	**238**		**2.0**	**5.00**	**mg/L**	1	2/24/2011 14:00
Alkalinity, Carbonate (As CaCO3)	ND		2.0	5.00	mg/L	1	2/24/2011 14:00
Alkalinity, Hydroxide (As CaCO3)	ND		2.0	5.00	mg/L	1	2/24/2011 14:00
Alkalinity, Total (As CaCO3)	**238**		**2.0**	**5.00**	**mg/L**	1	2/24/2011 14:00
TOTAL DISSOLVED SOLIDS		Method: **M2540C**					Analyst: **JKP**
Total Dissolved Solids (Residue, Filterable)	**2,430**		**5.0**	**10.0**	**mg/L**	1	2/21/2011 14:00

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *28-Feb-11*

Client: Conestoga-Rovers & Associates
Project: G.L. Erwin
Sample ID: MW-4 021611
Collection Date: 2/16/2011 02:30 PM

Work Order: 1102473
Lab ID: 1102473-04
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DISSOLVED METALS		Method: **SW6020**		Prep: SW3010A / 2/23/11			Analyst: **IGF**
Calcium	**179**		**2.5**	**25.0**	**mg/L**	50	2/24/2011 13:51
Magnesium	**53.6**		**0.039**	**0.200**	**mg/L**	1	2/24/2011 02:31
Potassium	**30.6**		**0.10**	**0.200**	**mg/L**	1	2/24/2011 02:31
Sodium	**1,300**		**5.0**	**10.0**	**mg/L**	50	2/24/2011 13:51
ANIONS		Method: **E300**					Analyst: **TDW**
Chloride	**2,480**		**8.00**	**20.0**	**mg/L**	40	2/18/2011 20:11
Fluoride	**0.540**		**0.0500**	**0.100**	**mg/L**	1	2/18/2011 06:30
Nitrogen, Nitrate (As N)	**4.08**		**0.0300**	**0.100**	**mg/L**	1	2/18/2011 06:30
Sulfate	**1,240**		**8.00**	**20.0**	**mg/L**	40	2/18/2011 20:11
Surr: Selenate (surr)	*102*			*85-115*	*%REC*	1	2/18/2011 06:30
Surr: Selenate (surr)	*102*			*85-115*	*%REC*	40	2/18/2011 20:11
ALKALINITY		Method: **SM2320B**					Analyst: **DM**
Alkalinity, Bicarbonate (As CaCO3)	**337**		**2.0**	**5.00**	**mg/L**	1	2/24/2011 14:00
Alkalinity, Carbonate (As CaCO3)	ND		2.0	5.00	mg/L	1	2/24/2011 14:00
Alkalinity, Hydroxide (As CaCO3)	ND		2.0	5.00	mg/L	1	2/24/2011 14:00
Alkalinity, Total (As CaCO3)	**337**		**2.0**	**5.00**	**mg/L**	1	2/24/2011 14:00
TOTAL DISSOLVED SOLIDS		Method: **M2540C**					Analyst: **JKP**
Total Dissolved Solids (Residue, Filterable)	**5,840**		**5.0**	**10.0**	**mg/L**	1	2/22/2011 10:00

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *28-Feb-11*

Client: Conestoga-Rovers & Associates
Project: G.L. Erwin
Sample ID: MW-5 021611
Collection Date: 2/16/2011 01:15 PM

Work Order: 1102473
Lab ID: 1102473-05
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DISSOLVED METALS		Method: **SW6020**		Prep: SW3010A / 2/23/11			Analyst: **ALR**
Calcium	**64.7**		**0.050**	**0.500**	**mg/L**	1	2/24/2011 02:36
Magnesium	**18.8**		**0.039**	**0.200**	**mg/L**	1	2/24/2011 02:36
Potassium	**14.9**		**0.10**	**0.200**	**mg/L**	1	2/24/2011 02:36
Sodium	**240**		**5.0**	**10.0**	**mg/L**	50	2/24/2011 13:57
ANIONS		Method: **E300**					Analyst: **TDW**
Chloride	**272**		**2.00**	**5.00**	**mg/L**	10	2/18/2011 20:32
Fluoride	**1.12**		**0.0500**	**0.100**	**mg/L**	1	2/18/2011 05:27
Nitrogen, Nitrate (As N)	**5.87**		**0.0300**	**0.100**	**mg/L**	1	2/18/2011 05:27
Sulfate	**413**		**2.00**	**5.00**	**mg/L**	10	2/18/2011 20:32
Surr: Selenate (surr)	*114*			*85-115*	*%REC*	1	2/18/2011 05:27
Surr: Selenate (surr)	*104*			*85-115*	*%REC*	10	2/18/2011 20:32
ALKALINITY		Method: **SM2320B**					Analyst: **DM**
Alkalinity, Bicarbonate (As CaCO3)	**206**		**2.0**	**5.00**	**mg/L**	1	2/24/2011 14:00
Alkalinity, Carbonate (As CaCO3)	ND		2.0	5.00	mg/L	1	2/24/2011 14:00
Alkalinity, Hydroxide (As CaCO3)	ND		2.0	5.00	mg/L	1	2/24/2011 14:00
Alkalinity, Total (As CaCO3)	**206**		**2.0**	**5.00**	**mg/L**	1	2/24/2011 14:00
TOTAL DISSOLVED SOLIDS		Method: **M2540C**					Analyst: **JKP**
Total Dissolved Solids (Residue, Filterable)	**1,010**		**5.0**	**10.0**	**mg/L**	1	2/22/2011 10:00

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *28-Feb-11*

Client: Conestoga-Rovers & Associates
Project: G.L. Erwin
Sample ID: MW-6 021611
Collection Date: 2/16/2011 11:16 AM

Work Order: 1102473
Lab ID: 1102473-06
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DISSOLVED METALS		Method: **SW6020**			Prep: SW3010A / 2/23/11		Analyst: **ALR**
Calcium	**30.8**		**0.050**	**0.500**	**mg/L**	1	2/24/2011 02:42
Magnesium	**8.32**		**0.039**	**0.200**	**mg/L**	1	2/24/2011 02:42
Potassium	**9.81**		**0.10**	**0.200**	**mg/L**	1	2/24/2011 02:42
Sodium	**539**		**5.0**	**10.0**	**mg/L**	50	2/24/2011 14:03
ANIONS		Method: **E300**					Analyst: **TDW**
Chloride	**768**		**2.00**	**5.00**	**mg/L**	10	2/18/2011 20:54
Fluoride	**1.56**		**0.0500**	**0.100**	**mg/L**	1	2/17/2011 21:21
Nitrogen, Nitrate (As N)	**6.36**		**0.0300**	**0.100**	**mg/L**	1	2/17/2011 21:21
Sulfate	**385**		**2.00**	**5.00**	**mg/L**	10	2/18/2011 20:54
Surr: Selenate (surr)	*87.3*			*85-115*	*%REC*	1	2/17/2011 21:21
Surr: Selenate (surr)	*104*			*85-115*	*%REC*	10	2/18/2011 20:54
ALKALINITY		Method: **SM2320B**					Analyst: **DM**
Alkalinity, Bicarbonate (As CaCO3)	**214**		**2.0**	**5.00**	**mg/L**	1	2/24/2011 14:00
Alkalinity, Carbonate (As CaCO3)	ND		2.0	5.00	mg/L	1	2/24/2011 14:00
Alkalinity, Hydroxide (As CaCO3)	ND		2.0	5.00	mg/L	1	2/24/2011 14:00
Alkalinity, Total (As CaCO3)	**214**		**2.0**	**5.00**	**mg/L**	1	2/24/2011 14:00
TOTAL DISSOLVED SOLIDS		Method: **M2540C**					Analyst: **JKP**
Total Dissolved Solids (Residue, Filterable)	**1,800**		**5.0**	**10.0**	**mg/L**	1	2/18/2011 16:00

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *28-Feb-11*

Client: Conestoga-Rovers & Associates
Project: G.L. Erwin
Sample ID: MW-7 021611
Collection Date: 2/16/2011 12:28 PM

Work Order: 1102473
Lab ID: 1102473-07
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DISSOLVED METALS		Method: **SW6020**		Prep: SW3010A / 2/23/11			Analyst: **ALR**
Calcium	**32.8**		**0.050**	**0.500**	**mg/L**	1	2/24/2011 02:57
Magnesium	**9.39**		**0.039**	**0.200**	**mg/L**	1	2/24/2011 02:57
Potassium	**3.64**		**0.10**	**0.200**	**mg/L**	1	2/24/2011 02:57
Sodium	**246**		**5.0**	**10.0**	**mg/L**	50	2/24/2011 14:20
ANIONS		Method: **E300**					Analyst: **TDW**
Chloride	**286**		**1.00**	**2.50**	**mg/L**	5	2/18/2011 15:58
Fluoride	**2.55**		**0.0500**	**0.100**	**mg/L**	1	2/18/2011 11:24
Nitrogen, Nitrate (As N)	**4.07**		**0.0300**	**0.100**	**mg/L**	1	2/18/2011 11:24
Sulfate	**123**		**1.00**	**2.50**	**mg/L**	5	2/18/2011 15:58
Surr: Selenate (surr)	*113*			*85-115*	*%REC*	1	2/18/2011 11:24
Surr: Selenate (surr)	*104*			*85-115*	*%REC*	5	2/18/2011 15:58
ALKALINITY		Method: **SM2320B**					Analyst: **DM**
Alkalinity, Bicarbonate (As CaCO3)	**212**		**2.0**	**5.00**	**mg/L**	1	2/24/2011 14:00
Alkalinity, Carbonate (As CaCO3)	ND		2.0	5.00	mg/L	1	2/24/2011 14:00
Alkalinity, Hydroxide (As CaCO3)	ND		2.0	5.00	mg/L	1	2/24/2011 14:00
Alkalinity, Total (As CaCO3)	**212**		**2.0**	**5.00**	**mg/L**	1	2/24/2011 14:00
TOTAL DISSOLVED SOLIDS		Method: **M2540C**					Analyst: **JKP**
Total Dissolved Solids (Residue, Filterable)	**910**		**5.0**	**10.0**	**mg/L**	1	2/21/2011 14:00

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *28-Feb-11*

Client: Conestoga-Rovers & Associates
Project: G.L. Erwin
Sample ID: MW-8 021611
Collection Date: 2/16/2011 11:45 AM

Work Order: 1102473
Lab ID: 1102473-08
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DISSOLVED METALS		Method: **SW6020**			Prep: SW3010A / 2/23/11		Analyst: **ALR**
Calcium	**53.9**		**0.050**	**0.500**	**mg/L**	1	2/24/2011 03:02
Magnesium	**15.8**		**0.039**	**0.200**	**mg/L**	1	2/24/2011 03:02
Potassium	**4.91**		**0.10**	**0.200**	**mg/L**	1	2/24/2011 03:02
Sodium	**466**		**5.0**	**10.0**	**mg/L**	50	2/24/2011 14:43
ANIONS		Method: **E300**					Analyst: **TDW**
Chloride	**749**		**2.00**	**5.00**	**mg/L**	10	2/22/2011 09:47
Fluoride	**3.11**		**0.0500**	**0.100**	**mg/L**	1	2/17/2011 22:46
Nitrogen, Nitrate (As N)	**6.73**		**0.0300**	**0.100**	**mg/L**	1	2/17/2011 22:46
Sulfate	**182**		**2.00**	**5.00**	**mg/L**	10	2/22/2011 09:47
Surr: Selenate (surr)	*108*			*85-115*	*%REC*	1	2/17/2011 22:46
Surr: Selenate (surr)	*97.5*			*85-115*	*%REC*	10	2/22/2011 09:47
ALKALINITY		Method: **SM2320B**					Analyst: **DM**
Alkalinity, Bicarbonate (As CaCO3)	**218**		**2.0**	**5.00**	**mg/L**	1	2/24/2011 14:00
Alkalinity, Carbonate (As CaCO3)	ND		2.0	5.00	mg/L	1	2/24/2011 14:00
Alkalinity, Hydroxide (As CaCO3)	ND		2.0	5.00	mg/L	1	2/24/2011 14:00
Alkalinity, Total (As CaCO3)	**218**		**2.0**	**5.00**	**mg/L**	1	2/24/2011 14:00
TOTAL DISSOLVED SOLIDS		Method: **M2540C**					Analyst: **JKP**
Total Dissolved Solids (Residue, Filterable)	**1,760**		**5.0**	**10.0**	**mg/L**	1	2/21/2011 14:00

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *28-Feb-11*

Client: Conestoga-Rovers & Associates
Project: G.L. Erwin
Sample ID: MW-9 021611
Collection Date: 2/16/2011 11:45 AM

Work Order: 1102473
Lab ID: 1102473-09
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DISSOLVED METALS		Method: **SW6020**		Prep: SW3010A / 2/23/11			Analyst: **ALR**
Calcium	**92.5**		**0.050**	**0.500**	**mg/L**	1	2/24/2011 03:07
Magnesium	**29.9**		**0.039**	**0.200**	**mg/L**	1	2/24/2011 03:07
Potassium	**6.80**		**0.10**	**0.200**	**mg/L**	1	2/24/2011 03:07
Sodium	**600**		**5.0**	**10.0**	**mg/L**	50	2/24/2011 14:48
ANIONS		Method: **E300**					Analyst: **TDW**
Chloride	**911**		**2.00**	**5.00**	**mg/L**	10	2/18/2011 21:36
Fluoride	**1.55**		**0.0500**	**0.100**	**mg/L**	1	2/17/2011 22:25
Nitrogen, Nitrate (As N)	**3.03**		**0.0300**	**0.100**	**mg/L**	1	2/17/2011 22:25
Sulfate	**562**		**2.00**	**5.00**	**mg/L**	10	2/18/2011 21:36
Surr: Selenate (surr)	*109*			*85-115*	*%REC*	1	2/17/2011 22:25
Surr: Selenate (surr)	*103*			*85-115*	*%REC*	10	2/18/2011 21:36
ALKALINITY		Method: **SM2320B**					Analyst: **DM**
Alkalinity, Bicarbonate (As CaCO3)	**311**		**2.0**	**5.00**	**mg/L**	1	2/24/2011 16:30
Alkalinity, Carbonate (As CaCO3)	ND		2.0	5.00	mg/L	1	2/24/2011 16:30
Alkalinity, Hydroxide (As CaCO3)	ND		2.0	5.00	mg/L	1	2/24/2011 16:30
Alkalinity, Total (As CaCO3)	**311**		**2.0**	**5.00**	**mg/L**	1	2/24/2011 16:30
TOTAL DISSOLVED SOLIDS		Method: **M2540C**					Analyst: **JKP**
Total Dissolved Solids (Residue, Filterable)	**1,830**		**5.0**	**10.0**	**mg/L**	1	2/21/2011 14:00

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *28-Feb-11*

Client: Conestoga-Rovers & Associates
Project: G.L. Erwin
Sample ID: MW-10 021611
Collection Date: 2/16/2011 12:55 PM

Work Order: 1102473
Lab ID: 1102473-10
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DISSOLVED METALS		Method: **SW6020**			Prep: SW3010A / 2/23/11		Analyst: **IGF**
Calcium	**884**		**2.5**	**25.0**	**mg/L**	50	2/24/2011 14:54
Magnesium	**307**		**2.0**	**10.0**	**mg/L**	50	2/24/2011 14:54
Potassium	**17.0**		**0.10**	**0.200**	**mg/L**	1	2/24/2011 03:13
Sodium	**586**		**5.0**	**10.0**	**mg/L**	50	2/24/2011 14:54
ANIONS		Method: **E300**					Analyst: **TDW**
Chloride	**3,880**		**8.00**	**20.0**	**mg/L**	40	2/18/2011 21:57
Fluoride	**0.471**		**0.0500**	**0.100**	**mg/L**	1	2/18/2011 04:45
Nitrogen, Nitrate (As N)	**3.66**		**0.0300**	**0.100**	**mg/L**	1	2/18/2011 04:45
Sulfate	**1,670**		**8.00**	**20.0**	**mg/L**	40	2/18/2011 21:57
Surr: Selenate (surr)	*114*			*85-115*	*%REC*	1	2/18/2011 04:45
Surr: Selenate (surr)	*103*			*85-115*	*%REC*	40	2/18/2011 21:57
ALKALINITY		Method: **SM2320B**					Analyst: **DM**
Alkalinity, Bicarbonate (As CaCO3)	**112**		**2.0**	**5.00**	**mg/L**	1	2/24/2011 16:30
Alkalinity, Carbonate (As CaCO3)	ND		2.0	5.00	mg/L	1	2/24/2011 16:30
Alkalinity, Hydroxide (As CaCO3)	ND		2.0	5.00	mg/L	1	2/24/2011 16:30
Alkalinity, Total (As CaCO3)	**112**		**2.0**	**5.00**	**mg/L**	1	2/24/2011 16:30
TOTAL DISSOLVED SOLIDS		Method: **M2540C**					Analyst: **JKP**
Total Dissolved Solids (Residue, Filterable)	**7,790**		**5.0**	**10.0**	**mg/L**	1	2/21/2011 14:00

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *28-Feb-11*

Client: Conestoga-Rovers & Associates
Project: G.L. Erwin
Sample ID: MW-11 021611
Collection Date: 2/16/2011 01:10 PM

Work Order: 1102473
Lab ID: 1102473-11
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DISSOLVED METALS		Method: **SW6020**			Prep: SW3010A / 2/23/11		Analyst: **IGF**
Calcium	**365**		**2.5**	**25.0**	**mg/L**	50	2/24/2011 14:59
Magnesium	**116**		**0.039**	**0.200**	**mg/L**	1	2/24/2011 03:18
Potassium	**9.65**		**0.10**	**0.200**	**mg/L**	1	2/24/2011 03:18
Sodium	**336**		**5.0**	**10.0**	**mg/L**	50	2/24/2011 14:59
ANIONS		Method: **E300**					Analyst: **TDW**
Chloride	**1,720**		**4.00**	**10.0**	**mg/L**	20	2/18/2011 22:18
Fluoride	**0.607**		**0.0500**	**0.100**	**mg/L**	1	2/18/2011 05:06
Nitrogen, Nitrate (As N)	**3.40**		**0.0300**	**0.100**	**mg/L**	1	2/18/2011 05:06
Sulfate	**760**		**4.00**	**10.0**	**mg/L**	20	2/18/2011 22:18
Surr: Selenate (surr)	*102*			*85-115*	*%REC*	1	2/18/2011 05:06
Surr: Selenate (surr)	*103*			*85-115*	*%REC*	20	2/18/2011 22:18
ALKALINITY		Method: **SM2320B**					Analyst: **DM**
Alkalinity, Bicarbonate (As CaCO3)	**115**		**2.0**	**5.00**	**mg/L**	1	2/24/2011 14:00
Alkalinity, Carbonate (As CaCO3)	ND		2.0	5.00	mg/L	1	2/24/2011 14:00
Alkalinity, Hydroxide (As CaCO3)	ND		2.0	5.00	mg/L	1	2/24/2011 14:00
Alkalinity, Total (As CaCO3)	**115**		**2.0**	**5.00**	**mg/L**	1	2/24/2011 14:00
TOTAL DISSOLVED SOLIDS		Method: **M2540C**					Analyst: **JKP**
Total Dissolved Solids (Residue, Filterable)	**3,420**		**5.0**	**10.0**	**mg/L**	1	2/22/2011 10:00

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *28-Feb-11*

Client: Conestoga-Rovers & Associates
Project: G.L. Erwin
Sample ID: MW-12 021611
Collection Date: 2/16/2011 12:05 PM

Work Order: 1102473
Lab ID: 1102473-12
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DISSOLVED METALS		Method: **SW6020**			Prep: SW3010A / 2/23/11		Analyst: **IGF**
Calcium	**528**		**2.5**	**25.0**	**mg/L**	50	2/24/2011 13:17
Magnesium	**184**		**2.0**	**10.0**	**mg/L**	50	2/24/2011 13:17
Potassium	**11.1**		**0.10**	**0.200**	**mg/L**	1	2/23/2011 23:50
Sodium	**190**		**5.0**	**10.0**	**mg/L**	50	2/24/2011 13:17
ANIONS		Method: **E300**					Analyst: **TDW**
Chloride	**2,430**		**10.0**	**25.0**	**mg/L**	50	2/18/2011 23:21
Fluoride	**0.747**		**0.0500**	**0.100**	**mg/L**	1	2/18/2011 00:31
Nitrogen, Nitrate (As N)	**3.91**		**0.0300**	**0.100**	**mg/L**	1	2/18/2011 00:31
Sulfate	**73.6**		**0.200**	**0.500**	**mg/L**	1	2/18/2011 00:31
Surr: Selenate (surr)	*113*			*85-115*	*%REC*	1	2/18/2011 00:31
Surr: Selenate (surr)	*105*			*85-115*	*%REC*	50	2/18/2011 23:21
ALKALINITY		Method: **SM2320B**					Analyst: **DM**
Alkalinity, Bicarbonate (As CaCO3)	**84.6**		**2.0**	**5.00**	**mg/L**	1	2/24/2011 16:30
Alkalinity, Carbonate (As CaCO3)	ND		2.0	5.00	mg/L	1	2/24/2011 16:30
Alkalinity, Hydroxide (As CaCO3)	ND		2.0	5.00	mg/L	1	2/24/2011 16:30
Alkalinity, Total (As CaCO3)	**84.6**		**2.0**	**5.00**	**mg/L**	1	2/24/2011 16:30
TOTAL DISSOLVED SOLIDS		Method: **M2540C**					Analyst: **JKP**
Total Dissolved Solids (Residue, Filterable)	**4,390**		**5.0**	**10.0**	**mg/L**	1	2/21/2011 14:00

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *28-Feb-11*

Client: Conestoga-Rovers & Associates
Project: G.L. Erwin
Sample ID: MW-13 021611
Collection Date: 2/16/2011 11:34 AM

Work Order: 1102473
Lab ID: 1102473-13
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DISSOLVED METALS		Method: **SW6020**		Prep: SW3010A / 2/23/11			Analyst: **IGF**
Calcium	**392**		**2.5**	**25.0**	**mg/L**	50	2/24/2011 15:05
Magnesium	**150**		**0.039**	**0.200**	**mg/L**	1	2/24/2011 03:23
Potassium	**14.0**		**0.10**	**0.200**	**mg/L**	1	2/24/2011 03:23
Sodium	**170**		**0.10**	**0.200**	**mg/L**	1	2/24/2011 03:23
ANIONS		Method: **E300**					Analyst: **TDW**
Chloride	**1,630**		**8.00**	**20.0**	**mg/L**	40	2/18/2011 23:42
Fluoride	**1.36**		**0.0500**	**0.100**	**mg/L**	1	2/17/2011 22:04
Nitrogen, Nitrate (As N)	**3.88**		**0.0300**	**0.100**	**mg/L**	1	2/17/2011 22:04
Sulfate	**1,680**		**8.00**	**20.0**	**mg/L**	40	2/18/2011 23:42
Surr: Selenate (surr)	*109*			*85-115*	*%REC*	1	2/17/2011 22:04
Surr: Selenate (surr)	*103*			*85-115*	*%REC*	40	2/18/2011 23:42
ALKALINITY		Method: **SM2320B**					Analyst: **DM**
Alkalinity, Bicarbonate (As CaCO3)	**82.7**		**2.0**	**5.00**	**mg/L**	1	2/24/2011 16:30
Alkalinity, Carbonate (As CaCO3)	ND		2.0	5.00	mg/L	1	2/24/2011 16:30
Alkalinity, Hydroxide (As CaCO3)	ND		2.0	5.00	mg/L	1	2/24/2011 16:30
Alkalinity, Total (As CaCO3)	**82.7**		**2.0**	**5.00**	**mg/L**	1	2/24/2011 16:30
TOTAL DISSOLVED SOLIDS		Method: **M2540C**					Analyst: **JKP**
Total Dissolved Solids (Residue, Filterable)	**4,440**		**5.0**	**10.0**	**mg/L**	1	2/21/2011 14:00

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *28-Feb-11*

Client: Conestoga-Rovers & Associates
Project: G.L. Erwin
Sample ID: MW-14 021611
Collection Date: 2/16/2011 12:43 PM

Work Order: 1102473
Lab ID: 1102473-14
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DISSOLVED METALS		Method: **SW6020**			Prep: SW3010A / 2/23/11		Analyst: **IGF**
Calcium	**902**		**2.5**	**25.0**	**mg/L**	50	2/24/2011 15:11
Magnesium	**294**		**2.0**	**10.0**	**mg/L**	50	2/24/2011 15:11
Potassium	**21.4**		**0.10**	**0.200**	**mg/L**	1	2/24/2011 03:39
Sodium	**1,650**		**5.0**	**10.0**	**mg/L**	50	2/24/2011 15:11
ANIONS		Method: **E300**					Analyst: **TDW**
Chloride	**5,070**		**20.0**	**50.0**	**mg/L**	100	2/22/2011 10:09
Fluoride	**0.706**		**0.0500**	**0.100**	**mg/L**	1	2/18/2011 02:59
Nitrogen, Nitrate (As N)	**0.424**		**0.0300**	**0.100**	**mg/L**	1	2/18/2011 02:59
Sulfate	**1,470**		**20.0**	**50.0**	**mg/L**	100	2/22/2011 10:09
Surr: Selenate (surr)	*88.7*			*85-115*	*%REC*	1	2/18/2011 02:59
Surr: Selenate (surr)	*104*			*85-115*	*%REC*	100	2/22/2011 10:09
ALKALINITY		Method: **SM2320B**					Analyst: **DM**
Alkalinity, Bicarbonate (As CaCO3)	**85.4**		**2.0**	**5.00**	**mg/L**	1	2/24/2011 14:00
Alkalinity, Carbonate (As CaCO3)	ND		2.0	5.00	mg/L	1	2/24/2011 14:00
Alkalinity, Hydroxide (As CaCO3)	ND		2.0	5.00	mg/L	1	2/24/2011 14:00
Alkalinity, Total (As CaCO3)	**85.4**		**2.0**	**5.00**	**mg/L**	1	2/24/2011 14:00
TOTAL DISSOLVED SOLIDS		Method: **M2540C**					Analyst: **JKP**
Total Dissolved Solids (Residue, Filterable)	**11,200**		**5.0**	**10.0**	**mg/L**	1	2/21/2011 14:00

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *28-Feb-11*

Client: Conestoga-Rovers & Associates
Project: G.L. Erwin
Sample ID: MW-15 021611
Collection Date: 2/16/2011 12:12 PM

Work Order: 1102473
Lab ID: 1102473-15
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DISSOLVED METALS		Method: **SW6020**		Prep: SW3010A / 2/23/11			Analyst: **IGF**
Calcium	**293**		**2.5**	**25.0**	**mg/L**	50	2/24/2011 15:39
Magnesium	**110**		**0.039**	**0.200**	**mg/L**	1	2/24/2011 03:44
Potassium	**11.4**		**0.10**	**0.200**	**mg/L**	1	2/24/2011 03:44
Sodium	**124**		**0.10**	**0.200**	**mg/L**	1	2/24/2011 03:44
ANIONS		Method: **E300**					Analyst: **TDW**
Chloride	**1,230**		**8.00**	**20.0**	**mg/L**	40	2/19/2011 00:25
Fluoride	**1.05**		**0.0500**	**0.100**	**mg/L**	1	2/18/2011 00:52
Nitrogen, Nitrate (As N)	**2.73**		**0.0300**	**0.100**	**mg/L**	1	2/18/2011 00:52
Sulfate	**84.1**		**0.200**	**0.500**	**mg/L**	1	2/18/2011 00:52
Surr: Selenate (surr)	*114*			*85-115*	*%REC*	1	2/18/2011 00:52
Surr: Selenate (surr)	*105*			*85-115*	*%REC*	40	2/19/2011 00:25
ALKALINITY		Method: **SM2320B**					Analyst: **DM**
Alkalinity, Bicarbonate (As CaCO3)	**96.4**		**2.0**	**5.00**	**mg/L**	1	2/24/2011 16:30
Alkalinity, Carbonate (As CaCO3)	ND		2.0	5.00	mg/L	1	2/24/2011 16:30
Alkalinity, Hydroxide (As CaCO3)	ND		2.0	5.00	mg/L	1	2/24/2011 16:30
Alkalinity, Total (As CaCO3)	**96.4**		**2.0**	**5.00**	**mg/L**	1	2/24/2011 16:30
TOTAL DISSOLVED SOLIDS		Method: **M2540C**					Analyst: **JKP**
Total Dissolved Solids (Residue, Filterable)	**2,810**		**5.0**	**10.0**	**mg/L**	1	2/21/2011 14:00

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *28-Feb-11*

Client: Conestoga-Rovers & Associates
Project: G.L. Erwin
Sample ID: MW-16 021611
Collection Date: 2/16/2011 11:58 AM

Work Order: 1102473
Lab ID: 1102473-16
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DISSOLVED METALS		Method: **SW6020**			Prep: SW3010A / 2/23/11		Analyst: **ALR**
Calcium	**138**		**0.050**	**0.500**	**mg/L**	1	2/24/2011 03:49
Magnesium	**39.8**		**0.039**	**0.200**	**mg/L**	1	2/24/2011 03:49
Potassium	**5.67**		**0.10**	**0.200**	**mg/L**	1	2/24/2011 03:49
Sodium	**347**		**5.0**	**10.0**	**mg/L**	50	2/24/2011 20:43
ANIONS		Method: **E300**					Analyst: **TDW**
Chloride	**862**		**2.00**	**5.00**	**mg/L**	10	2/19/2011 00:46
Fluoride	**1.18**		**0.0500**	**0.100**	**mg/L**	1	2/17/2011 23:49
Nitrogen, Nitrate (As N)	**5.13**		**0.0300**	**0.100**	**mg/L**	1	2/17/2011 23:49
Sulfate	**260**		**2.00**	**5.00**	**mg/L**	10	2/19/2011 00:46
Surr: Selenate (surr)	*110*			*85-115*	*%REC*	1	2/17/2011 23:49
Surr: Selenate (surr)	*104*			*85-115*	*%REC*	10	2/19/2011 00:46
ALKALINITY		Method: **SM2320B**					Analyst: **DM**
Alkalinity, Bicarbonate (As CaCO3)	**197**		**2.0**	**5.00**	**mg/L**	1	2/24/2011 16:30
Alkalinity, Carbonate (As CaCO3)	ND		2.0	5.00	mg/L	1	2/24/2011 16:30
Alkalinity, Hydroxide (As CaCO3)	ND		2.0	5.00	mg/L	1	2/24/2011 16:30
Alkalinity, Total (As CaCO3)	**197**		**2.0**	**5.00**	**mg/L**	1	2/24/2011 16:30
TOTAL DISSOLVED SOLIDS		Method: **M2540C**					Analyst: **JKP**
Total Dissolved Solids (Residue, Filterable)	**1,990**		**5.0**	**10.0**	**mg/L**	1	2/21/2011 14:00

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *28-Feb-11*

Client: Conestoga-Rovers & Associates
Project: G.L. Erwin
Sample ID: MW-17 021611
Collection Date: 2/16/2011 12:53 PM

Work Order: 1102473
Lab ID: 1102473-17
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DISSOLVED METALS		Method: **SW6020**		Prep: SW3010A / 2/23/11			Analyst: **ALR**
Calcium	**54.6**		**0.050**	**0.500**	**mg/L**	1	2/24/2011 03:55
Magnesium	**15.2**		**0.039**	**0.200**	**mg/L**	1	2/24/2011 03:55
Potassium	**4.20**		**0.10**	**0.200**	**mg/L**	1	2/24/2011 03:55
Sodium	**248**		**5.0**	**10.0**	**mg/L**	50	2/24/2011 20:49
ANIONS		Method: **E300**					Analyst: **TDW**
Chloride	**401**		**2.00**	**5.00**	**mg/L**	10	2/19/2011 01:07
Fluoride	**2.14**		**0.0500**	**0.100**	**mg/L**	1	2/18/2011 04:24
Nitrogen, Nitrate (As N)	**3.64**		**0.0300**	**0.100**	**mg/L**	1	2/18/2011 04:24
Sulfate	**253**		**2.00**	**5.00**	**mg/L**	10	2/19/2011 01:07
Surr: Selenate (surr)	*97.4*			*85-115*	*%REC*	1	2/18/2011 04:24
Surr: Selenate (surr)	*104*			*85-115*	*%REC*	10	2/19/2011 01:07
ALKALINITY		Method: **SM2320B**					Analyst: **DM**
Alkalinity, Bicarbonate (As CaCO3)	**177**		**2.0**	**5.00**	**mg/L**	1	2/24/2011 14:00
Alkalinity, Carbonate (As CaCO3)	ND		2.0	5.00	mg/L	1	2/24/2011 14:00
Alkalinity, Hydroxide (As CaCO3)	ND		2.0	5.00	mg/L	1	2/24/2011 14:00
Alkalinity, Total (As CaCO3)	**177**		**2.0**	**5.00**	**mg/L**	1	2/24/2011 14:00
TOTAL DISSOLVED SOLIDS		Method: **M2540C**					Analyst: **JKP**
Total Dissolved Solids (Residue, Filterable)	**1,060**		**5.0**	**10.0**	**mg/L**	1	2/21/2011 14:00

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *28-Feb-11*

Client: Conestoga-Rovers & Associates
Project: G.L. Erwin
Sample ID: MW-19 021611
Collection Date: 2/16/2011 12:35 PM

Work Order: 1102473
Lab ID: 1102473-18
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DISSOLVED METALS		Method: **SW6020**			Prep: SW3010A / 2/23/11		Analyst: **IGF**
Calcium	**1,130**		**2.5**	**25.0**	**mg/L**	50	2/24/2011 20:54
Magnesium	**370**		**2.0**	**10.0**	**mg/L**	50	2/24/2011 20:54
Potassium	**27.3**		**0.10**	**0.200**	**mg/L**	1	2/24/2011 04:00
Sodium	**972**		**5.0**	**10.0**	**mg/L**	50	2/24/2011 20:54
ANIONS		Method: **E300**					Analyst: **TDW**
Chloride	**4,180**		**20.0**	**50.0**	**mg/L**	100	2/19/2011 01:28
Fluoride	**0.624**		**0.0500**	**0.100**	**mg/L**	1	2/18/2011 02:38
Nitrogen, Nitrate (As N)	**2.01**		**0.0300**	**0.100**	**mg/L**	1	2/18/2011 02:38
Sulfate	**3,010**		**20.0**	**50.0**	**mg/L**	100	2/19/2011 01:28
Surr: Selenate (surr)	*101*			*85-115*	*%REC*	1	2/18/2011 02:38
Surr: Selenate (surr)	*105*			*85-115*	*%REC*	100	2/19/2011 01:28
ALKALINITY		Method: **SM2320B**					Analyst: **DM**
Alkalinity, Bicarbonate (As CaCO3)	**81.4**		**2.0**	**5.00**	**mg/L**	1	2/24/2011 14:00
Alkalinity, Carbonate (As CaCO3)	ND		2.0	5.00	mg/L	1	2/24/2011 14:00
Alkalinity, Hydroxide (As CaCO3)	ND		2.0	5.00	mg/L	1	2/24/2011 14:00
Alkalinity, Total (As CaCO3)	**81.4**		**2.0**	**5.00**	**mg/L**	1	2/24/2011 14:00
TOTAL DISSOLVED SOLIDS		Method: **M2540C**					Analyst: **JKP**
Total Dissolved Solids (Residue, Filterable)	**9,980**		**5.0**	**10.0**	**mg/L**	1	2/21/2011 14:00

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *28-Feb-11*

Client: Conestoga-Rovers & Associates
Project: G.L. Erwin
Sample ID: MW-20 021611
Collection Date: 2/16/2011 12:18 PM

Work Order: 1102473
Lab ID: 1102473-19
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DISSOLVED METALS		Method: **SW6020**			Prep: SW3010A / 2/23/11		Analyst: **IGF**
Calcium	**442**		**2.5**	**25.0**	**mg/L**	50	2/24/2011 21:00
Magnesium	**134**		**0.039**	**0.200**	**mg/L**	1	2/24/2011 04:05
Potassium	**13.3**		**0.10**	**0.200**	**mg/L**	1	2/24/2011 04:05
Sodium	**274**		**5.0**	**10.0**	**mg/L**	50	2/24/2011 21:00
ANIONS		Method: **E300**					Analyst: **TDW**
Chloride	**1,810**		**8.00**	**20.0**	**mg/L**	40	2/19/2011 01:49
Fluoride	**0.972**		**0.0500**	**0.100**	**mg/L**	1	2/18/2011 01:14
Nitrogen, Nitrate (As N)	**3.89**		**0.0300**	**0.100**	**mg/L**	1	2/18/2011 01:14
Sulfate	**1,070**		**8.00**	**20.0**	**mg/L**	40	2/19/2011 01:49
Surr: Selenate (surr)	*115*			*85-115*	*%REC*	1	2/18/2011 01:14
Surr: Selenate (surr)	*104*			*85-115*	*%REC*	40	2/19/2011 01:49
ALKALINITY		Method: **SM2320B**					Analyst: **DM**
Alkalinity, Bicarbonate (As CaCO3)	**98.4**		**2.0**	**5.00**	**mg/L**	1	2/24/2011 16:30
Alkalinity, Carbonate (As CaCO3)	ND		2.0	5.00	mg/L	1	2/24/2011 16:30
Alkalinity, Hydroxide (As CaCO3)	ND		2.0	5.00	mg/L	1	2/24/2011 16:30
Alkalinity, Total (As CaCO3)	**98.4**		**2.0**	**5.00**	**mg/L**	1	2/24/2011 16:30
TOTAL DISSOLVED SOLIDS		Method: **M2540C**					Analyst: **JKP**
Total Dissolved Solids (Residue, Filterable)	**4,240**		**5.0**	**10.0**	**mg/L**	1	2/21/2011 14:00

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *28-Feb-11*

Client: Conestoga-Rovers & Associates
Project: G.L. Erwin
Sample ID: MW-21 021611
Collection Date: 2/16/2011 12:27 PM

Work Order: 1102473
Lab ID: 1102473-20
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DISSOLVED METALS		Method: **SW6020**			Prep: SW3010A / 2/23/11		Analyst: **ALR**
Calcium	**106**		**0.050**	**0.500**	**mg/L**	1	2/24/2011 07:08
Magnesium	**33.4**		**0.039**	**0.200**	**mg/L**	1	2/24/2011 07:08
Potassium	**8.13**		**0.10**	**0.200**	**mg/L**	1	2/24/2011 07:08
Sodium	**90.0**		**0.10**	**0.200**	**mg/L**	1	2/24/2011 07:08
ANIONS		Method: **E300**					Analyst: **TDW**
Chloride	**240**		**2.00**	**5.00**	**mg/L**	10	2/19/2011 02:10
Fluoride	**1.87**		**0.0500**	**0.100**	**mg/L**	1	2/18/2011 01:56
Nitrogen, Nitrate (As N)	**4.56**		**0.0300**	**0.100**	**mg/L**	1	2/18/2011 01:56
Sulfate	**250**		**2.00**	**5.00**	**mg/L**	10	2/19/2011 02:10
Surr: Selenate (surr)	*115*			*85-115*	*%REC*	1	2/18/2011 01:56
Surr: Selenate (surr)	*103*			*85-115*	*%REC*	10	2/19/2011 02:10
ALKALINITY		Method: **SM2320B**					Analyst: **DM**
Alkalinity, Bicarbonate (As CaCO3)	**149**		**2.0**	**5.00**	**mg/L**	1	2/24/2011 14:00
Alkalinity, Carbonate (As CaCO3)	ND		2.0	5.00	mg/L	1	2/24/2011 14:00
Alkalinity, Hydroxide (As CaCO3)	ND		2.0	5.00	mg/L	1	2/24/2011 14:00
Alkalinity, Total (As CaCO3)	**149**		**2.0**	**5.00**	**mg/L**	1	2/24/2011 14:00
TOTAL DISSOLVED SOLIDS		Method: **M2540C**					Analyst: **JKP**
Total Dissolved Solids (Residue, Filterable)	**888**		**5.0**	**10.0**	**mg/L**	1	2/21/2011 14:00

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *28-Feb-11*

Client: Conestoga-Rovers & Associates
Project: G.L. Erwin
Sample ID: MW-22 021611
Collection Date: 2/16/2011 11:25 AM

Work Order: 1102473
Lab ID: 1102473-21
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DISSOLVED METALS		Method: **SW6020**		Prep: SW3010A / 2/23/11			Analyst: **IGF**
Calcium	**834**		**2.5**	**25.0**	**mg/L**	50	2/24/2011 21:45
Magnesium	**252**		**2.0**	**10.0**	**mg/L**	50	2/24/2011 21:45
Potassium	**14.9**		**0.10**	**0.200**	**mg/L**	1	2/24/2011 07:13
Sodium	**830**		**5.0**	**10.0**	**mg/L**	50	2/24/2011 21:45
ANIONS		Method: **E300**					Analyst: **TDW**
Chloride	**3,650**		**20.0**	**50.0**	**mg/L**	100	2/22/2011 10:31
Fluoride	**0.568**		**0.0500**	**0.100**	**mg/L**	1	2/17/2011 21:43
Nitrogen, Nitrate (As N)	**1.90**		**0.0300**	**0.100**	**mg/L**	1	2/17/2011 21:43
Sulfate	**1,530**		**10.0**	**25.0**	**mg/L**	50	2/19/2011 02:31
Surr: Selenate (surr)	*101*			*85-115*	*%REC*	1	2/17/2011 21:43
Surr: Selenate (surr)	*103*			*85-115*	*%REC*	50	2/19/2011 02:31
Surr: Selenate (surr)	*99.1*			*85-115*	*%REC*	100	2/22/2011 10:31
ALKALINITY		Method: **SM2320B**					Analyst: **DM**
Alkalinity, Bicarbonate (As CaCO3)	**138**		**2.0**	**5.00**	**mg/L**	1	2/24/2011 16:30
Alkalinity, Carbonate (As CaCO3)	ND		2.0	5.00	mg/L	1	2/24/2011 16:30
Alkalinity, Hydroxide (As CaCO3)	ND		2.0	5.00	mg/L	1	2/24/2011 16:30
Alkalinity, Total (As CaCO3)	**138**		**2.0**	**5.00**	**mg/L**	1	2/24/2011 16:30
TOTAL DISSOLVED SOLIDS		Method: **M2540C**					Analyst: **JKP**
Total Dissolved Solids (Residue, Filterable)	**7,490**		**5.0**	**10.0**	**mg/L**	1	2/18/2011 16:00

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *28-Feb-11*

Client: Conestoga-Rovers & Associates
Project: G.L. Erwin
Sample ID: MW-West 021611
Collection Date: 2/16/2011 02:15 PM

Work Order: 1102473
Lab ID: 1102473-22
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DISSOLVED METALS		Method: **SW6020**		Prep: SW3010A / 2/23/11			Analyst: **ALR**
Calcium	**91.0**		**0.050**	**0.500**	**mg/L**	1	2/24/2011 07:19
Magnesium	**24.8**		**0.039**	**0.200**	**mg/L**	1	2/24/2011 07:19
Potassium	**20.0**		**0.10**	**0.200**	**mg/L**	1	2/24/2011 07:19
Sodium	**263**		**5.0**	**10.0**	**mg/L**	50	2/24/2011 21:50
ANIONS		Method: **E300**					Analyst: **TDW**
Chloride	**417**		**2.00**	**5.00**	**mg/L**	10	2/19/2011 03:34
Fluoride	**1.10**		**0.0500**	**0.100**	**mg/L**	1	2/18/2011 06:09
Nitrogen, Nitrate (As N)	**3.56**		**0.0300**	**0.100**	**mg/L**	1	2/18/2011 06:09
Sulfate	**329**		**2.00**	**5.00**	**mg/L**	10	2/19/2011 03:34
Surr: Selenate (surr)	*112*			*85-115*	*%REC*	1	2/18/2011 06:09
Surr: Selenate (surr)	*103*			*85-115*	*%REC*	10	2/19/2011 03:34
ALKALINITY		Method: **SM2320B**					Analyst: **DM**
Alkalinity, Bicarbonate (As CaCO3)	**193**		**2.0**	**5.00**	**mg/L**	1	2/24/2011 14:00
Alkalinity, Carbonate (As CaCO3)	ND		2.0	5.00	mg/L	1	2/24/2011 14:00
Alkalinity, Hydroxide (As CaCO3)	ND		2.0	5.00	mg/L	1	2/24/2011 14:00
Alkalinity, Total (As CaCO3)	**193**		**2.0**	**5.00**	**mg/L**	1	2/24/2011 14:00
TOTAL DISSOLVED SOLIDS		Method: **M2540C**					Analyst: **JKP**
Total Dissolved Solids (Residue, Filterable)	**1,300**		**5.0**	**10.0**	**mg/L**	1	2/22/2011 10:00

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *28-Feb-11*

Client: Conestoga-Rovers & Associates
Project: G.L. Erwin
Sample ID: SW-MW 021611
Collection Date: 2/16/2011 01:55 PM

Work Order: 1102473
Lab ID: 1102473-23
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DISSOLVED METALS		Method: **SW6020**		Prep: SW3010A / 2/23/11			Analyst: **IGF**
Calcium	**538**		**2.5**	**25.0**	**mg/L**	50	2/24/2011 21:56
Magnesium	**156**		**0.039**	**0.200**	**mg/L**	1	2/24/2011 07:24
Potassium	**63.3**		**0.10**	**0.200**	**mg/L**	1	2/24/2011 07:24
Sodium	**1,470**		**5.0**	**10.0**	**mg/L**	50	2/24/2011 21:56
ANIONS		Method: **E300**					Analyst: **TDW**
Chloride	**3,360**		**20.0**	**50.0**	**mg/L**	100	2/22/2011 10:52
Fluoride	**0.881**		**0.0500**	**0.100**	**mg/L**	1	2/18/2011 05:48
Nitrogen, Nitrate (As N)	**0.812**		**0.0300**	**0.100**	**mg/L**	1	2/18/2011 05:48
Sulfate	**2,450**		**10.0**	**25.0**	**mg/L**	50	2/19/2011 03:56
Surr: Selenate (surr)	*106*			*85-115*	*%REC*	1	2/18/2011 05:48
Surr: Selenate (surr)	*103*			*85-115*	*%REC*	50	2/19/2011 03:56
Surr: Selenate (surr)	*100*			*85-115*	*%REC*	100	2/22/2011 10:52
ALKALINITY		Method: **SM2320B**					Analyst: **DM**
Alkalinity, Bicarbonate (As CaCO3)	**228**		**2.0**	**5.00**	**mg/L**	1	2/24/2011 14:00
Alkalinity, Carbonate (As CaCO3)	ND		2.0	5.00	mg/L	1	2/24/2011 14:00
Alkalinity, Hydroxide (As CaCO3)	ND		2.0	5.00	mg/L	1	2/24/2011 14:00
Alkalinity, Total (As CaCO3)	**228**		**2.0**	**5.00**	**mg/L**	1	2/24/2011 14:00
TOTAL DISSOLVED SOLIDS		Method: **M2540C**					Analyst: **JKP**
Total Dissolved Solids (Residue, Filterable)	**8,320**		**5.0**	**10.0**	**mg/L**	1	2/22/2011 10:00

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *28-Feb-11*

Client: Conestoga-Rovers & Associates
Project: G.L. Erwin
Sample ID: WW-1 021611
Collection Date: 2/16/2011 03:00 PM

Work Order: 1102473
Lab ID: 1102473-24
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DISSOLVED METALS		Method: **SW6020**		Prep: SW3010A / 2/23/11			Analyst: **IGF**
Calcium	**83.3**		**0.10**	**1.00**	**mg/L**	2	2/24/2011 22:02
Magnesium	**26.8**		**0.078**	**0.400**	**mg/L**	2	2/24/2011 22:02
Potassium	**5.40**		**0.20**	**0.400**	**mg/L**	2	2/24/2011 22:02
Sodium	**101**		**0.20**	**0.400**	**mg/L**	2	2/24/2011 22:02
ANIONS		Method: **E300**					Analyst: **TDW**
Chloride	**232**		**2.00**	**5.00**	**mg/L**	10	2/19/2011 04:17
Fluoride	**1.21**		**0.0500**	**0.100**	**mg/L**	1	2/18/2011 06:51
Nitrogen, Nitrate (As N)	**2.80**		**0.0300**	**0.100**	**mg/L**	1	2/18/2011 06:51
Sulfate	**232**		**2.00**	**5.00**	**mg/L**	10	2/19/2011 04:17
Surr: Selenate (surr)	*106*			*85-115*	*%REC*	1	2/18/2011 06:51
Surr: Selenate (surr)	*104*			*85-115*	*%REC*	10	2/19/2011 04:17
ALKALINITY		Method: **SM2320B**					Analyst: **DM**
Alkalinity, Bicarbonate (As CaCO3)	**127**		**2.0**	**5.00**	**mg/L**	1	2/24/2011 14:00
Alkalinity, Carbonate (As CaCO3)	ND		2.0	5.00	mg/L	1	2/24/2011 14:00
Alkalinity, Hydroxide (As CaCO3)	ND		2.0	5.00	mg/L	1	2/24/2011 14:00
Alkalinity, Total (As CaCO3)	**127**		**2.0**	**5.00**	**mg/L**	1	2/24/2011 14:00
TOTAL DISSOLVED SOLIDS		Method: **M2540C**					Analyst: **JKP**
Total Dissolved Solids (Residue, Filterable)	**822**		**5.0**	**10.0**	**mg/L**	1	2/22/2011 10:00

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *28-Feb-11*

Client: Conestoga-Rovers & Associates
Project: G.L. Erwin
Sample ID: Dup-1 021611
Collection Date: 2/16/2011

Work Order: 1102473
Lab ID: 1102473-25
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DISSOLVED METALS		Method: **SW6020**			Prep: SW3010A / 2/23/11		Analyst: **IGF**
Calcium	**55.3**		**0.10**	**1.00**	**mg/L**	2	2/24/2011 22:07
Magnesium	**17.9**		**0.078**	**0.400**	**mg/L**	2	2/24/2011 22:07
Potassium	**4.02**		**0.20**	**0.400**	**mg/L**	2	2/24/2011 22:07
Sodium	**91.9**		**0.20**	**0.400**	**mg/L**	2	2/24/2011 22:07
ANIONS		Method: **E300**					Analyst: **TDW**
Chloride	**155**		**1.00**	**2.50**	**mg/L**	5	2/19/2011 04:38
Fluoride	**1.74**		**0.0500**	**0.100**	**mg/L**	1	2/17/2011 21:00
Nitrogen, Nitrate (As N)	**3.25**		**0.0300**	**0.100**	**mg/L**	1	2/17/2011 21:00
Sulfate	**81.9**		**0.200**	**0.500**	**mg/L**	1	2/17/2011 21:00
Surr: Selenate (surr)	*110*			*85-115*	*%REC*	1	2/17/2011 21:00
Surr: Selenate (surr)	*105*			*85-115*	*%REC*	5	2/19/2011 04:38
ALKALINITY		Method: **SM2320B**					Analyst: **DM**
Alkalinity, Bicarbonate (As CaCO3)	**145**		**2.0**	**5.00**	**mg/L**	1	2/24/2011 14:00
Alkalinity, Carbonate (As CaCO3)	ND		2.0	5.00	mg/L	1	2/24/2011 14:00
Alkalinity, Hydroxide (As CaCO3)	ND		2.0	5.00	mg/L	1	2/24/2011 14:00
Alkalinity, Total (As CaCO3)	**145**		**2.0**	**5.00**	**mg/L**	1	2/24/2011 14:00
TOTAL DISSOLVED SOLIDS		Method: **M2540C**					Analyst: **JKP**
Total Dissolved Solids (Residue, Filterable)	**604**		**5.0**	**10.0**	**mg/L**	1	2/18/2011 16:00

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *28-Feb-11*

Client: Conestoga-Rovers & Associates
Project: G.L. Erwin
Sample ID: Dup-2 021611
Collection Date: 2/16/2011

Work Order: 1102473
Lab ID: 1102473-26
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DISSOLVED METALS		Method: **SW6020**			Prep: SW3010A / 2/23/11		Analyst: **ALR**
Calcium	**53.0**		**0.050**	**0.500**	**mg/L**	1	2/24/2011 05:29
Magnesium	**16.4**		**0.039**	**0.200**	**mg/L**	1	2/24/2011 05:29
Potassium	**4.18**		**0.10**	**0.200**	**mg/L**	1	2/24/2011 05:29
Sodium	**238**		**5.0**	**10.0**	**mg/L**	50	2/24/2011 21:11
ANIONS		Method: **E300**					Analyst: **TDW**
Chloride	**368**		**2.00**	**5.00**	**mg/L**	10	2/19/2011 04:59
Fluoride	**2.27**		**0.0500**	**0.100**	**mg/L**	1	2/17/2011 20:39
Nitrogen, Nitrate (As N)	ND		0.0300	0.100	mg/L	1	2/17/2011 20:39
Sulfate	**259**		**2.00**	**5.00**	**mg/L**	10	2/19/2011 04:59
Surr: Selenate (surr)	*109*			*85-115*	*%REC*	1	2/17/2011 20:39
Surr: Selenate (surr)	*104*			*85-115*	*%REC*	10	2/19/2011 04:59
ALKALINITY		Method: **SM2320B**					Analyst: **DM**
Alkalinity, Bicarbonate (As CaCO3)	**206**		**2.0**	**5.00**	**mg/L**	1	2/24/2011 14:00
Alkalinity, Carbonate (As CaCO3)	ND		2.0	5.00	mg/L	1	2/24/2011 14:00
Alkalinity, Hydroxide (As CaCO3)	ND		2.0	5.00	mg/L	1	2/24/2011 14:00
Alkalinity, Total (As CaCO3)	**206**		**2.0**	**5.00**	**mg/L**	1	2/24/2011 14:00
TOTAL DISSOLVED SOLIDS		Method: **M2540C**					Analyst: **JKP**
Total Dissolved Solids (Residue, Filterable)	**1,060**		**5.0**	**10.0**	**mg/L**	1	2/18/2011 16:00

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 28-Feb-11

Client: Conestoga-Rovers & Associates

Work Order: 1102473

Project: G.L. Erwin

QC BATCH REPORT

Batch ID: **50268** Instrument ID **ICPMS03** Method: **SW6020** **(Dissolve)**

MBLK Sample ID: **MBLKW4-022311-50268** Units: **mg/L** Analysis Date: **2/23/2011 11:39 PM**

Client ID: Run ID: **ICPMS03_110223A** SeqNo: **2288284** Prep Date: **2/23/2011** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	ND	0.50								
Magnesium	ND	0.20								
Potassium	ND	0.20								
Sodium	ND	0.20								

LCS Sample ID: **MLCSW4-022311-50268** Units: **mg/L** Analysis Date: **2/23/2011 11:44 PM**

Client ID: Run ID: **ICPMS03_110223A** SeqNo: **2288285** Prep Date: **2/23/2011** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	4.757	0.50	5	0	95.1	80-120	0			
Magnesium	4.646	0.20	5	0	92.9	80-120	0			
Potassium	4.746	0.20	5	0	94.9	80-120	0			
Sodium	4.373	0.20	5	0	87.5	80-120	0			

MS Sample ID: **1102473-12AMS** Units: **mg/L** Analysis Date: **2/24/2011 12:05 AM**

Client ID: **MW-12 021611** Run ID: **ICPMS03_110223A** SeqNo: **2288289** Prep Date: **2/23/2011** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	600.1	0.50	5	522.5	1550	75-125	0			SEO
Magnesium	202.8	0.20	5	182.5	406	75-125	0			SEO
Potassium	17.84	0.20	5	11.12	134	75-125	0			S
Sodium	212.1	0.20	5	191.7	408	75-125	0			SEO

MSD Sample ID: **1102473-12AMSD** Units: **mg/L** Analysis Date: **2/24/2011 12:11 AM**

Client ID: **MW-12 021611** Run ID: **ICPMS03_110223A** SeqNo: **2288290** Prep Date: **2/23/2011** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	599.4	0.50	5	522.5	1540	75-125	600.1	0.117	25	SEO
Magnesium	200	0.20	5	182.5	350	75-125	202.8	1.39	25	SEO
Potassium	17.5	0.20	5	11.12	128	75-125	17.84	1.92	25	S
Sodium	206.7	0.20	5	191.7	300	75-125	212.1	2.58	25	SEO

DUP Sample ID: **1102473-12ADUP** Units: **mg/L** Analysis Date: **2/23/2011 11:55 PM**

Client ID: **MW-12 021611** Run ID: **ICPMS03_110223A** SeqNo: **2288287** Prep Date: **2/23/2011** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Potassium	12.13	0.20	0	0	0	0-0	11.12	8.69	25	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1102473
Project: G.L. Erwin

QC BATCH REPORT

Batch ID: **50268** Instrument ID **ICPMS03** Method: **SW6020** **(Dissolve)**

DUP Sample ID: **1102473-12ADUP** Units: **mg/L** Analysis Date: **2/24/2011 01:23 PM**

Client ID: **MW-12 021611** Run ID: **ICP7500_110224A** SeqNo: **2289007** Prep Date: **2/23/2011** DF: **50**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	551.5	25	0	0	0	0-0	528	4.35	25	
Magnesium	198.5	10	0	0	0	0-0	184.5	7.31	25	
Sodium	205.3	10	0	0	0	0-0	190	7.77	25	

The following samples were analyzed in this batch:

1102473-01A	1102473-02A	1102473-03A
1102473-04A	1102473-05A	1102473-06A
1102473-07A	1102473-08A	1102473-09A
1102473-10A	1102473-11A	1102473-12A
1102473-13A	1102473-14A	1102473-15A
1102473-16A	1102473-17A	1102473-18A
1102473-19A		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1102473
Project: G.L. Erwin

QC BATCH REPORT

Batch ID: **50269** Instrument ID **ICPMS03** Method: **SW6020** **(Dissolve)**

LCS Sample ID: **MLCSW5-022311-50269** Units: **mg/L** Analysis Date: **2/24/2011 05:24 AM**
Client ID: Run ID: **ICPMS03_110223A** SeqNo: **2288392** Prep Date: **2/23/2011** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	5.065	0.50	5	0	101	80-120	0			
Magnesium	5.057	0.20	5	0	101	80-120	0			
Potassium	4.977	0.20	5	0	99.5	80-120	0			
Sodium	5.039	0.20	5	0	101	80-120	0			

MS Sample ID: **1102473-26AMS** Units: **mg/L** Analysis Date: **2/24/2011 05:45 AM**
Client ID: **Dup-2 021611** Run ID: **ICPMS03_110223A** SeqNo: **2288396** Prep Date: **2/23/2011** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	58.98	0.50	5	53	120	75-125	0			O
Magnesium	21.67	0.20	5	16.42	105	75-125	0			
Potassium	9.016	0.20	5	4.178	96.8	75-125	0			
Sodium	259.3	0.20	5	251.2	162	75-125	0			SEO

MSD Sample ID: **1102473-26AMSD** Units: **mg/L** Analysis Date: **2/24/2011 05:50 AM**
Client ID: **Dup-2 021611** Run ID: **ICPMS03_110223A** SeqNo: **2288397** Prep Date: **2/23/2011** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	62.81	0.50	5	53	196	75-125	58.98	6.29	25	SO
Magnesium	23.06	0.20	5	16.42	133	75-125	21.67	6.22	25	S
Potassium	9.531	0.20	5	4.178	107	75-125	9.016	5.55	25	
Sodium	279.6	0.20	5	251.2	568	75-125	259.3	7.53	25	SEO

DUP Sample ID: **1102473-26ADUP** Units: **mg/L** Analysis Date: **2/24/2011 05:34 AM**
Client ID: **Dup-2 021611** Run ID: **ICPMS03_110223A** SeqNo: **2288394** Prep Date: **2/23/2011** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	53.89	0.50	0	0	0	0-0	53	1.67	25	
Magnesium	16.96	0.20	0	0	0	0-0	16.42	3.24	25	
Potassium	4.26	0.20	0	0	0	0-0	4.178	1.94	25	

DUP Sample ID: **1102473-26ADUP** Units: **mg/L** Analysis Date: **2/24/2011 09:17 PM**
Client ID: **Dup-2 021611** Run ID: **ICP7500_110224A** SeqNo: **2289776** Prep Date: **2/23/2011** DF: **50**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	55.95	25	0	0	0	0-0	57.1	2.03	25	
Magnesium	15.32	10	0	0	0	0-0	14.9	2.75	25	
Potassium	ND	10	0	0	0	0-0	3.724	0	25	
Sodium	246.3	10	0	0	0	0-0	238.5	3.22	25	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1102473
Project: G.L. Erwin

QC BATCH REPORT

Batch ID: **50269** Instrument ID **ICPMS03** Method: **SW6020** **(Dissolve)**

The following samples were analyzed in this batch:

1102473-20A	1102473-21A	1102473-22A
1102473-23A	1102473-24A	1102473-25A
1102473-26A		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1102473
Project: G.L. Erwin

QC BATCH REPORT

Batch ID: **R105620** Instrument ID **ICS3000** Method: **E300**

MBLK Sample ID: **WBLKW1-021711-R105620** Units: **mg/L** Analysis Date: **2/17/2011 07:36 PM**
Client ID: Run ID: **ICS3000_110217A** SeqNo: **2283833** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	ND	0.50								
Fluoride	ND	0.10								
Nitrogen, Nitrate (As N)	ND	0.10								
Sulfate	ND	0.50								
Surr: Selenate (surr)	*5.161*	0.10	*5*	0	*103*	*85-115*	0			

LCS Sample ID: **WLCSW1-021711-R105620** Units: **mg/L** Analysis Date: **2/17/2011 07:57 PM**
Client ID: Run ID: **ICS3000_110217A** SeqNo: **2283834** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	20.82	0.50	20	0	104	90-110	0			
Fluoride	4.017	0.10	4	0	100	90-110	0			
Nitrogen, Nitrate (As N)	4.108	0.10	4	0	103	90-110	0			
Sulfate	20.14	0.50	20	0	101	90-110	0			
Surr: Selenate (surr)	*5.217*	0.10	*5*	0	*104*	*85-115*	0			

LCSD Sample ID: **WLCSDW1-021711-R105620** Units: **mg/L** Analysis Date: **2/17/2011 08:18 PM**
Client ID: Run ID: **ICS3000_110217A** SeqNo: **2283835** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	20.51	0.50	20	0	103	90-110	20.82	1.52	20	
Fluoride	4.02	0.10	4	0	100	90-110	4.017	0.0747	20	
Nitrogen, Nitrate (As N)	4.085	0.10	4	0	102	90-110	4.108	0.561	20	
Sulfate	20.16	0.50	20	0	101	90-110	20.14	0.0943	20	
Surr: Selenate (surr)	*5.134*	0.10	*5*	0	*103*	*85-115*	5.217	*1.6*	*20*	

MS Sample ID: **1102473-04BMS** Units: **mg/L** Analysis Date: **2/18/2011 07:12 AM**
Client ID: **MW-4 021611** Run ID: **ICS3000_110217A** SeqNo: **2283866** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	2379	0.50	10	2430	-506	80-120	0			SEO
Fluoride	2.774	0.10	2	0.54	112	80-120	0			
Nitrogen, Nitrate (As N)	5.999	0.10	2	4.075	96.2	80-120	0			
Sulfate	460.7	0.50	10	461.7	-9.48	80-120	0			SEO
Surr: Selenate (surr)	*5.612*	0.10	*5*	0	*112*	*85-115*	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1102473
Project: G.L. Erwin

QC BATCH REPORT

Batch ID: **R105620** Instrument ID **ICS3000** Method: **E300**

MS Sample ID: **1102473-17BMS** Units: **mg/L** Analysis Date: **2/18/2011 08:37 AM**
Client ID: **MW-17 021611** Run ID: **ICS3000_110217A** SeqNo: **2283870** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	408.1	0.50	10	403.6	44.6	80-120	0			SEO
Fluoride	4.113	0.10	2	2.14	98.6	80-120	0			
Nitrogen, Nitrate (As N)	5.641	0.10	2	3.643	99.9	80-120	0			
Sulfate	150.8	0.50	10	140.3	105	80-120	0			EO
Surr: Selenate (surr)	*5.293*	0.10	*5*	0	*106*	*85-115*	0			

MS Sample ID: **1102473-16BMS** Units: **mg/L** Analysis Date: **2/18/2011 09:19 AM**
Client ID: **MW-16 021611** Run ID: **ICS3000_110217A** SeqNo: **2283872** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	858.1	0.50	10	862.3	-42.6	80-120	0			SEO
Fluoride	2.989	0.10	2	0.693	115	80-120	0			
Nitrogen, Nitrate (As N)	7.095	0.10	2	5.39	85.2	80-120	0			
Sulfate	154.9	0.50	10	260.4	-1050	80-120	0			SEO
Surr: Selenate (surr)	*5.011*	0.10	*5*	0	*100*	*85-115*	0			

MS Sample ID: **1102458-41CMS** Units: **mg/L** Analysis Date: **2/18/2011 10:43 AM**
Client ID: Run ID: **ICS3000_110217A** SeqNo: **2283876** Prep Date: DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	257.6	5.0	100	154.2	103	80-120	0			
Fluoride	20.52	1.0	20	0.082	102	80-120	0			
Nitrogen, Nitrate (As N)	20.48	1.0	20	1.116	96.8	80-120	0			H
Sulfate	130.8	5.0	100	28.55	102	80-120	0			
Surr: Selenate (surr)	*52.94*	1.0	*50*	0	*106*	*85-115*	0			

MSD Sample ID: **1102473-04MSD** Units: **mg/L** Analysis Date: **2/18/2011 08:16 AM**
Client ID: **MW-4 021611** Run ID: **ICS3000_110217A** SeqNo: **2283869** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	2360	0.50	10	2430	-696	80-120	2379	0.805	20	SEO
Fluoride	2.763	0.10	2	0.54	111	80-120	2.774	0.397	20	
Nitrogen, Nitrate (As N)	5.987	0.10	2	4.075	95.6	80-120	5.999	0.2	20	
Sulfate	456.8	0.50	10	461.7	-48.3	80-120	460.7	0.846	20	SEO
Surr: Selenate (surr)	*5.559*	0.10	*5*	0	*111*	*85-115*	5.612	*0.949*	*20*	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1102473
Project: G.L. Erwin

QC BATCH REPORT

Batch ID: **R105620** Instrument ID **ICS3000** Method: **E300**

MSD Sample ID: **1102473-17BMSD** Units: **mg/L** Analysis Date: **2/18/2011 08:58 AM**
Client ID: **MW-17 021611** Run ID: **ICS3000_110217A** SeqNo: **2283871** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	409.1	0.50	10	403.6	54.5	80-120	408.1	0.244	20	SEO
Fluoride	4.12	0.10	2	2.14	99	80-120	4.113	0.17	20	
Nitrogen, Nitrate (As N)	5.652	0.10	2	3.643	100	80-120	5.641	0.195	20	
Sulfate	151.1	0.50	10	140.3	108	80-120	150.8	0.199	20	EO
Surr: Selenate (surr)	*5.366*	0.10	*5*	0	*107*	*85-115*	5.293	*1.37*	*20*	

MSD Sample ID: **1102473-16BMSD** Units: **mg/L** Analysis Date: **2/18/2011 09:40 AM**
Client ID: **MW-16 021611** Run ID: **ICS3000_110217A** SeqNo: **2283873** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	858.7	0.50	10	862.3	-36.3	80-120	858.1	0.0737	20	SEO
Fluoride	3.127	0.10	2	0.693	122	80-120	2.989	4.51	20	S
Nitrogen, Nitrate (As N)	7.104	0.10	2	5.39	85.7	80-120	7.095	0.127	20	
Sulfate	154.8	0.50	10	260.4	-1060	80-120	154.9	0.0413	20	SEO
Surr: Selenate (surr)	*5.003*	0.10	*5*	0	*100*	*85-115*	5.011	*0.16*	*20*	

MSD Sample ID: **1102458-41CMSD** Units: **mg/L** Analysis Date: **2/18/2011 11:45 AM**
Client ID: Run ID: **ICS3000_110217A** SeqNo: **2283878** Prep Date: DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	256.8	5.0	100	154.2	103	80-120	257.6	0.323	20	
Fluoride	20.63	1.0	20	0.082	103	80-120	20.52	0.564	20	
Nitrogen, Nitrate (As N)	20.47	1.0	20	1.116	96.8	80-120	20.48	0.0244	20	H
Sulfate	130	5.0	100	28.55	101	80-120	130.8	0.662	20	
Surr: Selenate (surr)	*52.56*	1.0	*50*	0	*105*	*85-115*	52.94	*0.734*	*20*	

The following samples were analyzed in this batch:

1102473-01B	1102473-02B	1102473-03B
1102473-04B	1102473-05B	1102473-06B
1102473-07B	1102473-08B	1102473-09B
1102473-10B	1102473-11B	1102473-12B
1102473-13B	1102473-14B	1102473-15B
1102473-16B	1102473-17B	1102473-18B
1102473-19B	1102473-20B	1102473-21B
1102473-22B	1102473-23B	1102473-24B
1102473-25B	1102473-26B	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1102473
Project: G.L. Erwin

QC BATCH REPORT

Batch ID: **R105639** Instrument ID **Balance1** Method: **M2540C**

MBLK Sample ID: **BLANK-R105639** Units: **mg/L** Analysis Date: **2/18/2011 04:00 PM**
Client ID: Run ID: **BALANCE1_110218A** SeqNo: **2284229** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Fil	ND	10								

LCS Sample ID: **LCS-R105639** Units: **mg/L** Analysis Date: **2/18/2011 04:00 PM**
Client ID: Run ID: **BALANCE1_110218A** SeqNo: **2284230** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Fil	1092	10	1000	0	109	85-115	0			

DUP Sample ID: **1102386-01ADUP** Units: **mg/L** Analysis Date: **2/18/2011 04:00 PM**
Client ID: Run ID: **BALANCE1_110218A** SeqNo: **2284219** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Fil	1296	10	0	0	0	0-0	1258	2.98	20	

The following samples were analyzed in this batch: 1102473-06B 1102473-21B 1102473-25B 1102473-26B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1102473
Project: G.L. Erwin

QC BATCH REPORT

Batch ID: **R105686** Instrument ID **Balance1** Method: **M2540C**

MBLK Sample ID: **BLANK-R105686** Units: **mg/L** Analysis Date: **2/21/2011 02:00 PM**
Client ID: Run ID: **BALANCE1_110221E** SeqNo: **2285538** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Fil	ND	10								

LCS Sample ID: **LCS-R105686** Units: **mg/L** Analysis Date: **2/21/2011 02:00 PM**
Client ID: Run ID: **BALANCE1_110221E** SeqNo: **2285539** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Fil	1018	10	1000	0	102	85-115	0			

DUP Sample ID: **1102473-17BDUP** Units: **mg/L** Analysis Date: **2/21/2011 02:00 PM**
Client ID: **MW-17 021611** Run ID: **BALANCE1_110221E** SeqNo: **2285528** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Fil	1100	10	0	0	0	0-0	1060	3.7	20	

DUP Sample ID: **1102554-01CDUP** Units: **mg/L** Analysis Date: **2/21/2011 02:00 PM**
Client ID: Run ID: **BALANCE1_110221E** SeqNo: **2285534** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Fil	3524	10	0	0	0	0-0	3572	1.35	20	

The following samples were analyzed in this batch:

1102473-01B	1102473-02B	1102473-03B
1102473-07B	1102473-08B	1102473-09B
1102473-10B	1102473-12B	1102473-13B
1102473-14B	1102473-15B	1102473-16B
1102473-17B	1102473-18B	1102473-19B
1102473-20B		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1102473
Project: G.L. Erwin

QC BATCH REPORT

Batch ID: **R105687** Instrument ID **ICS3K2** Method: **E300**

MBLK Sample ID: **WBLKW1-022111-R105687** Units: **mg/L** Analysis Date: **2/21/2011 07:19 PM**
Client ID: Run ID: **ICS3K2_110221A** SeqNo: **2285549** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	ND	0.50								
Sulfate	ND	0.50								
Surr: Selenate (surr)	*5.003*	0.10	*5*	0	*100*	*85-115*	0			

LCS Sample ID: **WLCSW1-022111-R105687** Units: **mg/L** Analysis Date: **2/21/2011 07:41 PM**
Client ID: Run ID: **ICS3K2_110221A** SeqNo: **2285550** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	20.08	0.50	20	0	100	90-110	0			
Sulfate	18.82	0.50	20	0	94.1	90-110	0			
Surr: Selenate (surr)	*5.172*	0.10	*5*	0	*103*	*85-115*	0			

LCSD Sample ID: **WLCSDW1-022111-R105687** Units: **mg/L** Analysis Date: **2/21/2011 08:03 PM**
Client ID: Run ID: **ICS3K2_110221A** SeqNo: **2285551** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	19.97	0.50	20	0	99.8	90-110	20.08	0.554	20	
Sulfate	18.96	0.50	20	0	94.8	90-110	18.82	0.773	20	
Surr: Selenate (surr)	*5.145*	0.10	*5*	0	*103*	*85-115*	5.172	*0.523*	*20*	

MS Sample ID: **1102538-02CMS** Units: **mg/L** Analysis Date: **2/22/2011 02:55 AM**
Client ID: Run ID: **ICS3K2_110221A** SeqNo: **2285577** Prep Date: DF: **100**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	1655	50	1000	694.3	96.1	80-120	0			
Sulfate	1798	50	1000	507.2	129	80-120	0			S
Surr: Selenate (surr)	*503*	10	*500*	0	*101*	*85-115*	0			

MS Sample ID: **1102538-08CMS** Units: **mg/L** Analysis Date: **2/22/2011 06:10 AM**
Client ID: Run ID: **ICS3K2_110221A** SeqNo: **2285602** Prep Date: DF: **100**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	1663	50	1000	645.8	102	80-120	0			
Sulfate	1791	50	1000	949.7	84.2	80-120	0			
Surr: Selenate (surr)	*500.7*	10	*500*	0	*100*	*85-115*	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1102473
Project: G.L. Erwin

QC BATCH REPORT

Batch ID: **R105687** Instrument ID **ICS3K2** Method: **E300**

MS Sample ID: **1102538-09CMS** Units: **mg/L** Analysis Date: **2/22/2011 08:20 AM**
Client ID: Run ID: **ICS3K2_110221A** SeqNo: **2285612** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	14.81	0.50	10	4.715	101	80-120	0			
Sulfate	9.377	0.50	10	0.256	91.2	80-120	0			
Surr: Selenate (surr)	*4.962*	0.10	*5*	0	*99.2*	*85-115*	0			

MSD Sample ID: **1102538-02CMSD** Units: **mg/L** Analysis Date: **2/22/2011 04:00 AM**
Client ID: Run ID: **ICS3K2_110221A** SeqNo: **2285584** Prep Date: DF: **100**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	1647	50	1000	694.3	95.3	80-120	1655	0.451	20	
Sulfate	1798	50	1000	507.2	129	80-120	1798	0.00556	20	S
Surr: Selenate (surr)	*501.4*	10	*500*	0	*100*	*85-115*	503	*0.307*	*20*	

MSD Sample ID: **1102538-08CMSD** Units: **mg/L** Analysis Date: **2/22/2011 06:54 AM**
Client ID: Run ID: **ICS3K2_110221A** SeqNo: **2285608** Prep Date: DF: **100**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	1666	50	1000	645.8	102	80-120	1663	0.19	20	
Sulfate	1793	50	1000	949.7	84.3	80-120	1791	0.0932	20	
Surr: Selenate (surr)	*503.4*	10	*500*	0	*101*	*85-115*	500.7	*0.53*	*20*	

MSD Sample ID: **1102538-09CMSD** Units: **mg/L** Analysis Date: **2/22/2011 08:42 AM**
Client ID: Run ID: **ICS3K2_110221A** SeqNo: **2285613** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	14.89	0.50	10	4.715	102	80-120	14.81	0.552	20	
Sulfate	10.66	0.50	10	0.256	104	80-120	9.377	12.8	20	
Surr: Selenate (surr)	*5.001*	0.10	*5*	0	*100*	*85-115*	4.962	*0.783*	*20*	

The following samples were analyzed in this batch: 1102473-08B 1102473-14B 1102473-21B 1102473-23B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1102473
Project: G.L. Erwin

QC BATCH REPORT

Batch ID: **R105763** Instrument ID **Balance1** Method: **M2540C**

MBLK Sample ID: **BLANK-R105763** Units: **mg/L** Analysis Date: **2/22/2011 10:00 AM**
Client ID: Run ID: **BALANCE1_110222F** SeqNo: **2287319** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Fil	ND	10								

LCS Sample ID: **LCS-R105763** Units: **mg/L** Analysis Date: **2/22/2011 10:00 AM**
Client ID: Run ID: **BALANCE1_110222F** SeqNo: **2287320** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Fil	1080	10	1000	0	108	85-115	0			

DUP Sample ID: **1102473-11BDUP** Units: **mg/L** Analysis Date: **2/22/2011 10:00 AM**
Client ID: **MW-11 021611** Run ID: **BALANCE1_110222F** SeqNo: **2287298** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Fil	3544	10	0	0	0	0-0	3420	3.56	20	

DUP Sample ID: **1102547-04CDUP** Units: **mg/L** Analysis Date: **2/22/2011 10:00 AM**
Client ID: Run ID: **BALANCE1_110222F** SeqNo: **2287306** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Fil	4388	10	0	0	0	0-0	5172	16.4	20	

The following samples were analyzed in this batch:

1102473-04B	1102473-05B	1102473-11B
1102473-22B	1102473-23B	1102473-24B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1102473
Project: G.L. Erwin

QC BATCH REPORT

Batch ID: **R105846** Instrument ID **WetChem** Method: **SM2320B**

MBLK Sample ID: **WBLKW1-022411-R105846** Units: **mg/L** Analysis Date: **2/24/2011 02:00 PM**
Client ID: Run ID: **WETCHEM_110224F** SeqNo: **2289265** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	ND	5.0								
Alkalinity, Carbonate (As CaCO3)	ND	5.0								
Alkalinity, Hydroxide (As CaCO3)	ND	5.0								
Alkalinity, Total (As CaCO3)	ND	5.0								

LCS Sample ID: **WLCSW1-022411-R105846** Units: **mg/L** Analysis Date: **2/24/2011 02:00 PM**
Client ID: Run ID: **WETCHEM_110224F** SeqNo: **2289266** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	1012	5.0	1000	0	101	80-120	0			
Alkalinity, Total (As CaCO3)	1012	5.0	1000	0	101	80-120	0			

DUP Sample ID: **1102473-26BDUP** Units: **mg/L** Analysis Date: **2/24/2011 02:00 PM**
Client ID: **Dup-2 021611** Run ID: **WETCHEM_110224F** SeqNo: **2289295** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	206.4	5.0	0	0	0	0-0	206.4	0	20	
Alkalinity, Carbonate (As CaCO3)	ND	5.0	0	0	0	0-0	0	0	20	
Alkalinity, Hydroxide (As CaCO3)	ND	5.0	0	0	0	0-0	0	0	20	
Alkalinity, Total (As CaCO3)	206.4	5.0	0	0	0	0-0	206.4	0	20	

The following samples were analyzed in this batch:

1102473-02B	1102473-03B	1102473-04B
1102473-05B	1102473-06B	1102473-07B
1102473-08B	1102473-11B	1102473-14B
1102473-17B	1102473-18B	1102473-20B
1102473-22B	1102473-23B	1102473-24B
1102473-25B	1102473-26B	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1102473
Project: G.L. Erwin

QC BATCH REPORT

Batch ID: **R105856** Instrument ID **WetChem** Method: **SM2320B**

MBLK Sample ID: **WBLKW1-022411-R105856** Units: **mg/L** Analysis Date: **2/24/2011 04:30 PM**
Client ID: Run ID: **WETCHEM_110224J** SeqNo: **2289543** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	ND	5.0								
Alkalinity, Carbonate (As CaCO3)	ND	5.0								
Alkalinity, Hydroxide (As CaCO3)	ND	5.0								
Alkalinity, Total (As CaCO3)	ND	5.0								

LCS Sample ID: **WLCSW1-022411-R105856** Units: **mg/L** Analysis Date: **2/24/2011 04:30 PM**
Client ID: Run ID: **WETCHEM_110224J** SeqNo: **2289544** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	964.5	5.0	1000	0	96.5	80-120	0			
Alkalinity, Total (As CaCO3)	964.5	5.0	1000	0	96.5	80-120	0			

DUP Sample ID: **1102473-21BDUP** Units: **mg/L** Analysis Date: **2/24/2011 04:30 PM**
Client ID: **MW-22 021611** Run ID: **WETCHEM_110224J** SeqNo: **2289554** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	137.8	5.0	0	0	0	0-0	137.8	0	20	
Alkalinity, Carbonate (As CaCO3)	ND	5.0	0	0	0	0-0	0	0	20	
Alkalinity, Hydroxide (As CaCO3)	ND	5.0	0	0	0	0-0	0	0	20	
Alkalinity, Total (As CaCO3)	137.8	5.0	0	0	0	0-0	137.8	0	20	

The following samples were analyzed in this batch:

1102473-01B	1102473-09B	1102473-10B
1102473-12B	1102473-13B	1102473-15B
1102473-16B	1102473-19B	1102473-21B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

ALS Environmental

Date: 28-Feb-11

Client: Conestoga-Rovers & Associates
Project: G.L. Erwin
WorkOrder: 1102473

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

Units Reported	Description
mg/L	Milligrams per Liter

ALS Laboratory Group
10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887

Chain of Custody Form

Page 1 of 3

ALS Laboratory Group
3352 128th Ave.
Holland, MI 49424-9263
Tel: +1 616 399 6070
Fax: +1 616 399 6185

ALS Project Manager: | ALS Work Order #: 1102473

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order		Project Name	G.L.Erwin	A	Dissolved Metals (6020/7000) Ca, Mg, K, Na
Work Order		Project Number	39124	B	Anions (9056) Cl, F, SO4, NO3
Company Name	Conestoga-Rovers & Associates	Bill To Company	Conestoga-Rovers & Associates	C	Alkalinity
Send Report To	Patricia Lynch	Invoice Attn	Patricia Lynch	D	TDS
Address	6320 Rothway Ste. 100	Address	6320 Rothway, Suite 100	E	
				F	
City/State/Zip	Houston, TX 77040	City/State/Zip	Houston, TX 77040	G	
Phone	(713) 734-3090	Phone	(713) 734-3090	H	
Fax	(713) 264-6138	Fax	(713) 734-3391	I	
e-Mail Address		e-Mail Address		J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	MW-1 021611	02-16-11	1205	W	N/A	2	X	X	X	X							
2	MW-2 021611	02-16-11	1225				X	X	X	X							
3	MW-3 021611	02-16-11	1215				X	X	X	X							
4	MW-4 021611	02-16-11	1430				X	X	X	X							
5	MW-5 021611	02-16-11	1315				X	X	X	X							
6	MW-6 021611	02-16-11	1116				X	X	X	X							
7	MW-7 021611	02-16-11	1228				X	X	X	X							
8	MW-8 021611	02-16-11	1145				X	X	X	X							
9	MW-9 021611	02-16-11	1145				X	X	X	X							
10	MW-10 021611	02-16-11	1255				X	X	X	X							

Sampler(s) Please Print & Sign: J. PRIMERA

Shipment Method: FEDEX

Required Turnaround Time: (Check Box) ☐ Other ☑ Std 10 WK Days ☐ 5 WK Days ☐ 2 WK Days ☐ 24 Hour

Results Due Date:

Relinquished by:	Date:	Time:	Received by:	Notes:
	16 FEB 11	1700		10 Day TAT.
Relinquished by:	Date:	Time:	Received by (Laboratory):	Cooler ID / Cooler Temp.
			2/17/11 11:50	3496
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):	

QC Package: (Check One Box Below)
- ☑ Level II Std QC
- ☐ Level III Std QC/Raw Data
- ☐ Level IV SW846/CLP
- ☐ Other / EDD _____
- ☐ TRRP CheckList
- ☐ TRRP Level IV

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Laboratory Group.
2. Unless otherwise agreed in a formal contract, services provided by ALS Laboratory Group are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

☐ ALS Laboratory Group
10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887

Chain of Custody Form

☐ ALS Laboratory Group
3352 128th Ave.
Holland, MI 49424-9263
Tel: +1 616 399 6070
Fax: +1 616 399 6185

ALS Project Manager: | ALS Work Order #: 1102473

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order		Project Name	G.L.Erwin	A	Dissolved Metals (6020/7000) Ca, Mg, K, Na
Work Order		Project Number	39124	B	Anions (9056) Cl, F, SO4, NO3
Company Name	Conestoga-Rovers & Associates	Bill To Company	Conestoga-Rovers & Associates	C	Alkalinity
Send Report To	Patricia Lynch	Invoice Attn	Patricia Lynch	D	TDS
Address	6320 Rothway Ste. 100	Address	6320 Rothway, Suite 100	E	
				F	
City/State/Zip	Houston, TX 77040	City/State/Zip	Houston, TX 77040	G	
Phone	(713) 734-3090	Phone	(713) 734-3090	H	
Fax	(713) 264-6138	Fax	(713) 734-3391	I	
e-Mail Address		e-Mail Address		J	

No.	Sample Description		Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	mw-11	021611	02-16-11	1310	W	N/A	2	X	X	X	X							
2	mw-12	021611	02-16-11	1205				X	X	X	X							
3	mw-13	021611	02-16-11	1134				X	X	X	X							
4	mw-14	021611	02-16-11	1243				X	X	X	X							
5	mw-15	021611	02-16-11	1212				X	X	X	X							
6	mw-16	021611	02-16-11	1158				X	X	X	X							
7	mw-17	021611	02-16-11	1253				X	X	X	X							
8	~~mw-18~~	021611	~~02-16-11~~															
9	mw-19	021611	02-16-11	1235				X	X	X	X							
10	mw-20	021611	02-16-11	1218				X	X	X	X							

Sampler(s) Please Print & Sign: J. PRIMERA

Shipment Method: FED-EX

Required Turnaround Time: (Check Box) ☑ Std 10 WK Days ☐ 5 WK Days ☐ 2 WK Days ☐ 24 Hour ☐ Other

Results Due Date:

Relinquished by: | Date: 02-16-11 | Time: 1700 | Received by:

Relinquished by: | Date: | Time: | Received by (Laboratory): | 2/17/11 11:50

Logged by (Laboratory): | Date: | Time: | Checked by (Laboratory):

Notes: 10 Day TAT.

Cooler ID	Cooler Temp.
3491	

QC Package: (Check One Box Below)
☑ Level II Std QC
☐ Level III Std QC/Raw Data
☐ Level IV SW846/CLP
☐ Other / EDD _____
☐ TRRP Checklist
☐ TRRP Level IV

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Laboratory Group.
2. Unless otherwise agreed in a formal contract, services provided by ALS Laboratory Group are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

ALS Laboratory Group
10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887

Chain of Custody Form

ALS Laboratory Group
3352 128th Ave.
Holland, MI 49424-9263
Tel: +1 616 399 6070
Fax: +1 616 399 6185

ALS Project Manager: | ALS Work Order #: 1182473

Customer Information

Purchase Order	
Work Order	
Company Name	CRA
Send Report To	PATRICIA LYNCH
Address	6320 Rothway Suite
City/State/Zip	Houston, TX 77040
Phone	713-734-3090
Fax	713-264-0138
e-Mail Address	

Project Information

Project Name	GLENWOOD
Project Number	38124
Bill To Company	CRA
Invoice Attn	PATRICIA LYNCH
Address	6320 Rothway, Suite
City/State/Zip	Houston, TX 77040
Phone	713-734-3090
Fax	713-734-3391
e-Mail Address	

Parameter/Method Request for Analysis

A	DISSOLVED METALS (6020/200) Ca, Mg, K, Na
B	ANIONS (9056) Cl, F, SO4, NO3
C	ALKALINITY
D	TDS
E	
F	
G	
H	
I	
J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	MW-21 021611	2-16-11	1227	W	N/A	2	X	X	X	X							
2	MW-22 021611	2-16-11	1125				X	X	X	X							
3	MW-WEST 021611	2-16-11	1415				X	X	X	X							
4	SW-MW 021611	2-16-11	1355				X	X	X	X							
5	WW-1 021611	2-16-11	1500				X	X	X	X							
6	DUP-1 021611	2-16-11	—				X	X	X	X							
7	DUP-2 021611	2-16-11	—				X	X	X	X							
8																	
9																	
10																	

Sampler(s) Please Print & Sign: PATRICIA LYNCH

Shipment Method: FED-EX

Required Turnaround Time: (Check Box) ☑ STD 10 Wk Days ☐ 5 Wk Days ☐ 2 Wk Days ☐ 24 Hour ☐ Other

Results Due Date:

Relinquished by:	Date: 2-16-11	Time: 1700	Received by:	
Relinquished by:	Date:	Time:	Received by Laboratory:	2/17/11 11:50
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):	

Notes: 10 DAY TAT

Cooler ID	Cooler Temp

QC Package: (Check One Box Below)
- ☑ Level II Std QC
- ☐ Level III Std QC/Raw Date
- ☐ Level IV SW846/CLP
- ☐ Other
- ☐ TRRP Checklist
- ☐ TRRP Level IV

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note:
1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Laboratory Group.
2. Unless otherwise agreed in a formal contract, services provided by ALS Laboratory Group are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

ALS Environmental

Sample Receipt Checklist

Client Name: **CRA-HOU** Date/Time Received: **17-Feb-11 11:50**

Work Order: **1102473** Received by: **RNG**

Checklist completed by Raymond N Gamboa (eSignature) 17-Feb-11 (Date) Reviewed by: R. Kevin Given (eSignature) 18-Feb-11 (Date)

Matrices: Water
Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☐	No ☑	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	2.2c, 3.9c, 1.8c	002	
Cooler(s)/Kit(s):	3496, 3457, 3462		
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☑	No ☐	N/A ☐
pH adjusted?	Yes ☐	No ☑	N/A ☐
pH adjusted by:	-		

Login Notes: Received two sets of bottles labeled DUP 2 021611; logged in one as DUP-1 021611 (in black ink); DUP-2 021611 (red ink).

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

WO# 1107473

This portion can be removed for Recipient's records.

FedEx Tracking Number 874763320328

Phone

Company

Address

Dept/Floor/Suite/Room

State ZIP

ur Internal Billing Reference 3457

ALS Environmental
10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887

CUSTODY SEAL 3452
Time: 17:00
Seal Broken By:
Date: 2/17/11

ALS Environmental
10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887

CUSTODY SEAL 3457
Time:
Seal Broken By:
Date: 2/17/11

ALS Environmental
10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887

CUSTODY SEAL 3452
Date: 2-16-11 Time: 1756
Seal Broken By:
Date: 2/17/11

ALS Environmental

29-Aug-2011

Todd Wells
Conestoga-Rovers & Associates
2135 S Loop 250 West
Midland, TX 79703

Tel: (432) 686-0086
Fax: (432) 686-0186

Re: G.L. Erwin

Work Order: **1108633**

Dear Todd,

ALS Environmental received 24 samples on 19-Aug-2011 11:00 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 45.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Patricia L. Lynch

Electronically approved by: Makenzie L. Henderson

Patricia L. Lynch
Project Manager

ACCREDITED IN ACCORDANCE WITH nelac

Certificate No: T104704231-09A-TX

ALS Environmental

Date: 29-Aug-11

Client: Conestoga-Rovers & Associates
Project: G.L. Erwin
Work Order: **1108633**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
1108633-01	MW1081811	Water		8/18/2011 12:50	8/19/2011 11:00	☐
1108633-02	MW2081811	Water		8/18/2011 12:35	8/19/2011 11:00	☐
1108633-03	MW3081811	Water		8/18/2011 13:05	8/19/2011 11:00	☐
1108633-04	MW4081811	Water		8/18/2011 11:06	8/19/2011 11:00	☐
1108633-05	MW5081811	Water		8/18/2011 13:00	8/19/2011 11:00	☐
1108633-06	MW6081811	Water		8/18/2011 13:12	8/19/2011 11:00	☐
1108633-07	MW7081811	Water		8/18/2011 12:20	8/19/2011 11:00	☐
1108633-08	MW8081811	Water		8/18/2011 13:18	8/19/2011 11:00	☐
1108633-09	MW9081811	Water		8/18/2011 12:00	8/19/2011 11:00	☐
1108633-10	MW10081811	Water		8/18/2011 11:50	8/19/2011 11:00	☐
1108633-11	MW12081811	Water		8/18/2011 13:32	8/19/2011 11:00	☐
1108633-12	MW13081811	Water		8/18/2011 12:10	8/19/2011 11:00	☐
1108633-13	MW14081811	Water		8/18/2011 14:10	8/19/2011 11:00	☐
1108633-14	MW15081811	Water		8/18/2011 13:39	8/19/2011 11:00	☐
1108633-15	MW16081811	Water		8/18/2011 13:24	8/19/2011 11:00	☐
1108633-16	MW17081811	Water		8/18/2011 14:17	8/19/2011 11:00	☐
1108633-17	MW19081811	Water		8/18/2011 14:05	8/19/2011 11:00	☐
1108633-18	MW20081811	Water		8/18/2011 13:47	8/19/2011 11:00	☐
1108633-19	MW21081811	Water		8/18/2011 13:55	8/19/2011 11:00	☐
1108633-20	MW22081811	Water		8/18/2011 14:20	8/19/2011 11:00	☐
1108633-21	WMW081811	Water		8/18/2011 10:55	8/19/2011 11:00	☐
1108633-22	SWMW081811	Water		8/18/2011 10:45	8/19/2011 11:00	☐
1108633-23	Dup1081811	Water		8/18/2011	8/19/2011 11:00	☐
1108633-24	Dup2081811	Water		8/18/2011	8/19/2011 11:00	☐

Client:	Conestoga-Rovers & Associates
Project:	G.L. Erwin
Work Order:	1108633

Case Narrative

Anions surrogate recovery in the 10-fold dilution for sample MW6081811 is flagged at the upper control limit (115%) due to significant figures and rounding.

Batch 54897 Metals: MS/MSD is for an unrelated sample (1108638-02).

Batch 54923 Metals MS recoveries for calcium and magnesium in sample MW2081811 are below the control limits due to the sample matrix. Data is flagged with O based on the high concentration in the background sample.

Batch R114962 chloride MS/MSD recoveries in sample MW1081811 are below the control limits due to the sample matrix. Data is flagged with E and O based on the high concentration in the background sample.

Batch R114962 sulfate and chloride MS/MSD recoveries in sample MW1481811 are below the control limits due to the sample matrix. Data is flagged with E and O based on the high concentration in the background sample. The recovery for fluoride in the MSD is also low, but MS and LCS/LCSD recoveries are in control.

ALS Environmental

Date: *29-Aug-11*

Client: Conestoga-Rovers & Associates
Project: G.L. Erwin
Sample ID: MW1081811
Collection Date: 8/18/2011 12:50 PM

Work Order: 1108633
Lab ID: 1108633-01
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DISSOLVED METALS		Method: **SW6020**		Prep: SW3010A / 8/24/11			Analyst: **IGF**
Calcium	**50.7**		**0.25**	**2.50**	**mg/L**	5	8/24/2011 22:37
Magnesium	**17.2**		**0.20**	**1.00**	**mg/L**	5	8/24/2011 22:37
Potassium	**2.80**		**0.50**	**1.00**	**mg/L**	5	8/24/2011 22:37
Sodium	**91.4**		**0.50**	**1.00**	**mg/L**	5	8/24/2011 22:37
ANIONS - EPA 300.0 (1993)		Method: **E300**					Analyst: **JBA**
Chloride	**127**		**2.00**	**5.00**	**mg/L**	10	8/20/2011 13:35
Fluoride	**1.76**		**0.0500**	**0.100**	**mg/L**	1	8/19/2011 20:35
Nitrogen, Nitrate (As N)	**3.34**		**0.0300**	**0.100**	**mg/L**	1	8/19/2011 20:35
Sulfate	**83.3**		**0.200**	**0.500**	**mg/L**	1	8/19/2011 20:35
Surr: Selenate (surr)	*101*			*85-115*	*%REC*	1	8/19/2011 20:35
Surr: Selenate (surr)	*111*			*85-115*	*%REC*	10	8/20/2011 13:35
ALKALINITY		Method: **SM2320B**					Analyst: **DM**
Alkalinity, Bicarbonate (As CaCO3)	**167**		**5.0**	**5.00**	**mg/L**	1	8/24/2011 15:23
Alkalinity, Carbonate (As CaCO3)	U		5.0	5.00	mg/L	1	8/24/2011 15:23
Alkalinity, Hydroxide (As CaCO3)	U		5.0	5.00	mg/L	1	8/24/2011 15:23
Alkalinity, Total (As CaCO3)	**167**		**5.0**	**5.00**	**mg/L**	1	8/24/2011 15:23
TOTAL DISSOLVED SOLIDS		Method: **M2540C**					Analyst: **KAH**
Total Dissolved Solids (Residue, Filterable)	**490**		**5.0**	**10.0**	**mg/L**	1	8/25/2011 13:00

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *29-Aug-11*

Client: Conestoga-Rovers & Associates
Project: G.L. Erwin
Sample ID: MW2081811
Collection Date: 8/18/2011 12:35 PM

Work Order: 1108633
Lab ID: 1108633-02
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DISSOLVED METALS		Method: **SW6020**			Prep: SW3010A / 8/24/11		Analyst: **IGF**
Calcium	**24.6**		**0.25**	**2.50**	**mg/L**	5	8/24/2011 22:43
Magnesium	**6.98**		**0.20**	**1.00**	**mg/L**	5	8/24/2011 22:43
Potassium	**3.48**		**0.50**	**1.00**	**mg/L**	5	8/24/2011 22:43
Sodium	**263**		**0.50**	**1.00**	**mg/L**	5	8/24/2011 22:43
ANIONS - EPA 300.0 (1993)		Method: **E300**					Analyst: **JBA**
Chloride	**259**		**2.00**	**5.00**	**mg/L**	10	8/20/2011 13:56
Fluoride	**1.52**		**0.0500**	**0.100**	**mg/L**	1	8/19/2011 20:13
Nitrogen, Nitrate (As N)	**5.56**		**0.0300**	**0.100**	**mg/L**	1	8/19/2011 20:13
Sulfate	**158**		**2.00**	**5.00**	**mg/L**	10	8/20/2011 13:56
Surr: Selenate (surr)	*102*			*85-115*	*%REC*	1	8/19/2011 20:13
Surr: Selenate (surr)	*112*			*85-115*	*%REC*	10	8/20/2011 13:56
ALKALINITY		Method: **SM2320B**					Analyst: **DM**
Alkalinity, Bicarbonate (As CaCO3)	**251**		**5.0**	**5.00**	**mg/L**	1	8/24/2011 15:23
Alkalinity, Carbonate (As CaCO3)	U		5.0	5.00	mg/L	1	8/24/2011 15:23
Alkalinity, Hydroxide (As CaCO3)	U		5.0	5.00	mg/L	1	8/24/2011 15:23
Alkalinity, Total (As CaCO3)	**251**		**5.0**	**5.00**	**mg/L**	1	8/24/2011 15:23
TOTAL DISSOLVED SOLIDS		Method: **M2540C**					Analyst: **KAH**
Total Dissolved Solids (Residue, Filterable)	**1,090**		**5.0**	**10.0**	**mg/L**	1	8/25/2011 13:00

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *29-Aug-11*

Client: Conestoga-Rovers & Associates
Project: G.L. Erwin
Sample ID: MW3081811
Collection Date: 8/18/2011 01:05 PM

Work Order: 1108633
Lab ID: 1108633-03
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DISSOLVED METALS		Method: **SW6020**		Prep: SW3010A / 8/24/11			Analyst: **IGF**
Calcium	**76.3**		**0.25**	**2.50**	**mg/L**	5	8/24/2011 23:34
Magnesium	**23.2**		**0.20**	**1.00**	**mg/L**	5	8/24/2011 23:34
Potassium	**11.2**		**0.50**	**1.00**	**mg/L**	5	8/24/2011 23:34
Sodium	**700**		**0.50**	**1.00**	**mg/L**	5	8/24/2011 23:34
ANIONS - EPA 300.0 (1993)		Method: **E300**					Analyst: **JBA**
Chloride	**1,250**		**4.00**	**10.0**	**mg/L**	20	8/20/2011 15:18
Fluoride	**1.42**		**0.0500**	**0.100**	**mg/L**	1	8/19/2011 22:10
Nitrogen, Nitrate (As N)	**9.18**		**0.0300**	**0.100**	**mg/L**	1	8/19/2011 22:10
Sulfate	**887**		**4.00**	**10.0**	**mg/L**	20	8/20/2011 15:18
Surr: Selenate (surr)	*111*			*85-115*	*%REC*	1	8/19/2011 22:10
Surr: Selenate (surr)	*104*			*85-115*	*%REC*	20	8/20/2011 15:18
ALKALINITY		Method: **SM2320B**					Analyst: **DM**
Alkalinity, Bicarbonate (As CaCO3)	**227**		**5.0**	**5.00**	**mg/L**	1	8/24/2011 15:23
Alkalinity, Carbonate (As CaCO3)	U		5.0	5.00	mg/L	1	8/24/2011 15:23
Alkalinity, Hydroxide (As CaCO3)	U		5.0	5.00	mg/L	1	8/24/2011 15:23
Alkalinity, Total (As CaCO3)	**227**		**5.0**	**5.00**	**mg/L**	1	8/24/2011 15:23
TOTAL DISSOLVED SOLIDS		Method: **M2540C**					Analyst: **KAH**
Total Dissolved Solids (Residue, Filterable)	**2,750**		**5.0**	**10.0**	**mg/L**	1	8/25/2011 13:00

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *29-Aug-11*

Client: Conestoga-Rovers & Associates
Project: G.L. Erwin
Sample ID: MW4081811
Collection Date: 8/18/2011 11:06 AM

Work Order: 1108633
Lab ID: 1108633-04
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DISSOLVED METALS		Method: **SW6020**			Prep: SW3010A / 8/24/11		Analyst: **IGF**
Calcium	**156**		**0.25**	**2.50**	**mg/L**	5	8/24/2011 23:40
Magnesium	**41.4**		**0.20**	**1.00**	**mg/L**	5	8/24/2011 23:40
Potassium	**23.9**		**0.50**	**1.00**	**mg/L**	5	8/24/2011 23:40
Sodium	**1,240**		**10**	**20.0**	**mg/L**	100	8/25/2011 13:08
ANIONS - EPA 300.0 (1993)		Method: **E300**					Analyst: **JBA**
Chloride	**2,530**		**20.0**	**50.0**	**mg/L**	100	8/20/2011 18:17
Fluoride	**0.680**		**0.0500**	**0.100**	**mg/L**	1	8/19/2011 17:41
Nitrogen, Nitrate (As N)	**5.39**		**0.0300**	**0.100**	**mg/L**	1	8/19/2011 17:41
Sulfate	**479**		**20.0**	**50.0**	**mg/L**	100	8/20/2011 18:17
Surr: Selenate (surr)	*97.7*			*85-115*	*%REC*	1	8/19/2011 17:41
Surr: Selenate (surr)	*104*			*85-115*	*%REC*	100	8/20/2011 18:17
ALKALINITY		Method: **SM2320B**					Analyst: **DM**
Alkalinity, Bicarbonate (As CaCO3)	**358**		**5.0**	**5.00**	**mg/L**	1	8/24/2011 15:23
Alkalinity, Carbonate (As CaCO3)	U		5.0	5.00	mg/L	1	8/24/2011 15:23
Alkalinity, Hydroxide (As CaCO3)	U		5.0	5.00	mg/L	1	8/24/2011 15:23
Alkalinity, Total (As CaCO3)	**358**		**5.0**	**5.00**	**mg/L**	1	8/24/2011 15:23
TOTAL DISSOLVED SOLIDS		Method: **M2540C**					Analyst: **KAH**
Total Dissolved Solids (Residue, Filterable)	**4,870**		**5.0**	**10.0**	**mg/L**	1	8/25/2011 08:00

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *29-Aug-11*

Client: Conestoga-Rovers & Associates
Project: G.L. Erwin
Sample ID: MW5081811
Collection Date: 8/18/2011 01:00 PM

Work Order: 1108633
Lab ID: 1108633-05
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DISSOLVED METALS		Method: **SW6020**		Prep: SW3010A / 8/24/11			Analyst: **IGF**
Calcium	**59.4**		**0.25**	**2.50**	**mg/L**	5	8/24/2011 23:46
Magnesium	**17.6**		**0.20**	**1.00**	**mg/L**	5	8/24/2011 23:46
Potassium	**13.2**		**0.50**	**1.00**	**mg/L**	5	8/24/2011 23:46
Sodium	**233**		**0.50**	**1.00**	**mg/L**	5	8/24/2011 23:46
ANIONS - EPA 300.0 (1993)		Method: **E300**					Analyst: **JBA**
Chloride	**325**		**2.00**	**5.00**	**mg/L**	10	8/20/2011 14:18
Fluoride	**1.22**		**0.0500**	**0.100**	**mg/L**	1	8/19/2011 21:40
Nitrogen, Nitrate (As N)	U		0.0300	0.100	mg/L	1	8/19/2011 21:40
Sulfate	**175**		**2.00**	**5.00**	**mg/L**	10	8/20/2011 14:18
Surr: Selenate (surr)	*102*			*85-115*	*%REC*	1	8/19/2011 21:40
Surr: Selenate (surr)	*113*			*85-115*	*%REC*	10	8/20/2011 14:18
ALKALINITY		Method: **SM2320B**					Analyst: **DM**
Alkalinity, Bicarbonate (As CaCO3)	**224**		**5.0**	**5.00**	**mg/L**	1	8/24/2011 15:23
Alkalinity, Carbonate (As CaCO3)	U		5.0	5.00	mg/L	1	8/24/2011 15:23
Alkalinity, Hydroxide (As CaCO3)	U		5.0	5.00	mg/L	1	8/24/2011 15:23
Alkalinity, Total (As CaCO3)	**224**		**5.0**	**5.00**	**mg/L**	1	8/24/2011 15:23
TOTAL DISSOLVED SOLIDS		Method: **M2540C**					Analyst: **KAH**
Total Dissolved Solids (Residue, Filterable)	**1,160**		**5.0**	**10.0**	**mg/L**	1	8/25/2011 13:00

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *29-Aug-11*

Client: Conestoga-Rovers & Associates
Project: G.L. Erwin
Sample ID: MW6081811
Collection Date: 8/18/2011 01:12 PM

Work Order: 1108633
Lab ID: 1108633-06
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DISSOLVED METALS		Method: **SW6020**			Prep: SW3010A / 8/24/11		Analyst: **IGF**
Calcium	**80.6**		**0.25**	**2.50**	**mg/L**	5	8/24/2011 23:52
Magnesium	**25.2**		**0.20**	**1.00**	**mg/L**	5	8/24/2011 23:52
Potassium	**7.68**		**0.50**	**1.00**	**mg/L**	5	8/24/2011 23:52
Sodium	**492**		**0.50**	**1.00**	**mg/L**	5	8/24/2011 23:52
ANIONS - EPA 300.0 (1993)		Method: **E300**					Analyst: **JBA**
Chloride	**657**		**2.00**	**5.00**	**mg/L**	10	8/20/2011 13:33
Fluoride	**2.00**		**0.0500**	**0.100**	**mg/L**	1	8/19/2011 22:31
Nitrogen, Nitrate (As N)	**8.73**		**0.0300**	**0.100**	**mg/L**	1	8/19/2011 22:31
Sulfate	**205**		**2.00**	**5.00**	**mg/L**	10	8/20/2011 13:33
Surr: Selenate (surr)	*111*			*85-115*	*%REC*	1	8/19/2011 22:31
Surr: Selenate (surr)	*115*	S		*85-115*	*%REC*	10	8/20/2011 13:33
ALKALINITY		Method: **SM2320B**					Analyst: **DM**
Alkalinity, Bicarbonate (As CaCO3)	**243**		**5.0**	**5.00**	**mg/L**	1	8/24/2011 15:23
Alkalinity, Carbonate (As CaCO3)	U		5.0	5.00	mg/L	1	8/24/2011 15:23
Alkalinity, Hydroxide (As CaCO3)	U		5.0	5.00	mg/L	1	8/24/2011 15:23
Alkalinity, Total (As CaCO3)	**243**		**5.0**	**5.00**	**mg/L**	1	8/24/2011 15:23
TOTAL DISSOLVED SOLIDS		Method: **M2540C**					Analyst: **KAH**
Total Dissolved Solids (Residue, Filterable)	**1,830**		**5.0**	**10.0**	**mg/L**	1	8/25/2011 13:00

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *29-Aug-11*

Client: Conestoga-Rovers & Associates
Project: G.L. Erwin
Sample ID: MW7081811
Collection Date: 8/18/2011 12:20 PM

Work Order: 1108633
Lab ID: 1108633-07
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DISSOLVED METALS		Method: **SW6020**		Prep: SW3010A / 8/24/11			Analyst: **IGF**
Calcium	**27.5**		**0.25**	**2.50**	**mg/L**	5	8/24/2011 23:59
Magnesium	**8.56**		**0.20**	**1.00**	**mg/L**	5	8/24/2011 23:59
Potassium	**2.31**		**0.50**	**1.00**	**mg/L**	5	8/24/2011 23:59
Sodium	**234**		**0.50**	**1.00**	**mg/L**	5	8/24/2011 23:59
ANIONS - EPA 300.0 (1993)		Method: **E300**					Analyst: **JBA**
Chloride	**268**		**2.00**	**5.00**	**mg/L**	10	8/20/2011 14:40
Fluoride	**2.76**		**0.0500**	**0.100**	**mg/L**	1	8/19/2011 19:51
Nitrogen, Nitrate (As N)	**4.16**		**0.0300**	**0.100**	**mg/L**	1	8/19/2011 19:51
Sulfate	**121**		**2.00**	**5.00**	**mg/L**	10	8/20/2011 14:40
Surr: Selenate (surr)	*103*			*85-115*	*%REC*	1	8/19/2011 19:51
Surr: Selenate (surr)	*112*			*85-115*	*%REC*	10	8/20/2011 14:40
ALKALINITY		Method: **SM2320B**					Analyst: **DM**
Alkalinity, Bicarbonate (As CaCO3)	**248**		**5.0**	**5.00**	**mg/L**	1	8/24/2011 15:23
Alkalinity, Carbonate (As CaCO3)	U		5.0	5.00	mg/L	1	8/24/2011 15:23
Alkalinity, Hydroxide (As CaCO3)	U		5.0	5.00	mg/L	1	8/24/2011 15:23
Alkalinity, Total (As CaCO3)	**248**		**5.0**	**5.00**	**mg/L**	1	8/24/2011 15:23
TOTAL DISSOLVED SOLIDS		Method: **M2540C**					Analyst: **KAH**
Total Dissolved Solids (Residue, Filterable)	**1,060**		**5.0**	**10.0**	**mg/L**	1	8/25/2011 13:00

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *29-Aug-11*

Client: Conestoga-Rovers & Associates
Project: G.L. Erwin
Sample ID: MW8081811
Collection Date: 8/18/2011 01:18 PM

Work Order: 1108633
Lab ID: 1108633-08
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DISSOLVED METALS		Method: **SW6020**			Prep: SW3010A / 8/24/11		Analyst: **IGF**
Calcium	**47.2**		**0.25**	**2.50**	**mg/L**	5	8/25/2011 00:05
Magnesium	**15.0**		**0.20**	**1.00**	**mg/L**	5	8/25/2011 00:05
Potassium	**3.68**		**0.50**	**1.00**	**mg/L**	5	8/25/2011 00:05
Sodium	**440**		**0.50**	**1.00**	**mg/L**	5	8/25/2011 00:05
ANIONS - EPA 300.0 (1993)		Method: **E300**					Analyst: **JBA**
Chloride	**676**		**2.00**	**5.00**	**mg/L**	10	8/20/2011 13:54
Fluoride	**3.21**		**0.0500**	**0.100**	**mg/L**	1	8/19/2011 22:52
Nitrogen, Nitrate (As N)	**7.56**		**0.0300**	**0.100**	**mg/L**	1	8/19/2011 22:52
Sulfate	**148**		**2.00**	**5.00**	**mg/L**	10	8/20/2011 13:54
Surr: Selenate (surr)	*106*			*85-115*	*%REC*	1	8/19/2011 22:52
Surr: Selenate (surr)	*106*			*85-115*	*%REC*	10	8/20/2011 13:54
ALKALINITY		Method: **SM2320B**					Analyst: **DM**
Alkalinity, Bicarbonate (As CaCO3)	**257**		**5.0**	**5.00**	**mg/L**	1	8/24/2011 15:23
Alkalinity, Carbonate (As CaCO3)	U		5.0	5.00	mg/L	1	8/24/2011 15:23
Alkalinity, Hydroxide (As CaCO3)	U		5.0	5.00	mg/L	1	8/24/2011 15:23
Alkalinity, Total (As CaCO3)	**257**		**5.0**	**5.00**	**mg/L**	1	8/24/2011 15:23
TOTAL DISSOLVED SOLIDS		Method: **M2540C**					Analyst: **KAH**
Total Dissolved Solids (Residue, Filterable)	**1,770**		**5.0**	**10.0**	**mg/L**	1	8/25/2011 13:00

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *29-Aug-11*

Client: Conestoga-Rovers & Associates
Project: G.L. Erwin
Sample ID: MW9081811
Collection Date: 8/18/2011 12:00 PM

Work Order: 1108633
Lab ID: 1108633-09
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DISSOLVED METALS		Method: **SW6020**		Prep: SW3010A / 8/24/11			Analyst: **IGF**
Calcium	**62.7**		**0.25**	**2.50**	**mg/L**	5	8/25/2011 00:11
Magnesium	**21.1**		**0.20**	**1.00**	**mg/L**	5	8/25/2011 00:11
Potassium	**3.92**		**0.50**	**1.00**	**mg/L**	5	8/25/2011 00:11
Sodium	**484**		**0.50**	**1.00**	**mg/L**	5	8/25/2011 00:11
ANIONS - EPA 300.0 (1993)		Method: **E300**					Analyst: **JBA**
Chloride	**689**		**2.00**	**5.00**	**mg/L**	10	8/20/2011 15:01
Fluoride	**2.06**		**0.0500**	**0.100**	**mg/L**	1	8/19/2011 19:08
Nitrogen, Nitrate (As N)	**2.95**		**0.0300**	**0.100**	**mg/L**	1	8/19/2011 19:08
Sulfate	**294**		**2.00**	**5.00**	**mg/L**	10	8/20/2011 15:01
Surr: Selenate (surr)	*99.5*			*85-115*	*%REC*	1	8/19/2011 19:08
Surr: Selenate (surr)	*111*			*85-115*	*%REC*	10	8/20/2011 15:01
ALKALINITY		Method: **SM2320B**					Analyst: **DM**
Alkalinity, Bicarbonate (As CaCO3)	**285**		**5.0**	**5.00**	**mg/L**	1	8/24/2011 15:23
Alkalinity, Carbonate (As CaCO3)	U		5.0	5.00	mg/L	1	8/24/2011 15:23
Alkalinity, Hydroxide (As CaCO3)	U		5.0	5.00	mg/L	1	8/24/2011 15:23
Alkalinity, Total (As CaCO3)	**285**		**5.0**	**5.00**	**mg/L**	1	8/24/2011 15:23
TOTAL DISSOLVED SOLIDS		Method: **M2540C**					Analyst: **KAH**
Total Dissolved Solids (Residue, Filterable)	**1,940**		**5.0**	**10.0**	**mg/L**	1	8/25/2011 13:00

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *29-Aug-11*

Client: Conestoga-Rovers & Associates
Project: G.L. Erwin
Sample ID: MW10081811
Collection Date: 8/18/2011 11:50 AM

Work Order: 1108633
Lab ID: 1108633-10
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DISSOLVED METALS		Method: **SW6020**			Prep: SW3010A / 8/24/11		Analyst: **IGF**
Calcium	**1,000**		**5.0**	**50.0**	**mg/L**	100	8/25/2011 13:14
Magnesium	**298**		**0.20**	**1.00**	**mg/L**	5	8/25/2011 00:30
Potassium	**15.9**		**0.50**	**1.00**	**mg/L**	5	8/25/2011 00:30
Sodium	**671**		**0.50**	**1.00**	**mg/L**	5	8/25/2011 00:30
ANIONS - EPA 300.0 (1993)		Method: **E300**					Analyst: **JBA**
Chloride	**3,990**		**10.0**	**25.0**	**mg/L**	50	8/20/2011 17:12
Fluoride	**0.626**		**0.0500**	**0.100**	**mg/L**	1	8/19/2011 18:46
Nitrogen, Nitrate (As N)	**4.30**		**0.0300**	**0.100**	**mg/L**	1	8/19/2011 18:46
Sulfate	**172**		**10.0**	**25.0**	**mg/L**	50	8/20/2011 17:12
Surr: Selenate (surr)	*100*			*85-115*	*%REC*	1	8/19/2011 18:46
Surr: Selenate (surr)	*111*			*85-115*	*%REC*	50	8/20/2011 17:12
ALKALINITY		Method: **SM2320B**					Analyst: **DM**
Alkalinity, Bicarbonate (As CaCO3)	**110**		**5.0**	**5.00**	**mg/L**	1	8/24/2011 15:23
Alkalinity, Carbonate (As CaCO3)	U		5.0	5.00	mg/L	1	8/24/2011 15:23
Alkalinity, Hydroxide (As CaCO3)	U		5.0	5.00	mg/L	1	8/24/2011 15:23
Alkalinity, Total (As CaCO3)	**110**		**5.0**	**5.00**	**mg/L**	1	8/24/2011 15:23
TOTAL DISSOLVED SOLIDS		Method: **M2540C**					Analyst: **KAH**
Total Dissolved Solids (Residue, Filterable)	**8,290**		**5.0**	**10.0**	**mg/L**	1	8/25/2011 13:00

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *29-Aug-11*

Client: Conestoga-Rovers & Associates
Project: G.L. Erwin
Sample ID: MW12081811
Collection Date: 8/18/2011 01:32 PM

Work Order: 1108633
Lab ID: 1108633-11
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DISSOLVED METALS		Method: **SW6020**		Prep: SW3010A / 8/24/11			Analyst: **IGF**
Calcium	**560**		**0.25**	**2.50**	**mg/L**	5	8/25/2011 00:37
Magnesium	**183**		**0.20**	**1.00**	**mg/L**	5	8/25/2011 00:37
Potassium	**10.5**		**0.50**	**1.00**	**mg/L**	5	8/25/2011 00:37
Sodium	**169**		**0.50**	**1.00**	**mg/L**	5	8/25/2011 00:37
ANIONS - EPA 300.0 (1993)		Method: **E300**					Analyst: **JBA**
Chloride	**2,110**		**10.0**	**25.0**	**mg/L**	50	8/20/2011 17:33
Fluoride	**0.908**		**0.0500**	**0.100**	**mg/L**	1	8/19/2011 23:07
Nitrogen, Nitrate (As N)	**4.08**		**0.0300**	**0.100**	**mg/L**	1	8/19/2011 23:07
Sulfate	**62.7**		**0.200**	**0.500**	**mg/L**	1	8/19/2011 23:07
Surr: Selenate (surr)	*100*			*85-115*	*%REC*	1	8/19/2011 23:07
Surr: Selenate (surr)	*107*			*85-115*	*%REC*	50	8/20/2011 17:33
ALKALINITY		Method: **SM2320B**					Analyst: **DM**
Alkalinity, Bicarbonate (As CaCO3)	**85.5**		**5.0**	**5.00**	**mg/L**	1	8/24/2011 15:23
Alkalinity, Carbonate (As CaCO3)	U		5.0	5.00	mg/L	1	8/24/2011 15:23
Alkalinity, Hydroxide (As CaCO3)	U		5.0	5.00	mg/L	1	8/24/2011 15:23
Alkalinity, Total (As CaCO3)	**85.5**		**5.0**	**5.00**	**mg/L**	1	8/24/2011 15:23
TOTAL DISSOLVED SOLIDS		Method: **M2540C**					Analyst: **KAH**
Total Dissolved Solids (Residue, Filterable)	**5,000**		**5.0**	**10.0**	**mg/L**	1	8/25/2011 13:00

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *29-Aug-11*

Client: Conestoga-Rovers & Associates
Project: G.L. Erwin
Sample ID: MW13081811
Collection Date: 8/18/2011 12:10 PM

Work Order: 1108633
Lab ID: 1108633-12
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DISSOLVED METALS		Method: **SW6020**			Prep: SW3010A / 8/24/11		Analyst: **IGF**
Calcium	**404**		**0.25**	**2.50**	**mg/L**	5	8/25/2011 00:43
Magnesium	**138**		**0.20**	**1.00**	**mg/L**	5	8/25/2011 00:43
Potassium	**11.8**		**0.50**	**1.00**	**mg/L**	5	8/25/2011 00:43
Sodium	**156**		**0.50**	**1.00**	**mg/L**	5	8/25/2011 00:43
ANIONS - EPA 300.0 (1993)		Method: **E300**					Analyst: **JBA**
Chloride	**1,640**		**10.0**	**25.0**	**mg/L**	50	8/20/2011 17:55
Fluoride	**1.57**		**0.0500**	**0.100**	**mg/L**	1	8/19/2011 19:30
Nitrogen, Nitrate (As N)	**4.04**		**0.0300**	**0.100**	**mg/L**	1	8/19/2011 19:30
Sulfate	**166**		**10.0**	**25.0**	**mg/L**	50	8/20/2011 17:55
Surr: Selenate (surr)	*103*			*85-115*	*%REC*	1	8/19/2011 19:30
Surr: Selenate (surr)	*110*			*85-115*	*%REC*	50	8/20/2011 17:55
ALKALINITY		Method: **SM2320B**					Analyst: **DM**
Alkalinity, Bicarbonate (As CaCO3)	**87.7**		**5.0**	**5.00**	**mg/L**	1	8/24/2011 15:23
Alkalinity, Carbonate (As CaCO3)	U		5.0	5.00	mg/L	1	8/24/2011 15:23
Alkalinity, Hydroxide (As CaCO3)	U		5.0	5.00	mg/L	1	8/24/2011 15:23
Alkalinity, Total (As CaCO3)	**87.7**		**5.0**	**5.00**	**mg/L**	1	8/24/2011 15:23
TOTAL DISSOLVED SOLIDS		Method: **M2540C**					Analyst: **KAH**
Total Dissolved Solids (Residue, Filterable)	**4,100**		**5.0**	**10.0**	**mg/L**	1	8/25/2011 13:00

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *29-Aug-11*

Client: Conestoga-Rovers & Associates
Project: G.L. Erwin
Sample ID: MW14081811
Collection Date: 8/18/2011 02:10 PM

Work Order: 1108633
Lab ID: 1108633-13
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DISSOLVED METALS		Method: **SW6020**			Prep: SW3010A / 8/24/11		Analyst: **IGF**
Calcium	**1,410**		**5.0**	**50.0**	**mg/L**	100	8/25/2011 14:30
Magnesium	**318**		**0.20**	**1.00**	**mg/L**	5	8/25/2011 00:49
Potassium	**20.3**		**0.50**	**1.00**	**mg/L**	5	8/25/2011 00:49
Sodium	**2,280**		**10**	**20.0**	**mg/L**	100	8/25/2011 14:30
ANIONS - EPA 300.0 (1993)		Method: **E300**					Analyst: **JBA**
Chloride	**7,490**		**20.0**	**50.0**	**mg/L**	100	8/20/2011 12:51
Fluoride	**0.274**		**0.0500**	**0.100**	**mg/L**	1	8/19/2011 18:39
Nitrogen, Nitrate (As N)	**3.65**		**0.0300**	**0.100**	**mg/L**	1	8/19/2011 18:39
Sulfate	**1,010**		**20.0**	**50.0**	**mg/L**	100	8/20/2011 12:51
Surr: Selenate (surr)	*98.0*			*85-115*	*%REC*	1	8/19/2011 18:39
Surr: Selenate (surr)	*110*			*85-115*	*%REC*	100	8/20/2011 12:51
ALKALINITY		Method: **SM2320B**					Analyst: **DM**
Alkalinity, Bicarbonate (As CaCO3)	**109**		**5.0**	**5.00**	**mg/L**	1	8/24/2011 15:23
Alkalinity, Carbonate (As CaCO3)	**13.1**		**5.0**	**5.00**	**mg/L**	1	8/24/2011 15:23
Alkalinity, Hydroxide (As CaCO3)	U		5.0	5.00	mg/L	1	8/24/2011 15:23
Alkalinity, Total (As CaCO3)	**122**		**5.0**	**5.00**	**mg/L**	1	8/24/2011 15:23
TOTAL DISSOLVED SOLIDS		Method: **M2540C**					Analyst: **KAH**
Total Dissolved Solids (Residue, Filterable)	**12,800**		**5.0**	**10.0**	**mg/L**	1	8/25/2011 13:00

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *29-Aug-11*

Client: Conestoga-Rovers & Associates
Project: G.L. Erwin
Sample ID: MW15081811
Collection Date: 8/18/2011 01:39 PM

Work Order: 1108633
Lab ID: 1108633-14
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DISSOLVED METALS		Method: **SW6020**			Prep: SW3010A / 8/24/11		Analyst: **IGF**
Calcium	**293**		**0.25**	**2.50**	**mg/L**	5	8/25/2011 00:56
Magnesium	**103**		**0.20**	**1.00**	**mg/L**	5	8/25/2011 00:56
Potassium	**9.52**		**0.50**	**1.00**	**mg/L**	5	8/25/2011 00:56
Sodium	**115**		**0.50**	**1.00**	**mg/L**	5	8/25/2011 00:56
ANIONS - EPA 300.0 (1993)		Method: **E300**					Analyst: **JBA**
Chloride	**1,110**		**4.00**	**10.0**	**mg/L**	20	8/20/2011 15:45
Fluoride	**1.20**		**0.0500**	**0.100**	**mg/L**	1	8/19/2011 22:45
Nitrogen, Nitrate (As N)	**2.84**		**0.0300**	**0.100**	**mg/L**	1	8/19/2011 22:45
Sulfate	**83.4**		**0.200**	**0.500**	**mg/L**	1	8/19/2011 22:45
Surr: Selenate (surr)	*102*			*85-115*	*%REC*	1	8/19/2011 22:45
Surr: Selenate (surr)	*111*			*85-115*	*%REC*	20	8/20/2011 15:45
ALKALINITY		Method: **SM2320B**					Analyst: **DM**
Alkalinity, Bicarbonate (As CaCO3)	**97.0**		**5.0**	**5.00**	**mg/L**	1	8/24/2011 15:23
Alkalinity, Carbonate (As CaCO3)	U		5.0	5.00	mg/L	1	8/24/2011 15:23
Alkalinity, Hydroxide (As CaCO3)	U		5.0	5.00	mg/L	1	8/24/2011 15:23
Alkalinity, Total (As CaCO3)	**97.0**		**5.0**	**5.00**	**mg/L**	1	8/24/2011 15:23
TOTAL DISSOLVED SOLIDS		Method: **M2540C**					Analyst: **KAH**
Total Dissolved Solids (Residue, Filterable)	**3,720**		**5.0**	**10.0**	**mg/L**	1	8/25/2011 13:00

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *29-Aug-11*

Client: Conestoga-Rovers & Associates
Project: G.L. Erwin
Sample ID: MW16081811
Collection Date: 8/18/2011 01:24 PM

Work Order: 1108633
Lab ID: 1108633-15
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DISSOLVED METALS		Method: **SW6020**		Prep: SW3010A / 8/24/11			Analyst: **IGF**
Calcium	**128**		**0.25**	**2.50**	**mg/L**	5	8/25/2011 01:02
Magnesium	**39.5**		**0.20**	**1.00**	**mg/L**	5	8/25/2011 01:02
Potassium	**4.47**		**0.50**	**1.00**	**mg/L**	5	8/25/2011 01:02
Sodium	**331**		**0.50**	**1.00**	**mg/L**	5	8/25/2011 01:02
ANIONS - EPA 300.0 (1993)		Method: **E300**					Analyst: **JBA**
Chloride	**775**		**2.00**	**5.00**	**mg/L**	10	8/20/2011 14:15
Fluoride	**1.18**		**0.0500**	**0.100**	**mg/L**	1	8/19/2011 23:13
Nitrogen, Nitrate (As N)	**5.80**		**0.0300**	**0.100**	**mg/L**	1	8/19/2011 23:13
Sulfate	**137**		**2.00**	**5.00**	**mg/L**	10	8/20/2011 14:15
Surr: Selenate (surr)	*108*			*85-115*	*%REC*	1	8/19/2011 23:13
Surr: Selenate (surr)	*105*			*85-115*	*%REC*	10	8/20/2011 14:15
ALKALINITY		Method: **SM2320B**					Analyst: **DM**
Alkalinity, Bicarbonate (As CaCO3)	**211**		**5.0**	**5.00**	**mg/L**	1	8/24/2011 15:23
Alkalinity, Carbonate (As CaCO3)	U		5.0	5.00	mg/L	1	8/24/2011 15:23
Alkalinity, Hydroxide (As CaCO3)	U		5.0	5.00	mg/L	1	8/24/2011 15:23
Alkalinity, Total (As CaCO3)	**211**		**5.0**	**5.00**	**mg/L**	1	8/24/2011 15:23
TOTAL DISSOLVED SOLIDS		Method: **M2540C**					Analyst: **KAH**
Total Dissolved Solids (Residue, Filterable)	**2,360**		**5.0**	**10.0**	**mg/L**	1	8/25/2011 13:00

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *29-Aug-11*

Client: Conestoga-Rovers & Associates
Project: G.L. Erwin
Sample ID: MW17081811
Collection Date: 8/18/2011 02:17 PM

Work Order: 1108633
Lab ID: 1108633-16
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DISSOLVED METALS		Method: **SW6020**			Prep: SW3010A / 8/24/11		Analyst: **IGF**
Calcium	**110**		**0.25**	**2.50**	**mg/L**	5	8/25/2011 01:08
Magnesium	**35.9**		**0.20**	**1.00**	**mg/L**	5	8/25/2011 01:08
Potassium	**4.11**		**0.50**	**1.00**	**mg/L**	5	8/25/2011 01:08
Sodium	**173**		**0.50**	**1.00**	**mg/L**	5	8/25/2011 01:08
ANIONS - EPA 300.0 (1993)		Method: **E300**					Analyst: **JBA**
Chloride	**421**		**2.00**	**5.00**	**mg/L**	10	8/20/2011 13:12
Fluoride	**1.87**		**0.0500**	**0.100**	**mg/L**	1	8/19/2011 19:42
Nitrogen, Nitrate (As N)	**3.45**		**0.0300**	**0.100**	**mg/L**	1	8/19/2011 19:42
Sulfate	**111**		**2.00**	**5.00**	**mg/L**	10	8/20/2011 13:12
Surr: Selenate (surr)	*106*			*85-115*	*%REC*	1	8/19/2011 19:42
Surr: Selenate (surr)	*111*			*85-115*	*%REC*	10	8/20/2011 13:12
ALKALINITY		Method: **SM2320B**					Analyst: **DM**
Alkalinity, Bicarbonate (As CaCO3)	**196**		**5.0**	**5.00**	**mg/L**	1	8/24/2011 15:23
Alkalinity, Carbonate (As CaCO3)	U		5.0	5.00	mg/L	1	8/24/2011 15:23
Alkalinity, Hydroxide (As CaCO3)	U		5.0	5.00	mg/L	1	8/24/2011 15:23
Alkalinity, Total (As CaCO3)	**196**		**5.0**	**5.00**	**mg/L**	1	8/24/2011 15:23
TOTAL DISSOLVED SOLIDS		Method: **M2540C**					Analyst: **KAH**
Total Dissolved Solids (Residue, Filterable)	**1,220**		**5.0**	**10.0**	**mg/L**	1	8/25/2011 13:00

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *29-Aug-11*

Client: Conestoga-Rovers & Associates
Project: G.L. Erwin
Sample ID: MW19081811
Collection Date: 8/18/2011 02:05 PM

Work Order: 1108633
Lab ID: 1108633-17
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DISSOLVED METALS		Method: **SW6020**		Prep: SW3010A / 8/24/11			Analyst: **IGF**
Calcium	**1,020**		**5.0**	**50.0**	**mg/L**	100	8/25/2011 13:39
Magnesium	**345**		**0.20**	**1.00**	**mg/L**	5	8/25/2011 01:27
Potassium	**24.0**		**0.50**	**1.00**	**mg/L**	5	8/25/2011 01:27
Sodium	**676**		**0.50**	**1.00**	**mg/L**	5	8/25/2011 01:27
ANIONS - EPA 300.0 (1993)		Method: **E300**					Analyst: **JBA**
Chloride	**4,550**		**20.0**	**50.0**	**mg/L**	100	8/20/2011 16:01
Fluoride	**0.752**		**0.0500**	**0.100**	**mg/L**	1	8/19/2011 20:03
Nitrogen, Nitrate (As N)	**3.95**		**0.0300**	**0.100**	**mg/L**	1	8/19/2011 20:03
Sulfate	**383**		**20.0**	**50.0**	**mg/L**	100	8/20/2011 16:01
Surr: Selenate (surr)	*105*			*85-115*	*%REC*	1	8/19/2011 20:03
Surr: Selenate (surr)	*101*			*85-115*	*%REC*	100	8/20/2011 16:01
ALKALINITY		Method: **SM2320B**					Analyst: **DM**
Alkalinity, Bicarbonate (As CaCO3)	**97.6**		**5.0**	**5.00**	**mg/L**	1	8/24/2011 15:23
Alkalinity, Carbonate (As CaCO3)	U		5.0	5.00	mg/L	1	8/24/2011 15:23
Alkalinity, Hydroxide (As CaCO3)	U		5.0	5.00	mg/L	1	8/24/2011 15:23
Alkalinity, Total (As CaCO3)	**97.6**		**5.0**	**5.00**	**mg/L**	1	8/24/2011 15:23
TOTAL DISSOLVED SOLIDS		Method: **M2540C**					Analyst: **KAH**
Total Dissolved Solids (Residue, Filterable)	**11,100**		**5.0**	**10.0**	**mg/L**	1	8/25/2011 13:00

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *29-Aug-11*

Client: Conestoga-Rovers & Associates
Project: G.L. Erwin
Sample ID: MW20081811
Collection Date: 8/18/2011 01:47 PM

Work Order: 1108633
Lab ID: 1108633-18
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DISSOLVED METALS		Method: **SW6020**			Prep: SW3010A / 8/24/11		Analyst: **IGF**
Calcium	**393**		**0.25**	**2.50**	**mg/L**	5	8/25/2011 01:33
Magnesium	**128**		**0.20**	**1.00**	**mg/L**	5	8/25/2011 01:33
Potassium	**11.1**		**0.50**	**1.00**	**mg/L**	5	8/25/2011 01:33
Sodium	**253**		**0.50**	**1.00**	**mg/L**	5	8/25/2011 01:33
ANIONS - EPA 300.0 (1993)		Method: **E300**					Analyst: **JBA**
Chloride	**1,610**		**4.00**	**10.0**	**mg/L**	20	8/20/2011 16:06
Fluoride	**1.16**		**0.0500**	**0.100**	**mg/L**	1	8/19/2011 23:28
Nitrogen, Nitrate (As N)	**3.99**		**0.0300**	**0.100**	**mg/L**	1	8/19/2011 23:28
Sulfate	**135**		**10.0**	**10.0**	**mg/L**	20	8/20/2011 16:06
Surr: Selenate (surr)	*98.2*			*85-115*	*%REC*	1	8/19/2011 23:28
Surr: Selenate (surr)	*111*			*85-115*	*%REC*	20	8/20/2011 16:06
ALKALINITY		Method: **SM2320B**					Analyst: **DM**
Alkalinity, Bicarbonate (As CaCO3)	**106**		**5.0**	**5.00**	**mg/L**	1	8/24/2011 15:23
Alkalinity, Carbonate (As CaCO3)	U		5.0	5.00	mg/L	1	8/24/2011 15:23
Alkalinity, Hydroxide (As CaCO3)	U		5.0	5.00	mg/L	1	8/24/2011 15:23
Alkalinity, Total (As CaCO3)	**106**		**5.0**	**5.00**	**mg/L**	1	8/24/2011 15:23
TOTAL DISSOLVED SOLIDS		Method: **M2540C**					Analyst: **KAH**
Total Dissolved Solids (Residue, Filterable)	**4,550**		**5.0**	**10.0**	**mg/L**	1	8/25/2011 13:00

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *29-Aug-11*

Client: Conestoga-Rovers & Associates
Project: G.L. Erwin
Sample ID: MW21081811
Collection Date: 8/18/2011 01:55 PM

Work Order: 1108633
Lab ID: 1108633-19
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DISSOLVED METALS		Method: **SW6020**		Prep: SW3010A / 8/24/11			Analyst: **IGF**
Calcium	**89.5**		**0.25**	**2.50**	**mg/L**	5	8/25/2011 01:40
Magnesium	**27.5**		**0.20**	**1.00**	**mg/L**	5	8/25/2011 01:40
Potassium	**5.90**		**0.50**	**1.00**	**mg/L**	5	8/25/2011 01:40
Sodium	**79.1**		**0.50**	**1.00**	**mg/L**	5	8/25/2011 01:40
ANIONS - EPA 300.0 (1993)		Method: **E300**					Analyst: **JBA**
Chloride	**213**		**2.00**	**5.00**	**mg/L**	10	8/20/2011 15:23
Fluoride	**2.15**		**0.0500**	**0.100**	**mg/L**	1	8/19/2011 23:50
Nitrogen, Nitrate (As N)	**4.93**		**0.0300**	**0.100**	**mg/L**	1	8/19/2011 23:50
Sulfate	**141**		**5.00**	**5.00**	**mg/L**	10	8/20/2011 15:23
Surr: Selenate (surr)	*102*			*85-115*	*%REC*	1	8/19/2011 23:50
Surr: Selenate (surr)	*111*			*85-115*	*%REC*	10	8/20/2011 15:23
ALKALINITY		Method: **SM2320B**					Analyst: **DM**
Alkalinity, Bicarbonate (As CaCO3)	**176**		**5.0**	**5.00**	**mg/L**	1	8/24/2011 15:23
Alkalinity, Carbonate (As CaCO3)	U		5.0	5.00	mg/L	1	8/24/2011 15:23
Alkalinity, Hydroxide (As CaCO3)	U		5.0	5.00	mg/L	1	8/24/2011 15:23
Alkalinity, Total (As CaCO3)	**176**		**5.0**	**5.00**	**mg/L**	1	8/24/2011 15:23
TOTAL DISSOLVED SOLIDS		Method: **M2540C**					Analyst: **KAH**
Total Dissolved Solids (Residue, Filterable)	**876**		**5.0**	**10.0**	**mg/L**	1	8/25/2011 13:00

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *29-Aug-11*

Client: Conestoga-Rovers & Associates
Project: G.L. Erwin
Sample ID: MW22081811
Collection Date: 8/18/2011 02:20 PM

Work Order: 1108633
Lab ID: 1108633-20
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DISSOLVED METALS		Method: **SW6020**			Prep: SW3010A / 8/24/11		Analyst: **IGF**
Calcium	**745**		**0.25**	**2.50**	**mg/L**	5	8/25/2011 01:46
Magnesium	**232**		**0.20**	**1.00**	**mg/L**	5	8/25/2011 01:46
Potassium	**13.7**		**0.50**	**1.00**	**mg/L**	5	8/25/2011 01:46
Sodium	**974**		**8.5**	**20.0**	**mg/L**	100	8/25/2011 13:45
ANIONS - EPA 300.0 (1993)		Method: **E300**					Analyst: **JBA**
Chloride	**4,020**		**10.0**	**25.0**	**mg/L**	50	8/20/2011 15:40
Fluoride	**0.594**		**0.0500**	**0.100**	**mg/L**	1	8/19/2011 20:24
Nitrogen, Nitrate (As N)	**2.94**		**0.0300**	**0.100**	**mg/L**	1	8/19/2011 20:24
Sulfate	**206**		**10.0**	**25.0**	**mg/L**	50	8/20/2011 15:40
Surr: Selenate (surr)	*107*			*85-115*	*%REC*	1	8/19/2011 20:24
Surr: Selenate (surr)	*101*			*85-115*	*%REC*	50	8/20/2011 15:40
ALKALINITY		Method: **SM2320B**					Analyst: **DM**
Alkalinity, Bicarbonate (As CaCO3)	**142**		**5.0**	**5.00**	**mg/L**	1	8/24/2011 15:23
Alkalinity, Carbonate (As CaCO3)	U		5.0	5.00	mg/L	1	8/24/2011 15:23
Alkalinity, Hydroxide (As CaCO3)	U		5.0	5.00	mg/L	1	8/24/2011 15:23
Alkalinity, Total (As CaCO3)	**142**		**5.0**	**5.00**	**mg/L**	1	8/24/2011 15:23
TOTAL DISSOLVED SOLIDS		Method: **M2540C**					Analyst: **KAH**
Total Dissolved Solids (Residue, Filterable)	**8,900**		**5.0**	**10.0**	**mg/L**	1	8/25/2011 13:00

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *29-Aug-11*

Client: Conestoga-Rovers & Associates
Project: G.L. Erwin
Sample ID: WMW081811
Collection Date: 8/18/2011 10:55 AM

Work Order: 1108633
Lab ID: 1108633-21
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DISSOLVED METALS		Method: **SW6020**			Prep: SW3010A / 8/23/11		Analyst: **ALR**
Calcium	**68.5**		**0.050**	**0.500**	**mg/L**	1	8/24/2011 05:26
Magnesium	**18.1**		**0.039**	**0.200**	**mg/L**	1	8/24/2011 05:26
Potassium	**15.1**		**0.10**	**0.200**	**mg/L**	1	8/24/2011 05:26
Sodium	**232**		**2.0**	**4.00**	**mg/L**	20	8/24/2011 20:50
ANIONS - EPA 300.0 (1993)		Method: **E300**					Analyst: **JBA**
Chloride	**322**		**2.00**	**5.00**	**mg/L**	10	8/20/2011 13:13
Fluoride	**1.36**		**0.0500**	**0.100**	**mg/L**	1	8/19/2011 17:19
Nitrogen, Nitrate (As N)	**3.66**		**0.0300**	**0.100**	**mg/L**	1	8/19/2011 17:19
Sulfate	**205**		**2.00**	**5.00**	**mg/L**	10	8/20/2011 13:13
Surr: Selenate (surr)	*101*			*85-115*	*%REC*	1	8/19/2011 17:19
Surr: Selenate (surr)	*111*			*85-115*	*%REC*	10	8/20/2011 13:13
ALKALINITY		Method: **SM2320B**					Analyst: **DM**
Alkalinity, Bicarbonate (As CaCO3)	**247**		**5.0**	**5.00**	**mg/L**	1	8/25/2011 09:05
Alkalinity, Carbonate (As CaCO3)	U		5.0	5.00	mg/L	1	8/25/2011 09:05
Alkalinity, Hydroxide (As CaCO3)	U		5.0	5.00	mg/L	1	8/25/2011 09:05
Alkalinity, Total (As CaCO3)	**247**		**5.0**	**5.00**	**mg/L**	1	8/25/2011 09:05
TOTAL DISSOLVED SOLIDS		Method: **M2540C**					Analyst: **KAH**
Total Dissolved Solids (Residue, Filterable)	**1,220**		**5.0**	**10.0**	**mg/L**	1	8/25/2011 08:00

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *29-Aug-11*

Client: Conestoga-Rovers & Associates
Project: G.L. Erwin
Sample ID: SWMW081811
Collection Date: 8/18/2011 10:45 AM

Work Order: 1108633
Lab ID: 1108633-22
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DISSOLVED METALS		Method: **SW6020**			Prep: SW3010A / 8/23/11		Analyst: **ALR**
Calcium	**401**		**1.0**	**10.0**	**mg/L**	20	8/24/2011 20:56
Magnesium	**98.9**		**0.039**	**0.200**	**mg/L**	1	8/24/2011 05:32
Potassium	**48.6**		**0.10**	**0.200**	**mg/L**	1	8/24/2011 05:32
Sodium	**1,310**		**2.0**	**4.00**	**mg/L**	20	8/24/2011 20:56
ANIONS - EPA 300.0 (1993)		Method: **E300**					Analyst: **JBA**
Chloride	**3,370**		**20.0**	**50.0**	**mg/L**	100	8/20/2011 12:51
Fluoride	**1.04**		**0.0500**	**0.100**	**mg/L**	1	8/19/2011 16:58
Nitrogen, Nitrate (As N)	**5.10**		**0.0300**	**0.100**	**mg/L**	1	8/19/2011 16:58
Sulfate	**643**		**20.0**	**50.0**	**mg/L**	100	8/20/2011 12:51
Surr: Selenate (surr)	*111*			*85-115*	*%REC*	1	8/19/2011 16:58
Surr: Selenate (surr)	*109*			*85-115*	*%REC*	100	8/20/2011 12:51
ALKALINITY		Method: **SM2320B**					Analyst: **DM**
Alkalinity, Bicarbonate (As CaCO3)	**319**		**5.0**	**5.00**	**mg/L**	1	8/25/2011 09:05
Alkalinity, Carbonate (As CaCO3)	U		5.0	5.00	mg/L	1	8/25/2011 09:05
Alkalinity, Hydroxide (As CaCO3)	U		5.0	5.00	mg/L	1	8/25/2011 09:05
Alkalinity, Total (As CaCO3)	**319**		**5.0**	**5.00**	**mg/L**	1	8/25/2011 09:05
TOTAL DISSOLVED SOLIDS		Method: **M2540C**					Analyst: **KAH**
Total Dissolved Solids (Residue, Filterable)	**5,170**		**5.0**	**10.0**	**mg/L**	1	8/25/2011 08:00

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *29-Aug-11*

Client: Conestoga-Rovers & Associates
Project: G.L. Erwin
Sample ID: Dup1081811
Collection Date: 8/18/2011

Work Order: 1108633
Lab ID: 1108633-23
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DISSOLVED METALS		Method: **SW6020**			Prep: SW3010A / 8/23/11		Analyst: **ALR**
Calcium	**29.4**		**0.050**	**0.500**	**mg/L**	1	8/24/2011 05:38
Magnesium	**8.22**		**0.039**	**0.200**	**mg/L**	1	8/24/2011 05:38
Potassium	**3.32**		**0.10**	**0.200**	**mg/L**	1	8/24/2011 05:38
Sodium	**255**		**2.0**	**4.00**	**mg/L**	20	8/24/2011 21:02
ANIONS - EPA 300.0 (1993)		Method: **E300**					Analyst: **JBA**
Chloride	**265**		**2.00**	**5.00**	**mg/L**	10	8/20/2011 14:36
Fluoride	**2.58**		**0.0500**	**0.100**	**mg/L**	1	8/19/2011 20:45
Nitrogen, Nitrate (As N)	**4.27**		**0.0300**	**0.100**	**mg/L**	1	8/19/2011 20:45
Sulfate	**105**		**2.00**	**5.00**	**mg/L**	10	8/20/2011 14:36
Surr: Selenate (surr)	*105*			*85-115*	*%REC*	1	8/19/2011 20:45
Surr: Selenate (surr)	*103*			*85-115*	*%REC*	10	8/20/2011 14:36
ALKALINITY		Method: **SM2320B**					Analyst: **DM**
Alkalinity, Bicarbonate (As CaCO3)	**262**		**5.0**	**5.00**	**mg/L**	1	8/25/2011 09:05
Alkalinity, Carbonate (As CaCO3)	U		5.0	5.00	mg/L	1	8/25/2011 09:05
Alkalinity, Hydroxide (As CaCO3)	U		5.0	5.00	mg/L	1	8/25/2011 09:05
Alkalinity, Total (As CaCO3)	**262**		**5.0**	**5.00**	**mg/L**	1	8/25/2011 09:05
TOTAL DISSOLVED SOLIDS		Method: **M2540C**					Analyst: **KAH**
Total Dissolved Solids (Residue, Filterable)	**1,010**		**5.0**	**10.0**	**mg/L**	1	8/25/2011 08:00

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *29-Aug-11*

Client: Conestoga-Rovers & Associates
Project: G.L. Erwin
Sample ID: Dup2081811
Collection Date: 8/18/2011

Work Order: 1108633
Lab ID: 1108633-24
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DISSOLVED METALS		Method: **SW6020**			Prep: SW3010A / 8/23/11		Analyst: **ALR**
Calcium	**21.0**		**0.050**	**0.500**	**mg/L**	1	8/24/2011 05:44
Magnesium	**5.36**		**0.039**	**0.200**	**mg/L**	1	8/24/2011 05:44
Potassium	**4.08**		**0.10**	**0.200**	**mg/L**	1	8/24/2011 05:44
Sodium	**276**		**2.0**	**4.00**	**mg/L**	20	8/24/2011 21:08
ANIONS - EPA 300.0 (1993)		Method: **E300**					Analyst: **JBA**
Chloride	**255**		**2.00**	**5.00**	**mg/L**	10	8/20/2011 14:57
Fluoride	**1.38**		**0.0500**	**0.100**	**mg/L**	1	8/19/2011 21:48
Nitrogen, Nitrate (As N)	**5.76**		**0.0300**	**0.100**	**mg/L**	1	8/19/2011 21:48
Sulfate	**135**		**2.00**	**5.00**	**mg/L**	10	8/20/2011 14:57
Surr: Selenate (surr)	*114*			*85-115*	*%REC*	1	8/19/2011 21:48
Surr: Selenate (surr)	*104*			*85-115*	*%REC*	10	8/20/2011 14:57
ALKALINITY		Method: **SM2320B**					Analyst: **DM**
Alkalinity, Bicarbonate (As CaCO3)	**272**		**5.0**	**5.00**	**mg/L**	1	8/25/2011 09:05
Alkalinity, Carbonate (As CaCO3)	U		5.0	5.00	mg/L	1	8/25/2011 09:05
Alkalinity, Hydroxide (As CaCO3)	U		5.0	5.00	mg/L	1	8/25/2011 09:05
Alkalinity, Total (As CaCO3)	**272**		**5.0**	**5.00**	**mg/L**	1	8/25/2011 09:05
TOTAL DISSOLVED SOLIDS		Method: **M2540C**					Analyst: **KAH**
Total Dissolved Solids (Residue, Filterable)	**1,090**		**5.0**	**10.0**	**mg/L**	1	8/25/2011 08:00

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 29-Aug-11

Client: Conestoga-Rovers & Associates
Work Order: 1108633
Project: G.L. Erwin

QC BATCH REPORT

Batch ID: **54897** Instrument ID **ICPMS03** Method: **SW6020** **(Dissolve)**

MBLK Sample ID: **MBLKW3-082311-54897** Units: **mg/L** Analysis Date: **8/25/2011 01:29 PM**
Client ID: Run ID: **ICPMS03_110825A** SeqNo: **2506095** Prep Date: **8/23/2011** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	U	0.50								
Magnesium	U	0.20								
Potassium	U	0.20								
Sodium	U	0.20								

LCS Sample ID: **MLCSW3-082311-54897** Units: **mg/L** Analysis Date: **8/24/2011 07:14 PM**
Client ID: Run ID: **ICPMS03_110824A** SeqNo: **2505416** Prep Date: **8/23/2011** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	4.903	0.50	5	0	98.1	80-120	0			
Magnesium	4.903	0.20	5	0	98.1	80-120	0			
Potassium	4.858	0.20	5	0	97.2	80-120	0			
Sodium	4.854	0.20	5	0	97.1	80-120	0			

MS Sample ID: **1108638-02AMS** Units: **mg/L** Analysis Date: **8/25/2011 12:24 AM**
Client ID: Run ID: **ICPMS03_110824A** SeqNo: **2505675** Prep Date: **8/23/2011** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	114.5	0.50	5	121.5	-140	75-125	0			SO
Potassium	4.936	0.20	5	0.788	83	75-125	0			
Sodium	197.1	0.20	5	207.5	-208	75-125	0			SEO

MS Sample ID: **1108638-02AMS** Units: **mg/L** Analysis Date: **8/25/2011 02:12 PM**
Client ID: Run ID: **ICPMS03_110825A** SeqNo: **2506137** Prep Date: **8/23/2011** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Magnesium	35.4	0.20	5	33.62	35.6	75-125	0			SO

MSD Sample ID: **1108638-02AMSD** Units: **mg/L** Analysis Date: **8/25/2011 12:30 AM**
Client ID: Run ID: **ICPMS03_110824A** SeqNo: **2505676** Prep Date: **8/23/2011** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	114.3	0.50	5	121.5	-144	75-125	114.5	0.175	25	SO
Potassium	5.216	0.20	5	0.788	88.6	75-125	4.936	5.52	25	
Sodium	198.2	0.20	5	207.5	-186	75-125	197.1	0.557	25	SEO

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1108633
Project: G.L. Erwin

QC BATCH REPORT

Batch ID: **54897** Instrument ID **ICPMS03** Method: **SW6020** **(Dissolve)**

MSD Sample ID: **1108638-02AMSD** Units: **mg/L** Analysis Date: **8/25/2011 02:18 PM**
Client ID: Run ID: **ICPMS03_110825A** SeqNo: **2506138** Prep Date: **8/23/2011** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Magnesium	35.94	0.20	5	33.62	46.4	75-125	0	0	25	SO

DUP Sample ID: **1108638-02ADUP** Units: **mg/L** Analysis Date: **8/25/2011 12:12 AM**
Client ID: Run ID: **ICPMS03_110824A** SeqNo: **2505673** Prep Date: **8/23/2011** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	117.9	0.50	0	0	0	0-0	121.5	3.01	25	
Potassium	0.7977	0.20	0	0	0	0-0	0.788	1.22	25	

DUP Sample ID: **1108638-02ADUP** Units: **mg/L** Analysis Date: **8/25/2011 01:35 PM**
Client ID: Run ID: **ICPMS03_110825A** SeqNo: **2506097** Prep Date: **8/23/2011** DF: **20**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sodium	222.6	4.0	0	0	0	0-0	230.4	0	25	

DUP Sample ID: **1108638-02ADUP** Units: **mg/L** Analysis Date: **8/25/2011 02:00 PM**
Client ID: Run ID: **ICPMS03_110825A** SeqNo: **2506135** Prep Date: **8/23/2011** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Magnesium	32.61	0.20	0	0	0	0-0	0	0	25	

The following samples were analyzed in this batch: 1108633-21A 1108633-22A 1108633-23A 1108633-24A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1108633
Project: G.L. Erwin

QC BATCH REPORT

Batch ID: **54923** Instrument ID **ICPMS04** Method: **SW6020** **(Dissolve)**

MBLK Sample ID: **MBLKW3-082411-54923** Units: **mg/L** Analysis Date: **8/24/2011 09:22 PM**
Client ID: Run ID: **ICPMS04_110824A** SeqNo: **2505680** Prep Date: **8/24/2011** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	U	0.50								
Magnesium	U	0.20								
Potassium	U	0.20								
Sodium	U	0.20								

LCS Sample ID: **MLCSW3-082411-54923** Units: **mg/L** Analysis Date: **8/24/2011 09:28 PM**
Client ID: Run ID: **ICPMS04_110824A** SeqNo: **2505682** Prep Date: **8/24/2011** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	4.747	0.50	5	0	94.9	80-120	0			
Magnesium	4.765	0.20	5	0	95.3	80-120	0			
Potassium	4.694	0.20	5	0	93.9	80-120	0			
Sodium	4.727	0.20	5	0	94.5	80-120	0			

MS Sample ID: **1108633-02AMS** Units: **mg/L** Analysis Date: **8/24/2011 10:56 PM**
Client ID: **MW2081811** Run ID: **ICPMS04_110824A** SeqNo: **2505703** Prep Date: **8/24/2011** DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	27.93	2.5	5	24.63	66.1	75-125	0			SO
Magnesium	11.37	1.0	5	6.976	87.8	75-125	0			
Potassium	8.12	1.0	5	3.485	92.7	75-125	0			
Sodium	262.9	1.0	5	262.6	5.19	75-125	0			SO

MSD Sample ID: **1108633-02AMSD** Units: **mg/L** Analysis Date: **8/24/2011 11:02 PM**
Client ID: **MW2081811** Run ID: **ICPMS04_110824A** SeqNo: **2505704** Prep Date: **8/24/2011** DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	29.34	2.5	5	24.63	94.3	75-125	27.93	4.92	25	O
Magnesium	11.67	1.0	5	6.976	93.9	75-125	11.37	2.65	25	
Potassium	8.38	1.0	5	3.485	97.9	75-125	8.12	3.15	25	
Sodium	268	1.0	5	262.6	106	75-125	262.9	1.9	25	O

DUP Sample ID: **1108633-02ADUP** Units: **mg/L** Analysis Date: **8/24/2011 10:50 PM**
Client ID: **MW2081811** Run ID: **ICPMS04_110824A** SeqNo: **2505701** Prep Date: **8/24/2011** DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	25.12	2.5	0	0	0	0-0	24.63	1.95	25	
Magnesium	7.155	1.0	0	0	0	0-0	6.976	2.53	25	
Potassium	3.618	1.0	0	0	0	0-0	3.485	3.77	25	
Sodium	267	1.0	0	0	0	0-0	262.6	1.64	25	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1108633
Project: G.L. Erwin

QC BATCH REPORT

Batch ID: **54923** Instrument ID **ICPMS04** Method: **SW6020** **(Dissolve)**

The following samples were analyzed in this batch:

1108633-01A	1108633-02A	1108633-03A
1108633-04A	1108633-05A	1108633-06A
1108633-07A	1108633-08A	1108633-09A
1108633-10A	1108633-11A	1108633-12A
1108633-13A	1108633-14A	1108633-15A
1108633-16A	1108633-17A	1108633-18A
1108633-19A	1108633-20A	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1108633
Project: G.L. Erwin

QC BATCH REPORT

Batch ID: **R114960** Instrument ID **ICS3K2** Method: **E300**

MBLK Sample ID: **WBLKW2-081911-R114960** Units: **mg/L** Analysis Date: **8/19/2011 02:26 PM**
Client ID: Run ID: **ICS3K2_110819A** SeqNo: **2501420** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	U	0.50								
Fluoride	U	0.10								
Nitrogen, Nitrate (As N)	U	0.10								
Sulfate	U	0.50								
Surr: Selenate (surr)	*5.107*	0.10	*5*	0	*102*	*85-115*	0			

LCS Sample ID: **WLCSW2-081911-R114960** Units: **mg/L** Analysis Date: **8/19/2011 02:47 PM**
Client ID: Run ID: **ICS3K2_110819A** SeqNo: **2501421** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	20.2	0.50	20	0	101	90-110	0			
Fluoride	4.24	0.10	4	0	106	90-110	0			
Nitrogen, Nitrate (As N)	4.21	0.10	4	0	105	90-110	0			
Sulfate	19.89	0.50	20	0	99.5	90-110	0			
Surr: Selenate (surr)	*5.594*	0.10	*5*	0	*112*	*85-115*	0			

LCSD Sample ID: **WLCSDW2-081911-R114960** Units: **mg/L** Analysis Date: **8/19/2011 03:09 PM**
Client ID: Run ID: **ICS3K2_110819A** SeqNo: **2501422** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	19.88	0.50	20	0	99.4	90-110	20.2	1.61	20	
Fluoride	4.167	0.10	4	0	104	90-110	4.24	1.74	20	
Nitrogen, Nitrate (As N)	4.133	0.10	4	0	103	90-110	4.21	1.85	20	
Sulfate	19.64	0.50	20	0	98.2	90-110	19.89	1.28	20	
Surr: Selenate (surr)	*5.536*	0.10	*5*	0	*111*	*85-115*	5.594	*1.04*	*20*	

MS Sample ID: **1108627-01AMS** Units: **mg/L** Analysis Date: **8/19/2011 03:52 PM**
Client ID: Run ID: **ICS3K2_110819A** SeqNo: **2501424** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	14.54	0.50	10	4.471	101	80-120	0			
Fluoride	2.096	0.10	2	0.114	99.1	80-120	0			
Nitrogen, Nitrate (As N)	2.081	0.10	2	0	104	80-120	0			
Sulfate	22.3	0.50	10	11.93	104	80-120	0			
Surr: Selenate (surr)	*4.973*	0.10	*5*	0	*99.5*	*85-115*	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1108633
Project: G.L. Erwin

QC BATCH REPORT

Batch ID: **R114960** Instrument ID **ICS3K2** Method: **E300**

MS Sample ID: **1108633-01BMS** Units: **mg/L** Analysis Date: **8/19/2011 08:56 PM**
Client ID: **MW1081811** Run ID: **ICS3K2_110819A** SeqNo: **2501438** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	131.9	0.50	10	124.5	74.5	80-120	0			SEO
Fluoride	3.779	0.10	2	1.759	101	80-120	0			
Nitrogen, Nitrate (As N)	5.35	0.10	2	3.339	101	80-120	0			
Sulfate	91.68	0.50	10	83.3	83.9	80-120	0			O
Surr: Selenate (surr)	*4.862*	0.10	*5*	0	*97.2*	*85-115*	0			

MSD Sample ID: **1108627-01AMSD** Units: **mg/L** Analysis Date: **8/19/2011 04:14 PM**
Client ID: Run ID: **ICS3K2_110819A** SeqNo: **2501425** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	14.5	0.50	10	4.471	100	80-120	14.54	0.275	20	
Fluoride	2.089	0.10	2	0.114	98.8	80-120	2.096	0.335	20	
Nitrogen, Nitrate (As N)	2.081	0.10	2	0	104	80-120	2.081	0	20	
Sulfate	22.18	0.50	10	11.93	102	80-120	22.3	0.585	20	
Surr: Selenate (surr)	*4.938*	0.10	*5*	0	*98.8*	*85-115*	4.973	*0.706*	*20*	

MSD Sample ID: **1108633-01BMSD** Units: **mg/L** Analysis Date: **8/19/2011 09:18 PM**
Client ID: **MW1081811** Run ID: **ICS3K2_110819A** SeqNo: **2501439** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	131.8	0.50	10	124.5	73.5	80-120	131.9	0.0796	20	SEO
Fluoride	4.07	0.10	2	1.759	116	80-120	3.779	7.41	20	
Nitrogen, Nitrate (As N)	5.347	0.10	2	3.339	100	80-120	5.35	0.0561	20	
Sulfate	91.42	0.50	10	83.3	81.2	80-120	91.68	0.286	20	O
Surr: Selenate (surr)	*5.087*	0.10	*5*	0	*102*	*85-115*	4.862	*4.52*	*20*	

The following samples were analyzed in this batch:

1108633-01B	1108633-02B	1108633-04B
1108633-05B	1108633-07B	1108633-09B
1108633-10B	1108633-11B	1108633-12B
1108633-14B	1108633-18B	1108633-19B
1108633-21B	1108633-22B	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1108633
Project: G.L. Erwin

QC BATCH REPORT

Batch ID: **R114962** Instrument ID **ICS3000** Method: **E300**

MBLK Sample ID: **WBLKW1-081911-R114962** Units: **mg/L** Analysis Date: **8/19/2011 05:35 PM**
Client ID: Run ID: **ICS3000_110819A** SeqNo: **2501511** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	U	0.50								
Fluoride	U	0.10								
Nitrogen, Nitrate (As N)	U	0.10								
Sulfate	U	0.50								
Surr: Selenate (surr)	*5.296*	0.10	*5*	0	*106*	*85-115*	0			

LCS Sample ID: **WLCSW1-081911-R114962** Units: **mg/L** Analysis Date: **8/19/2011 05:56 PM**
Client ID: Run ID: **ICS3000_110819A** SeqNo: **2501512** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	19.8	0.50	20	0	99	90-110	0			
Fluoride	4.01	0.10	4	0	100	90-110	0			
Nitrogen, Nitrate (As N)	4.107	0.10	4	0	103	90-110	0			
Sulfate	18.14	0.50	20	0	90.7	90-110	0			
Surr: Selenate (surr)	*5.332*	0.10	*5*	0	*107*	*85-115*	0			

LCSD Sample ID: **WLCSDW1-081911-R114962** Units: **mg/L** Analysis Date: **8/19/2011 06:17 PM**
Client ID: Run ID: **ICS3000_110819A** SeqNo: **2501513** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	19.72	0.50	20	0	98.6	90-110	19.8	0.415	20	
Fluoride	3.964	0.10	4	0	99.1	90-110	4.01	1.15	20	
Nitrogen, Nitrate (As N)	4.097	0.10	4	0	102	90-110	4.107	0.244	20	
Sulfate	18	0.50	20	0	90	90-110	18.14	0.742	20	
Surr: Selenate (surr)	*5.342*	0.10	*5*	0	*107*	*85-115*	5.332	*0.187*	*20*	

MS Sample ID: **1108633-13BMS** Units: **mg/L** Analysis Date: **8/19/2011 07:00 PM**
Client ID: **MW14081811** Run ID: **ICS3000_110819A** SeqNo: **2501515** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	5787	0.50	10	5889	-1030	80-120	0			SEO
Fluoride	0.786	0.10	2	0.274	25.6	80-120	0			S
Nitrogen, Nitrate (As N)	5.721	0.10	2	3.65	104	80-120	0			
Sulfate	894.8	0.50	10	904.5	-97.8	80-120	0			SEO
Surr: Selenate (surr)	*4.948*	0.10	*5*	0	*99*	*85-115*	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1108633
Project: G.L. Erwin

QC BATCH REPORT

Batch ID: **R114962** Instrument ID **ICS3000** Method: **E300**

MSD Sample ID: **1108633-13BMSD** Units: **mg/L** Analysis Date: **8/19/2011 07:21 PM**

Client ID: **MW14081811** Run ID: **ICS3000_110819A** SeqNo: **2501516** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	5769	0.50	10	5889	-1210	80-120	5787	0.31	20	SEO
Fluoride	0.813	0.10	2	0.274	27	80-120	0.786	3.38	20	S
Nitrogen, Nitrate (As N)	5.725	0.10	2	3.65	104	80-120	5.721	0.0699	20	
Sulfate	895.2	0.50	10	904.5	-93.6	80-120	894.8	0.0467	20	SEO
Surr: Selenate (surr)	*4.599*	0.10	*5*	0	*92*	*85-115*	4.948	*7.31*	*20*	

The following samples were analyzed in this batch:

1108633-03B	1108633-06B	1108633-08B
1108633-13B	1108633-15B	1108633-16B
1108633-17B	1108633-20B	1108633-23B
1108633-24B		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1108633
Project: G.L. Erwin

QC BATCH REPORT

Batch ID: **R115151** Instrument ID **WetChem** Method: **SM2320B**

MBLK Sample ID: **WBLKW1-082411-R115151** Units: **mg/L** Analysis Date: **8/24/2011 03:23 PM**
Client ID: Run ID: **WETCHEM_110824N** SeqNo: **2505508** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	U	5.0								
Alkalinity, Carbonate (As CaCO3)	U	5.0								
Alkalinity, Hydroxide (As CaCO3)	U	5.0								
Alkalinity, Total (As CaCO3)	U	5.0								

LCS Sample ID: **WLCSW1-082411-R115151** Units: **mg/L** Analysis Date: **8/24/2011 03:23 PM**
Client ID: Run ID: **WETCHEM_110824N** SeqNo: **2505509** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Total (As CaCO3)	971	5.0	1000	0	97.1	80-120	0			

DUP Sample ID: **1108633-20BDUP** Units: **mg/L** Analysis Date: **8/24/2011 03:23 PM**
Client ID: **MW22081811** Run ID: **WETCHEM_110824N** SeqNo: **2505542** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	143.7	5.0	0	0	0	0-0	141.6	1.47	20	
Alkalinity, Carbonate (As CaCO3)	U	5.0	0	0	0	0-0	0	0	20	
Alkalinity, Hydroxide (As CaCO3)	U	5.0	0	0	0	0-0	0	0	20	
Alkalinity, Total (As CaCO3)	143.7	5.0	0	0	0	0-0	141.6	1.47	20	

The following samples were analyzed in this batch:

1108633-01B	1108633-02B	1108633-03B
1108633-04B	1108633-05B	1108633-06B
1108633-07B	1108633-08B	1108633-09B
1108633-10B	1108633-11B	1108633-12B
1108633-13B	1108633-14B	1108633-15B
1108633-16B	1108633-17B	1108633-18B
1108633-19B	1108633-20B	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1108633
Project: G.L. Erwin

QC BATCH REPORT

Batch ID: **R115157** Instrument ID **WetChem** Method: **SM2320B**

MBLK Sample ID: **WBLKW1-082511-R115157** Units: **mg/L** Analysis Date: **8/25/2011 09:05 AM**
Client ID: Run ID: **WETCHEM_110825A** SeqNo: **2505790** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	U	5.0								
Alkalinity, Carbonate (As CaCO3)	U	5.0								
Alkalinity, Hydroxide (As CaCO3)	U	5.0								
Alkalinity, Total (As CaCO3)	U	5.0								

LCS Sample ID: **WLCSW1-082511-R115157** Units: **mg/L** Analysis Date: **8/25/2011 09:05 AM**
Client ID: Run ID: **WETCHEM_110825A** SeqNo: **2505791** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Total (As CaCO3)	1006	5.0	1000	0	101	80-120	0			

DUP Sample ID: **1108633-24BDUP** Units: **mg/L** Analysis Date: **8/25/2011 09:05 AM**
Client ID: **Dup2081811** Run ID: **WETCHEM_110825A** SeqNo: **2505796** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	270.6	5.0	0	0	0	0-0	272.1	0.575	20	
Alkalinity, Carbonate (As CaCO3)	U	5.0	0	0	0	0-0	0	0	20	
Alkalinity, Hydroxide (As CaCO3)	U	5.0	0	0	0	0-0	0	0	20	
Alkalinity, Total (As CaCO3)	270.6	5.0	0	0	0	0-0	272.1	0.575	20	

The following samples were analyzed in this batch: 1108633-21B 1108633-22B 1108633-23B 1108633-24B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1108633
Project: G.L. Erwin

QC BATCH REPORT

Batch ID: **R115270** Instrument ID **Balance1** Method: **M2540C**

MBLK Sample ID: **WBLK-082511-R115270** Units: **mg/L** Analysis Date: **8/25/2011 01:00 PM**
Client ID: Run ID: **BALANCE1_110825D** SeqNo: **2507707** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Fil	U	10								

LCS Sample ID: **WLCS-082511-R115270** Units: **mg/L** Analysis Date: **8/25/2011 01:00 PM**
Client ID: Run ID: **BALANCE1_110825D** SeqNo: **2507708** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Fil	1000	10	1000	0	100	85-115	0			

DUP Sample ID: **1108626-01CDUP** Units: **mg/L** Analysis Date: **8/25/2011 01:00 PM**
Client ID: Run ID: **BALANCE1_110825D** SeqNo: **2507686** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Fil	352	10	0	0	0	0-0	344	2.3	20	

DUP Sample ID: **1108633-20BDUP** Units: **mg/L** Analysis Date: **8/25/2011 01:00 PM**
Client ID: **MW22081811** Run ID: **BALANCE1_110825D** SeqNo: **2507706** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Fil	10120	10	0	0	0	0-0	8896	12.9	20	

The following samples were analyzed in this batch:

1108633-01B	1108633-02B	1108633-03B
1108633-05B	1108633-06B	1108633-07B
1108633-08B	1108633-09B	1108633-10B
1108633-11B	1108633-12B	1108633-13B
1108633-14B	1108633-15B	1108633-16B
1108633-17B	1108633-18B	1108633-19B
1108633-20B		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1108633
Project: G.L. Erwin

QC BATCH REPORT

Batch ID: **R115272** Instrument ID **Balance1** Method: **M2540C**

MBLK Sample ID: **WBLK-082511-R115272** Units: **mg/L** Analysis Date: **8/25/2011 08:00 AM**
Client ID: Run ID: **BALANCE1_110825E** SeqNo: **2507733** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Fil	U	10								

LCS Sample ID: **WLCS-082511-R115272** Units: **mg/L** Analysis Date: **8/25/2011 08:00 AM**
Client ID: Run ID: **BALANCE1_110825E** SeqNo: **2507734** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Fil	1082	10	1000	0	108	85-115	0			

DUP Sample ID: **1108638-29BDUP** Units: **mg/L** Analysis Date: **8/25/2011 08:00 AM**
Client ID: Run ID: **BALANCE1_110825E** SeqNo: **2507724** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Fil	450	10	0	0	0	0-0	456	1.32	20	

DUP Sample ID: **1108640-02EDUP** Units: **mg/L** Analysis Date: **8/25/2011 08:00 AM**
Client ID: Run ID: **BALANCE1_110825E** SeqNo: **2507727** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Fil	426	10	0	0	0	0-0	474	10.7	20	

The following samples were analyzed in this batch:

1108633-04B	1108633-21B	1108633-22B
1108633-23B	1108633-24B	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

ALS Environmental

Date: 29-Aug-11

Client: Conestoga-Rovers & Associates
Project: G.L. Erwin
WorkOrder: **1108633**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

Units Reported	Description
mg/L	Milligrams per Liter

c: Custody Form

1108633

CRA-HOU: Conestoga-Rovers & Associates

Project: G.L. Erwin

age 1 of 3

COC ID: 24864

AL Project Manager:

ation

A	
B	
C	
D	
E	
F	
G	
H	
I	
J	

Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
2	2	X	X	X	X							
2	2	X	X	X	X							
2	2	X	X	X	X							
2	2	X	X	X	X							
2	2	X	X	X	X							
2	2	X	X	X	X							
2	2	X	X	X	X							
2	2	X	X	X	X							
2	2	X	X	X	X							
2	2	X	X	X	X							

equ ed Turnaround Time: (Check Box)

Results Due Date:

Notes:

Cooler ID	Cooler Temp.

QC Package: (Check One Box Below)

ner 8-4°C 9-5035

# of Custody Form

☐ ALS Environmental
3352 128th Ave.
Holland, MI 49424-9263
Tel: +1 616 399 6070
Fax: +1 616 399 6185

age 1 of 3

COC ID: 24865

ALS Project Manager:		ALS Work Order #:	1108653
ation	Parameter/Method Request for Analysis		
	A		K
	B		
	C		
	D		
	E		
	F		
	G		
	H		
	I		
	J		

Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
2	2	x	x	x	x							
2	2	x	x	x	x							
2	2	x	x	x	x							
2	2	x	x	x	x							
2	2	x	x	x	x							
2	2	x	x	x	x							
2	2	x	x	x	x							
2	2	x	x	x	x							
2	2	x	x	x	x							
2	2	x	x	x	x							

equired Turnaround Time: (Check Box)

Results Due Date:

Notes:

Cooler ID	Cooler Temp.

QC Package: (Check One Box Below)

ner 8-4°C 9-5035

ı of Custody Form

ag 3 of 3

COC ID: 24866

ALS Environmental
3352 128th Ave.
Holland, MI 49424-9263
Tel: +1 616 399 6070
Fax: +1 616 399 6185

AI S Project Manager:		ALS Work Order #: 1108653
ıation	Parameter/Method Request for Analysis	
	A	
	B	
	C	
	D	
	E	
	F	
	G	
	H	
	I	
	J	

Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
2	2	X	X	X	X							
2	2	X	X	X	X							
2	2	X	X	X	X							
2	2	X	X	X	X							

ıeq ıred Turnaround Time: (Check Box) | Results Due Date:

Notes:

Cooler ID	Cooler Temp.

QC Package: (Check One Box Below)

the 8-4°C 9-5035

ALS Environmental

Sample Receipt Checklist

Client Name: **CRA-MID** Date/Time Received: **19-Aug-11 11:00**

Work Order: **1108633** Received by: **RDN**

Checklist completed by Raymond N Gamboa (eSignature) 19-Aug-11 (Date) Reviewed by: Chris Bryson (eSignature) 20-Aug-11 (Date)

Matrices: Water
Carrier name: ALS,HS

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	1.7c, 2.1c, 1.9c	002	
Cooler(s)/Kit(s):	4108, 7131, 4087		
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☑	No ☐	N/A ☐
pH adjusted?	Yes ☐	No ☐	N/A ☑
pH adjusted by:			

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

WO# 11088

ALS Environmental
10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887

CUSTODY SEAL

Date: 8.18.11 Time: 1730
Name: BH
Company: CRA midland

Seal Broken By:
Date:

ALS Environmental
10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887

CUSTODY SEAL

Date: 8.18.11 Time: 1730
Name: BH
Company: CRA midland

Seal Broken By:
Date:

04 MW

ALS Environmental
10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887

CUSTODY SEAL

Date: 8.18.11 Time: 1730
Name: BH
Company: CRA midland

Seal Broken By:
Date:

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

POD NUMBER (WELL NUMBER): MW-23		OSE FILE NUMBER(S):	
WELL OWNER NAME(S): Chevron Environmental Management Co.		PHONE (OPTIONAL):	
WELL OWNER MAILING ADDRESS: 1400 Smith St., HDU 140/1900-1A		CITY: Houston	STATE: TX ZIP: 77002

WELL LOCATION (FROM GPS)		DEGREES	MINUTES	SECONDS	
	LATITUDE	32	9	53.00	N
	LONGITUDE	103	7	34.10	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND
* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS: GL Erwin B NCI-2 #11

2. OPTIONAL

(2.5 ACRE)	(10 ACRE)	(40 ACRE)	(160 ACRE)	SECTION	TOWNSHIP		RANGE	
¼	¼	¼	¼	35	24	☐ NORTH ☑ SOUTH	37	☑ EAST ☐ WEST

SUBDIVISION NAME	LOT NUMBER	BLOCK NUMBER	UNIT/TRACT

HYDROGRAPHIC SURVEY	MAP NUMBER	TRACT NUMBER

3. DRILLING INFORMATION

LICENSE NUMBER	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
WD-1456	John W. White	White Drilling Company, Inc.

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
10/10/11	10/11/11	100.0		Dry

COMPLETED WELL IS: ☐ ARTESIAN ☐ DRY HOLE ☑ SHALLOW (UNCONFINED)

STATIC WATER LEVEL IN COMPLETED WELL (FT): Dry

DRILLING FLUID: ☑ AIR ☐ MUD ☐ ADDITIVES – SPECIFY:

DRILLING METHOD: ☑ ROTARY ☐ HAMMER ☐ CABLE TOOL ☐ OTHER – SPECIFY:

DEPTH (FT) FROM	DEPTH (FT) TO	BORE HOLE DIA. (IN)	CASING MATERIAL	CONNECTION TYPE (CASING)	INSIDE DIA. CASING (IN)	CASING WALL THICKNESS (IN)	SLOT SIZE (IN)
0.0	70.0	6 1/2	Sch. 40 PVC	Threads	2.0	1/4"	
70.0	100.0	6 1/2	Sch. 40 PVC	Threads	2.0	1/4"	.020

4. WATER BEARING STRATA

DEPTH (FT) FROM	DEPTH (FT) TO	THICKNESS (FT)	FORMATION DESCRIPTION OF PRINCIPAL WATER-BEARING STRATA (INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES)	YIELD (GPM)

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA	TOTAL ESTIMATED WELL YIELD (GPM)

FOR OSE INTERNAL USE — WELL RECORD & LOG (Version 6/9/08)

FILE NUMBER	POD NUMBER	TRN NUMBER
LOCATION		PAGE 1 OF 2

5. SEAL AND PUMP

TYPE OF PUMP: ☐ SUBMERSIBLE ☐ JET ☐ NO PUMP – WELL NOT EQUIPPED ☐ TURBINE ☐ CYLINDER ☐ OTHER – SPECIFY:

ANNULAR SEAL AND GRAVEL PACK	DEPTH (FT) FROM	DEPTH (FT) TO	BORE HOLE DIA. (IN)	MATERIAL TYPE AND SIZE	AMOUNT (CUBIC FT)	METHOD OF PLACEMENT
	100.0	68.0	6 1/2	8/16 Sand.	17 sacks	Hand Mix
	68.0	7.0	6 1/2	Bentonite Pellets	27 sacks	Hand Mix
	7.0	0.0	6 1/2	Cement	1.3979	Hand Mix

6. GEOLOGIC LOG OF WELL

DEPTH (FT) FROM	DEPTH (FT) TO	THICKNESS (FT)	COLOR AND TYPE OF MATERIAL ENCOUNTERED (INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES)	WATER BEARING?
0.0	23.0	23.0	Caliche.	☐ YES ☑ NO
23.0	86.0	63.0	Tan sand.	☐ YES ☑ NO
86.0	87.0	1.0	Pink sandstone.	☐ YES ☑ NO
87.0	98.0	11.0	Red clayey sand.	☐ YES ☑ NO
98.0	100.0	2.0	Red shale.	☐ YES ☑ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO

ATTACH ADDITIONAL PAGES AS NEEDED TO FULLY DESCRIBE THE GEOLOGIC LOG OF THE WELL

7. TEST & ADDITIONAL INFO

WELL TEST — METHOD: ☐ BAILER ☐ PUMP ☐ AIR LIFT ☐ OTHER – SPECIFY:

TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

ADDITIONAL STATEMENTS OR EXPLANATIONS:

8. SIGNATURE

THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING:

SIGNATURE OF DRILLER — DATE: 10/11/2011

FOR OSE INTERNAL USE — WELL RECORD & LOG (Version 6/9/08)

FILE NUMBER	POD NUMBER	TRN NUMBER
LOCATION		PAGE 2 OF 2

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

POD NUMBER (WELL NUMBER): MW-24	OSE FILE NUMBER(S):
WELL OWNER NAME(S): Chevron Environmental Management Co.	PHONE (OPTIONAL):
WELL OWNER MAILING ADDRESS: 1400 Smith St., HDU 140/1900-1A	CITY: Houston STATE: TX ZIP: 77002

WELL LOCATION (FROM GPS)	DEGREES	MINUTES	SECONDS	
LATITUDE	32	9	51.80	N
LONGITUDE	103	7	33.00	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND
* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS: GL Erwin B NCI-2 #11

2. OPTIONAL

(2.5 ACRE)	(10 ACRE)	(40 ACRE)	(160 ACRE)	SECTION	TOWNSHIP	RANGE
¼	¼	¼	¼	35	24 ☐ NORTH ☑ SOUTH	37 ☑ EAST ☐ WEST

SUBDIVISION NAME	LOT NUMBER	BLOCK NUMBER	UNIT/TRACT

HYDROGRAPHIC SURVEY	MAP NUMBER	TRACT NUMBER

3. DRILLING INFORMATION

LICENSE NUMBER	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
WD-1456	John W. White	White Drilling Company, Inc.

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
10/11/11	10/11/11	60.0		Dry

COMPLETED WELL IS: ☐ ARTESIAN ☐ DRY HOLE ☑ SHALLOW (UNCONFINED) — STATIC WATER LEVEL IN COMPLETED WELL (FT): Dry

DRILLING FLUID: ☑ AIR ☐ MUD ☐ ADDITIVES – SPECIFY:

DRILLING METHOD: ☑ ROTARY ☐ HAMMER ☐ CABLE TOOL ☐ OTHER – SPECIFY:

DEPTH (FT) FROM	DEPTH (FT) TO	BORE HOLE DIA. (IN)	CASING MATERIAL	CONNECTION TYPE (CASING)	INSIDE DIA. CASING (IN)	CASING WALL THICKNESS (IN)	SLOT SIZE (IN)
0.0	30.0	6 1/2	Sch. 40 PVC	Threads	2.0	1/4"	
30.0	60.0	6 1/2	Sch. 40 PVC	Threads	2.0	1/4"	.020

4. WATER BEARING STRATA

DEPTH (FT) FROM	DEPTH (FT) TO	THICKNESS (FT)	FORMATION DESCRIPTION OF PRINCIPAL WATER-BEARING STRATA (INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES)	YIELD (GPM)

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA	TOTAL ESTIMATED WELL YIELD (GPM)

5. SEAL AND PUMP

TYPE OF PUMP: ☐ SUBMERSIBLE ☐ JET ☐ NO PUMP – WELL NOT EQUIPPED ☐ TURBINE ☐ CYLINDER ☐ OTHER – SPECIFY:

ANNULAR SEAL AND GRAVEL PACK	DEPTH (FT) FROM	DEPTH (FT) TO	BORE HOLE DIA. (IN)	MATERIAL TYPE AND SIZE	AMOUNT (CUBIC FT)	METHOD OF PLACEMENT
	60.0	28.0	6 1/2	8/16 Sand.	15 sacks	Hand Mix
	28.0	10.0	6 1/2	Bentonite Pellets	11 sacks	Hand Mix
	10.0	0.0	6 1/2	Cement	1.997	Hand Mix

6. GEOLOGIC LOG OF WELL

DEPTH (FT) FROM	DEPTH (FT) TO	THICKNESS (FT)	COLOR AND TYPE OF MATERIAL ENCOUNTERED (INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES)	WATER BEARING?
0.0	14.0	14.0	Caliche.	☐ YES ☑ NO
14.0	42.0	28.0	Tan sand.	☐ YES ☑ NO
42.0	43.0	1.0	Pink sandstone.	☐ YES ☑ NO
43.0	58.0	15.0	Red clayey sand.	☐ YES ☑ NO
58.0	60.0	2.0	Red shale.	☐ YES ☑ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO

ATTACH ADDITIONAL PAGES AS NEEDED TO FULLY DESCRIBE THE GEOLOGIC LOG OF THE WELL

7. TEST & ADDITIONAL INFO

WELL TEST — METHOD: ☐ BAILER ☐ PUMP ☐ AIR LIFT ☐ OTHER – SPECIFY:

TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

ADDITIONAL STATEMENTS OR EXPLANATIONS:

8. SIGNATURE

THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING:

SIGNATURE OF DRILLER — DATE: 10/11/2011

FOR OSE INTERNAL USE — WELL RECORD & LOG (Version 6/9/08)

FILE NUMBER	POD NUMBER	TRN NUMBER
LOCATION		PAGE 2 OF 2

SOIL BORING LOG

Project: G.L. ERWIN TANK BATTERY A & B
LEA COUNTY, NEW MEXICO

Client: CHEVRON ENVIROMENTAL
MANAGEMENT COMPANY

No. MW-23

File No.: 039124
Date: 10/10/11 - 10/11/11
Drilling Co.: WHITE DRILLING
Supervisor: JOHN WHITE
Type Rig: AIR ROTARY
Logged by: TODD WELLS

LABORATORY TEST DATA (Results Reported in mg/kg)					FIELD DATA				BORING DATA	
Benzene	Toluene	Ethyl-benzene	Xylenes	Total TPH (C6-C35)	Photo-Ionization Detection Reading (ppm)	Sampling	Depth (feet)	Water Level	Screen Interval	Start Time: 1700 Finish Time: 900
										Caliche: 10YR, 8/2, very pale orange, indurated, dry
							5			
							10			
							15			
							20			
										Sand: 5YR, 8/4, moderate orange pink, very fine to fine grained, subrounded to rounded, quartz sand, dry
							25			
							30			
							35			
							40			

Split Spoon Sampler

Cuttings

No Recovery

Stratification is Inferred And May Not be Exact.
Soil Classification Based on Visual-Manual Procedure

Water First Noted

Level after ____ min

Analyzed Sample

SOIL BORING LOG

Project: G.L. ERWIN TANK BATTERY A & B
LEA COUNTY, NEW MEXICO

Client: CHEVRON ENVIROMENTAL
MANAGEMENT COMPANY

No. MW-23
CONT'D

File No.: 039124
Date: 10/10/11 - 10/11/11
Drilling Co.: WHITE DRILLING
Supervisor: JOHN WHITE
Type Rig: AIR ROTARY
Logged by: TODD WELLS

LABORATORY TEST DATA (Results Reported in mg/kg)					FIELD DATA				BORING DATA	
Benzene	Toluene	Ethyl-benzene	Xylenes	Total TPH (C6-C35)	Photo-Ionization Detection Reading (ppm)	Sampling	Depth (feet)	Water Level	Screen Interval	Start Time: Finish Time:
										Sand: 5YR, 8/4, moderate orange pink, very fine to fine grained, subrounded to rounded, quartz sand, dry
							45			
							50			
							55			
							60			
							65			
							70			
							75			
							80			

Split Spoon Sampler

Cuttings

No Recovery

Stratification is Inferred And May Not be Exact.
Soil Classification Based on Visual-Manual Procedure

Water First Noted

Level after ____ min

Analyzed Sample

SOIL BORING LOG

Project: G.L. ERWIN TANK BATTERY A & B
LEA COUNTY, NEW MEXICO

Client: CHEVRON ENVIROMENTAL
MANAGEMENT COMPANY

No. MW-23
CONT'D

File No.: 039124
Date: 10/10/11 - 10/11/11
Drilling Co.: WHITE DRILLING
Supervisor: JOHN WHITE
Type Rig: AIR ROTARY
Logged by: TODD WELLS

LABORATORY TEST DATA (Results Reported in mg/kg)					FIELD DATA				BORING DATA	
Benzene	Toluene	Ethyl-benzene	Xylenes	Total TPH (C6-C35)	Photo-Ionization Detection Reading (ppm)	Sampling	Depth (feet)	Water Level	Screen Interval	Start Time: Finish Time: 1600
										Sand: 5YR, 8/4, moderate orange pink, very fine to fine grained, subrounded to rounded, quartz sand, dry
							85			Sandstone: 5YR, 8/4, moderate orange pink, very hard
										Sandy Clay: 5YR, 3/4, moderate brown, moist plastic, fine-grained sand.
							90			
							95			
										Shale: Plastic, 5YR, 5/2, red light olive gray
							100			TD = 100'
							105			
							110			
							115			
							120			

Split Spoon Sampler

Cuttings

No Recovery

Stratification is Inferred And May Not be Exact.
Soil Classification Based on Visual-Manual Procedure

Water First Noted

Level after ____ min

Analyzed Sample

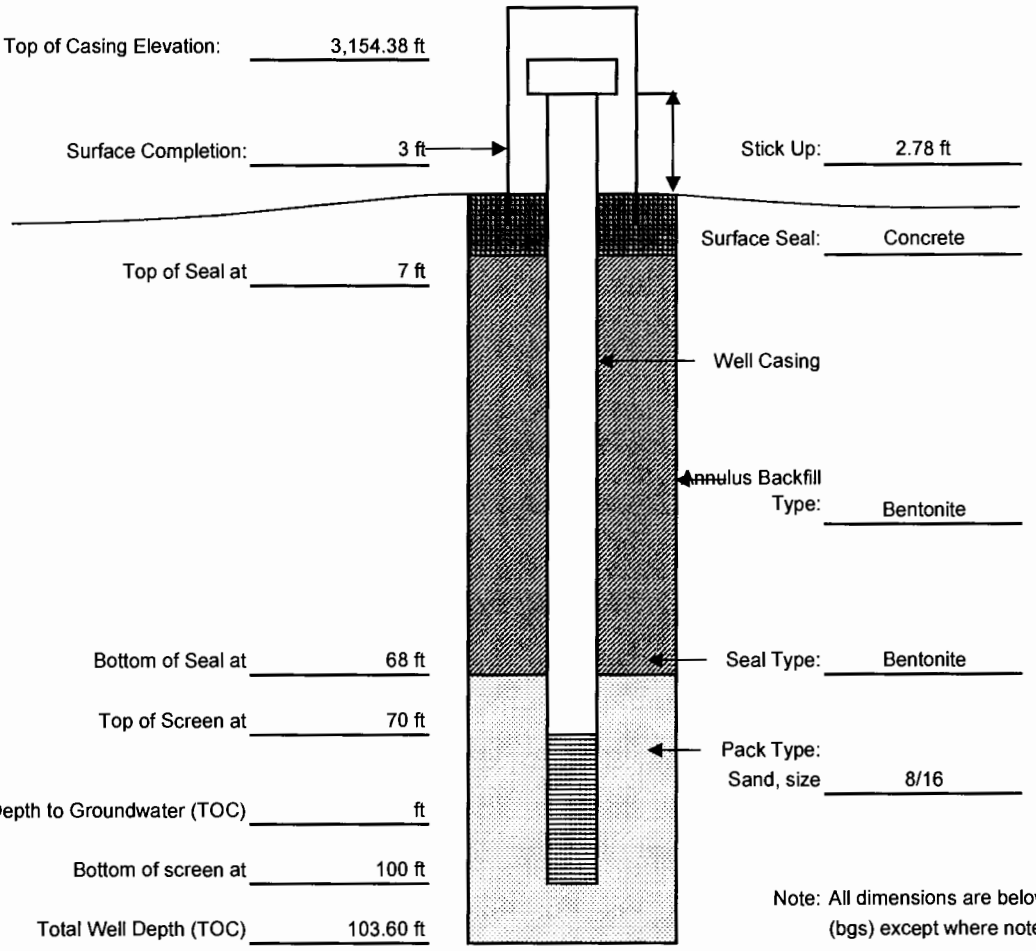
MONITORING WELL CONSTRUCTION DETAIL

Project: G.L. ERWIN TANK BATTERY A & B
LEA COUNTY, NEW MEXICO

Client: CHEVRON ENVIROMENTAL MANAGEMENT COMPANY

No. MW-23 CONT'D

File No.: 039124
Date: 10/10/11 - 10/11/11
Drilling Co.: WHITE DRILLING
JOHN WHITE
Type Rig: AIR ROTARY
Logged by: TODD WELLS



Note: All dimensions are below ground surface (bgs) except where noted.

Screen Type: ☐ slotted ☐ perforated other:

Screen Material: ☐ stainless steel ☐ PVC other:

Screen Length: 30' Screen Diameter: 2" Screen Slot Size: 0.020'

Well Casing Material: PVC Well Casing Diameter: 2"

Development - Method: N/A, Dry Initially Hole Diameter: 6 1/2"

Duration/Volume:

SOIL BORING LOG

Project: G.L. ERWIN TANK BATTERY A & B
LEA COUNTY, NEW MEXICO

Client: CHEVRON ENVIROMENTAL
MANAGEMENT COMPANY

No. MW-24
CONT'D

File No.: 039124
Date: 10/11/11
Drilling Co.: WHITE DRILLING
Supervisor: JOHN WHITE
Type Rig: AIR ROTARY
Logged by: TODD WELLS

LABORATORY TEST DATA (Results Reported in mg/kg)					FIELD DATA				BORING DATA	
Benzene	Toluene	Ethyl-benzene	Xylenes	Total TPH (C6-C35)	Photo-Ionization Detection Reading (ppm)	Sampling	Depth (feet)	Water Level	Screen Interval	Start Time: Finish Time: 1350
										Sand: 5YR, 8/4, moderate orange pink, very fine to fine grained, subrounded to rounded, quartz sand, dry
										Sandstone: 5YR, 8/4, moderate orange pink, very hard
										Sandy Clay: 5YR, 3/4, moderate brown, moist plastic, fine-grained sand.
							45			
							50			
							55			
										Shale: Plastic, 5YR, 5/2, red light olive gray
							60			TD = 60'
							65			
							70			
							75			
							80			

Split Spoon Sampler

Cuttings

No Recovery

Stratification is Inferred And May Not be Exact.
Soil Classification Based on Visual-Manual Procedure

Water First Noted

Level after ____ min

Analyzed Sample

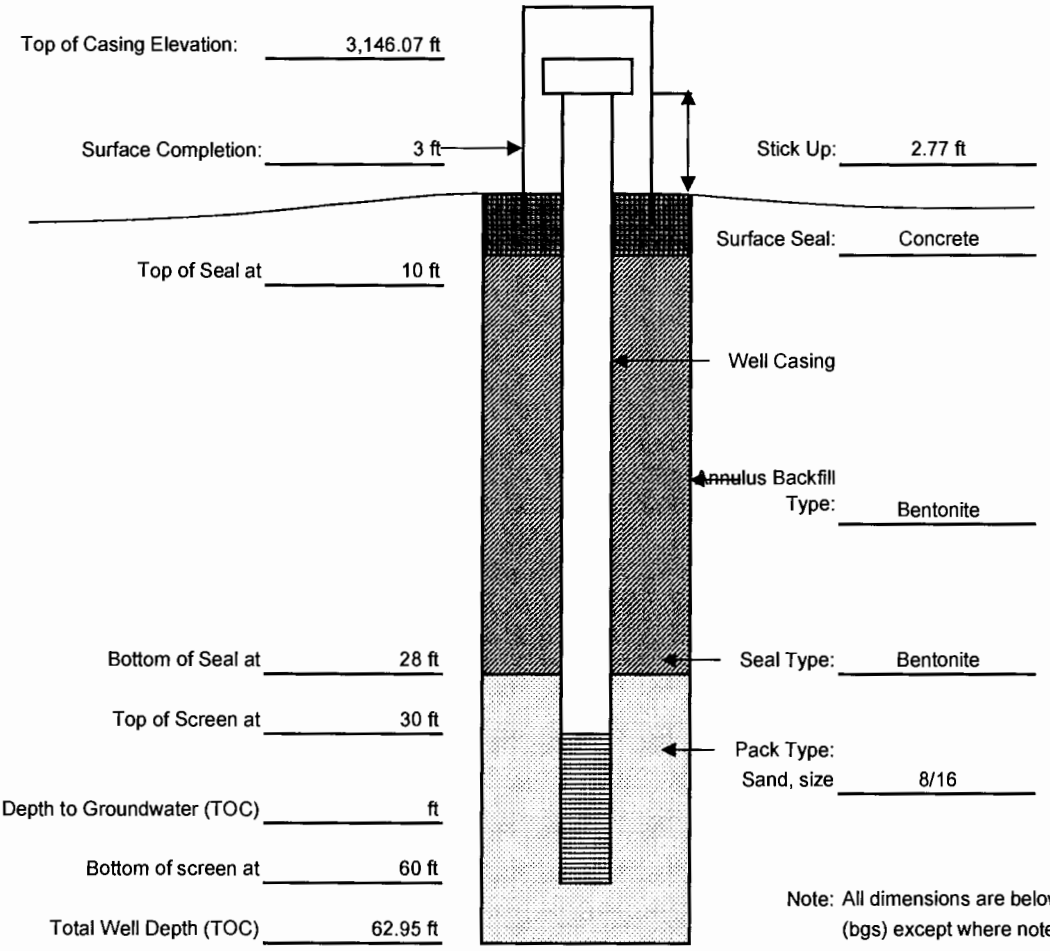
MONITORING WELL CONSTRUCTION DETAIL

Project: G.L. ERWIN TANK BATTERY A & B
LEA COUNTY, NEW MEXICO

Client: CHEVRON ENVIROMENTAL MANAGEMENT COMPANY

No. MW-24 CONT'D

File No.: 039124
Date: 10/11/2011
Drilling Co.: WHITE DRILLING
JOHN WHITE
Type Rig: AIR ROTARY
Logged by: TODD WELLS



Note: All dimensions are below ground surface (bgs) except where noted.

Screen Type: ☐ slotted ☐ perforated other:

Screen Material: ☐ stainless steel ☐ PVC other:

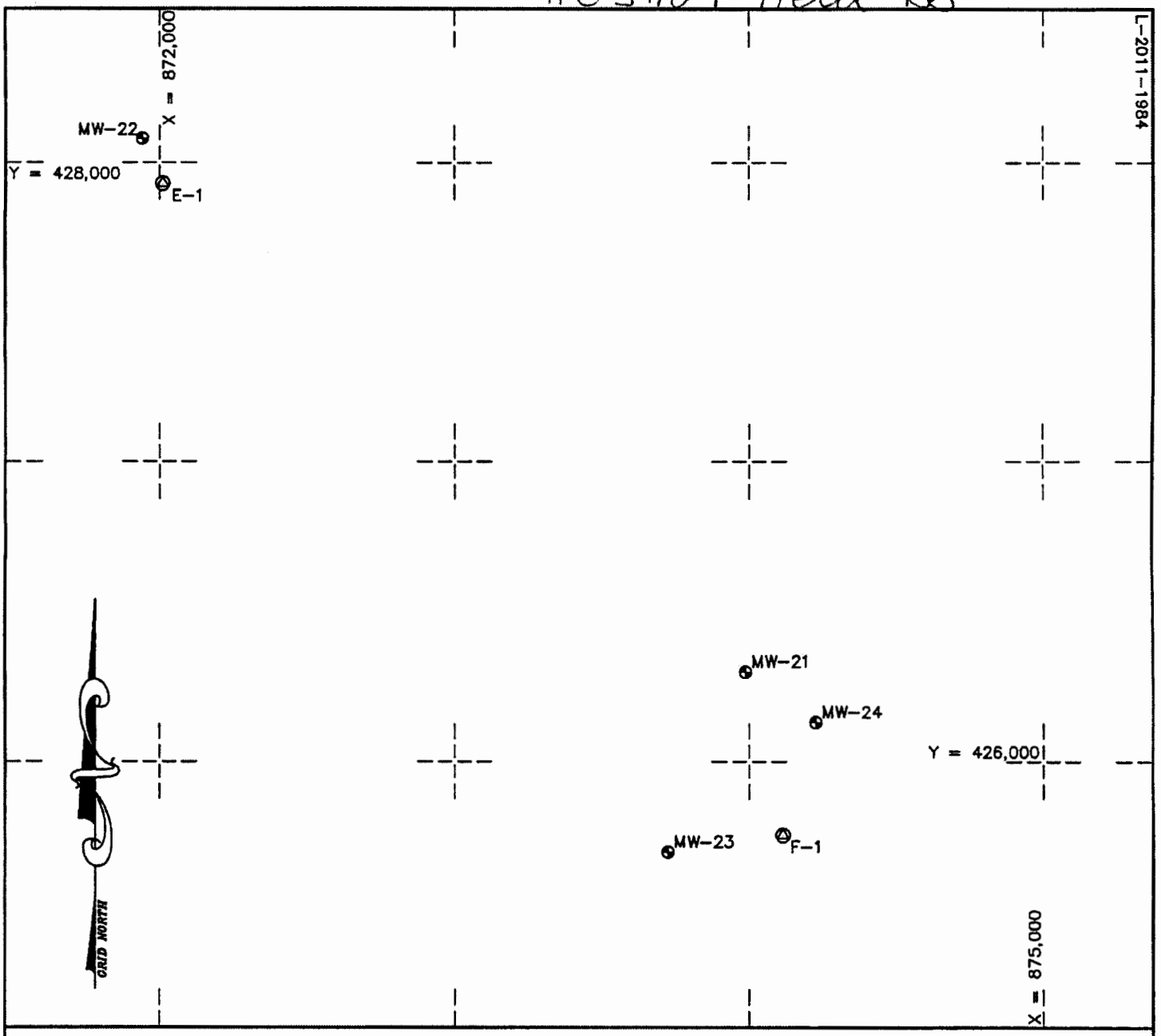
Screen Length: 30' Screen Diameter: 2" Screen Slot Size: 0.020'

Well Casing Material: PVC Well Casing Diameter: 2"

Development - Method: N/A, Dry Initially Hole Diameter: 6 1/2"

Duration/Volume:

#034124 Field RR



DESCRIPTION	NORTHING (Y)	EASTING (X)	LATITUDE	LONGITUDE	ELEVATION TOP OF CASING	ELEVATION CONCRETE PAD	ELEVATION NATURAL GROUND
MW-21	426,296.4	873,987.3	32°09'58.44" N	103°07'29.12" W	3,145.87	3,143.31	3,142.8
MW-22	428,081.1	871,941.0	32°10'16.32" N	103°07'52.69" W	3,170.64	3,168.06	3,167.3
MW-23	425,695.5	873,725.0	32°09'52.52" N	103°07'32.25" W	3,154.38	3,151.83	3,151.6
MW-24	426,130.4	874,224.5	32°09'56.77" N	103°07'26.38" W	3,146.07	3,143.56	3,143.3
E-1	427,927.5	872,011.5	32°10'14.79" N	103°07'51.89" W			3,166.8
F-1	425,750.7	874,113.4	32°09'53.02" N	103°07'27.72" W			3,148.6

Date Surveyed: December 3, 2007
and November 16, 2011

NOTE:

1) Plane Coordinates shown hereon are Transverse Mercator Grid and Conform to the "New Mexico Coordinate System", New Mexico East Zone, North American Datum of 1927.

2) Elevations shown hereon reference the National Geodetic Vertical Datum of 1929.

3) Geodetic Coordinates shown hereon references the North

LEGEND

⊕ – Denotes Monitor Well

⊘ – Denotes Static GPS Control Station

500 0 500 1000

Graphic Scale in Feet