

1R-258

**Annual GW Monitoring
report**

**DATE:
2008**



**CONESTOGA-ROVERS
& ASSOCIATES**

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July 31, 2009

Reference No. 039122 (5)

Mr. Matt Hudson
Chevron Environmental Management Company (CEMC)
15 Smith Road, Room 5317
Midland, Texas 79705

**Re: 2008 Annual Groundwater Monitoring Report
Former New Mexico State "F" Tank Battery
OGRID No. 4323
Lea County, New Mexico**

Dear Mr. Hudson:

Enclosed are three final copies (one hard copy and two electronic copies) of the 2008 Annual Groundwater Monitoring Report for the Former New Mexico State "F" Tank Battery site located in Lea County, New Mexico, prepared by Conestoga-Rovers & Associates (CRA). CRA appreciates the opportunity to provide environmental consulting services for CEMC. If you have any questions regarding this correspondence, please contact me at (432) 686-0086.

Yours truly,

CONESTOGA-ROVERS & ASSOCIATES

Todd Wells
Project Manager

Encl. 2008 Annual Groundwater Monitoring Report
Former New Mexico State "F" Tank Battery
OGRID No. 4323
NE/4, SE/4, Section 24, T-19-S, R-36-E
Latitude: N 32° 38' 34.9" Longitude: W 103° 18' 0.49"
Lea County, New Mexico

Cc: Mr. Jim Cooper
Mr. Michael Newell

Equal
Employment Opportunity
Employer



2008 ANNUAL GROUNDWATER MONITORING REPORT

FORMER NEW MEXICO STATE "F" TANK BATTERY

CASE NO. 1R258

OGRID NO. 4323

NE/4, SE/4, SECTION 24, T-19-S, R-36-E

LATITUDE: N 32° 38' 34.9" LONGITUDE: W 103° 18' 0.49"

LEA COUNTY, NEW MEXICO



2008 ANNUAL GROUNDWATER MONITORING REPORT

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LATITUDE: N 32° 38' 34.9" LONGITUDE: W 103° 18' 0.49"

LEA COUNTY, NEW MEXICO

Prepared For:

Mr. Matt Hudson

CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY

Upstream Business Unit

15 Smith Road, Room 5317

Midland, Texas 79705

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

JULY 23, 2009

REF. NO. 039122 (5)

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1.0 INTRODUCTION

This Annual Groundwater Monitoring Report presents groundwater data collected during the 2008 reporting period by Conestoga-Rovers & Associates (CRA) on behalf of Chevron Environmental Management Company (CEMC) at the former New Mexico State "F" Tank Battery (hereafter referred to as the "Site"). Groundwater gauging and sampling events were performed on March, June, September and November 2008.

The Site is located on Lea County Road 41 (Maddox Road), approximately 3.1 miles northwest of Monument, New Mexico and situated in the northeast quarter (NE/4) of the southeast quarter (SE/4), Section 24, Township 19 South, Range 36 East, Lea County, New Mexico. Site Location and Site Details maps are illustrated on FIGURES 1 and 2, respectively. Historically, Texaco Exploration and Production, Inc. (Texaco) operated the Site as an oil field tank battery. An earthen emergency reserve pit was located approximately 175 feet north of the tank battery. The tank battery and reserve pit are visible in aerial photographs dated February 1949, July 1983, and June 1986. Sometime after 1986, the tank battery and associated equipment were removed from the Site. The former reserve pit was subsequently unearthed during construction of a production facility immediately south of the pit by the Amerada-Hess Corporation.

The former pit was excavated and approximately 7,400 cubic yards of soil and caliche rock were stockpiled adjacent to the excavated pit. In 1998, Highlander Environmental Corporation (Highlander) performed a subsurface assessment at the Site. The assessment activities included collection of soil samples from the sidewalls and bottom of the excavation and from the stockpiled soil generated during excavation activities. Chemical analyses of the soil samples confirmed that concentrations of all constituents of concern were below the New Mexico Oil Conservation Division (NMOCD) recommended remediation action levels for the Site. The soil sampling activities and laboratory analyses are documented in the *Subsurface Investigation Report, New Mexico "F" State Tank Battery, Lea County, New Mexico* (Highlander, September 1998). The *Annual Groundwater Monitoring Report, New Mexico "F" State Tank Battery, Lea County, New Mexico* (Larson and Associates, Inc., 2005) indicates that the pit was closed between September 1998 and November 2003 according to closure requirements stipulated by the NMOCD in correspondence dated January 20, 1999. The bottom of the excavated pit was lined with two feet of compacted clay, the stockpiled soil was returned to the excavation and the backfilled excavation was contoured to natural grade.

In addition to the soil assessment activities, nine monitor wells (MW-1 through MW-9) were installed at the Site between 1998 and 1999. Light non-aqueous phase liquid (LNAPL) was observed in wells MW-1 and MW-2. In November 1999, wells MW-1, MW-2 and MW-9 were plugged and abandoned and replaced with recovery wells RW-1, RW-2 and RW-3. On February 17, 2003, New Mexico Office of the State Engineer (NMOSE) approved applications (File No. L-11029, L-11030 and L-11031) submitted by Texaco to divert underground water for remediation of LNAPL. The remediation system was installed from October 2004 through February 2005 and was activated on February 14, 2005. Excluding brief periods for routine maintenance, the groundwater recovery/gradient control system operated from February 14, 2005 to

November 20, 2006. In November 2006, LNAPL recovery methods were re-evaluated and the total fluids groundwater recovery/gradient control system was shut down. An LNAPL skimmer pump system was installed in RW-1 and absorbent socks were installed in RW-2 and RW-3 on November 28, 2006. This system is currently in operation at the Site. Semi-annual groundwater monitoring and weekly operation and maintenance (O&M) activities have been performed by CRA since 2005 along with annual reporting to the NMOCD for this Site. In addition, quarterly gauging activities were performed in 2008 at the Site.

2.0

REGULATORY FRAMEWORK

The NMOCD guidelines require groundwater to be analyzed for potential contaminants as defined by the New Mexico Water Quality Control Commission (NMWQCC) regulations. In addition, the NMWQCC regulations provide the Human Health Standards for Groundwater. The constituent of concern in affected groundwater at the Site is LNAPL in the form of crude oil. In this report, groundwater analytical results for benzene, toluene, ethylbenzene, total xylenes (BTEX) and chloride are compared to the NMWQCC standards as shown in the following table:

Analyte	NMWQCC Standard for Groundwater (mg/L)
Benzene	0.01
Toluene	0.75
Ethylbenzene	0.75
Total xylenes	0.62
Chloride	250

3.0 GROUNDWATER SAMPLING AND ANALYSIS

The Site is monitored with a network of six monitor wells (MW-3, MW-4, MW-5, MW-6, MW-7 and MW-8), two offsite water wells (WW-1 and WW-2) and three recovery wells (RW-1, RW-2 and RW-3). Four quarterly monitoring and sampling events were performed during the 2008 calendar year. The first (March) and third (September) quarter 2008 events included the collection of static fluid levels and LNAPL thicknesses (if present) in the six monitor wells and the three recovery wells and the collection of a groundwater sample from a single monitor well (MW-6). The second (June) and fourth (November) quarter 2008 events included the collection of static fluid levels and LNAPL thicknesses (if present) in the six monitor wells and the three recovery wells and the collection of groundwater samples from all six monitor wells and the two offsite water wells. Static fluid levels were not collected from the two offsite water wells (WW-1 and WW-2) during the 2008 calendar year.

The first and third quarter monitoring and sampling activities were performed on March 6, 2008 and September 4, 2008. The second and fourth quarter monitoring and sampling activities were performed on June 4, 2008 and November 13, 2008. Prior to purging, static fluid levels and LNAPL thicknesses were measured from top of casing (TOC) with an electric interface probe to the nearest hundredth of a foot and recorded. Purging was considered complete when three well volumes had been removed or the wells were purged dry. Geochemical field parameters including pH, temperature and conductivity were collected during the purging/sampling process. All non-disposable groundwater sampling equipment was decontaminated with a soap (Liquinox®) and potable water wash, a potable water rinse and a final deionized water rinse to minimize potential cross-contamination between each monitor well. Subsequent to the purging process, groundwater samples were collected using clean, disposable PVC bailers. Laboratory-supplied sample containers were then filled directly from the disposable PVC bailers.

Wells that contained measurable (>0.01 foot) LNAPL were not purged or sampled during the March 6, 2008, September 4, 2008 and November 13, 2008 sampling events. During the June 4, 2008 sampling event, all wells were purged and sampled, including wells that contained measurable LNAPL (>0.01 foot). The groundwater samples were placed on ice in an insulated cooler and chilled to a temperature of approximately 4°C (40°F). The coolers were sealed for shipment and proper chain-of-custody documentation accompanied the samples to the laboratory (Test America Laboratories, Inc. located in Houston, Texas) for analyses of BTEX by EPA Method 8021B and chlorides by EPA-approved methods. The fluids recovered and generated during the sampling events were containerized onsite in labeled drums and subsequently managed at an NMOCD-permitted salt water disposal (SWD) facility by Nabors Well Services LTD. (Nabors).

3.1 POTENTIOMETRIC SURFACE ELEVATION AND GRADIENT

Groundwater elevation data are presented in TABLE I. Groundwater gradient maps for each quarterly event (March, June, September and November 2008) are presented on FIGURES 3, 4, 5 and 6 respectively. Depth to groundwater ranged from 50.42 feet to 65.68 feet below TOC on March 3, 2008, from 50.32 feet to 65.39 feet below TOC on June 4, 2008, from 50.90 feet to 65.56 feet below TOC on September 4, 2008 and from 50.15 feet to 65.32 feet below TOC on November 13, 2008. Groundwater elevations at the Site appear to be consistent with historical levels with groundwater flow to the southeast. The maximum gradient observed during the 2008 calendar year was 0.004 feet/foot.

LNAPL was not detected in the monitor wells during the 2008 monitoring period. Historically, three onsite recovery wells have contained measurable amounts of LNAPL. LNAPL was present in recovery well RW-1 with a thickness of 0.48 feet in March 2008, 0.78 feet in June 2008, 0.31 feet in September 2008 and 2.49 feet in November 2008. Although measurable LNAPL was not encountered in RW-2 and RW-3 during the November sampling event, residual LNAPL (sheen) was observed in both recovery wells and the wells were not sampled. LNAPL thickness maps for March, June, September and November 2008 are presented as FIGURES 7, 8, 9 and 10, respectively.

3.2 ANALYTICAL RESULTS

Analytical results are summarized in TABLE II. Groundwater BTEX and chloride concentration maps for March, June, September and November 2008 are presented as FIGURES 11, 12, 13 and 14, respectively. BTEX and chloride concentrations were below the NMWQCC standards in all samples collected from the monitor wells and offsite water wells WW-1 and WW-2 during the 2008 monitoring period except for RW-1. Recovery well RW-1 exhibited a benzene concentration of 0.0119 mg/L. Copies of the certified laboratory reports are provided in APPENDIX A.

4.0 CORRECTIVE ACTION

Excluding brief periods for routine maintenance, the Xitech® LNAPL skimmer pump system installed in RW-1 operated continuously from January to December 2008. The best course of action for the two other recovery wells (RW-2 and RW-3) was determined to be absorbent socks based on trace amounts of LNAPL observed in both wells.

Operation and maintenance (O&M) activities were performed on a weekly basis. As of December 30, 2008, approximately 204 gallons of LNAPL have been recovered since January 2, 2008 from RW-1. Additionally, approximately 551 gallons of LNAPL have been recovered since November 28, 2006 when the skimmer system was installed in RW-1.

5.0 PLANNED ACTIVITIES

The Xitech® skimmer pump system will continue to be utilized for LNAPL recovery at the Site in 2009. The recovered product will be pumped into the 225-gallon tank which is situated inside a secondary containment structure.

Semi-annual groundwater sampling events are scheduled to be performed during June and November 2009. Groundwater samples will be collected from all wells that do not contain measurable LNAPL and from the two offsite water wells (WW-1 and WW-2). The wells (RW-1, RW-2 and RW-3) will be sampled during the June 2009 sampling event. In addition, quarterly gauging and monitor well MW-6 sampling activities will be performed to monitor the groundwater gradient and the potential for offsite plume migration. Weekly O&M activities will also be performed to monitor the performance of the LNAPL recovery system and to periodically replace the absorbent socks in the other two recovery wells (RW-2 and RW-3) as necessary.

6.0 SUMMARY OF FINDINGS

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

- The Site is monitored semi-annually with a network of six monitor wells (MW-3, MW-4, MW-5, MW-6, MW-7 and MW-8), three recovery wells (RW-1, RW-2 and RW-3) and two offsite water wells (WW-1 and WW-2). Depth to groundwater ranged from 50.42 feet to 65.68 feet below TOC on March 3, 2008, from 50.32 feet to 65.39 feet below TOC on June 4, 2008, from 50.90 feet to 65.56 feet below TOC on September 4, 2008 and from 50.15 feet to 65.32 feet below TOC on November 13, 2008. Groundwater flow at the Site is to the southeast and the maximum gradient observed in 2008 was 0.004 feet/foot.
- LNAPL was not detected in the monitor wells during the 2008 monitoring period. LNAPL was present in recovery well RW-1 with a thickness of 0.48 feet in March 2008, 0.78 feet in June 2008, 0.31 feet in September 2008 and 2.46 feet in November 2008. Although measurable LNAPL was not encountered in RW-2 and RW-3 during the November sampling event, residual LNAPL (sheen) was observed in both recovery wells and the wells were not sampled.
- BTEX and chloride concentrations were below the NMWQCC standards in all samples collected from the monitor wells and offsite water wells WW-1 and WW-2 during the 2008 monitoring period. However, RW-1 exhibited a benzene concentration of 0.0119 mg/L during the June 2008 sampling event. This was above NMWQCC standards.
- The Xitech® LNAPL skimmer pump system in RW-1 operated continuously from January to December 2008. As of December 30, 2008, approximately 204 gallons of LNAPL have been recovered since January 2, 2008 from RW-1. Additionally, approximately 551 gallons of LNAPL have been recovered since November 28, 2006 when the skimmer pump system was installed in RW-1.
- The 2009 semi-annual groundwater sampling events are scheduled to be performed during June and November 2009. Groundwater samples will be collected from all wells that do not contain measurable LNAPL and from the two offsite water wells (WW-1 and WW-2). The wells (RW-1, RW-2 and RW-3) will be sampled during the June 2009 sampling event. In addition, quarterly gauging and monitor well MW-6 sampling activities will be performed to monitor the groundwater gradient and the potential for offsite plume migration. Weekly O&M activities will be performed to monitor the performance of the LNAPL recovery system and to periodically replace the absorbent socks in the other two recovery wells (RW-2 and RW-3) as necessary.

All of Which is Respectfully Submitted,
Conestoga – Rovers & Associates

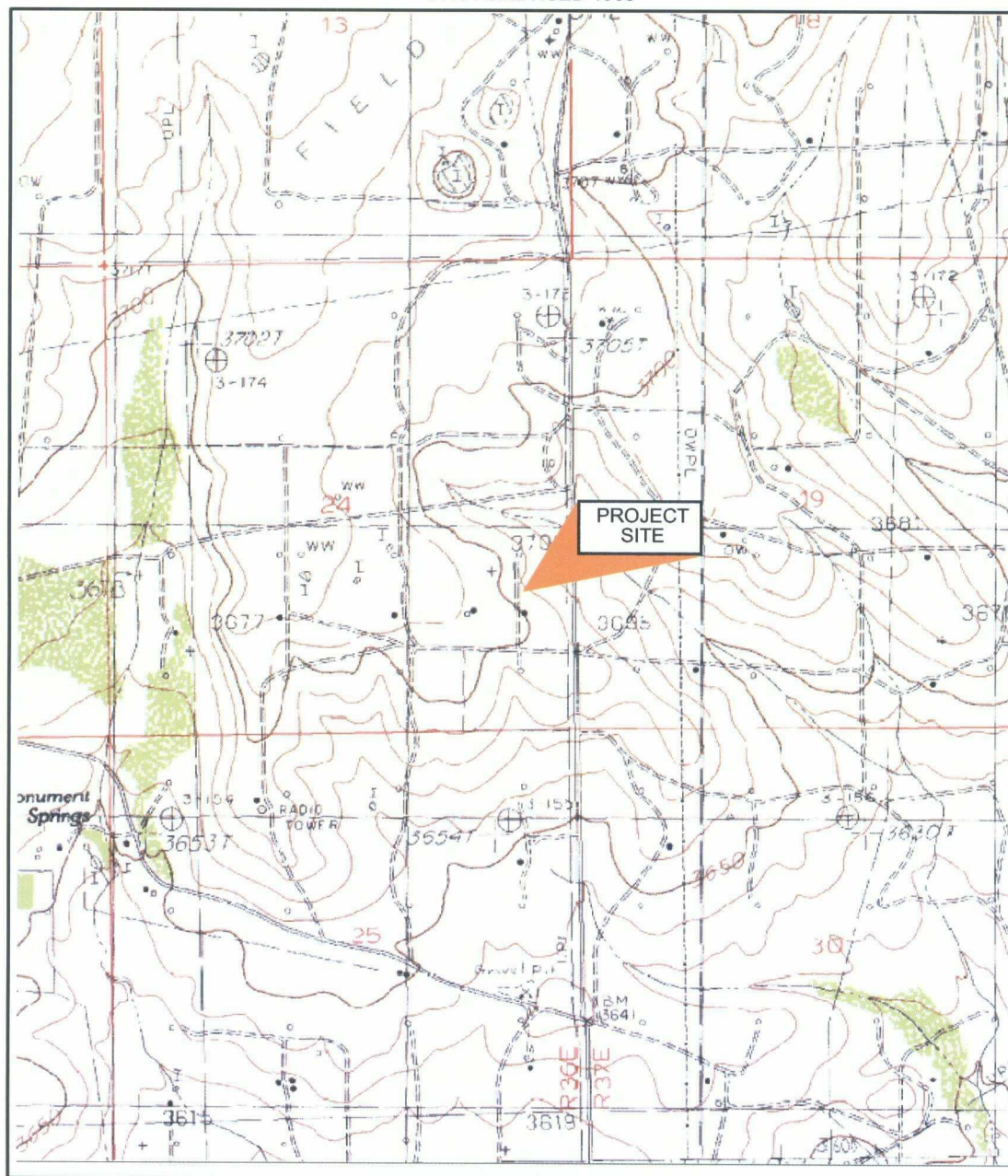


Todd Wells
Project Manager

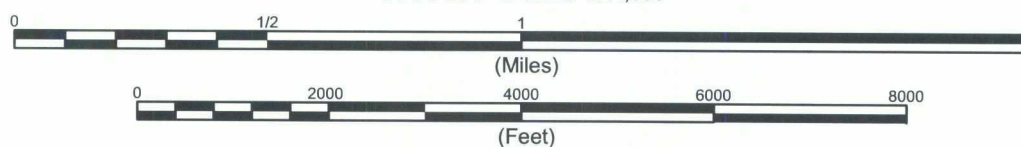


Thomas C. Larson
Operations Manager

LAT= 32° 38' 34.59" N
LONG= 103° 18' 4.74" W
PHOTOREVISED 1985



USGS MAP SERIES 1:24,000



CONTOUR INTERVAL 10 FEET



NORTH

(Feet) figure 1
TOUR INTERVAL 10 FEET
SITE LOCATION MAP
NEW MEXICO "F" STATE
GROUNDWATER REMEDIATION PROJECT
LEA COUNTY, NEW MEXICO
Chevron Environmental Management Company



- LEGEND**
-  MONITOR WELL
 -  RECOVERY WELL
 -  WATER WELL
 -  FENCE LINE

figure 2

SITE DETAILS MAP
NEW MEXICO "F" STATE
GROUNDWATER REMEDIATION PROJECT
LEA COUNTY, NEW MEXICO
Chevron Environmental Management Company



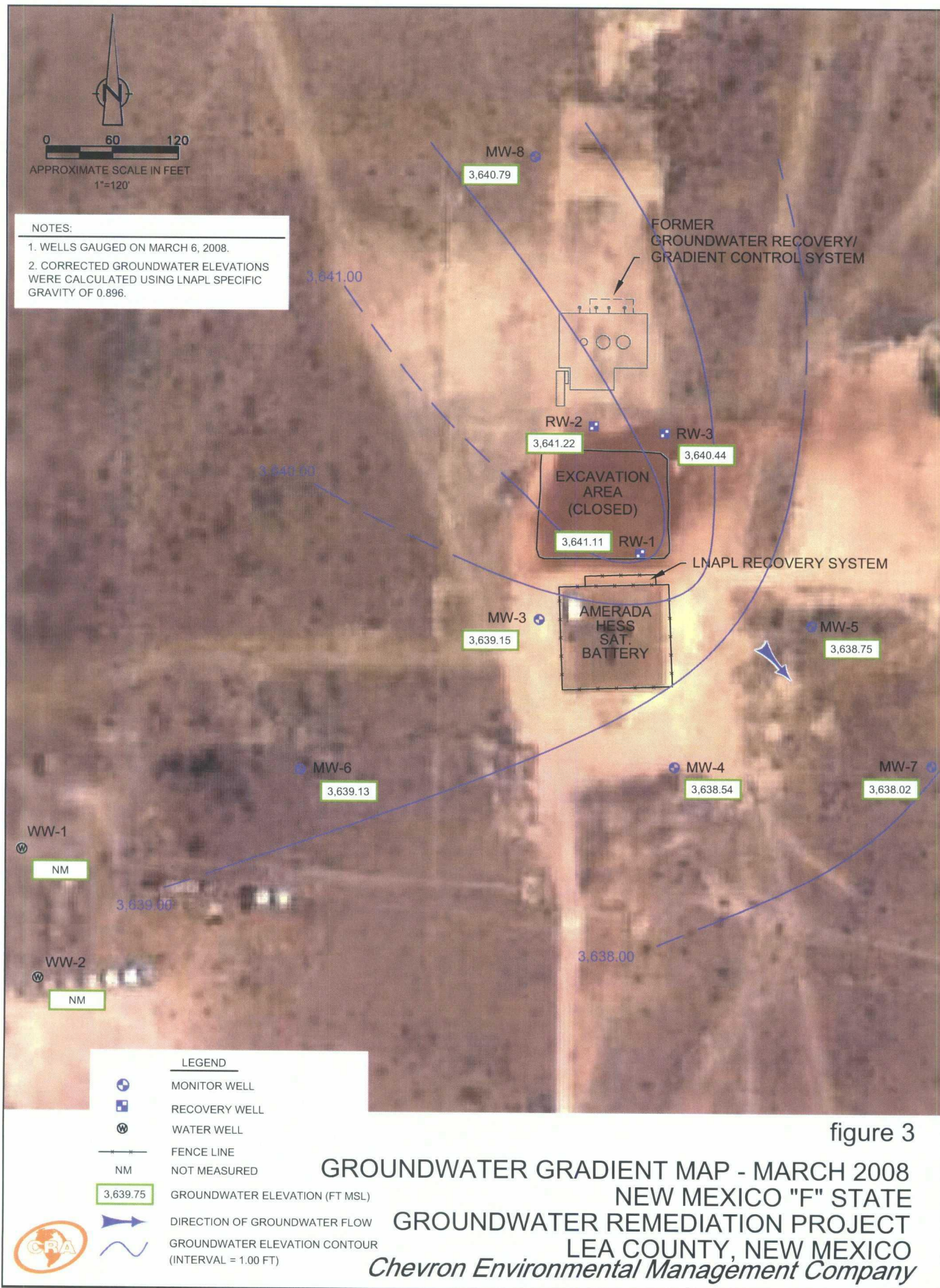


figure 3

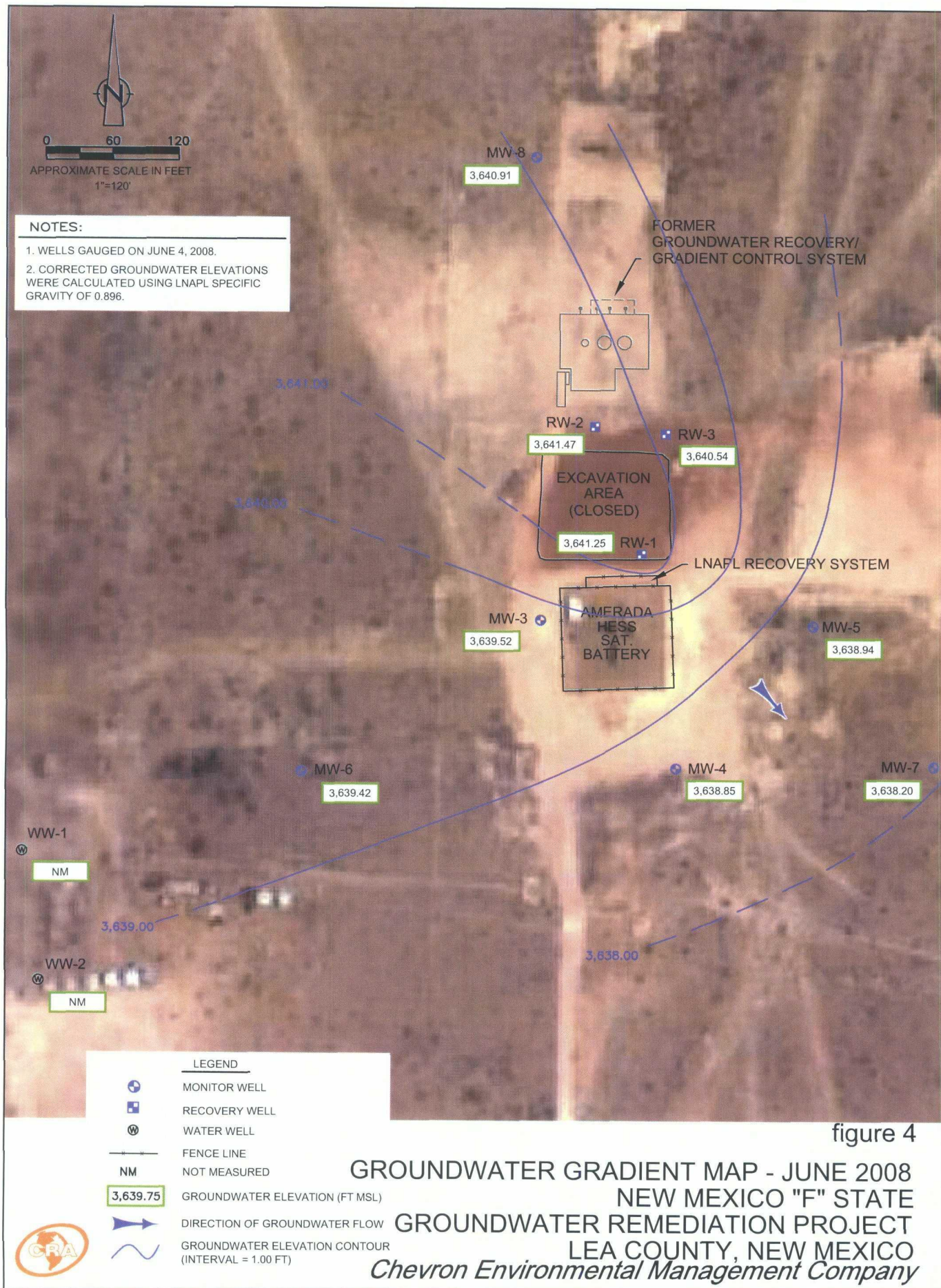
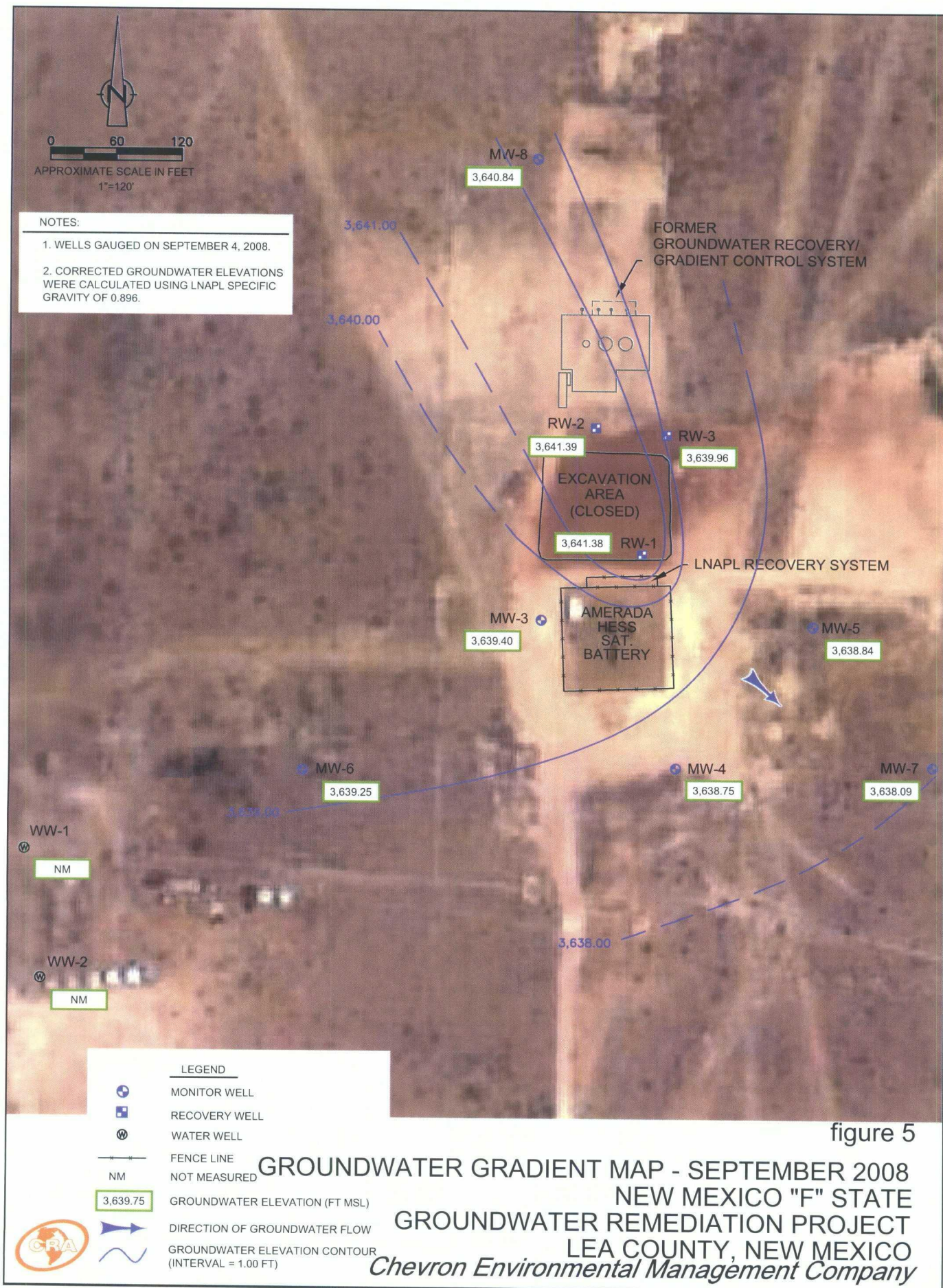


figure 4



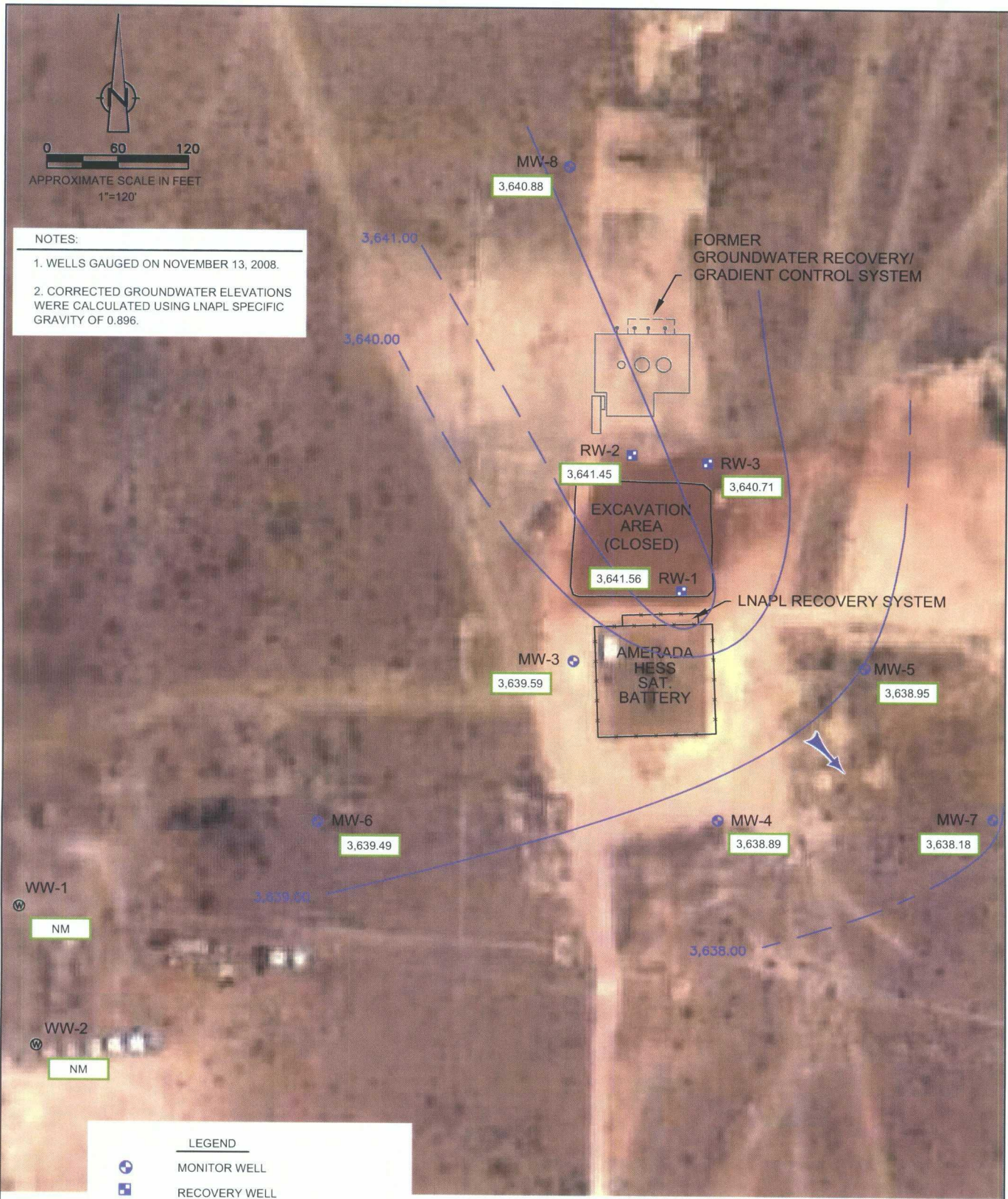


figure 6

GROUNDWATER GRADIENT MAP - NOVEMBER 2008
NEW MEXICO "F" STATE
GROUNDWATER REMEDIATION PROJECT
LEA COUNTY, NEW MEXICO
Chevron Environmental Management Company





figure 7

LNAPL THICKNESS MAP - MARCH 2008
NEW MEXICO "F" STATE
GROUNDWATER REMEDIATION PROJECT
LEA COUNTY, NEW MEXICO

Chevron Environmental Management Company



LEGEND	
	MONITOR WELL
	RECOVERY WELL
	WATER WELL
	FENCE LINE
	LNAPL THICKNESS (FT)
NM	NOT MEASURED

WELLS GAUGED ON MARCH 6, 2008.





figure 9

LNAPL THICKNESS MAP - SEPTEMBER 2008
 NEW MEXICO "F" STATE
 GROUNDWATER REMEDIATION PROJECT
 LEA COUNTY, NEW MEXICO
Chevron Environmental Management Company





figure 10

LNAPL THICKNESS MAP - NOVEMBER 2008
NEW MEXICO "F" STATE
GROUNDWATER REMEDIATION PROJECT
LEA COUNTY, NEW MEXICO
Chevron Environmental Management Company



LEGEND	
	MONITOR WELL
	RECOVERY WELL
	WATER WELL
	FENCE LINE
	LNAPL THICKNESS (FT)
	NOT MEASURED

WELLS GAUGED ON NOVEMBER 13, 2008.

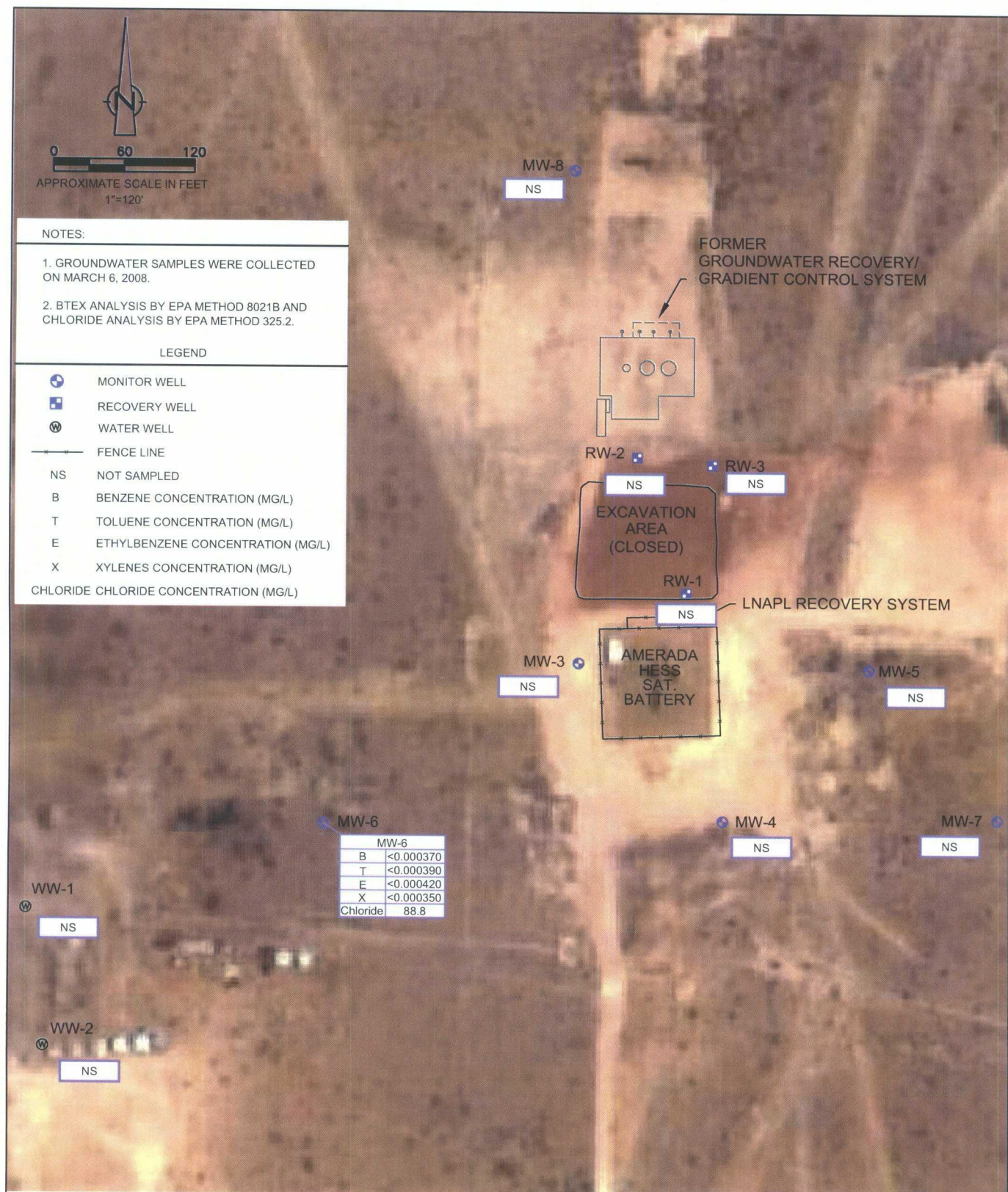


figure 11

GROUNDWATER BTEX AND CHLORIDE CONCENTRATIONS MAP -
MARCH 2008
NEW MEXICO "F" STATE GROUNDWATER REMEDIATION PROJECT
LEA COUNTY, NEW MEXICO
Chevron Environmental Management Company



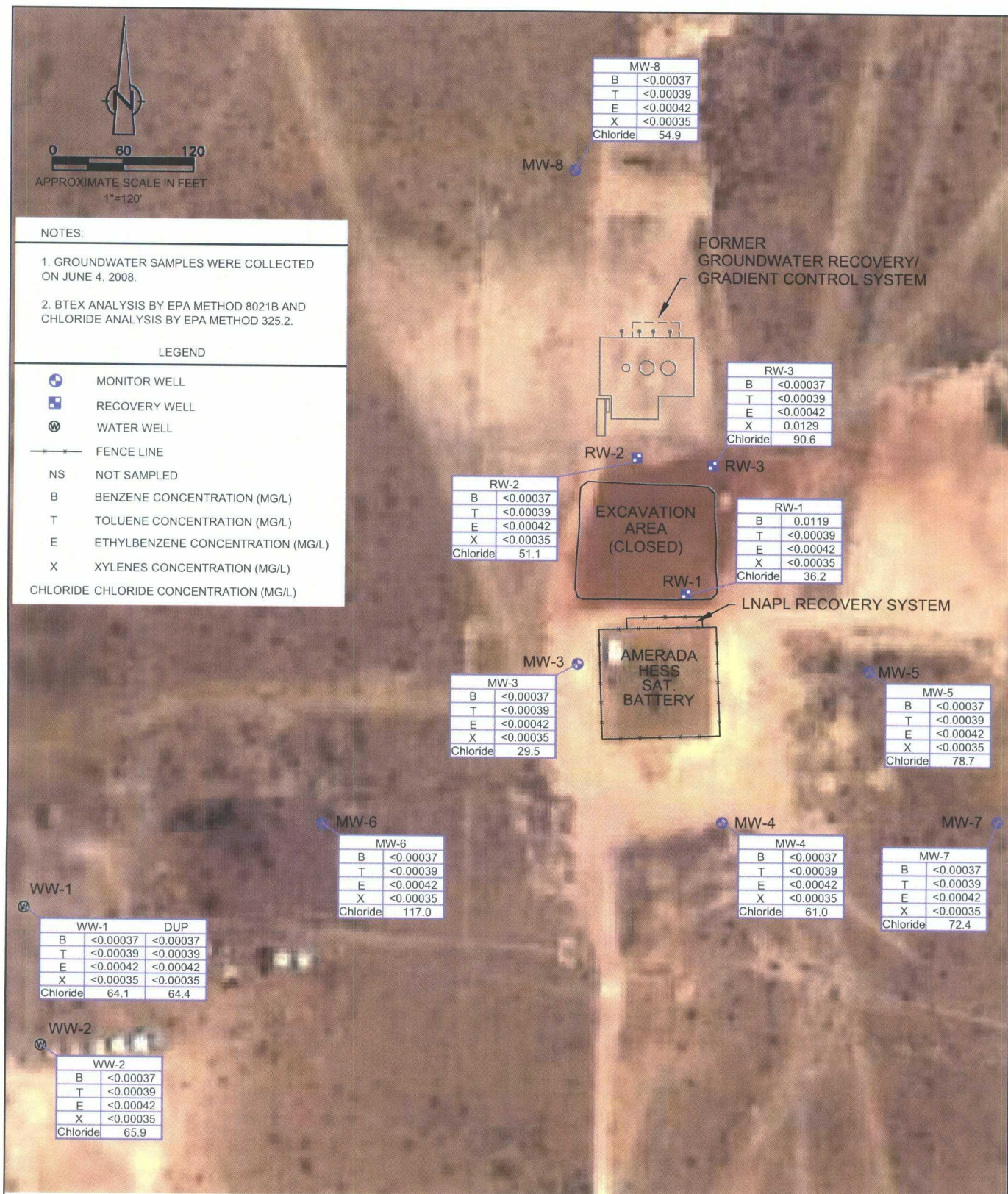


figure 12

GROUNDWATER BTEX AND CHLORIDE CONCENTRATIONS MAP -

JUNE 2008

NEW MEXICO "F" STATE GROUNDWATER REMEDIATION PROJECT

LEA COUNTY, NEW MEXICO

Chevron Environmental Management Company



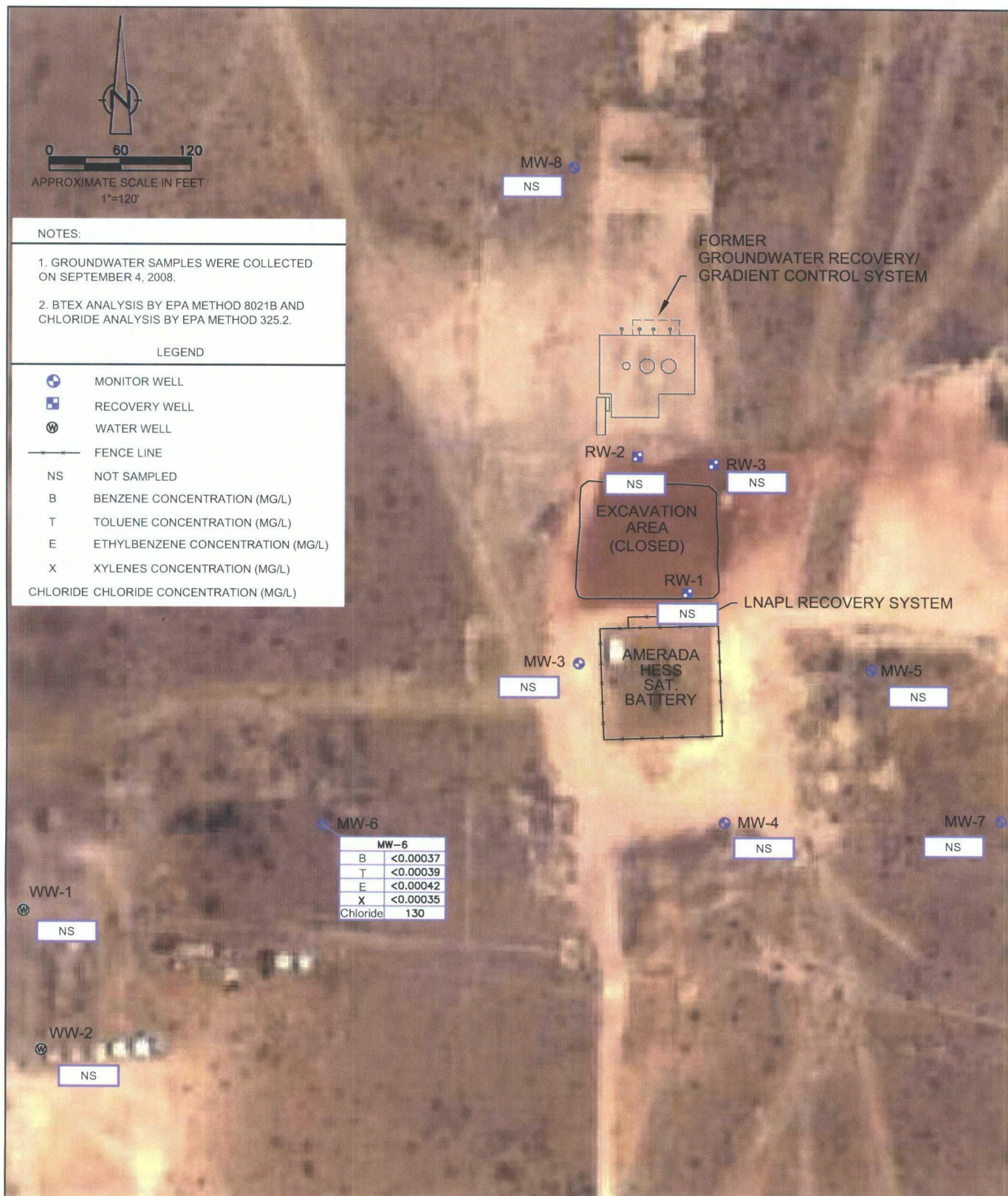


figure 13

GROUNDWATER BTEX AND CHLORIDE CONCENTRATIONS MAP -
 SEPTEMBER 2008
 NEW MEXICO "F" STATE GROUNDWATER REMEDIATION PROJECT
 LEA COUNTY, NEW MEXICO
Chevron Environmental Management Company



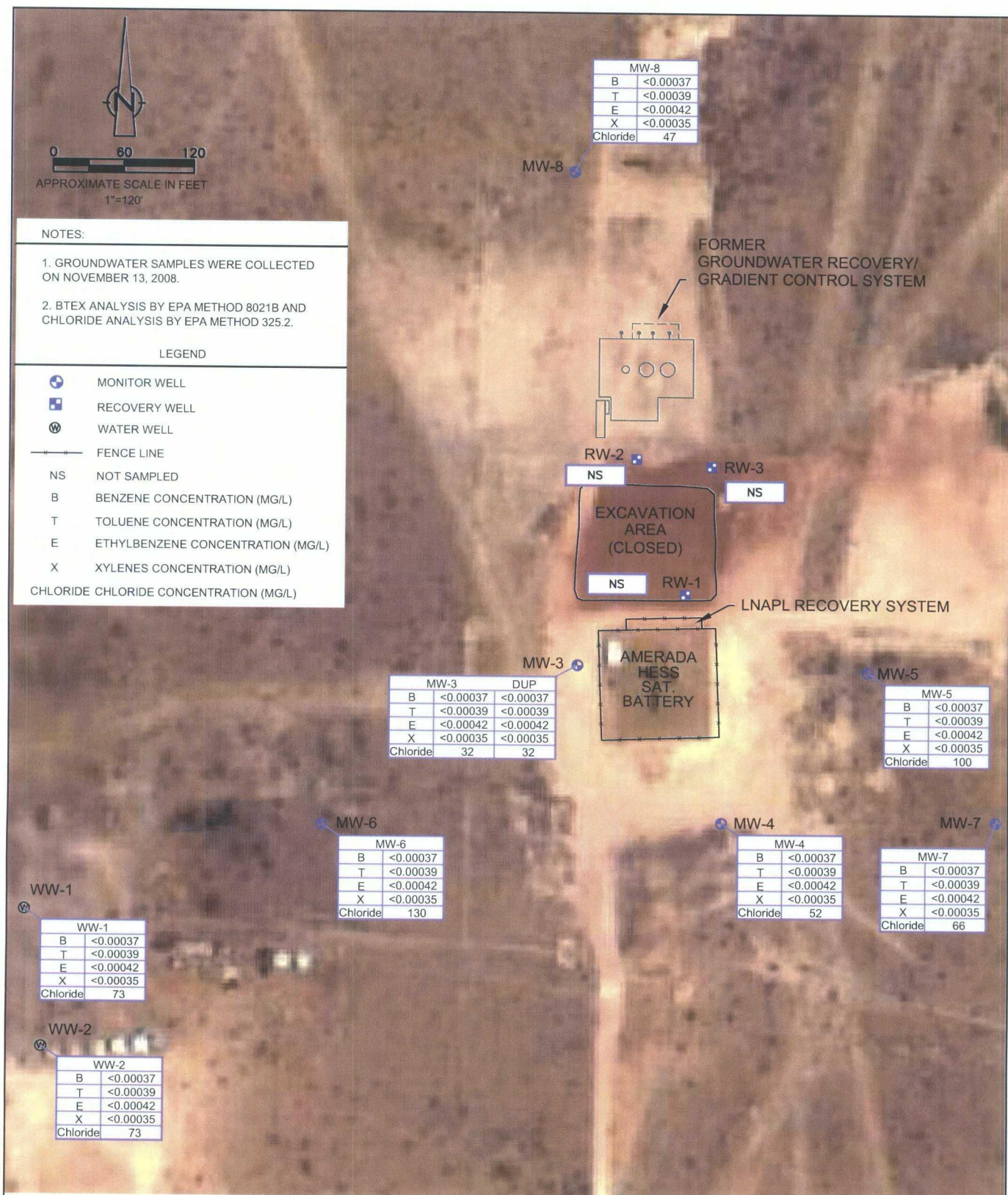


figure 14

GROUNDWATER BTEX AND CHLORIDE CONCENTRATIONS MAP -
NOVEMBER 2008
NEW MEXICO "F" STATE GROUNDWATER REMEDIATION PROJECT
LEA COUNTY, NEW MEXICO
Chevron Environmental Management Company



TABLE I
GROUNDWATER GAUGING SUMMARY
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
FORMER NEW MEXICO "F" STATE TANK BATTERY
LEA COUNTY, NEW MEXICO

Well ID TOC Elevation	Collection Date	Depth to Groundwater (ft TOC)	Depth to LNAPL (ft TOC)	LNAPL Thickness (ft)	Corrected Groundwater Elevation (ft above MSL)	Well Depth (ft TOC)	Well Screen Interval (ft bgs)
MW-3 3696.85	7/28/98	59.53	---	---	3637.32	70.15	55 - 75
	6/25/99	59.06	---	---	3637.79	---	---
	2/16/01	59.53	---	---	3637.32	---	---
	6/11/02	59.18	---	---	3637.67	---	---
	11/26/02	59.54	---	---	3637.31	---	---
	6/5/03	59.45	---	---	3637.40	---	---
	12/3/03	59.47	---	---	3637.38	---	---
	7/1/04	59.24	---	---	3637.61	---	---
	12/20/04	58.83	---	---	3638.02	---	---
	6/6/05	58.53	---	---	3638.32	---	---
	12/12/05	57.83	---	---	3639.02	---	---
	1/25/06	57.85	---	---	3639.00	---	---
	5/1/06	57.59	---	---	3639.26	---	---
	6/26/06	57.66	---	---	3639.19	---	---
	12/18/06	57.54	---	---	3639.31	---	---
	3/16/07	57.43	---	---	3639.42	---	---
	6/26/07	57.31	---	---	3639.54	---	---
	9/27/07	57.89	---	---	3638.96	---	---
	12/13/07	57.61	---	---	3639.24	---	---
	3/6/08	57.70	---	---	3639.15	---	---
	6/4/08	57.33	---	---	3639.52	---	---
	9/4/08	57.45	---	---	3639.40	---	---
	11/13/08	57.26	---	---	3639.59	---	---
MW-4 3699.50	7/28/98	69.72	---	---	3629.78	68.74	55 - 75
	6/25/99	62.31	---	---	3637.19	---	---
	2/16/01	62.52	---	---	3636.98	---	---
	6/11/02	62.39	---	---	3637.11	---	---
	11/26/02	62.76	---	---	3636.74	---	---
	6/5/03	62.71	---	---	3636.79	---	---
	12/3/03	62.67	---	---	3636.83	---	---
	7/1/04	62.43	---	---	3637.07	---	---
	12/20/04	62.02	---	---	3637.48	---	---
	6/6/05	61.67	---	---	3637.83	---	---
	12/12/05	61.11	---	---	3638.39	---	---
	1/25/06	61.11	---	---	3638.39	---	---
	5/1/06	60.89	---	---	3638.61	---	---
	6/26/06	60.93	---	---	3638.57	---	---
	12/18/06	60.79	---	---	3638.71	---	---
	3/16/07	60.72	---	---	3638.78	---	---
	6/26/07	60.60	---	---	3638.90	---	---
	9/27/07	61.02	---	---	3638.48	---	---
	12/13/07	60.88	---	---	3638.62	---	---
	3/6/08	60.96	---	---	3638.54	---	---
	6/4/08	60.65	---	---	3638.85	---	---
	9/4/08	60.75	---	---	3638.75	---	---
	11/13/08	60.61	---	---	3638.89	---	---

TABLE I
GROUNDWATER GAUGING SUMMARY
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
FORMER NEW MEXICO "F" STATE TANK BATTERY
LEA COUNTY, NEW MEXICO

Well ID TOC Elevation	Collection Date	Depth to Groundwater (ft TOC)	Depth to LNAPL (ft TOC)	LNAPL Thickness (ft)	Corrected Groundwater Elevation (ft above MSL)	Well Depth (ft TOC)	Well Screen Interval (ft bgs)
MW-5 3693.52	7/28/98	56.53	---	---	3636.99	66.80	48 - 68
	3/23/99	56.30	---	---	3637.22	---	---
	6/25/99	56.21	---	---	3637.31	---	---
	2/16/01	56.31	---	---	3637.21	---	---
	6/11/02	56.29	---	---	3637.23	---	---
	11/26/02	56.13	---	---	3637.39	---	---
	6/5/03	56.53	---	---	3636.99	---	---
	12/3/03	56.57	---	---	3636.95	---	---
	7/1/04	54.34	---	---	3639.18	---	---
	12/20/04	55.86	---	---	3637.66	---	---
	6/6/05	55.60	---	---	3637.92	---	---
	12/12/05	55.04	---	---	3638.48	---	---
	1/25/06	55.07	---	---	3638.45	---	---
	5/1/06	54.87	---	---	3638.65	---	---
	6/26/06	54.86	---	---	3638.66	---	---
	12/18/06	54.61	---	---	3638.91	---	---
	3/16/07	54.51	---	---	3639.01	---	---
	6/26/07	54.49	---	---	3639.03	---	---
	9/27/07	54.84	---	---	3638.68	---	---
	12/13/07	54.74	---	---	3638.78	---	---
	3/6/08	54.77	---	---	3638.75	---	---
	6/4/08	54.58	---	---	3638.94	---	---
	9/4/08	54.68	---	---	3638.84	---	---
	11/13/08	54.57	---	---	3638.95	---	---
MW-6 3704.81	7/28/98	67.86	---	---	3636.95	78.25	56 - 76
	6/25/99	67.25	---	---	3637.56	---	---
	2/16/01	67.45	---	---	3637.36	---	---
	6/11/02	67.19	---	---	3637.62	---	---
	11/26/02	67.09	---	---	3637.72	---	---
	6/5/03	67.57	---	---	3637.24	---	---
	12/3/03	67.61	---	---	3637.20	---	---
	7/1/04	67.43	---	---	3637.38	---	---
	12/20/04	67.55	---	---	3637.26	---	---
	6/6/05	66.41	---	---	3638.40	---	---
	12/12/05	65.80	---	---	3639.01	---	---
	1/25/06	65.88	---	---	3638.93	---	---
	5/1/06	65.57	---	---	3639.24	---	---
	6/26/06	65.82	---	---	3638.99	---	---
	12/18/06	65.67	---	---	3639.14	---	---
	3/16/07	65.69	---	---	3639.12	---	---
	6/26/07	65.41	---	---	3639.40	---	---
	9/27/07	66.46	---	---	3638.35	---	---
	12/13/07	65.85	---	---	3638.96	---	---
	3/6/08	65.68	---	---	3639.13	---	---
	6/4/08	65.39	---	---	3639.42	---	---
	9/4/08	65.56	---	---	3639.25	---	---
	11/13/08	65.32	---	---	3639.49	---	---

TABLE I
GROUNDWATER GAUGING SUMMARY
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
FORMER NEW MEXICO "F" STATE TANK BATTERY
LEA COUNTY, NEW MEXICO

Well ID TOC Elevation	Collection Date	Depth to Groundwater (ft TOC)	Depth to LNAPL (ft TOC)	LNAPL Thickness (ft)	Corrected Groundwater Elevation (ft above MSL)	Well Depth (ft TOC)	Well Screen Interval (ft bgs)
MW-7 3694.58	7/28/98	58.08	---	---	3636.50	68.88	49 - 69
	6/25/99	57.96	---	---	3636.62	---	---
	2/16/01	58.09	---	---	3636.49	---	---
	6/11/02	58.07	---	---	3636.51	---	---
	11/26/02	57.92	---	---	3636.66	---	---
	6/5/03	58.29	---	---	3636.29	---	---
	12/3/03	58.33	---	---	3636.25	---	---
	7/1/04	58.11	---	---	3636.47	---	---
	12/20/04	57.62	---	---	3636.96	---	---
	6/6/05	57.28	---	---	3637.30	---	---
	12/12/05	56.84	---	---	3637.74	---	---
	1/25/06	56.86	---	---	3637.72	---	---
	5/1/06	56.69	---	---	3637.89	---	---
	6/26/06	56.66	---	---	3637.92	---	---
	12/18/06	56.40	---	---	3638.18	---	---
	3/16/07	56.28	---	---	3638.30	---	---
	6/26/07	56.29	---	---	3638.29	---	---
	9/27/07	56.59	---	---	3637.99	---	---
	12/13/07	56.51	---	---	3638.07	---	---
	3/6/08	56.56	---	---	3638.02	---	---
	6/4/08	56.38	---	---	3638.20	---	---
	9/4/08	56.49	---	---	3638.09	---	---
	11/13/08	56.40	---	---	3638.18	---	---
MW-8 3695.61	7/28/98	56.84	---	---	3638.77	66.91	46 - 66
	6/25/99	56.56	---	---	3639.05	---	---
	2/16/01	56.49	---	---	3639.12	---	---
	6/11/02	56.56	---	---	3639.05	---	---
	11/26/02	56.88	---	---	3638.73	---	---
	6/5/03	56.89	---	---	3638.72	---	---
	12/3/03	56.91	---	---	3638.70	---	---
	7/1/04	56.70	---	---	3638.91	---	---
	12/20/04	56.23	---	---	3639.38	---	---
	6/6/05	55.86	---	---	3639.75	---	---
	12/12/05	55.29	---	---	3640.32	---	---
	1/25/06	55.30	---	---	3640.31	---	---
	5/1/06	55.03	---	---	3640.58	---	---
	6/26/06	54.96	---	---	3640.65	---	---
	12/18/06	54.80	---	---	3640.81	---	---
	3/16/07	54.68	---	---	3640.93	---	---
	6/26/07	54.67	---	---	3640.94	---	---
	9/27/07	54.95	---	---	3640.66	---	---
	12/13/07	54.82	---	---	3640.79	---	---
	3/6/08	54.82	---	---	3640.79	---	---
	6/4/08	54.70	---	---	3640.91	---	---
	9/4/08	54.77	---	---	3640.84	---	---
	11/13/08	54.73	---	---	3640.88	---	---

TABLE I
GROUNDWATER GAUGING SUMMARY
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
FORMER NEW MEXICO "F" STATE TANK BATTERY
LEA COUNTY, NEW MEXICO

Well ID TOC Elevation	Collection Date	Depth to Groundwater (ft TOC)	Depth to LNAPL (ft TOC)	LNAPL Thickness (ft)	Corrected Groundwater Elevation (ft above MSL)	Well Depth (ft TOC)	Well Screen Interval (ft bgs)
RW-1 3699.92	11/3/99	62.17	---	---	3637.75	71.60	55 - 75
	2/16/01	62.37	62.33	0.04	3637.59	---	---
	6/11/02	62.26	61.86	0.40	3638.01	---	---
	11/26/02	62.60	62.07	0.53	3637.79	---	---
	6/5/03	63.00	62.84	0.16	3637.06	---	---
	12/3/03	63.26	62.61	0.65	3637.23	---	---
	7/1/04	63.10	62.33	0.77	3637.50	---	---
	12/20/04	61.80	60.96	0.84	3638.86	---	---
	3/1/05	Start-up groundwater extraction system				---	---
	1/25/06	61.44	58.67	2.77	3640.92	---	---
	5/1/06	61.56	58.38	3.18	3641.16	---	---
	6/26/06	61.59	58.43	3.16	3641.11	---	---
	11/21/06	59.87	58.72	1.15	3641.06	---	---
	11/28/06	Installed skimmer pump system				---	---
	11/28/06	60.96	58.32	2.64	3641.28	---	---
	12/4/06	60.35	58.30	2.05	3641.37	---	---
	12/15/06	58.75	58.48	0.27	3641.41	---	---
	12/18/06	58.78	58.55	0.23	3641.34	---	---
	1/5/07	60.54	58.19	2.35	3641.49	---	---
	2/2/07	59.00	58.51	0.49	3641.36	---	---
	2/9/07	58.52	58.36	0.16	3641.54	---	---
	2/23/07	58.62	58.25	0.37	3641.63	---	---
	3/2/07	59.78	58.18	1.60	3641.58	---	---
	3/8/07	58.55	58.23	0.32	3641.66	---	---
	3/16/07	58.74	58.30	0.44	3641.57	---	---
	3/23/07	58.81	58.31	0.50	3641.56	---	---
	3/28/07	58.48	58.24	0.24	3641.66	---	---
	4/4/07	58.69	58.48	0.21	3641.42	---	---
	5/23/07	58.95	58.48	0.47	3641.39	---	---
	6/20/07	59.09	58.50	0.59	3641.36	---	---
	6/26/07	58.52	58.37	0.15	3641.53	---	---
	7/2/07	58.69	58.29	0.40	3641.59	---	---
	9/13/07	60.18	58.66	1.52	3641.10	---	---
	9/17/07	59.18	58.65	0.53	3641.22	---	---
	9/27/07	59.40	58.72	0.68	3641.13	---	---
	11/16/07	58.52	58.35	0.17	3641.55	---	---
	12/13/07	60.90	58.44	2.46	3641.23	---	---
	3/6/08	59.24	58.76	0.48	3641.11	---	---
	4/1/08	59.27	58.70	0.57	3641.16	---	---
	5/6/08	59.31	58.73	0.58	3641.13	---	---
	6/4/08	59.37	58.59	0.78	3641.25	---	---
	6/25/08	58.51	58.40	0.11	3641.51	---	---
	7/15/08	58.92	58.46	0.46	3641.41	---	---
	8/19/08	58.80	58.52	0.28	3641.37	---	---
	9/4/08	58.82	58.51	0.31	3641.38	---	---
	9/15/08	60.56	58.43	2.13	3641.27	---	---
	10/1/08	60.38	58.45	1.93	3641.27	---	---
	10/16/08	60.80	58.41	2.39	3641.26	---	---
	11/13/08	60.59	58.10	2.49	3641.56	---	---
	12/17/08	60.48	58.47	2.01	3641.24	---	---

TABLE I
GROUNDWATER GAUGING SUMMARY
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
FORMER NEW MEXICO "F" STATE TANK BATTERY
LEA COUNTY, NEW MEXICO

Well ID TOC Elevation	Collection Date	Depth to Groundwater (ft TOC)	Depth to LNAPL (ft TOC)	LNAPL Thickness (ft)	Corrected Groundwater Elevation (ft above MSL)	Well Depth (ft TOC)	Well Screen Interval (ft bgs)
RW-2 3692.12	10/14/99	53.28	---	---	3638.84	67.55	47 - 67
	11/3/99	53.95	---	---	3638.17	---	---
	2/16/01	54.01	---	---	3638.11	---	---
	6/11/02	54.01	53.98	0.03	3638.14	---	---
	11/26/02	54.28	54.07	0.21	3638.02	---	---
	6/5/03	53.24	53.23	0.01	3638.89	---	---
	12/3/03	54.51	54.38	0.13	3637.72	---	---
	7/1/04	54.51	54.12	0.39	3637.95	---	---
	12/20/04	53.69	53.52	0.17	3638.58	---	---
	3/1/05	Start-up groundwater extraction system				---	---
	1/25/06	51.55	51.14	0.41	3640.93	---	---
	5/1/06	51.34	50.91	0.43	3641.16	---	---
	6/26/06	51.02	50.94	0.08	3641.17	---	---
	11/28/06	Absorbant sock installed in well				---	---
	12/18/06	51.15	50.75	0.40	3641.32	---	---
	1/12/07	50.89	50.63	0.26	3641.46	---	---
	1/15/07	50.20	---	---	3641.92	---	---
	2/2/07	50.72	---	---	3641.40	---	---
	2/9/07	50.60	---	---	3641.52	---	---
	2/23/07	50.54	---	---	3641.58	---	---
	3/2/07	50.60	---	---	3641.52	---	---
	3/8/07	50.61	---	---	3641.51	---	---
	3/16/07	50.69	---	---	3641.43	---	---
	3/23/07	50.67	---	---	3641.45	---	---
	3/28/07	50.54	---	---	3641.58	---	---
	4/4/07	50.66	---	---	3641.46	---	---
	4/12/07	50.62	---	---	3641.50	---	---
	4/19/07	50.61	---	---	3641.51	---	---
	4/25/07	50.80	---	---	3641.32	---	---
	5/1/07	50.80	---	---	3641.32	---	---
	5/8/07	50.73	---	---	3641.39	---	---
	5/23/07	50.74	---	---	3641.38	---	---
	5/29/07	50.70	---	---	3641.42	---	---
	6/5/07	50.68	---	---	3641.44	---	---
	6/14/07	50.66	---	---	3641.46	---	---
	6/20/07	50.72	---	---	3641.40	---	---
	6/26/07	50.63	---	---	3641.49	---	---
	7/2/07	50.59	---	---	3641.53	---	---
	7/13/07	50.60	---	---	3641.52	---	---
	7/20/07	50.61	---	---	3641.51	---	---
	7/27/07	50.65	---	---	3641.47	---	---
	8/14/07	50.83	---	---	3641.29	---	---
	8/22/07	50.96	---	---	3641.16	---	---
	9/4/07	50.88	---	---	3641.24	---	---
	9/13/07	50.49	---	---	3641.63	---	---
	9/17/07	50.92	---	---	3641.20	---	---
	9/27/07	51.00	---	---	3641.12	---	---
	10/4/07	50.92	---	---	3641.20	---	---
	10/11/07	50.87	---	---	3641.25	---	---
	11/2/07	50.79	---	---	3641.33	---	---
	11/16/07	50.65	---	---	3641.47	---	---

TABLE I
GROUNDWATER GAUGING SUMMARY
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
FORMER NEW MEXICO "F" STATE TANK BATTERY
LEA COUNTY, NEW MEXICO

Well ID TOC Elevation	Collection Date	Depth to Groundwater (ft TOC)	Depth to LNAPL (ft TOC)	LNAPL Thickness (ft)	Corrected Groundwater Elevation (ft above MSL)	Well Depth (ft TOC)	Well Screen Interval (ft bgs)
RW-2 3692.12	11/20/07	50.73	---	---	3641.39	---	---
	12/13/07	50.92	---	---	3641.20	---	---
	1/2/08	50.91	---	---	3641.21	---	---
	3/6/08	50.90	---	---	3641.22	---	---
	3/11/08	50.77	---	---	3641.35	---	---
	3/17/08	50.83	---	---	3641.29	---	---
	3/25/08	50.75	---	---	3641.37	---	---
	4/1/08	50.74	---	---	3641.38	---	---
	4/9/08	50.70	---	---	3641.42	---	---
	4/15/08	50.68	---	---	3641.44	---	---
	4/23/08	50.69	---	---	3641.43	---	---
	4/28/08	50.67	---	---	3641.45	---	---
	5/6/08	50.72	---	---	3641.40	---	---
	5/23/08	50.75	---	---	3641.37	---	---
	5/29/08	50.68	---	---	3641.44	---	---
	6/4/08	50.65	---	---	3641.47	---	---
	6/12/08	50.68	---	---	3641.44	---	---
	6/18/08	50.64	---	---	3641.48	---	---
	6/25/08	50.60	---	---	3641.52	---	---
	6/30/08	50.61	---	---	3641.51	---	---
	7/7/08	50.66	---	---	3641.46	---	---
	7/15/08	50.63	---	---	3641.49	---	---
	7/21/08	50.59	---	---	3641.53	---	---
	7/31/08	50.63	---	---	3641.49	---	---
	8/4/08	50.59	---	---	3641.53	---	---
	8/10/08	50.53	---	---	3641.59	---	---
	8/19/08	50.70	---	---	3641.42	---	---
	8/26/08	50.71	---	---	3641.41	---	---
	9/4/08	50.73	---	---	3641.39	---	---
	9/10/08	50.72	---	---	3641.40	---	---
	9/15/08	50.84	---	---	3641.28	---	---
	9/23/08	50.84	---	---	3641.28	---	---
	10/1/08	50.85	---	---	3641.27	---	---
	10/6/08	50.85	---	---	3641.27	---	---
	10/16/08	50.85	---	---	3641.27	---	---
	10/21/08	50.75	---	---	3641.37	---	---
	10/28/08	50.75	---	---	3641.37	---	---
	11/13/08	50.67	---	---	3641.45	---	---
	11/19/08	50.69	---	---	3641.43	---	---
	11/25/08	50.76	---	---	3641.36	---	---
	12/3/08	50.85	---	---	3641.27	---	---
	12/9/08	50.98	---	---	3641.14	---	---
	12/17/08	50.93	---	---	3641.19	---	---

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GROUNDWATER GAUGING SUMMARY
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FORMER NEW MEXICO "F" STATE TANK BATTERY
LEA COUNTY, NEW MEXICO

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RW-3 3690.86	10/14/99	45.82	---	---	3645.04	68.65	47 - 67
	11/3/99	52.82	---	---	3638.04	---	---
	2/16/01	52.88	---	---	3637.98	---	---
	6/11/02	52.91	---	---	3637.95	---	---
	11/26/02	53.22	53.15	0.07	3637.70	---	---
	6/5/03	54.56	54.40	0.16	3636.44	---	---
	12/3/03	53.23	---	---	3637.63	---	---
	7/1/04	53.19	52.98	0.21	3637.85	---	---
	12/20/04	52.50	52.09	0.41	3638.72	---	---
	3/1/05	Start-up groundwater extraction system				---	---
	1/25/06	50.71	---	---	3640.15	---	---
	5/1/06	50.49	---	---	3640.37	---	---
	6/26/06	50.50	---	---	3640.36	---	---
	11/28/06	Absorbant sock installed in well				---	---
	12/18/06	50.31	---	---	3640.55	---	---
	1/12/07	50.17	---	---	3640.69	---	---
	1/15/07	50.21	50.20	0.01	3640.66	---	---
	2/2/07	50.23	---	---	3640.63	---	---
	2/9/07	50.13	---	---	3640.73	---	---
	2/23/07	50.03	---	---	3640.83	---	---
	3/2/07	50.12	---	---	3640.74	---	---
	3/8/07	50.14	---	---	3640.72	---	---
	3/16/07	50.22	---	---	3640.64	---	---
	3/23/07	50.20	---	---	3640.66	---	---
	3/28/07	50.08	---	---	3640.78	---	---
	4/4/07	50.18	---	---	3640.68	---	---
	4/12/07	50.14	---	---	3640.72	---	---
	4/19/07	50.13	---	---	3640.73	---	---
	4/25/07	50.28	---	---	3640.58	---	---
	5/1/07	50.29	---	---	3640.57	---	---
	5/8/07	50.24	---	---	3640.62	---	---
	5/23/07	50.23	---	---	3640.63	---	---
	5/29/07	50.21	---	---	3640.65	---	---
	6/5/07	50.19	---	---	3640.67	---	---
	6/14/07	50.18	---	---	3640.68	---	---
	6/20/07	50.26	---	---	3640.60	---	---
	6/26/07	50.15	---	---	3640.71	---	---
	7/2/07	50.11	---	---	3640.75	---	---
	7/13/07	50.14	---	---	3640.72	---	---
	7/20/07	50.11	---	---	3640.75	---	---
	7/27/07	50.17	---	---	3640.69	---	---
	8/14/07	50.37	---	---	3640.49	---	---
	8/22/07	50.45	---	---	3640.41	---	---
	9/4/07	50.36	---	---	3640.50	---	---
	9/13/07	50.44	---	---	3640.42	---	---
	9/17/07	50.44	---	---	3640.42	---	---
	9/27/07	50.49	---	---	3640.37	---	---
	10/4/07	50.42	---	---	3640.44	---	---
	10/11/07	50.39	---	---	3640.47	---	---
	11/2/07	50.31	---	---	3640.55	---	---
	11/16/07	50.19	---	---	3640.67	---	---

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RW-3 3690.86	11/20/07	50.27	---	---	3640.59	---	---
	12/13/07	52.38	---	---	3638.48	---	---
	1/2/08	52.35	---	---	3638.51	---	---
	3/6/08	50.42	---	---	3640.44	---	---
	3/11/08	50.32	---	---	3640.54	---	---
	3/17/08	50.39	---	---	3640.47	---	---
	3/25/08	50.27	---	---	3640.59	---	---
	4/1/08	50.25	---	---	3640.61	---	---
	4/9/08	50.22	---	---	3640.64	---	---
	4/15/08	50.22	---	---	3640.64	---	---
	4/23/08	50.24	---	---	3640.62	---	---
	4/28/08	50.25	---	---	3640.61	---	---
	5/6/08	50.22	---	---	3640.64	---	---
	5/23/08	50.29	---	---	3640.57	---	---
	5/29/08	50.36	---	---	3640.50	---	---
	6/4/08	50.32	---	---	3640.54	---	---
	6/12/08	50.23	---	---	3640.63	---	---
	6/18/08	50.19	---	---	3640.67	---	---
	6/25/08	50.18	---	---	3640.68	---	---
	6/30/08	50.17	---	---	3640.69	---	---
	7/7/08	50.21	---	---	3640.65	---	---
	7/15/08	50.19	---	---	3640.67	---	---
	7/21/08	50.05	---	---	3640.81	---	---
	7/31/08	50.20	---	---	3640.66	---	---
	8/4/08	50.21	---	---	3640.65	---	---
	8/10/08	50.19	---	---	3640.67	---	---
	8/19/08	50.23	---	---	3640.63	---	---
	8/26/08	50.24	---	---	3640.62	---	---
	9/4/08	50.90	---	---	3639.96	---	---
	9/10/08	50.20	---	---	3640.66	---	---
	9/15/08	50.38	---	---	3640.48	---	---
	9/23/08	50.32	---	---	3640.54	---	---
	10/1/08	50.34	---	---	3640.52	---	---
	10/6/08	50.41	---	---	3640.45	---	---
	10/16/08	50.39	---	---	3640.47	---	---
	10/21/08	50.29	---	---	3640.57	---	---
	10/28/08	50.33	---	---	3640.53	---	---
	11/13/08	50.15	---	---	3640.71	---	---
	11/19/08	50.17	---	---	3640.69	---	---
	11/25/08	50.33	---	---	3640.53	---	---
	12/3/08	50.40	---	---	3640.46	---	---
	12/9/08	50.50	---	---	3640.36	---	---
	12/17/08	50.48	---	---	3640.38	---	---

TABLE I
GROUNDWATER GAUGING SUMMARY
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
FORMER NEW MEXICO "F" STATE TANK BATTERY
LEA COUNTY, NEW MEXICO

Well ID TOC Elevation	Collection Date	Depth to Groundwater (ft TOC)	Depth to LNAPL (ft TOC)	LNAPL Thickness (ft)	Corrected Groundwater Elevation (ft above MSL)	Well Depth (ft TOC)	Well Screen Interval (ft bgs)
WW-1 3704.17	6/11/02	66.35	---	---	3637.82	Unknown	Unknown
	6/5/03	68.25	---	---	3635.92	---	---
WW-2 3703.84	6/11/02	66.18	---	---	3637.66	Unknown	Unknown
	11/26/02	66.18	---	---	3637.66	---	---
	6/5/03	68.54	---	---	3635.30	---	---

Notes:

1. Data through June 6, 2005 provided by Larson & Associates, Inc.
2. TOC - Top of Casing.
3. MSL - Mean Sea Level.
4. bgs - Below ground surface.
5. Corrected groundwater elevations from July 1998 to December 2006 were calculated using LNAPL specific gravity of 0.88.
6. Corrected groundwater elevations from January 2007 to December 2007 were calculated using LNAPL specific gravity of 0.897.
7. MW-1, MW-2 and MW-9 were plugged and abandoned and replaced with RW-1, RW-2 and RW-3 in November 1999.
8. Monitor wells (MWs) are 2-inch in diameter; Recovery wells (RWs) are 4-inch in diameter.

TABLE II
GROUNDWATER ANALYTICAL SUMMARY
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
FORMER NEW MEXICO "F" STATE TANK BATTERY
LEA COUNTY, NEW MEXICO

Sample ID	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Chloride
New Mexico Water Quality Control Commission Groundwater Standard						
		0.01	0.75	0.75	0.62	250
MW-3	7/28/98	0.003	<0.001	<0.001	0.002	36.0
	2/16/01	<0.005	<0.005	<0.005	<0.005	31
	6/12/02	<0.005	<0.005	<0.005	<0.005	27.1
	11/26/03	<0.001	<0.001	<0.001	<0.001	31.9
	6/6/03	<0.001	<0.001	<0.001	<0.001	27.5
	12/4/03	<0.001	<0.001	<0.001	0.0017	26.1
	7/2/04	<0.005	<0.005	<0.005	<0.005	28.0
	12/21/04	<0.005	<0.005	<0.005	<0.005	32.3
	6/6/05	<0.00100	<0.00100	<0.00100	<0.00100	34.3
	12/13/05	<0.005	<0.005	<0.005	<0.010	29.3
	6/27/06	<0.000500	<0.000500	<0.000500	<0.001	31.1
	12/19/06	<0.005	<0.005	<0.005	<0.001	28.0
	6/27/07	<0.000500	<0.000500	<0.000500	<0.00100	31
	12/14/07	<0.000500	<0.000500	<0.000500	<0.00100	30.9
	6/5/08	<0.00037	<0.00039	<0.00042	<0.00035	29.5
DUP	11/14/08	<0.00037	<0.00039	<0.00042	<0.00035	32
	11/14/08	<0.00037	<0.00039	<0.00042	<0.00035	32
MW-4	7/28/98	<0.001	<0.001	<0.001	<0.001	94.0
	2/16/01	<0.005	<0.005	<0.005	0.008	170
	6/12/02	<0.005	<0.005	<0.005	<0.005	85.6
	11/26/03	0.002	<0.001	<0.001	<0.005	160.0
	6/6/03	<0.001	<0.001	<0.001	0.0026	111.0
	12/4/03	0.0015	<0.001	<0.001	<0.001	104.0
	7/2/04	<0.001	<0.001	<0.001	<0.001	72.4
	12/21/04	<0.005	<0.005	<0.005	<0.005	59.7
	6/6/05	<0.00100	<0.00100	<0.00100	<0.00100	58.4
	12/13/05	<0.005	<0.005	<0.005	<0.010	55.3
	6/27/06	0.000597	<0.000500	<0.000500	<0.001	48.8
	12/19/06	<0.005	<0.005	<0.005	<0.001	34.0
	6/27/07	<0.000500	<0.000500	<0.000500	<0.00100	39
	12/13/07	0.000968	<0.000500	<0.000500	0.00254	63.1
	6/5/08	<0.00037	<0.00039	<0.00042	<0.00035	61.0
	11/14/08	<0.00037	<0.00039	<0.00042	<0.00035	52
MW-5	7/28/98	<0.001	<0.001	<0.001	<0.001	360.0
	2/16/01	<0.005	<0.005	<0.005	<0.005	120
	6/12/02	<0.005	<0.005	<0.005	<0.005	90.2
	11/26/03	0.002	<0.001	0.003	<0.002	59.1
	6/6/03	<0.001	<0.001	<0.001	<0.001	48.6
	12/4/03	<0.001	<0.001	<0.001	<0.001	36.5
	7/2/04	<0.005	<0.005	<0.005	<0.005	32.9
	12/21/04	<0.005	<0.005	<0.005	<0.005	39.8
	6/6/05	<0.00100	<0.00100	<0.00100	<0.00100	41.1
	12/13/05	<0.005	<0.005	<0.005	<0.010	39.7
	6/27/06	<0.000500	<0.000500	<0.000500	<0.001	43.2
	12/19/06	<0.005	<0.005	<0.005	<0.001	51.0
	6/27/07	<0.000500	<0.000500	<0.000500	<0.00100	67
	12/14/07	<0.000500	<0.000500	<0.000500	<0.00100	101
	6/4/08	<0.00037	<0.00039	<0.00042	<0.00035	78.7
	11/14/08	<0.00037	<0.00039	<0.00042	<0.00035	100

TABLE II
GROUNDWATER ANALYTICAL SUMMARY
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
FORMER NEW MEXICO "F" STATE TANK BATTERY
LEA COUNTY, NEW MEXICO

Sample ID	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Chloride
New Mexico Water Quality Control Commission Groundwater Standard						
		0.01	0.75	0.75	0.62	250
MW-6	7/28/98	<0.001	<0.001	<0.001	<0.001	43.0
	2/16/01	<0.005	<0.005	0.006	0.006	52
	6/12/02	<0.001	<0.001	<0.001	<0.001	54.1
	11/26/03	<0.001	<0.001	<0.001	<0.002	65.0
	6/6/03	<0.001	<0.001	<0.001	<0.001	43.7
	12/4/03	<0.001	<0.001	<0.001	<0.001	45.3
	7/2/04	<0.001	<0.001	<0.001	<0.001	57.5
	12/21/04	<0.005	<0.005	<0.005	<0.005	61.3
	6/6/05	<0.00100	<0.00100	<0.00100	<0.00100	66.7
	12/13/05	<0.005	<0.005	<0.005	<0.010	80.9
	6/27/06	<0.000500	<0.000500	<0.000500	<0.001	86.4
	12/19/06	<0.005	<0.005	<0.005	<0.001	88.0
	3/16/07	<0.000500	<0.000500	<0.000500	<0.001	92.2
	6/27/07	<0.000500	<0.000500	<0.000500	<0.00100	110
	9/27/07	<0.000500	<0.000500	<0.000500	<0.00100	99.5
	12/14/07	<0.000500	<0.000500	<0.000500	<0.00100	99.2
	3/6/08	<0.000370	<0.000390	<0.000420	<0.000350	88.8
	6/4/08	<0.00037	<0.00039	<0.00042	<0.00035	117
	9/4/08	<0.00037	<0.00039	<0.00042	<0.00035	130
	11/14/08	<0.00037	<0.00039	<0.00042	<0.00035	130
MW-7	7/28/98	<0.001	<0.001	<0.001	<0.001	82.0
	2/16/01	<0.005	<0.005	<0.005	<0.005	150
	6/12/02	<0.005	<0.005	<0.005	<0.005	96.7
	11/26/03	<0.001	<0.001	<0.001	<0.002	133.0
	6/6/03	<0.001	<0.001	<0.001	<0.001	199.0
	12/4/03	<0.001	<0.001	<0.001	<0.001	230.0
	7/2/04	<0.001	<0.001	<0.001	<0.001	215.0
	12/21/04	<0.005	<0.005	<0.005	<0.005	274.0
	6/6/05	<0.00100	<0.00100	<0.00100	<0.00100	221.0
	12/13/05	<0.005	<0.005	<0.005	<0.010	204.0
	6/27/06	<0.000500	<0.000500	<0.000500	<0.001	158.0
	12/19/06	<0.005	<0.005	<0.005	<0.001	130.0
	6/27/07	<0.000500	<0.000500	<0.000500	<0.00100	110
	12/13/07	<0.000500	<0.000500	<0.000500	<0.00100	135
	6/5/08	<0.00037	<0.00039	<0.00042	<0.00035	72.4
	11/14/08	<0.00037	<0.00039	<0.00042	<0.00035	66
MW-8	7/28/98	<0.001	<0.001	<0.001	<0.001	29.0
	2/16/01	<0.005	<0.005	<0.005	<0.005	94
	6/12/02	<0.005	<0.005	<0.005	<0.005	180.0
	11/26/03	<0.001	<0.001	<0.001	<0.002	239.0
	6/6/03	<0.001	<0.001	<0.001	<0.001	244.0
	12/4/03	<0.001	<0.001	<0.001	<0.001	251.0
	7/2/04	<0.005	<0.005	<0.005	<0.005	206.0
	12/21/04	<0.005	<0.005	<0.005	<0.005	244.0
	6/6/05	<0.00100	<0.00100	<0.00100	<0.00100	227.0
	12/13/05	<0.005	<0.005	<0.005	<0.010	144.0
	6/27/06	<0.000500	<0.000500	<0.000500	<0.001	92.6
	12/19/06	<0.005	<0.005	<0.005	<0.001	83.0
	6/27/07	<0.000500	<0.000500	<0.000500	<0.00100	79
	12/13/07	<0.000500	<0.000500	<0.000500	<0.00100	82.9
	6/4/08	<0.00037	<0.00039	<0.00042	<0.00035	54.9
	11/14/08	<0.00037	<0.00039	<0.00042	<0.00035	47

TABLE II
GROUNDWATER ANALYTICAL SUMMARY
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
FORMER NEW MEXICO "F" STATE TANK BATTERY
LEA COUNTY, NEW MEXICO

Sample ID	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Chloride
New Mexico Water Quality Control Commission Groundwater Standard						
		0.01	0.75	0.75	0.62	250
WW-1	7/28/98	<0.001	<0.001	<0.001	<0.001	100.0
	6/12/02	<0.001	<0.001	<0.001	<0.001	43.6
	11/26/02	<0.001	<0.001	<0.001	<0.002	80.0
	6/6/03	<0.001	<0.001	<0.001	<0.001	73.4
	12/4/03	<0.001	<0.001	<0.001	<0.001	65.3
	7/2/04	<0.001	<0.001	<0.001	<0.001	66.5
	12/21/04	<0.005	<0.005	<0.005	<0.005	74.3
	6/6/05	<0.00100	<0.00100	<0.00100	<0.00100	63.4
	12/13/05	<0.005	<0.005	<0.005	<0.010	41.1
	6/27/06	<0.000500	<0.000500	<0.000500	<0.001	50.0
	12/19/06	<0.005	<0.005	<0.005	<0.001	80.0
	6/27/07	<0.000500	<0.000500	<0.000500	<0.00100	52
	12/14/07	<0.000500	<0.000500	<0.000500	<0.00100	59.8
	6/4/08	<0.00037	<0.00039	<0.00042	<0.00035	64.1
DUP	6/4/08	<0.00037	<0.00039	<0.00042	<0.00035	64.4
	11/14/08	<0.00037	<0.00039	<0.00042	<0.00035	73
WW-2	6/12/02	<0.001	<0.001	<0.001	<0.001	53.7
	11/26/02	<0.001	<0.001	<0.001	<0.002	70.9
	6/6/03	<0.001	<0.001	<0.001	<0.001	71.1
	12/4/03	<0.001	<0.001	<0.001	<0.001	52.4
	7/2/04	<0.001	<0.001	<0.001	<0.001	51.0
	12/21/04	<0.005	<0.005	<0.005	<0.005	55.6
	6/6/05	<0.00100	<0.00100	<0.00100	<0.00100	55.3
	12/13/05	<0.005	<0.005	<0.005	<0.010	75.3
	6/27/06	<0.000500	<0.000500	<0.000500	<0.001	69.7
	12/19/06	<0.005	<0.005	<0.005	<0.001	57.0
	6/27/07	<0.000500	<0.000500	<0.000500	<0.00100	46
	12/14/07	<0.000500	<0.000500	<0.000500	<0.00100	83.1
	6/4/08	<0.00037	<0.00039	<0.00042	<0.00035	65.9
	11/14/08	<0.00037	<0.00039	<0.00042	<0.00035	73
RW-1	6/5/08	0.0119	<0.0039	<0.0042	<0.0035	36.2
RW-2	6/27/07	0.00287	<0.0025	<0.00250	0.0303	60
	6/5/08	<0.0037	<0.0039	<0.0042	<0.0035	51.1
RW-3	6/11/02	<0.005	<0.005	<0.005	<0.005	25.9
	12/3/04	<0.001	<0.001	<0.001	<0.001	36.6
	6/27/07	0.00855	<0.00250	0.0122	0.0270	130
	6/5/08	<0.0037	<0.0039	<0.0042	0.0129	90.6

Notes:

1. Result shown in mg/L.
2. Data through June 6, 2005 provided by Larson & Associates, Inc.
3. Bold indicates detection above method detection limit.
4. Shaded cells indicate New Mexico Water Quality Control Commission (NMWQCC) exceedance.

ANALYTICAL REPORT

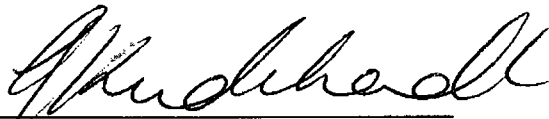
JOB NUMBER: 351184
Project ID: NM F STATE

Prepared For:

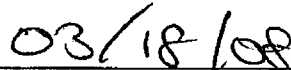
Conestoga-Rovers and Associates
2135 S. Loop 250 West
Midland, TX 79703

Attention: Todd Wells

Date: 03/18/2008



Signature



Date

Name: Sachin G. Kudchadkar

Title: Project Manager III

E-Mail: sachin.kudchadkar@testamericainc.com

TestAmerica Laboratories, Inc
6310 Rothway Drive
Houston, TX 77040

PHONE: 713-690-4444

TOTAL NO. OF PAGES

18

SAMPLE INFORMATION

Date: 03/18/2008

Job Number.: 351184

Customer...: Conestoga-Rovers and Associates

Attn.....: Todd Wells

Project Number.....: 99007835

Customer Project ID....: NM F STATE

Project Description....: NM F State

Laboratory Sample ID	Customer Sample ID	Sample Matrix	Date Sampled	Time Sampled	Date Received	Time Received
351184-1	MW-6	Water	03/06/2008	12:30	03/12/2008	09:12

Date: 03/18/2008

Job Number: 351184

CUSTOMER: Conestoga-Rovers and Associates

PROJECT: NM F STATE

ATTN: Todd Wells

Customer Sample ID: MW-6
Date Sampled.....: 03/06/2008
Time Sampled.....: 12:30
Sample Matrix.....: Water

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
M-846 8021B	GC Volatile Organics	0.37	U	0.37	1.00	1.0000	ug/L	195872		03/13/08 1654	mht
	Benzene, Water	0.39	U	0.39	1.00	1.0000	ug/L	195872		03/13/08 1654	mht
	Toluene, Water	0.42	U	0.42	1.00	1.0000	ug/L	195872		03/13/08 1654	mht
	Ethylbenzene, Water	0.35	U	0.35	3.00	1.0000	ug/L	195872		03/13/08 1654	mht
	Xylenes (total), Water										
EPA 300.0	Ion Chromatography Analysis Chloride, Water	88.8		1.5	5.0	10	mg/L	195625		03/12/08 1925	sur

QUALITY CONTROL RESULTS

Job Number.: 351184

Report Date.: 03/18/2008

CUSTOMER: Conestoga-Rovers and Associates

PROJECT: NM F STATE

ATTN: Todd Wells

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
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Test Method.....: SW-846 8021B

Units.....: ug/L

Analyst....: mht

Method Description.: GC Volatile Organics

Batch(s)....: 195872

LCS	Laboratory Control Sample	BXS030308B	195872-1		03/13/2008	1100
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Methyl tert-Butyl ether, Water	56.7396		50.000000		113.5		76-123	
Benzene, Water	50.8372		50.000000		101.7		72-134	
Toluene, Water	50.0202		50.000000		100.0		76-131	
Ethylbenzene, Water	48.7265		50.000000		97.5		75-131	
m,p-Xylene, Water	99.6225		100.000000		99.6		75-130	
o-Xylene, Water	49.3907		50.000000		98.8		74-129	
Xylenes (total), Water	152.5062		150.000000		101.7		70-130	
Total BTEX, Water	304.4532		300.000000		101.5		70-130	
Tert-Butyl Methyl Ether Column B, Water	47.4685		50.000000		94.9		76-123	
Benzene Column B, Water	49.7640		50.000000		99.5		72-134	
Toluene Column B, Water	51.1140		50.000000		102.2		76-131	
Ethylbenzene Column B, Water	49.9958		50.000000		100.0		75-131	
m,p-Xylene Column B, Water	101.213		100.000000		101.2		75-130	
o-Xylene Column B, Water	51.2932		50.000000		102.6		74-129	

LCS	Laboratory Control Sample	BXS030308B	195872-2		03/13/2008	2356
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Methyl tert-Butyl ether, Water	57.6808		50.000000		115.4		76-123	
Benzene, Water	47.6197		50.000000		95.2		72-134	
Toluene, Water	45.7468		50.000000		91.5		76-131	
Ethylbenzene, Water	41.7313		50.000000		83.5		75-131	
m,p-Xylene, Water	93.3938		100.000000		93.4		75-130	
o-Xylene, Water	45.5969		50.000000		91.2		74-129	
Xylenes (total), Water	138.9907		150.000000		92.7		70-130	
Total BTEX, Water	276.4859		300.000000		92.2		70-130	
Tert-Butyl Methyl Ether Column B, Water	52.0968		50.000000		104.2		76-123	
Benzene Column B, Water	46.7335		50.000000		93.5		72-134	
Toluene Column B, Water	45.2406		50.000000		90.5		76-131	
Ethylbenzene Column B, Water	44.1287		50.000000		88.3		75-131	
m,p-Xylene Column B, Water	90.3578		100.000000		90.4		75-130	
o-Xylene Column B, Water	45.0187		50.000000		90.0		74-129	

MB	Method Blank		195872-1		03/13/2008	1221
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Methyl tert-Butyl ether, Water	ND							
Benzene, Water	ND							
Toluene, Water	ND							
Ethylbenzene, Water	ND							
m,p-Xylene, Water	ND							
o-Xylene, Water	ND							
Xylenes (total), Water	0.0000							
Total BTEX, Water	0.0000							
Tert-Butyl Methyl Ether Column B, Water	ND							
Benzene Column B, Water	ND							

Job Number.: 351184

QUALITY CONTROL RESULTS

Report Date.: 03/18/2008

CUSTOMER: Conestoga-Rovers and Associates

PROJECT: NM F STATE

ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
MB	Method Blank		195872-1		03/13/2008	1221

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Toluene Column B, Water	ND						
Ethylbenzene Column B, Water	ND						
m,p-Xylene Column B, Water	ND						
o-Xylene Column B, Water	ND						

MB	Method Blank		195872-2		03/14/2008	0016
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Methyl tert-Butyl ether, Water	ND						
Benzene, Water	ND						
Toluene, Water	ND						
Ethylbenzene, Water	ND						
m,p-Xylene, Water	ND						
o-Xylene, Water	ND						
Xylenes (total), Water	0.0000						
Total BTEX, Water	0.0000						
Tert-Butyl Methyl Ether Column B, Water	ND						
Benzene Column B, Water	ND						
Toluene Column B, Water	ND						
Ethylbenzene Column B, Water	ND						
m,p-Xylene Column B, Water	ND						
o-Xylene Column B, Water	ND						

MS	Matrix Spike	BXS030308A	351057-1		03/13/2008	1734
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Methyl tert-Butyl ether, Water	40.2705		50.000000	ND	81	70-130	
Benzene, Water	45.0368		50.000000	ND	90	70-130	
Toluene, Water	44.0402		50.000000	ND	88	70-130	
Ethylbenzene, Water	42.5602		50.000000	ND	85	70-130	
m,p-Xylene, Water	87.9579		100.000000	ND	88	70-130	
o-Xylene, Water	44.4874		50.000000	ND	89	70-130	
Xylenes (total), Water	132.4453		150.000000	0.0000	88	70-130	
Total BTEX, Water	264.2206		300.000000	0.0000	88	70-130	
Tert-Butyl Methyl Ether Column B, Water	47.1122		50.000000	ND	94	70-130	
Benzene Column B, Water	44.0428		50.000000	ND	88	70-130	
Toluene Column B, Water	43.5263		50.000000	ND	87	70-130	
Ethylbenzene Column B, Water	42.6983		50.000000	ND	85	70-130	
m,p-Xylene Column B, Water	85.7569		100.000000	ND	86	70-130	
o-Xylene Column B, Water	43.5141		50.000000	ND	87	70-130	

MS	Matrix Spike	BXS030308A	351245-15		03/14/2008	0036
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Methyl tert-Butyl ether, Water	54.5705		50.000000	ND	109	70-130	
Benzene, Water	48.8334		50.000000	ND	98	70-130	
Toluene, Water	47.3701		50.000000	ND	95	70-130	
Ethylbenzene, Water	44.5036		50.000000	ND	89	70-130	

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

Job Number.: 351184

Report Date.: 03/18/2008

CUSTOMER: Conestoga-Rovers and Associates

PROJECT: NM F STATE

ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
MS	Matrix Spike	BXS030308A	351245-15		03/14/2008	0036

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
m,p-Xylene, Water	95.9658		100.000000	ND	96	70-130	
o-Xylene, Water	46.4686		50.000000	ND	93	70-130	
Xylenes (total), Water	142.9494		150.000000	0.0000	95	70-130	
Total BTEX, Water	285.4081		300.000000	0.0000	95	70-130	
Tert-Butyl Methyl Ether Column B, Water	49.5712		50.000000	ND	99	70-130	
Benzene Column B, Water	47.5684		50.000000	ND	95	70-130	
Toluene Column B, Water	46.8849		50.000000	ND	94	70-130	
Ethylbenzene Column B, Water	46.2552		50.000000	ND	93	70-130	
m,p-Xylene Column B, Water	94.1498		100.000000	ND	94	70-130	
o-Xylene Column B, Water	46.9836		50.000000	ND	94	70-130	

MSD	Matrix Spike Duplicate	BXS030308A	351057-1			03/13/2008	1754
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Methyl tert-Butyl ether, Water	53.2442	40.2705	50.000000	ND	106 27.7	70-130 20.0	r
Benzene, Water	48.1240	45.0368	50.000000	ND	96 6.6	70-130 20.0	
Toluene, Water	47.4418	44.0402	50.000000	ND	95 7.4	70-130 20.0	
Ethylbenzene, Water	46.2261	42.5602	50.000000	ND	92 8.3	70-130 20.0	
m,p-Xylene, Water	94.9128	87.9579	100.000000	ND	95 7.6	70-130 20.0	
o-Xylene, Water	47.3225	44.4874	50.000000	ND	95 6.2	70-130 20.0	
Xylenes (total), Water	143.8032	132.4453	150.000000	0.0000	96 8.2	70-130 20.0	
Total BTEX, Water	287.5778	264.2206	300.000000	0.0000	96 8.5	70-130 20.0	
Tert-Butyl Methyl Ether Column B, Water	50.2009	47.1122	50.000000	ND	100 6.3	70-130 20.0	
Benzene Column B, Water	47.8029	44.0428	50.000000	ND	96 8.2	70-130 20.0	
Toluene Column B, Water	47.8924	43.5263	50.000000	ND	96 9.6	70-130 20.0	
Ethylbenzene Column B, Water	47.7582	42.6983	50.000000	ND	96 11.2	70-130 20.0	
m,p-Xylene Column B, Water	95.5917	85.7569	100.000000	ND	96 10.8	70-130 20.0	
o-Xylene Column B, Water	48.2115	43.5141	50.000000	ND	96 10.2	70-130 20.0	

MSD	Matrix Spike Duplicate	BXS030308A	351245-16			03/14/2008	0056
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Methyl tert-Butyl ether, Water	57.6311	54.5705	50.000000	ND	115 5.5	70-130 20.0	
Benzene, Water	49.3972	48.8334	50.000000	ND	99 1.1	70-130 20.0	

Job Number.: 351184

QUALITY CONTROL RESULTS

Report Date.: 03/18/2008

CUSTOMER: Conestoga-Rovers and Associates

PROJECT: NM F STATE

ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
MSD	Matrix Spike Duplicate	BXS030308A	351245-16		03/14/2008	0056

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Toluene, Water	47.9773	47.3701	50.000000	ND	96		70-130	
					1.3		20.0	
Ethylbenzene, Water	44.6060	44.5036	50.000000	ND	89		70-130	
					0.2		20.0	
m,p-Xylene, Water	98.6693	95.9658	100.000000	ND	99		70-130	
					2.8		20.0	
o-Xylene, Water	48.4614	46.4686	50.000000	ND	97		70-130	
					4.2		20.0	
Xylenes (total), Water	147.1307	142.9494	150.000000	0.0000	98		70-130	
					2.9		20.0	
Total BTEX, Water	291.2918	285.4081	300.000000	0.0000	97		70-130	
					2.0		20.0	
Tert-Butyl Methyl Ether Column B, Water	50.1092	49.5712	50.000000	ND	100		70-130	
					1.1		20.0	
Benzene Column B, Water	48.0618	47.5684	50.000000	ND	96		70-130	
					1.0		20.0	
Toluene Column B, Water	47.4435	46.8849	50.000000	ND	95		70-130	
					1.2		20.0	
Ethylbenzene Column B, Water	46.7866	46.2552	50.000000	ND	94		70-130	
					1.1		20.0	
m,p-Xylene Column B, Water	95.3712	94.1498	100.000000	ND	95		70-130	
					1.3		20.0	
o-Xylene Column B, Water	47.5931	46.9836	50.000000	ND	95		70-130	
					1.3		20.0	

Test Method.....: EPA 300.0

Units.....: mg/L

Analyst....: sur

Method Description.: Ion Chromatography Analysis

Batch(s)....: 195625

CCB	Continuing Calibration Blank					03/12/2008	1956
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br)	0							
Chloride	0							
Fluoride (F)	0							
Nitrogen, Nitrate as N (NO3-N)	0							
Sulfate (SO4)	0							
Nitrogen, Nitrite as N (NO2-N)	0							
Nitrate + Nitrite as N	0.000							

CCB	Continuing Calibration Blank					03/12/2008	2304
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br)	0							
Chloride	0							
Fluoride (F)	0.2081							
Nitrogen, Nitrate as N (NO3-N)	0							
Sulfate (SO4)	0							
Nitrogen, Nitrite as N (NO2-N)	0							
Nitrate + Nitrite as N	0.000							

QUALITY CONTROL RESULTS

Job Number.: 351184

Report Date.: 03/18/2008

CUSTOMER: Conestoga-Rovers and Associates

PROJECT: NM F STATE

ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
CCB	Continuing Calibration Blank				03/13/2008	0108

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Bromide (Br)	0						
Chloride	0						
Fluoride (F)	0.1919						
Nitrogen, Nitrate as N (NO3-N)	0						
Sulfate (SO4)	0						
Nitrogen, Nitrite as N (NO2-N)	0						
Nitrate + Nitrite as N	0.000						

CCV	Continuing Calibration Verification	WCS48345				03/12/2008	1941
Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Bromide (Br)	20.357		20.00		101.8	90.0-110.0	
Chloride	20.466		20.00		102.3	90.0-110.0	
Fluoride (F)	9.8895		10.00		98.9	90.0-110.0	
Nitrogen, Nitrate as N (NO3-N)	10.585		10.0		105.8	90.0-110.0	
Sulfate (SO4)	20.416		20.00		102.1	90.0-110.0	
Nitrogen, Nitrite as N (NO2-N)	9.7826		10.0		97.8	90.0-110.0	

CCV	Continuing Calibration Verification	WCS48345				03/12/2008	2248
Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Bromide (Br)	20.480		20.00		102.4	90.0-110.0	
Chloride	20.515		20.00		102.6	90.0-110.0	
Fluoride (F)	9.8956		10.00		99.0	90.0-110.0	
Nitrogen, Nitrate as N (NO3-N)	10.703		10.0		107.0	90.0-110.0	
Sulfate (SO4)	20.667		20.00		103.3	90.0-110.0	
Nitrogen, Nitrite as N (NO2-N)	9.7977		10.0		98.0	90.0-110.0	

CCV	Continuing Calibration Verification	WCS48345				03/13/2008	0053
Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Bromide (Br)	20.593		20.00		103.0	90.0-110.0	
Chloride	20.600		20.00		103.0	90.0-110.0	
Fluoride (F)	10.403		10.00		104.0	90.0-110.0	
Nitrogen, Nitrate as N (NO3-N)	10.658		10.0		106.6	90.0-110.0	
Sulfate (SO4)	20.318		20.00		101.6	90.0-110.0	
Nitrogen, Nitrite as N (NO2-N)	9.8252		10.0		98.3	90.0-110.0	

DU	Method Duplicate		351226-1	10		03/12/2008	2217
Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Bromide (Br), Water	0			0	0	1	
Chloride, Water	20.737			20.946	1.0	20	
Fluoride (F), Water	0.2206			0.1912	0.0294	0.3000	
Nitrogen, Nitrate as N (NO3-N), Water	0			0	0	0	
Sulfate (SO4), Water	28.329			28.510	0.6	20	

Job Number.: 351184

QUALITY CONTROL RESULTS

Report Date.: 03/18/2008

CUSTOMER: Conestoga-Rovers and Associates

PROJECT: NM F STATE

ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
DU	Method Duplicate		351226-1	10	03/12/2008	2217

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Nitrogen, Nitrite as N (NO2-N), Water	0			0	0	0	
Nitrate + Nitrite as N, Water	0.000			0.000	0.000	0.400	

DU	Method Duplicate		351229-1	10	03/12/2008	2350
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Bromide (Br), Water	0.0805			0.0653	0.0152	0.6000	
Chloride, Water	21.118			21.130	0.1	20	
Fluoride (F), Water	0.2007			0.2000	0.0007	0.3000	
Nitrogen, Nitrate as N (NO3-N), Water	0			0	0	0	
Sulfate (SO4), Water	28.815			28.938	0.4	20	
Nitrogen, Nitrite as N (NO2-N), Water	0			0	0	0	
Nitrate + Nitrite as N, Water	0.000			0.000	0.000	0.400	

ICB	Initial Calibration Blank				03/12/2008	1649
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Bromide (Br)	0						
Chloride	0						
Fluoride (F)	0						
Nitrogen, Nitrate as N (NO3-N)	0						
Sulfate (SO4)	0						
Nitrogen, Nitrite as N (NO2-N)	0						
Nitrate + Nitrite as N	0.000						

ICV	Initial Calibration Verification	WCS48345			03/12/2008	1634
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Bromide (Br)	19.745		20.00		98.7	90.0-110.0	
Chloride	19.843		20.00		99.2	90.0-110.0	
Fluoride (F)	9.2220		10.00		92.2	90.0-110.0	
Nitrogen, Nitrate as N (NO3-N)	10.288		10.0		102.9	90.0-110.0	
Sulfate (SO4)	19.740		20.00		98.7	90.0-110.0	
Nitrogen, Nitrite as N (NO2-N)	9.4498		10.0		94.5	90.0-110.0	

LCS	Laboratory Control Sample	WCS48345			03/12/2008	1720
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Bromide (Br)	20.412		20.00		102.1	90.0-110.0	
Chloride	20.481		20.00		102.4	90.0-110.0	
Fluoride (F)	9.5418		10.00		95.4	90.0-110.0	
Nitrogen, Nitrate as N (NO3-N)	10.662		10.0		106.6	90.0-110.0	
Sulfate (SO4)	20.771		20.00		103.9	90.0-110.0	
Nitrogen, Nitrite as N (NO2-N)	9.8204		10.0		98.2	90.0-110.0	

QUALITY CONTROL RESULTS

Job Number.: 351184

Report Date.: 03/18/2008

CUSTOMER: Conestoga-Rovers and Associates

PROJECT: NM F STATE

ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
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MB	Method Blank				03/12/2008	1705
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Bromide (Br)	0						
Chloride	0						
Fluoride (F)	0						
Nitrogen, Nitrate as N (NO3-N)	0						
Sulfate (SO4)	0						
Nitrogen, Nitrite as N (NO2-N)	0						
Nitrate + Nitrite as N	0.000						

MS	Matrix Spike	WCS47724	351226-1	10		03/12/2008	2233
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Bromide (Br), Water	9.7280		10.000000	0	97.3	90-110	
Chloride, Water	30.586		10.000000	20.946	96.4	90-110	
Fluoride (F), Water	1.6201		2.000000	0.1912	71.4	90-110	A
Nitrogen, Nitrate as N (NO3-N), Water	1.9815		2.000000	0	99.1	90-110	
Sulfate (SO4), Water	37.103		10.000000	28.510	85.9	90-110	A
Nitrogen, Nitrite as N (NO2-N), Water	1.8747		2.000000	0	93.7	90-110	
Nitrate + Nitrite as N, Water	3.856		0.000000	0.000			

MS	Matrix Spike	WCS47724	351229-1	10		03/13/2008	0006
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Bromide (Br), Water	9.7507		10.000000	0.0653	96.9	90-110	
Chloride, Water	30.454		10.000000	21.130	93.2	90-110	
Fluoride (F), Water	1.6713		2.000000	0.2000	73.6	90-110	A
Nitrogen, Nitrate as N (NO3-N), Water	1.9507		2.000000	0	97.5	90-110	
Sulfate (SO4), Water	36.978		10.000000	28.938	80.4	90-110	A
Nitrogen, Nitrite as N (NO2-N), Water	1.8292		2.000000	0	91.5	90-110	
Nitrate + Nitrite as N, Water	3.780		0.000000	0.000			

SURROGATE RECOVERIES REPORT

Job Number.: 351184

Report Date.: 03/18/2008

CUSTOMER: Conestoga-Rovers and Associates

PROJECT: NM F STATE

ATTN: Todd Wells

Method.....: GC Volatile Organics
Batch(s).....: 195872

Method Code...: 8021
Test Matrix...: Water

Prep Batch....:
Equipment Code: BTEX02

Lab ID	DT	Sample ID	Date	ATFT	ATFTB	BFB	BFBB
195872-	1	LCS	03/13/2008	101.2	100.0	103.5	106.3
195872-	1	MB	03/13/2008	105.8	106.3	113.6	110.8
195872-	2	LCS	03/13/2008	89.1	88.2	92.1	87.6
195872-	2	MB	03/14/2008	92.8	92.7	94.4	91.0
351057-	1	MS	03/13/2008	88.9	89.0	91.5	86.3
351057-	1	MSD	03/13/2008	89.3	89.7	89.5	88.3
351184-	1	MW-6	03/13/2008	92.0	92.3	92.6	90.5
351245-	15	MS	03/14/2008	89.1	88.0	87.6	87.6
351245-	16	MSD	03/14/2008	87.2	86.6	90.3	85.7

Test	Test Description	Limits
ATFT	a,a,a-Trifluorotoluene	70 - 135
ATFTB	a,a,a-Trifluorotoluene Column B	70 - 135
BFB	BFB (Surrogate)	64 - 136
BFBB	BFB (Surrogate) Column B	64 - 136

QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 03/18/2008

REPORT COMMENTS

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

General Information:

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

Explanation of Qualifiers:

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

Explanation of General QC Outliers:

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

QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 03/18/2008

observed above the RL in the associated samples.

- G - Marginal outlier within 1% of acceptance criteria.
- r - RPD value is outside method acceptance criteria.
- C - Poor RPD values observed due to the non-homogenous nature of the sample.
- O - Sample required dilution due to matrix interference.
- D - Sample reported from a dilution.
- d - Spike and/or surrogate diluted.
- E - The reported concentration exceeds the instrument calibration.
- F - The analyte is outside QC limits and was not detected in any associated samples in the analytical batch.
- H - Continuing Calibration Verification (CCV) standard is not associated with the samples reported.
- q - See the subcontract final report for qualifier explanation.
- W - The MS/MSD recoveries are outside QC acceptance criteria because the amount spiked is much less than the amount found in the sample.
- K - High recovery will not affect the quality of reported results.
- Z - See case narrative.

Explanation of Organic QC Outliers:

- e - Method blank analysis yielded phthalate concentrations above the RL. Phthalates are recognized potential laboratory contaminants. Its presence in the sample up to five times the amount reported in the blank may be attributed to laboratory contamination.
- S - Sample reanalyzed/reextracted due to poor surrogate recovery. Reanalysis confirmed original analysis indicating a possible matrix interference.
- T - Sample analysis yielded poor surrogate recovery.
- R - The RPD between the two GC columns is greater than 40% and no anomalies are present. The higher result is reported as per EPA Method 8000B.
- I - The RPD between the two GC columns is greater than 40% and anomalies are present. The lower of the two results has been reported.
- X - Gaseous compound. In-house QC limits are advisory.
- Y - Ketone compounds have poor purge efficiency. In-house QC limits are advisory.
- f - Surrogate not associated with reported analytes.

Explanation of Inorganic QC Outliers:

- Q - Method blank analysis yielded target analytes above the RL. Associated sample results are greater than 10 times the concentrations observed in the method blank.
- V - The RPD control limit for sample results less than 5 times the RL is +/- the RL value. Sample and duplicate results are within method acceptance criteria.
- e - Serial dilution failed due to matrix interference.
- g - Sample result quantitated by Method of Standard Additions (MSA) due to the analytical spike recovery being below 85 percent. The correlation coefficient for the MSA is greater than or equal to 0.995.
- s - BOD/CBOD seed value is not within method acceptance criteria. Due to the nature of the test method, the sample cannot be reanalyzed.
- l - BOD/CBOD LCS value is not within method acceptance criteria. Due to the nature of the test method, sample cannot be reanalyzed.
- N - Spiked sample recovery is not within control limits.
- n - Sample result quantitated by Method of Standard Additions (MSA) due to the analytical spike recovery being below 85 percent. The correlation coefficient for the MSA is less than 0.995.
- * - Duplicate analysis is not within control limits.

Abbreviations:

- Batch - Designation given to identify a specific extraction, digestion, preparation, or analysis set.
- CCV - Continuing Calibration Verification
- CRA - Low level standard check - GFAA, Mercury
- CRI - Low level standard check - ICP
- Dil Fac - Dilution Factor - Secondary dilution analysis

QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 03/18/2008

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

Method References:

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

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

Job Number: 351184

Date: 03/18/2008

CUSTOMER: Conestoga-Rovers and Associates

PROJECT: NM F STATE

ATTN: Todd Wells

Lab ID: 351184-1	Client ID: MW-6	Date Recvd: 03/12/2008	Sample Date: 03/06/2008
METHOD	DESCRIPTION	RUN#	BATCH#
SW-846 8021B	GC Volatile Organics	1	195872
EPA 300.0	Ion Chromatography Analysis	1	195625
		PREP BT # (S)	DATE/TIME ANALYZED
			1654
			03/12/2008
			1925
			DILUTION
			1.0000
			10

Phone: 615-726-0177
Fax: 615-726-3404

**To assist us in using the proper analytical methods,
is this work being conducted for regulatory purposes?
Compliance Monitoring**

Client Name

Client #:

Address:

Address: 2135 S. Loop 250 West

City/State/Zip Code:

Zip Code: Midland, TX 79703

Project Manager:

5/19/99

Telephone Number:

Fax: (432) 686-0188

Sampler Name: (Print Name)

road wells

Sampler Signature:

Finckh

Project Name: MM F State

Project #: 039122

Site/Location ID: Lea County

Report To: Todd Wells

Invoice To: Any Order

Quote #:

POW: 401413

[illegible]

ANALYTICAL REPORT

JOB NUMBER: 355324

Project ID: F STATE NM 039122

Prepared For:

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

Attention: Todd Wells

Date: 06/18/2008



Signature

06/18/08

Date

Name: Sachin G. Kudchadkar

Title: Project Manager III

E-Mail: sachin.kudchadkar@testamericainc.com

TestAmerica Laboratories, Inc
6310 Rothway Drive
Houston, TX 77040

PHONE: 713-690-4444

TOTAL NO. OF PAGES 18

SAMPLE INFORMATION

Date: 06/18/2008

Job Number.: 355324

Customer.... Conestoga-Rovers and Associates

Attn..... Todd Wells

Project Number.....: 99007835

Customer Project ID.....: F STATE NM 039122

Project Description.....: Analytical

Laboratory Sample ID	Customer Sample ID	Sample Matrix	Date Sampled	Time Sampled	Date Received	Time Received
355324-1	RW-1 6508	Water	06/05/2008	15:40	06/10/2008	09:35

Date: 06/18/2008

Job Number: 355324

CUSTOMER: Conestoga-Rovers and Associates

PROJECT: F-STATE NM 039122

ATTN: Todd Wells

Customer Sample ID: RW-1 6508
Date Sampled.....: 06/05/2008
Time Sampled.....: 15:40
Sample Matrix.....: Water

Laboratory Sample ID: 355324-1
Date Received.....: 06/10/2008
Time Received.....: 09:35

[illegible]

QUALITY CONTROL RESULTS

Job Number.: 355324

Report Date.: 06/18/2008

CUSTOMER: Conestoga-Rovers and Associates

PROJECT: F STATE NM 039122

ATTN: Todd Wells

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
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Test Method.....: SW-846 8021B

Units.....: ug/L

Analyst....: mht

Method Description.: GC Volatile Organics

Batch(s)....: 400272

LCS	Laboratory Control Sample	BXS060308B			06/10/2008	1232
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Benzene, Water	52.9071		50.000000		105.8	72-134	
Toluene, Water	52.0171		50.000000		104.0	76-131	
Ethylbenzene, Water	56.1908		50.000000		112.4	75-131	
m,p-Xylene, Water	106.131		100.000000		106.1	75-130	
o-Xylene, Water	53.0635		50.000000		106.1	74-129	
Xylenes (total), Water	163.4023		150.000000		108.9	70-130	
Total BTEX, Water	327.2999		300.000000		109.1	70-130	
Tert-Butyl Methyl Ether Column B, Water	49.9440		50.000000		99.9	76-123	
Benzene Column B, Water	54.0116		50.000000		108.0	72-134	
Toluene Column B, Water	53.6952		50.000000		107.4	76-131	
Ethylbenzene Column B, Water	54.8998		50.000000		109.8	75-131	
m,p-Xylene Column B, Water	109.039		100.000000		109.0	75-130	
o-Xylene Column B, Water	54.3633		50.000000		108.7	74-129	

MB	Method Blank				06/10/2008	1252
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Benzene, Water	ND						
Toluene, Water	ND						
Ethylbenzene, Water	ND						
m,p-Xylene, Water	ND						
o-Xylene, Water	ND						
Xylenes (total), Water	0.0000						
Total BTEX, Water	0.0000						
Tert-Butyl Methyl Ether Column B, Water	ND						
Benzene Column B, Water	ND						
Toluene Column B, Water	ND						
Ethylbenzene Column B, Water	ND						
m,p-Xylene Column B, Water	ND						
o-Xylene Column B, Water	ND						

MS	Matrix Spike	BXS060308A	355325-1		06/10/2008	1611
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Benzene, Water	55.4717		50.000000	ND	111	70-130	
Toluene, Water	54.0173		50.000000	ND	108	70-130	
Ethylbenzene, Water	55.4617		50.000000	ND	111	70-130	
m,p-Xylene, Water	113.114		100.000000	ND	113	70-130	
o-Xylene, Water	54.8266		50.000000	ND	110	70-130	
Xylenes (total), Water	167.9406		150.000000	0.0000	112	70-130	
Total BTEX, Water	333.4209		300.000000	0.0000	111	70-130	
Tert-Butyl Methyl Ether Column B, Water	51.0632		50.000000	ND	102	70-130	
Benzene Column B, Water	54.9772		50.000000	ND	110	70-130	
Toluene Column B, Water	54.5469		50.000000	ND	109	70-130	
Ethylbenzene Column B, Water	54.3438		50.000000	ND	109	70-130	
m,p-Xylene Column B, Water	109.221		100.000000	ND	109	70-130	

QUALITY CONTROL RESULTS

Job Number.: 355324

Report Date.: 06/18/2008

CUSTOMER: Conestoga-Rovers and Associates

PROJECT: F STATE NM 039122

ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
MS	Matrix Spike	BXS060308A	355325-1		06/10/2008	1611

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
o-Xylene Column B, Water	54.0067		50.000000	ND	108	70-130	

MSD	Matrix Spike Duplicate	BXS060308A	355325-1		06/10/2008	1631
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Benzene, Water	59.0558	55.4717	50.000000	ND	118	70-130	
					6.3	20.0	
Toluene, Water	57.6884	54.0173	50.000000	ND	115	70-130	
					6.6	20.0	
Ethylbenzene, Water	60.4241	55.4617	50.000000	ND	121	70-130	
					8.6	20.0	
m,p-Xylene, Water	121.070	113.114	100.000000	ND	121	70-130	
					6.8	20.0	
o-Xylene, Water	58.9331	54.8266	50.000000	ND	118	70-130	
					7.2	20.0	
Xylenes (total), Water	180.0031	167.9406	150.000000	0.0000	120	70-130	
					6.9	20.0	
Total BTEX, Water	357.2998	333.4209	300.000000	0.0000	119	70-130	
					6.9	20.0	
Tert-Butyl Methyl Ether Column B, Water	52.2327	51.0632	50.000000	ND	104	70-130	
					2.3	20.0	
Benzene Column B, Water	57.8776	54.9772	50.000000	ND	116	70-130	
					5.1	20.0	
Toluene Column B, Water	57.8168	54.5469	50.000000	ND	116	70-130	
					5.8	20.0	
Ethylbenzene Column B, Water	57.9580	54.3438	50.000000	ND	116	70-130	
					6.4	20.0	
m,p-Xylene Column B, Water	115.181	109.221	100.000000	ND	115	70-130	
					5.3	20.0	
o-Xylene Column B, Water	56.9046	54.0067	50.000000	ND	114	70-130	
					5.2	20.0	

Test Method.....: EPA 300.0

Units.....: mg/L

Analyst....: sur

Method Description.: Ion Chromatography Analysis

Batch(s)....: 200312

CCB	Continuing Calibration Blank				06/10/2008	1716
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Bromide (Br)	0						
Chloride	0						
Fluoride (F)	0						
Nitrogen, Nitrate as N (NO3-N)	0						
Sulfate (SO4)	0						
Nitrogen, Nitrite as N (NO2-N)	0						

Job Number.: 355324		QUALITY CONTROL RESULTS			Report Date.: 06/18/2008	
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CUSTOMER: Conestoga-Rovers and Associates		PROJECT: F STATE NM 039122		ATTN:	
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QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
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CCB	Continuing Calibration Blank				06/10/2008	2009
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br)	0							
Chloride	0							
Fluoride (F)	0							
Nitrogen, Nitrate as N (NO3-N)	0							
Sulfate (SO4)	0							
Nitrogen, Nitrite as N (NO2-N)	0							

CCB	Continuing Calibration Blank				06/10/2008	2348
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br)	0							
Chloride	0.1956							
Fluoride (F)	0							
Nitrogen, Nitrate as N (NO3-N)	0							
Sulfate (SO4)	0							
Nitrogen, Nitrite as N (NO2-N)	0							

CCB	Continuing Calibration Blank				06/11/2008	0240
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br)	0							
Chloride	0							
Fluoride (F)	0							
Nitrogen, Nitrate as N (NO3-N)	0							
Sulfate (SO4)	0							
Nitrogen, Nitrite as N (NO2-N)	0							

CCB	Continuing Calibration Blank				06/11/2008	0516
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br)	0							
Chloride	0							
Fluoride (F)	0							
Nitrogen, Nitrate as N (NO3-N)	0							
Sulfate (SO4)	0							
Nitrogen, Nitrite as N (NO2-N)	0							

CCV	Continuing Calibration Verification	WCS49721			06/10/2008	1701
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br)	20.092		20.00		100.5		90.0-110.0	
Chloride	19.980		20.00		99.9		90.0-110.0	
Fluoride (F)	9.9939		10.00		99.9		90.0-110.0	
Nitrogen, Nitrate as N (NO3-N)	10.450		10.0		104.5		90.0-110.0	
Sulfate (SO4)	19.529		20.00		97.6		90.0-110.0	
Nitrogen, Nitrite as N (NO2-N)	9.8345		10.0		98.3		90.0-110.0	

QUALITY CONTROL RESULTS

Job Number.: 355324

Report Date.: 06/18/2008

CUSTOMER: Conestoga-Rovers and Associates

PROJECT: F STATE NM 039122

ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
CCV	Continuing Calibration Verification	WCS49721			06/10/2008	1953

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Bromide (Br)	19.943		20.00		99.7	90.0-110.0	
Chloride	19.932		20.00		99.7	90.0-110.0	
Fluoride (F)	10.044		10.00		100.4	90.0-110.0	
Nitrogen, Nitrate as N (NO3-N)	10.453		10.0		104.5	90.0-110.0	
Sulfate (SO4)	19.532		20.00		97.7	90.0-110.0	
Nitrogen, Nitrite as N (NO2-N)	9.8251		10.0		98.3	90.0-110.0	

CCV	Continuing Calibration Verification	WCS49721				06/10/2008	2332
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Bromide (Br)	19.964		20.00		99.8	90.0-110.0	
Chloride	19.926		20.00		99.6	90.0-110.0	
Fluoride (F)	9.9412		10.00		99.4	90.0-110.0	
Nitrogen, Nitrate as N (NO3-N)	10.449		10.0		104.5	90.0-110.0	
Sulfate (SO4)	19.398		20.00		97.0	90.0-110.0	
Nitrogen, Nitrite as N (NO2-N)	9.8329		10.0		98.3	90.0-110.0	

CCV	Continuing Calibration Verification	WCS49721				06/11/2008	0224
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Bromide (Br)	19.956		20.00		99.8	90.0-110.0	
Chloride	19.811		20.00		99.1	90.0-110.0	
Fluoride (F)	9.6585		10.00		96.6	90.0-110.0	
Nitrogen, Nitrate as N (NO3-N)	10.406		10.0		104.1	90.0-110.0	
Sulfate (SO4)	19.352		20.00		96.8	90.0-110.0	
Nitrogen, Nitrite as N (NO2-N)	9.7945		10.0		97.9	90.0-110.0	

CCV	Continuing Calibration Verification	WCS49721				06/11/2008	0501
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Bromide (Br)	19.889		20.00		99.4	90.0-110.0	
Chloride	19.799		20.00		99.0	90.0-110.0	
Fluoride (F)	9.6325		10.00		96.3	90.0-110.0	
Nitrogen, Nitrate as N (NO3-N)	10.446		10.0		104.5	90.0-110.0	
Sulfate (SO4)	19.524		20.00		97.6	90.0-110.0	
Nitrogen, Nitrite as N (NO2-N)	9.7734		10.0		97.7	90.0-110.0	

DU	Method Duplicate		355303-2	10		06/10/2008	2158
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Bromide (Br), Water	0			0	0	1	
Chloride, Water	3.8915			3.9842	2.4	20	
Fluoride (F), Water	0.9210			0.9245	0.0035	0.3000	
Nitrogen, Nitrate as N (NO3-N), Water	0			0	0	0	
Sulfate (SO4), Water	5.7625			5.8532	1.6	20	
Nitrogen, Nitrite as N (NO2-N), Water	0			0	0	0	

Job Number.: 355324			QUALITY CONTROL RESULTS			Report Date.: 06/18/2008		
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CUSTOMER: Conestoga-Rovers and Associates			PROJECT: F STATE NM 039122			ATTN:		
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QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
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DU	Method Duplicate		355325-3	10	06/11/2008	0019
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Bromide (Br), Water	0			0.0435	0.0435	0.6000	
Chloride, Water	7.8773			7.8652	0.2	20	
Fluoride (F), Water	0.1402			0.1405	0.0003	0.3000	
Nitrogen, Nitrate as N (NO3-N), Water	0.3468			0.3431	0.0037	0.2500	
Sulfate (SO4), Water	6.2427			6.2340	0.1	20	
Nitrogen, Nitrite as N (NO2-N), Water	0			0	0	0	

DU	Method Duplicate		355328-1	10	06/11/2008	0342
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Bromide (Br), Water	0			0.0393	0.0393	0.6000	
Chloride, Water	9.0189			9.0594	0.4	20	
Fluoride (F), Water	0.1389			0.1331	0.0058	0.3000	
Nitrogen, Nitrate as N (NO3-N), Water	0.2800			0.2712	0.0088	0.2500	
Sulfate (SO4), Water	6.2792			6.3514	1.1	20	
Nitrogen, Nitrite as N (NO2-N), Water	0			0	0	0	

DU	Method Duplicate		355201-1		06/11/2008	0429
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Bromide (Br), Soil	0			0.0657	0.0657	0.6000	
Chloride, Soil	7.8755			8.0272	1.9	20	
Fluoride (F), Soil	0.7060			0.7115	0.0055	0.3000	
Nitrogen, Nitrate as N (NO3-N), Soil	0.1244			0.1254	0.0010	0.2500	
Sulfate (SO4), Soil	21.627			22.038	1.9	20	
Nitrogen, Nitrite as N (NO2-N), Soil	0			0	0	0	

ICB	Initial Calibration Blank				06/10/2008	1424
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Bromide (Br)	0						
Chloride	0						
Fluoride (F)	0						
Nitrogen, Nitrate as N (NO3-N)	0						
Sulfate (SO4)	0						
Nitrogen, Nitrite as N (NO2-N)	0						

ICV	Initial Calibration Verification	WCS49721			06/10/2008	1409
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Bromide (Br)	19.547		20.00		97.7	90.0-110.0	
Chloride	19.512		20.00		97.6	90.0-110.0	
Fluoride (F)	10.166		10.00		101.7	90.0-110.0	
Nitrogen, Nitrate as N (NO3-N)	10.220		10.0		102.2	90.0-110.0	
Sulfate (SO4)	19.049		20.00		95.2	90.0-110.0	
Nitrogen, Nitrite as N (NO2-N)	9.6315		10.0		96.3	90.0-110.0	

QUALITY CONTROL RESULTS

Job Number.: 355324

Report Date.: 06/18/2008

CUSTOMER: Conestoga-Rovers and Associates

PROJECT: F STATE NM 039122

ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
LCS	Laboratory Control Sample	WCS49721			06/10/2008	1456

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Bromide (Br)	19.943		20.00		99.7	90.0-110.0	
Chloride	19.853		20.00		99.3	90.0-110.0	
Fluoride (F)	9.8380		10.00		98.4	90.0-110.0	
Nitrogen, Nitrate as N (NO3-N)	10.456		10.0		104.6	90.0-110.0	
Sulfate (SO4)	19.743		20.00		98.7	90.0-110.0	
Nitrogen, Nitrite as N (NO2-N)	9.7861		10.0		97.9	90.0-110.0	

LCS	Laboratory Control Sample	WCS49721				06/10/2008	2040
Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Bromide (Br)	20.029		20.00		100.1	90.0-110.0	
Chloride	19.803		20.00		99.0	90.0-110.0	
Fluoride (F)	9.7558		10.00		97.6	90.0-110.0	
Nitrogen, Nitrate as N (NO3-N)	10.436		10.0		104.4	90.0-110.0	
Sulfate (SO4)	19.550		20.00		97.8	90.0-110.0	
Nitrogen, Nitrite as N (NO2-N)	9.7919		10.0		97.9	90.0-110.0	

MB	Method Blank					06/10/2008	1440
Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Bromide (Br)	0						
Chloride	0						
Fluoride (F)	0						
Nitrogen, Nitrate as N (NO3-N)	0						
Sulfate (SO4)	0						
Nitrogen, Nitrite as N (NO2-N)	0						

MB	Method Blank					06/10/2008	2024
Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Bromide (Br)	0						
Chloride	0.2058						
Fluoride (F)	0						
Nitrogen, Nitrate as N (NO3-N)	0						
Sulfate (SO4)	0						
Nitrogen, Nitrite as N (NO2-N)	0						

MS	Matrix Spike	WCS49722	355303-2	10		06/10/2008	2214
Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Bromide (Br), Water	9.9491		10.000000	0	99.5	90-110	
Chloride, Water	13.894		10.000000	3.9842	99.1	90-110	
Fluoride (F), Water	2.7438		2.000000	0.9245	91.0	90-110	
Nitrogen, Nitrate as N (NO3-N), Water	1.9776		2.000000	0	98.9	90-110	
Sulfate (SO4), Water	15.609		10.000000	5.8532	97.6	90-110	
Nitrogen, Nitrite as N (NO2-N), Water	1.8590		2.000000	0	93.0	90-110	

QUALITY CONTROL RESULTS

Job Number.: 355324

Report Date.: 06/18/2008

CUSTOMER: Conestoga-Rovers and Associates

PROJECT: F STATE NM 039122

ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
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MS	Matrix Spike	WCS49722	355325-3	10	06/11/2008	0035
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br), Water	9.8120		10.000000	0.0435	97.7		90-110	
Chloride, Water	17.605		10.000000	7.8652	97.4		90-110	
Fluoride (F), Water	1.6113		2.000000	0.1405	73.5		90-110	A
Nitrogen, Nitrate as N (NO3-N), Water	2.2013		2.000000	0.3431	92.9		90-110	
Sulfate (SO4), Water	15.527		10.000000	6.2340	92.9		90-110	
Nitrogen, Nitrite as N (NO2-N), Water	1.8462		2.000000	0	92.3		90-110	

MS	Matrix Spike	WCS49722	355328-1	10	06/11/2008	0358
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br), Water	9.8510		10.000000	0.0393	98.1		90-110	
Chloride, Water	18.630		10.000000	9.0594	95.7		90-110	
Fluoride (F), Water	1.6153		2.000000	0.1331	74.1		90-110	A
Nitrogen, Nitrate as N (NO3-N), Water	2.1247		2.000000	0.2712	92.7		90-110	
Sulfate (SO4), Water	15.805		10.000000	6.3514	94.5		90-110	
Nitrogen, Nitrite as N (NO2-N), Water	1.8621		2.000000	0	93.1		90-110	

MS	Matrix Spike	WCS49722	355201-1		06/11/2008	0445
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br), Soil	9.6739		10.000000	0.0657	96.1		90-110	
Chloride, Soil	17.373		10.000000	8.0272	93.5		90-110	
Fluoride (F), Soil	2.7736		2.000000	0.7115	103.1		90-110	
Nitrogen, Nitrate as N (NO3-N), Soil	1.9476		2.000000	0.1254	91.1		90-110	
Sulfate (SO4), Soil	30.073		10.000000	22.038	80.3		90-110	A
Nitrogen, Nitrite as N (NO2-N), Soil	1.8288		2.000000	0	91.4		90-110	

SURROGATE RECOVERIES REPORT

Job Number.: 355324

Report Date.: 06/18/2008

CUSTOMER: Conestoga-Rovers and Associates

PROJECT: F STATE NM 039122

ATTN: Todd Wells

Method.....: GC Volatile Organics
Batch(s).....: 400272

Method Code...: 8021
Test Matrix...: Water

Prep Batch....:
Equipment Code: BTEX02

Lab ID	DT	Sample ID	Date	ATFT	ATFTB	BFB	BFBB
LCS			06/10/2008	97.5	99.7	96.5	99.7
MB			06/10/2008	100.8	101.2	100.9	99.1
355324- 1		RW-1 6508	06/11/2008	104.0	98.1	103.2	94.8
355325- 1 MS		MW-3 6508	06/10/2008	97.1	95.7	97.1	96.3
355325- 1 MSD		MW-3 6508	06/10/2008	96.5	95.5	99.0	95.9

Test	Test Description	Limits
ATFT	a,a,a-Trifluorotoluene	70 - 135
ATFTB	a,a,a-Trifluorotoluene Column B	70 - 135
BFB	BFB (Surrogate)	64 - 136
BFBB	BFB (Surrogate) Column B	64 - 136

QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 06/18/2008

REPORT COMMENTS

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

General Information:

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

Explanation of Qualifiers:

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

Explanation of General QC Outliers:

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

QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 06/18/2008

observed above the RL in the associated samples.

- G - Marginal outlier within 1% of acceptance criteria.
- r - RPD value is outside method acceptance criteria.
- C - Poor RPD values observed due to the non-homogenous nature of the sample.
- O - Sample required dilution due to matrix interference.
- D - Sample reported from a dilution.
- d - Spike and/or surrogate diluted.
- E - The reported concentration exceeds the instrument calibration.
- F - The analyte is outside QC limits and was not detected in any associated samples in the analytical batch.
- H - Continuing Calibration Verification (CCV) standard is not associated with the samples reported.
- q - See the subcontract final report for qualifier explanation.
- W - The MS/MSD recoveries are outside QC acceptance criteria because the amount spiked is much less than the amount found in the sample.
- K - High recovery will not affect the quality of reported results.
- Z - See case narrative.

Explanation of Organic QC Outliers:

- e - Method blank analysis yielded phthalate concentrations above the RL. Phthalates are recognized potential laboratory contaminants. Its presence in the sample up to five times the amount reported in the blank may be attributed to laboratory contamination.
- S - Sample reanalyzed/reextracted due to poor surrogate recovery. Reanalysis confirmed original analysis indicating a possible matrix interference.
- T - Sample analysis yielded poor surrogate recovery.
- R - The RPD between the two GC columns is greater than 40% and no anomalies are present. The higher result is reported as per EPA Method 8000B.
- I - The RPD between the two GC columns is greater than 40% and anomalies are present. The lower of the two results has been reported.
- X - Gaseous compound. In-house QC limits are advisory.
- Y - Ketone compounds have poor purge efficiency. In-house QC limits are advisory.
- f - Surrogate not associated with reported analytes.

Explanation of Inorganic QC Outliers:

- Q - Method blank analysis yielded target analytes above the RL. Associated sample results are greater than 10 times the concentrations observed in the method blank.
- V - The RPD control limit for sample results less than 5 times the RL is +/- the RL value. Sample and duplicate results are within method acceptance criteria.
- e - Serial dilution failed due to matrix interference.
- g - Sample result quantitated by Method of Standard Additions (MSA) due to the analytical spike recovery being below 85 percent. The correlation coefficient for the MSA is greater than or equal to 0.995.
- s - BOD/cBOD seed value is not within method acceptance criteria. Due to the nature of the test method, the sample cannot be reanalyzed.
- l - BOD/cBOD LCS value is not within method acceptance criteria. Due to the nature of the test method, sample cannot be reanalyzed.
- N - Spiked sample recovery is not within control limits.
- n - Sample result quantitated by Method of Standard Additions (MSA) due to the analytical spike recovery being below 85 percent. The correlation coefficient for the MSA is less than 0.995.
- * - Duplicate analysis is not within control limits.

Abbreviations:

- Batch - Designation given to identify a specific extraction, digestion, preparation, or analysis set.
- CCV - Continuing Calibration Verification
- CRA - Low level standard check - GFAA, Mercury
- CRI - Low level standard check - ICP
- Dil Fac - Dilution Factor - Secondary dilution analysis

QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 06/18/2008

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

Method References:

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

LABORATORY CHRONICLE

Job Number: 355324

Date: 06/18/2008

CUSTOMER: Conestoga-Rovers and Associates

PROJECT: F STATE NM 039122

ATTN: Todd Wells

Lab ID: 355324-1 Client ID: RW-1 6508

Date Recvd: 06/10/2008 Sample Date: 06/05/2008

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT # (S)	DATE/TIME ANALYZED	DILUTION
SW-846 8021B	GC Volatile Organics	1	400272		06/11/2008 0842	10.000
EPA 300.0	Ion Chromatography Analysis	1	200312		06/10/2008 2245	10

THE LEADER IN ENVIRONMENTAL TESTING

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☒

TAL-4124 (1007)

Client	CRA	Project Manager	Todd Wells	Date	6/9/08	Chain of Custody Number	084213
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Address	Telephone Number (Area Code)/Fax Number	Lab Number	Page	of
2135 S. 1000 West	(432) 686-0086 / (432) 686-0186	Houston	1	1

City	State	Zip Code	Sire Contact	Lab Contact	Analysis (Attach list if more space is needed)
Midland	TX	79703	Todd Wells	Sachin Kudhuan	

Project Name and Location (State)	Carrier/Waybill Number	Special Instructions/
#039122		
E-STATE		
NM		

Contract/Purchase Order/Quote No.	Matrix	Containers & Preservatives
4011413		

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date		Time	
	Air	Aqueous	Sed.	Soil
			Unpres.	HNO ₃
			HCl	NaOH
			ZnAc/NaOH	

[illegible][illegible][illegible][illegible][illegible][illegible][illegible][illegible][illegible]

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

Turn Around Time Required

☐ 24 Hours	☐ 48 Hours	☐ 7 Days	☒ 14 Days	☐ 21 Days	☐ Other _____
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QC Requirements (Specify) _____

1. Relinquished By <i>[Signature]</i>	Date 6/9/08	Time 1630	1. Receiver By <i>[Signature]</i>	Date 6/9/08	Time 0335
--	----------------	--------------	--------------------------------------	----------------	--------------

2. Relinquished By		2. Received By	
Date	Time	Date	Time
11/10/00	11:00	11/10/00	11:00

	Date	Time	3. Received By	Date	Time
3. Relinquished By					

Comments	

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

ANALYTICAL REPORT

JOB NUMBER: 355325

Project ID: F STATE NM 039122

Prepared For:

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

Attention: Todd Wells

Date: 06/18/2008



Signature

06/18/08

Date

Name: Sachin G. Kudchadkar

Title: Project Manager III

E-Mail: sachin.kudchadkar@testamericainc.com

TestAmerica Laboratories, Inc
6310 Rothway Drive
Houston, TX 77040

PHONE: 713-690-4444

TOTAL NO. OF PAGES 26

SAMPLE INFORMATION

Date: 06/24/2008

Job Number.: 355325

Customer....: Conestoga-Rovers and Associates

Attn.....: Todd Wells

Project Number.....: 99007835

Customer Project ID....: F STATE NM 039122

Project Description....: Analytical

Laboratory Sample ID	Customer Sample ID	Sample Matrix	Date Sampled	Time Sampled	Date Received	Time Received
355325-1	MW-3 6508	Water	06/05/2008	13:27	06/10/2008	09:35
355325-2	MW-4 6508	Water	06/05/2008	12:05	06/10/2008	09:35
355325-3	MW-5 6508	Water	06/04/2008	15:10	06/10/2008	09:35
355325-4	MW-6 6508	Water	06/04/2008	14:45	06/10/2008	09:35
355325-5	MW-7 6508	Water	06/05/2008	12:45	06/10/2008	09:35
355325-6	MW-8 6508	Water	06/04/2008	15:30	06/10/2008	09:35
355325-7	WW-1 6508	Water	06/04/2008	13:45	06/10/2008	09:35
355325-8	WW-2 6508	Water	06/04/2008	14:00	06/10/2008	09:35
355325-9	DUP	Water	06/04/2008	00:00	06/10/2008	09:35

LABORATORY TEST RESULTS

Job Number: 355325

Date: 06/24/2008

JUSTOMER: Conestoga-Rovers and Associates

PROJECT: F STATE NM 039122

ATTN: Todd Wells

Customer Sample ID: MW-3 6508
Date Sampled.....: 06/05/2008
Time Sampled.....: 13:27
Sample Matrix.....: Water

Laboratory Sample ID: 355325-1
Date Received.....: 06/10/2008
Time Received.....: 09:35

[illegible]

LABORATORY TEST RESULTS

Job Number: 355325

Date: 06/24/2008

CLIENT: Conestoga-Rovers and Associates

PROJECT: F STATE NM 039122

ATTN: Todd Wells

Customer Sample ID: MW-4 6508
Date Sampled.....: 06/05/2008
Time Sampled.....: 12:05
Sample Matrix.....: Water

Laboratory Sample ID: 355325-2
Date Received.....: 06/10/2008
Time Received.....: 09:35

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	ELAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
4-846 8021B	GC Volatile Organics	0.37	U		0.37	1.00	1.0000	ug/L	400272		06/10/08 1451	mht
	Benzene, Water	0.39	U		0.39	1.00	1.0000	ug/L	400272		06/10/08 1451	mht
	Toluene, Water	0.42	U		0.42	1.00	1.0000	ug/L	400272		06/10/08 1451	mht
	Ethylbenzene, Water	0.35	U		0.35	3.00	1.0000	ug/L	400272		06/10/08 1451	mht
EPA 300.0	Xylenes (total), Water											
	Ion Chromatography Analysis	61.0			1.5	5.0	10	mg/L	200312		06/10/08 2316	sur
	Chloride, Water											

* In Description = Dry Wgt.

LABORATORY TEST RESULTS

Job Number: 355325

Date: 06/24/2008

CUSTOMER: Conestoga-Rovers and Associates

PROJECT: F STATE NM 039122

ATTN: Todd Wells

Customer Sample ID: MW-5 6508
Date Sampled.....: 06/04/2008
Time Sampled.....: 15:10
Sample Matrix.....: Water

Laboratory Sample ID: 355325-3
Date Received.....: 06/10/2008
Time Received.....: 09:35

[illegible]

Date: 06/24/2008

Job Number: 355325

USTOMER: Conestoga-Rovers and Associates

PROJECT: F STATE NM 039122

ATTN: Todd Wells

Customer Sample ID: MW-6 6508

Laboratory Sample ID: 355325-4

Date Sampled.....: 06/04/2008

Date Received.....: 06/10/2008

Time Sampled.....: 14:45

Time Received.....: 09:35

Sample Matrix.....: Water

[illegible]

* In Description = Dry Wgt.

Page 5

LABORATORY TEST RESULTS

Job Number: 355325

Date: 06/24/2008

JSTOMER: Conestoga-Rovers and Associates

PROJECT: F STATE NM 039122

ATTN: Todd Wells,

Customer Sample ID: MW-7 6508
Date Sampled.....: 06/05/2008
Time Sampled.....: 12:45
Sample Matrix.....: Water

Laboratory Sample ID: 355325-5
Date Received.....: 06/10/2008
Time Received.....: 09:35

[illegible]

LABORATORY TEST RESULTS

Job Number: 355325

Date: 06/24/2008

CLIENT: Conestoga-Rovers and Associates

PROJECT: F STATE NM 039122

ATTN: Todd Wells

Customer Sample ID: MW-8 6508
Date Sampled.....: 06/04/2008
Time Sampled.....: 15:30
Sample Matrix.....: Water

Laboratory Sample ID: 355325-6
Date Received.....: 06/10/2008
Time Received.....: 09:35

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
N-846 8021B	GC Volatile Organics										
	Benzene, Water	0.37	U	0.37	1.00	1.0000	ug/L	400272		06/10/08 1711	mht
	Toluene, Water	0.39	U	0.39	1.00	1.0000	ug/L	400272		06/10/08 1711	mht
	Ethylbenzene, Water	0.42	U	0.42	1.00	1.0000	ug/L	400272		06/10/08 1711	mht
	Xylenes (total), Water	0.35	U	0.35	3.00	1.0000	ug/L	400272		06/10/08 1711	mht
EPA 300.0	Ion Chromatography Analysis										
	Chloride, Water	54.9		1.5	5.0	10	mg/L	200312		06/11/08 0122	sur

* In Description = Dry Wgt.

LABORATORY TEST RESULTS

Job Number: 355325

Date: 06/24/2008

CUSTOMER: Conestoga-Rovers and Associates

PROJECT: F. STATE NM 039122

ATTN: Todd Wells

Customer Sample ID: MW-1 6508
Date Sampled.....: 06/04/2008
Time Sampled.....: 13:45
Sample Matrix.....: Water

Laboratory Sample ID: 355325-7
Date Received.....: 06/10/2008
Time Received.....: 09:35

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
M-846 8021B	GC Volatile Organics											
	Benzene, Water	0.37	U		0.37	1.00	1.0000	ug/L	400272		06/10/08 1731	mht
	Toluene, Water	0.39	U		0.39	1.00	1.0000	ug/L	400272		06/10/08 1731	mht
	Ethylbenzene, Water	0.42	U		0.42	1.00	1.0000	ug/L	400272		06/10/08 1731	mht
	Xylenes (total), Water	0.35	U		0.35	3.00	1.0000	ug/L	400272		06/10/08 1731	mht
EPA 300.0	Ion Chromatography Analysis											
	Chloride, Water	64.1			1.5	5.0	10	mg/L	200312		06/11/08 0137	sur

* In Description = Dry Wgt.

Job Number: 355325

Job Number: 355325

CUSTOMER: Conestoga-Rovers and Associates

PROJECT: F STATE NM 039122

ATTN: Todd Wells

Customer Sample ID: WW-2 6508
Date Sampled.....: 06/04/2008
Time Sampled.....: 14:00
Sample Matrix.....: Water

Laboratory Sample ID: 355325-8
Date Received.....: 06/10/2008
Time Received.....: 09:35

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
M-846 8021B	GC Volatile Organics	0.37	U	0.37	1.00	1.0000	ug/L	400272		06/10/08 1751	mht
	Benzene, Water	0.39	U	0.39	1.00	1.0000	ug/L	400272		06/10/08 1751	mht
	Toluene, Water	0.42	U	0.42	1.00	1.0000	ug/L	400272		06/10/08 1751	mht
	Ethylbenzene, Water	0.35	U	0.35	3.00	1.0000	ug/L	400272		06/10/08 1751	mht
	Xylenes (total), Water										
EPA 300.0	Ion Chromatography Analysis Chloride, Water	65.9		1.5	5.0	10	mg/L	200312		06/11/08 0153	sur

Date: 06/24/2008

Job Number: 355325

CUSTOMER: Conestoga-Rovers and Associates

PROJECT: F STATE NM 039122

ATTN: Todd Wells

Customer Sample ID: DUP

Laboratory Sample ID: 355325-9

Date Sampled.....: 06/04/2008

Date Received.....: 06/10/2008

Time Sampled.....: 00:00
Data Sampled.....: 00/00/00

Time Received.....: 09:35

Sample Matrix.....: Water

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
N-846 8021B	GC Volatile Organics	0.37	U	0.37	1.00	1.0000	ug/L	400272		06/10/08 1811	mht
	Benzene, Water	0.39	U	0.39	1.00	1.0000	ug/L	400272		06/10/08 1811	mht
	Toluene, Water	0.42	U	0.42	1.00	1.0000	ug/L	400272		06/10/08 1811	mht
	Ethylbenzene, Water	0.35	U	0.35	3.00	1.0000	ug/L	400272		06/10/08 1811	mht
	Xylenes (total), Water										
EPA 300.0	Ion Chromatography Analysis Chloride, Water	64.4		1.5	5.0	10	mg/L	200312		06/11/08 0209	sur

QUALITY CONTROL RESULTS

Job Number.: 355325

Report Date.: 06/24/2008

CUSTOMER: Conestoga-Rovers and Associates

PROJECT: F STATE NM 039122

ATTN: Todd Wells

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
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Test Method.....: SW-846 8021B

Units.....: ug/L

Analyst...: mht

Method Description.: GC Volatile Organics

Batch(s)....: 400272

LCS	Laboratory Control Sample	BXS060308B			06/10/2008	1232
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Benzene, Water	52.9071		50.000000		105.8	72-134	
Toluene, Water	52.0171		50.000000		104.0	76-131	
Ethylbenzene, Water	56.1908		50.000000		112.4	75-131	
m,p-Xylene, Water	106.131		100.000000		106.1	75-130	
o-Xylene, Water	53.0635		50.000000		106.1	74-129	
Xylenes (total), Water	163.4023		150.000000		108.9	70-130	
Total BTEX, Water	327.2999		300.000000		109.1	70-130	
Tert-Butyl Methyl Ether Column B, Water	49.9440		50.000000		99.9	76-123	
Benzene Column B, Water	54.0116		50.000000		108.0	72-134	
Toluene Column B, Water	53.6952		50.000000		107.4	76-131	
Ethylbenzene Column B, Water	54.8998		50.000000		109.8	75-131	
m,p-Xylene Column B, Water	109.039		100.000000		109.0	75-130	
o-Xylene Column B, Water	54.3633		50.000000		108.7	74-129	

MB	Method Blank				06/10/2008	1252
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Benzene, Water	ND						
Toluene, Water	ND						
Ethylbenzene, Water	ND						
m,p-Xylene, Water	ND						
o-Xylene, Water	ND						
Xylenes (total), Water	0.0000						
Total BTEX, Water	0.0000						
Tert-Butyl Methyl Ether Column B, Water	ND						
Benzene Column B, Water	ND						
Toluene Column B, Water	ND						
Ethylbenzene Column B, Water	ND						
m,p-Xylene Column B, Water	ND						
o-Xylene Column B, Water	ND						

MS	Matrix Spike	BXS060308A	355325-1		06/10/2008	1611
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Benzene, Water	55.4717		50.000000	ND	111	70-130	
Toluene, Water	54.0173		50.000000	ND	108	70-130	
Ethylbenzene, Water	55.4617		50.000000	ND	111	70-130	
m,p-Xylene, Water	113.114		100.000000	ND	113	70-130	
o-Xylene, Water	54.8266		50.000000	ND	110	70-130	
Xylenes (total), Water	167.9406		150.000000	0.0000	112	70-130	
Total BTEX, Water	333.4209		300.000000	0.0000	111	70-130	
Tert-Butyl Methyl Ether Column B, Water	51.0632		50.000000	ND	102	70-130	
Benzene Column B, Water	54.9772		50.000000	ND	110	70-130	
Toluene Column B, Water	54.5469		50.000000	ND	109	70-130	
Ethylbenzene Column B, Water	54.3438		50.000000	ND	109	70-130	
m,p-Xylene Column B, Water	109.221		100.000000	ND	109	70-130	

Job Number.: 355325

QUALITY CONTROL RESULTS

Report Date.: 06/24/2008

CUSTOMER: Conestoga-Rovers and Associates

PROJECT: F STATE NM 039122

ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
MS	Matrix Spike	BXS060308A	355325-1		06/10/2008	1611

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
o-Xylene Column B, Water	54.0067		50.000000	ND	108		70-130	

MSD	Matrix Spike Duplicate	BXS060308A	355325-1				06/10/2008	1631
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Benzene, Water	59.0558	55.4717	50.000000	ND	118		70-130	
					6.3		20.0	
Toluene, Water	57.6884	54.0173	50.000000	ND	115		70-130	
					6.6		20.0	
Ethylbenzene, Water	60.4241	55.4617	50.000000	ND	121		70-130	
					8.6		20.0	
m,p-Xylene, Water	121.070	113.114	100.000000	ND	121		70-130	
					6.8		20.0	
o-Xylene, Water	58.9331	54.8266	50.000000	ND	118		70-130	
					7.2		20.0	
Xylenes (total), Water	180.0031	167.9406	150.000000	0.0000	120		70-130	
					6.9		20.0	
Total BTEX, Water	357.2998	333.4209	300.000000	0.0000	119		70-130	
					6.9		20.0	
Tert-Butyl Methyl Ether Column B, Water	52.2327	51.0632	50.000000	ND	104		70-130	
					2.3		20.0	
Benzene Column B, Water	57.8776	54.9772	50.000000	ND	116		70-130	
					5.1		20.0	
Toluene Column B, Water	57.8168	54.5469	50.000000	ND	116		70-130	
					5.8		20.0	
Ethylbenzene Column B, Water	57.9580	54.3438	50.000000	ND	116		70-130	
					6.4		20.0	
m,p-Xylene Column B, Water	115.181	109.221	100.000000	ND	115		70-130	
					5.3		20.0	
o-Xylene Column B, Water	56.9046	54.0067	50.000000	ND	114		70-130	
					5.2		20.0	

Test Method.....: EPA 300.0

Units.....: mg/L

Analyst....: sur

Method Description.: Ion Chromatography Analysis

Batch(s)....: 200312

CCB	Continuing Calibration Blank						06/10/2008	1716
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br)	0							
Chloride	0							
Fluoride (F)	0							
Nitrogen, Nitrate as N (NO3-N)	0							
Sulfate (SO4)	0							
Nitrogen, Nitrite as N (NO2-N)	0							

QUALITY CONTROL RESULTS

Job Number.: 355325

Report Date.: 06/24/2008

CUSTOMER: Conestoga-Rovers and Associates

PROJECT: F STATE NM 039122

ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
CCB	Continuing Calibration Blank				06/10/2008	2009

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

CCB	Continuing Calibration Blank				06/10/2008	2348
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Bromide (Br)	0						
Chloride	0.1956						
Fluoride (F)	0						
Nitrogen, Nitrate as N (NO3-N)	0						
Sulfate (SO4)	0						
Nitrogen, Nitrite as N (NO2-N)	0						

CCB	Continuing Calibration Blank				06/11/2008	0240
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Bromide (Br)	0						
Chloride	0						
Fluoride (F)	0						
Nitrogen, Nitrate as N (NO3-N)	0						
Sulfate (SO4)	0						
Nitrogen, Nitrite as N (NO2-N)	0						

CCB	Continuing Calibration Blank				06/11/2008	0516
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Bromide (Br)	0						
Chloride	0						
Fluoride (F)	0						
Nitrogen, Nitrate as N (NO3-N)	0						
Sulfate (SO4)	0						
Nitrogen, Nitrite as N (NO2-N)	0						

CCV	Continuing Calibration Verification	WCS49721			06/10/2008	1701
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Bromide (Br)	20.092		20.00		100.5	90.0-110.0	
Chloride	19.980		20.00		99.9	90.0-110.0	
Fluoride (F)	9.9939		10.00		99.9	90.0-110.0	
Nitrogen, Nitrate as N (NO3-N)	10.450		10.0		104.5	90.0-110.0	
Sulfate (SO4)	19.529		20.00		97.6	90.0-110.0	
Nitrogen, Nitrite as N (NO2-N)	9.8345		10.0		98.3	90.0-110.0	

QUALITY CONTROL RESULTS

Job Number.: 355325

Report Date.: 06/24/2008

CUSTOMER: Conestoga-Rovers and Associates

PROJECT: F STATE NM 039122

ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
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CCV	Continuing Calibration Verification	WCS49721			06/10/2008	1953
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Bromide (Br)	19.943		20.00		99.7	90.0-110.0	
Chloride	19.932		20.00		99.7	90.0-110.0	
Fluoride (F)	10.044		10.00		100.4	90.0-110.0	
Nitrogen, Nitrate as N (NO3-N)	10.453		10.0		104.5	90.0-110.0	
Sulfate (SO4)	19.532		20.00		97.7	90.0-110.0	
Nitrogen, Nitrite as N (NO2-N)	9.8251		10.0		98.3	90.0-110.0	

CCV	Continuing Calibration Verification	WCS49721			06/10/2008	2332
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Bromide (Br)	19.964		20.00		99.8	90.0-110.0	
Chloride	19.926		20.00		99.6	90.0-110.0	
Fluoride (F)	9.9412		10.00		99.4	90.0-110.0	
Nitrogen, Nitrate as N (NO3-N)	10.449		10.0		104.5	90.0-110.0	
Sulfate (SO4)	19.398		20.00		97.0	90.0-110.0	
Nitrogen, Nitrite as N (NO2-N)	9.8329		10.0		98.3	90.0-110.0	

CCV	Continuing Calibration Verification	WCS49721			06/11/2008	0224
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Bromide (Br)	19.956		20.00		99.8	90.0-110.0	
Chloride	19.811		20.00		99.1	90.0-110.0	
Fluoride (F)	9.6585		10.00		96.6	90.0-110.0	
Nitrogen, Nitrate as N (NO3-N)	10.406		10.0		104.1	90.0-110.0	
Sulfate (SO4)	19.352		20.00		96.8	90.0-110.0	
Nitrogen, Nitrite as N (NO2-N)	9.7945		10.0		97.9	90.0-110.0	

CCV	Continuing Calibration Verification	WCS49721			06/11/2008	0501
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Bromide (Br)	19.889		20.00		99.4	90.0-110.0	
Chloride	19.799		20.00		99.0	90.0-110.0	
Fluoride (F)	9.6325		10.00		96.3	90.0-110.0	
Nitrogen, Nitrate as N (NO3-N)	10.446		10.0		104.5	90.0-110.0	
Sulfate (SO4)	19.524		20.00		97.6	90.0-110.0	
Nitrogen, Nitrite as N (NO2-N)	9.7734		10.0		97.7	90.0-110.0	

DU	Method Duplicate		355303-2	10	06/10/2008	2158
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Bromide (Br), Water	0			0	0	1	
Chloride, Water	3.8915			3.9842	2.4	20	
Fluoride (F), Water	0.9210			0.9245	0.0035	0.3000	
Nitrogen, Nitrate as N (NO3-N), Water	0			0	0	0	
Sulfate (SO4), Water	5.7625			5.8532	1.6	20	
Nitrogen, Nitrite as N (NO2-N), Water	0			0	0	0	

QUALITY CONTROL RESULTS

Job Number.: 355325

Report Date.: 06/24/2008

CUSTOMER: Conestoga-Rovers and Associates

PROJECT: F STATE NM 039122

ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
DU	Method Duplicate		355325-3	10	06/11/2008	0019

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Bromide (Br), Water	0			0.0435	0.0435	0.6000	
Chloride, Water	7.8773			7.8652	0.2	20	
Fluoride (F), Water	0.1402			0.1405	0.0003	0.3000	
Nitrogen, Nitrate as N (NO3-N), Water	0.3468			0.3431	0.0037	0.2500	
Sulfate (SO4), Water	6.2427			6.2340	0.1	20	
Nitrogen, Nitrite as N (NO2-N), Water	0			0	0	0	

DU	Method Duplicate		355328-1	10	06/11/2008	0342
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Bromide (Br), Water	0			0.0393	0.0393	0.6000	
Chloride, Water	9.0189			9.0594	0.4	20	
Fluoride (F), Water	0.1389			0.1331	0.0058	0.3000	
Nitrogen, Nitrate as N (NO3-N), Water	0.2800			0.2712	0.0088	0.2500	
Sulfate (SO4), Water	6.2792			6.3514	1.1	20	
Nitrogen, Nitrite as N (NO2-N), Water	0			0	0	0	

DU	Method Duplicate		355201-1		06/11/2008	0429
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Bromide (Br), Soil	0			0.0657	0.0657	0.6000	
Chloride, Soil	7.8755			8.0272	1.9	20	
Fluoride (F), Soil	0.7060			0.7115	0.0055	0.3000	
Nitrogen, Nitrate as N (NO3-N), Soil	0.1244			0.1254	0.0010	0.2500	
Sulfate (SO4), Soil	21.627			22.038	1.9	20	
Nitrogen, Nitrite as N (NO2-N), Soil	0			0	0	0	

ICB	Initial Calibration Blank				06/10/2008	1424
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Bromide (Br)	0						
Chloride	0						
Fluoride (F)	0						
Nitrogen, Nitrate as N (NO3-N)	0						
Sulfate (SO4)	0						
Nitrogen, Nitrite as N (NO2-N)	0						

ICV	Initial Calibration Verification	WCS49721			06/10/2008	1409
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Bromide (Br)	19.547		20.00		97.7	90.0-110.0	
Chloride	19.512		20.00		97.6	90.0-110.0	
Fluoride (F)	10.166		10.00		101.7	90.0-110.0	
Nitrogen, Nitrate as N (NO3-N)	10.220		10.0		102.2	90.0-110.0	
Sulfate (SO4)	19.049		20.00		95.2	90.0-110.0	
Nitrogen, Nitrite as N (NO2-N)	9.6315		10.0		96.3	90.0-110.0	

QUALITY CONTROL RESULTS

Job Number.: 355325

Report Date.: 06/24/2008

CUSTOMER: Conestoga-Rovers and Associates

PROJECT: F STATE NM 039122

ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
LCS	Laboratory Control Sample	WCS49721			06/10/2008	1456

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br)	19.943		20.00		99.7		90.0-110.0	
Chloride	19.853		20.00		99.3		90.0-110.0	
Fluoride (F)	9.8380		10.00		98.4		90.0-110.0	
Nitrogen, Nitrate as N (NO3-N)	10.456		10.0		104.6		90.0-110.0	
Sulfate (SO4)	19.743		20.00		98.7		90.0-110.0	
Nitrogen, Nitrite as N (NO2-N)	9.7861		10.0		97.9		90.0-110.0	

LCS	Laboratory Control Sample	WCS49721					06/10/2008	2040
Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br)	20.029		20.00		100.1		90.0-110.0	
Chloride	19.803		20.00		99.0		90.0-110.0	
Fluoride (F)	9.7558		10.00		97.6		90.0-110.0	
Nitrogen, Nitrate as N (NO3-N)	10.436		10.0		104.4		90.0-110.0	
Sulfate (SO4)	19.550		20.00		97.8		90.0-110.0	
Nitrogen, Nitrite as N (NO2-N)	9.7919		10.0		97.9		90.0-110.0	

MB	Method Blank						06/10/2008	1440
Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br)	0							
Chloride	0							
Fluoride (F)	0							
Nitrogen, Nitrate as N (NO3-N)	0							
Sulfate (SO4)	0							
Nitrogen, Nitrite as N (NO2-N)	0							

MB	Method Blank						06/10/2008	2024
Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br)	0							
Chloride	0.2058							
Fluoride (F)	0							
Nitrogen, Nitrate as N (NO3-N)	0							
Sulfate (SO4)	0							
Nitrogen, Nitrite as N (NO2-N)	0							

MS	Matrix Spike	WCS49722	355303-2	10			06/10/2008	2214
Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br), Water	9.9491		10.000000	0	99.5		90-110	
Chloride, Water	13.894		10.000000	3.9842	99.1		90-110	
Fluoride (F), Water	2.7438		2.000000	0.9245	91.0		90-110	
Nitrogen, Nitrate as N (NO3-N), Water	1.9776		2.000000	0	98.9		90-110	
Sulfate (SO4), Water	15.609		10.000000	5.8532	97.6		90-110	
Nitrogen, Nitrite as N (NO2-N), Water	1.8590		2.000000	0	93.0		90-110	

Job Number.: 355325			QUALITY CONTROL RESULTS		Report Date.: 06/24/2008	
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CUSTOMER: Conestoga-Rovers and Associates			PROJECT: F STATE NM 039122		ATTN:	
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QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
MS	Matrix Spike	WCS49722	355325-3	10	06/11/2008	0035

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br), Water	9.8120		10.000000	0.0435	97.7		90-110	
Chloride, Water	17.605		10.000000	7.8652	97.4		90-110	
Fluoride (F), Water	1.6113		2.000000	0.1405	73.5		90-110	A
Nitrogen, Nitrate as N (NO3-N), Water	2.2013		2.000000	0.3431	92.9		90-110	
Sulfate (SO4), Water	15.527		10.000000	6.2340	92.9		90-110	
Nitrogen, Nitrite as N (NO2-N), Water	1.8462		2.000000	0	92.3		90-110	

MS	Matrix Spike	WCS49722	355328-1	10	06/11/2008	0358
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br), Water	9.8510		10.000000	0.0393	98.1		90-110	
Chloride, Water	18.630		10.000000	9.0594	95.7		90-110	
Fluoride (F), Water	1.6153		2.000000	0.1331	74.1		90-110	A
Nitrogen, Nitrate as N (NO3-N), Water	2.1247		2.000000	0.2712	92.7		90-110	
Sulfate (SO4), Water	15.805		10.000000	6.3514	94.5		90-110	
Nitrogen, Nitrite as N (NO2-N), Water	1.8621		2.000000	0	93.1		90-110	

MS	Matrix Spike	WCS49722	355201-1		06/11/2008	0445
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br), Soil	9.6739		10.000000	0.0657	96.1		90-110	
Chloride, Soil	17.373		10.000000	8.0272	93.5		90-110	
Fluoride (F), Soil	2.7736		2.000000	0.7115	103.1		90-110	
Nitrogen, Nitrate as N (NO3-N), Soil	1.9476		2.000000	0.1254	91.1		90-110	
Sulfate (SO4), Soil	30.073		10.000000	22.038	80.3		90-110	A
Nitrogen, Nitrite as N (NO2-N), Soil	1.8288		2.000000	0	91.4		90-110	

SURROGATE RECOVERIES REPORT

Job Number.: 355325

Report Date.: 06/24/2008

CUSTOMER: Conestoga-Rovers and Associates

PROJECT: F STATE NM 039122

ATTN: Todd Wells

Method.....: GC Volatile Organics
Batch(s).....: 400272

Method Code...: 8021
Test Matrix...: Water

Prep Batch....:
Equipment Code: BTEX02

Lab ID	DT	Sample ID	Date	ATFT	ATFTB	BFB	BFBB
LCS			06/10/2008	97.5	99.7	96.5	99.7
MB			06/10/2008	100.8	101.2	100.9	99.1
355325- 1		MW-3 6508	06/10/2008	101.5	101.5	99.9	100.4
355325- 1 MS		MW-3 6508	06/10/2008	97.1	95.7	97.1	96.3
355325- 1 MSD		MW-3 6508	06/10/2008	96.5	95.5	99.0	95.9
355325- 2		MW-4 6508	06/10/2008	100.1	100.0	98.6	97.9
355325- 3		MW-5 6508	06/10/2008	100.6	100.2	101.9	100.4
355325- 4		MW-6 6508	06/10/2008	100.4	100.2	100.7	99.1
355325- 5		MW-7 6508	06/10/2008	100.2	99.9	99.9	98.8
355325- 6		MW-8 6508	06/10/2008	97.5	98.5	100.4	100.3
355325- 7		WW-1 6508	06/10/2008	99.8	100.8	100.8	100.3
355325- 8		WW-2 6508	06/10/2008	98.7	99.9	99.6	99.3
355325- 9		DUP	06/10/2008	100.3	101.2	101.2	100.7

Test	Test Description	Limits
ATFT	a,a,a-Trifluorotoluene	70 - 135
ATFTB	a,a,a-Trifluorotoluene Column B	70 - 135
BFB	BFB (Surrogate)	64 - 136
BFBB	BFB (Surrogate) Column B	64 - 136

QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 06/24/2008

REPORT COMMENTS

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

General Information:

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

Explanation of Qualifiers:

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

Explanation of General QC Outliers:

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

QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 06/24/2008

observed above the RL in the associated samples.

- G - Marginal outlier within 1% of acceptance criteria.
- r - RPD value is outside method acceptance criteria.
- C - Poor RPD values observed due to the non-homogenous nature of the sample.
- O - Sample required dilution due to matrix interference.
- D - Sample reported from a dilution.
- d - Spike and/or surrogate diluted.
- E - The reported concentration exceeds the instrument calibration.
- F - The analyte is outside QC limits and was not detected in any associated samples in the analytical batch.
- H - Continuing Calibration Verification (CCV) standard is not associated with the samples reported.
- q - See the subcontract final report for qualifier explanation.
- W - The MS/MSD recoveries are outside QC acceptance criteria because the amount spiked is much less than the amount found in the sample.
- K - High recovery will not affect the quality of reported results.
- Z - See case narrative.

Explanation of Organic QC Outliers:

- e - Method blank analysis yielded phthalate concentrations above the RL. Phthalates are recognized potential laboratory contaminants. Its presence in the sample up to five times the amount reported in the blank may be attributed to laboratory contamination.
- S - Sample reanalyzed/reextracted due to poor surrogate recovery. Reanalysis confirmed original analysis indicating a possible matrix interference.
- T - Sample analysis yielded poor surrogate recovery.
- R - The RPD between the two GC columns is greater than 40% and no anomalies are present. The higher result is reported as per EPA Method 8000B.
- I - The RPD between the two GC columns is greater than 40% and anomalies are present. The lower of the two results has been reported.
- X - Gaseous compound. In-house QC limits are advisory.
- Y - Ketone compounds have poor purge efficiency. In-house QC limits are advisory.
- f - Surrogate not associated with reported analytes.

Explanation of Inorganic QC Outliers:

- Q - Method blank analysis yielded target analytes above the RL. Associated sample results are greater than 10 times the concentrations observed in the method blank.
- V - The RPD control limit for sample results less than 5 times the RL is +/- the RL value. Sample and duplicate results are within method acceptance criteria.
- e - Serial dilution failed due to matrix interference.
- g - Sample result quantitated by Method of Standard Additions (MSA) due to the analytical spike recovery being below 85 percent. The correlation coefficient for the MSA is greater than or equal to 0.995.
- s - BOD/cBOD seed value is not within method acceptance criteria. Due to the nature of the test method, the sample cannot be reanalyzed.
- l - BOD/cBOD LCS value is not within method acceptance criteria. Due to the nature of the test method, sample cannot be reanalyzed.
- N - Spiked sample recovery is not within control limits.
- n - Sample result quantitated by Method of Standard Additions (MSA) due to the analytical spike recovery being below 85 percent. The correlation coefficient for the MSA is less than 0.995.
- * - Duplicate analysis is not within control limits.

Abbreviations:

- Batch - Designation given to identify a specific extraction, digestion, preparation, or analysis set.
- CCV - Continuing Calibration Verification
- CRA - Low level standard check - GFAA, Mercury
- CRI - Low level standard check - ICP
- Dil Fac - Dilution Factor - Secondary dilution analysis

QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 06/24/2008

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

Method References:

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

LABORATORY CHRONICLE

Job Number: 355325

Date: 06/24/2008

CUSTOMER: Conestoga-Rovers and Associates

PROJECT: F STATE NM 039122

ATTN: Todd Wells

Lab ID: 355325-1	Client ID: MW-3 6508	Date Recvd: 06/10/2008	Sample Date: 06/05/2008
METHOD	DESCRIPTION	RUN#	BATCH#
SW-846 8021B	GC Volatile Organics	1	400272
EPA 300.0	Ion Chromatography Analysis	1	200312
			DATE/TIME ANALYZED
			06/10/2008 1430
			DILUTION
			1.0000
			06/10/2008 2301
			10
Lab ID: 355325-2	Client ID: MW-4 6508	Date Recvd: 06/10/2008	Sample Date: 06/05/2008
METHOD	DESCRIPTION	RUN#	BATCH#
SW-846 8021B	GC Volatile Organics	1	400272
EPA 300.0	Ion Chromatography Analysis	1	200312
			DATE/TIME ANALYZED
			06/10/2008 1451
			DILUTION
			1.0000
			06/10/2008 2316
			10
Lab ID: 355325-3	Client ID: MW-5 6508	Date Recvd: 06/10/2008	Sample Date: 06/04/2008
METHOD	DESCRIPTION	RUN#	BATCH#
SW-846 8021B	GC Volatile Organics	1	400272
EPA 300.0	Ion Chromatography Analysis	1	200312
			DATE/TIME ANALYZED
			06/10/2008 1511
			DILUTION
			1.0000
			06/11/2008 0003
			10
Lab ID: 355325-4	Client ID: MW-6 6508	Date Recvd: 06/10/2008	Sample Date: 06/04/2008
METHOD	DESCRIPTION	RUN#	BATCH#
SW-846 8021B	GC Volatile Organics	1	400272
EPA 300.0	Ion Chromatography Analysis	1	200312
			DATE/TIME ANALYZED
			06/10/2008 1531
			DILUTION
			1.0000
			06/11/2008 0050
			10
Lab ID: 355325-5	Client ID: MW-7 6508	Date Recvd: 06/10/2008	Sample Date: 06/05/2008
METHOD	DESCRIPTION	RUN#	BATCH#
SW-846 8021B	GC Volatile Organics	1	400272
EPA 300.0	Ion Chromatography Analysis	1	200312
			DATE/TIME ANALYZED
			06/10/2008 1551
			DILUTION
			1.0000
			06/11/2008 0106
			10
Lab ID: 355325-6	Client ID: MW-8 6508	Date Recvd: 06/10/2008	Sample Date: 06/04/2008
METHOD	DESCRIPTION	RUN#	BATCH#
SW-846 8021B	GC Volatile Organics	1	400272
EPA 300.0	Ion Chromatography Analysis	1	200312
			DATE/TIME ANALYZED
			06/10/2008 1711
			DILUTION
			1.0000
			06/11/2008 0122
			10
Lab ID: 355325-7	Client ID: WW-1 6508	Date Recvd: 06/10/2008	Sample Date: 06/04/2008
METHOD	DESCRIPTION	RUN#	BATCH#
SW-846 8021B	GC Volatile Organics	1	400272
EPA 300.0	Ion Chromatography Analysis	1	200312
			DATE/TIME ANALYZED
			06/10/2008 1731
			DILUTION
			1.0000
			06/11/2008 0137
			10
Lab ID: 355325-8	Client ID: WW-2 6508	Date Recvd: 06/10/2008	Sample Date: 06/04/2008
METHOD	DESCRIPTION	RUN#	BATCH#
SW-846 8021B	GC Volatile Organics	1	400272
EPA 300.0	Ion Chromatography Analysis	1	200312
			DATE/TIME ANALYZED
			06/10/2008 1751
			DILUTION
			1.0000
			06/11/2008 0153
			10
Lab ID: 355325-9	Client ID: DUP	Date Recvd: 06/10/2008	Sample Date: 06/04/2008
METHOD	DESCRIPTION	RUN#	BATCH#
SW-846 8021B	GC Volatile Organics	1	400272
EPA 300.0	Ion Chromatography Analysis	1	200312
			DATE/TIME ANALYZED
			06/10/2008 1811
			DILUTION
			1.0000
			06/11/2008 0209
			10

TAL-4124 (1007)

Temperature on Receipt _____
 Drinking Water? Yes ☐ No ☒

Client: **CRA** Project Manager: **Todd Wells** Date: **6/9/08** Chain of Custody Number: **077520**
 Address: **2135 S. Loop 250 West** Telephone Number (Area Code)/Fax Number: **(432) 686-0086** Lab Number: **Houston** Page: **1** of **1**
 City: **Midland** State: **TX** Zip Code: **79703** She-Contact: **T. Wells** Lab Contact: **Sadun Kudchadar**

Project Name and Location (State): **#039122 F-State NM** Carrier/Waybill Number: _____
 Contract/Purchase Order/Quote No.: **4011413**

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix					Containers & Preservatives					Analysis (Attach list if more space is needed)	Special Instructions/ Conditions of Receipt
			Air	Aqueous	Sed.	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH		
MW-3 6508	6/5/08	1327	X	X						X	X	X	Chloride 300	
MW-4 6508	6/5/08	1205	X	X						X	X	X	BTX 80218	
MW-5 6408	6/4/08	1510	X	X						X	X	X		
MW-6 6408	6/4/08	1445	X	X						X	X	X		
MW-7 6508	6/5/08	1245	X	X						X	X	X		
MW-8 6408	6/4/08	1530	X	X						X	X	X		
WW-1 6408	6/4/08	1345	X	X						X	X	X		
WW-2 6408	6/4/08	1400	X	X						X	X	X		
Dup	6/4/08	—	X	X						X	X	X		

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

QC Requirements (Specify): _____
 Turn Around Time Required: ☒ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____
 1. Relinquished By: **Todd Wells** Date: **6-9-08** Time: **1630**
 2. Relinquished By: _____ Date: _____ Time: _____
 3. Relinquished By: _____ Date: _____ Time: _____

ANALYTICAL REPORT

JOB NUMBER: 355326

Project ID: F STATE NM 039122

Prepared For:

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

Attention: Todd Wells

Date: 06/18/2008



Signature

06/18/08

Date

Name: Sachin G. Kudchadkar

Title: Project Manager III

E-Mail: sachin.kudchadkar@testamericainc.com

TestAmerica Laboratories, Inc
6310 Rothway Drive
Houston, TX 77040

PHONE: 713-690-4444

TOTAL NO. OF PAGES

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SAMPLE INFORMATION

Date: 06/18/2008

Job Number.: 355326

Customer...: Conestoga-Rovers and Associates

Attn.....: Todd Wells

Project Number.....: 99007835

Customer Project ID....: F STATE NM 039122

Project Description....: Analytical

Laboratory Sample ID	Customer Sample ID	Sample Matrix	Date Sampled	Time Sampled	Date Received	Time Received
355326-1	RW-2 6508	Water	06/05/2008	14:15	06/10/2008	09:35

ANALYTICAL REPORT

JOB NUMBER: 355326
Project ID: F STATE NM 039122

Prepared For:

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

Attention: Todd Wells

Date: 06/18/2008

Signature

Name: Sachin G. Kudchadkar

Title: Project Manager III

E-Mail: sachin.kudchadkar@testamericainc.com

Date

TestAmerica Laboratories, Inc
6310 Rothway Drive
Houston, TX 77040

PHONE: 713-690-4444

SAMPLE INFORMATION

Date: 06/18/2008

Job Number.: 355326

Customer.... Conestoga-Rovers and Associates

Attn.....: Todd Wells

Project Number.....: 99007835

Customer Project ID....: F STATE NM 039122

Project Description....: Analytical

Laboratory Sample ID	Customer Sample ID	Sample Matrix	Date Sampled	Time Sampled	Date Received	Time Received
355326-1	RW-2 6508	Water	06/05/2008	14:15	06/10/2008	09:35

Date: 06/18/2008

Customer: Conestoga-Rovers and Associates

ATTN: Todd Wells

Laboratory Sample ID: 355326-1
Date Received.....: 06/10/2008
Time Received.....: 09:35

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
4-846 8021B	GC Volatile Organics											
	Benzene, Water	3.7	U			10.0	10.000	ug/L	400272		06/11/08 0902	nht
	Toluene, Water	3.9	U			10.0	10.000	ug/L	400272		06/11/08 0902	nht
	Ethylbenzene, Water	4.2	U			10.0	10.000	ug/L	400272		06/11/08 0902	nht
	Xylenes (total), Water	3.5	U			30.0	10.000	ug/L	400272		06/11/08 0902	nht
EPA 300.0	Ion Chromatography Analysis											
	Chloride, Water	51.1			1.5	5.0	10	mg/L	200312		06/11/08 0255	sur

QUALITY CONTROL RESULTS

Job Number.: 355326

Report Date.: 06/18/2008

CUSTOMER: Conestoga-Rovers and Associates

PROJECT: F STATE NM 039122

ATTN: Todd Wells

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
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Test Method.....: SW-846 8021B

Units.....: ug/L

Analyst....: mht

Method Description.: GC Volatile Organics

Batch(s)....: 400272

LCS	Laboratory Control Sample	BXS060308B			06/10/2008	1232
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Benzene, Water	52.9071		50.000000		105.8	72-134	
Toluene, Water	52.0171		50.000000		104.0	76-131	
Ethylbenzene, Water	56.1908		50.000000		112.4	75-131	
m,p-Xylene, Water	106.131		100.000000		106.1	75-130	
o-Xylene, Water	53.0635		50.000000		106.1	74-129	
Xylenes (total), Water	163.4023		150.000000		108.9	70-130	
Total BTEX, Water	327.2999		300.000000		109.1	70-130	
Tert-Butyl Methyl Ether Column B, Water	49.9440		50.000000		99.9	76-123	
Benzene Column B, Water	54.0116		50.000000		108.0	72-134	
Toluene Column B, Water	53.6952		50.000000		107.4	76-131	
Ethylbenzene Column B, Water	54.8998		50.000000		109.8	75-131	
m,p-Xylene Column B, Water	109.039		100.000000		109.0	75-130	
o-Xylene Column B, Water	54.3633		50.000000		108.7	74-129	

MB	Method Blank				06/10/2008	1252
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Benzene, Water	ND						
Toluene, Water	ND						
Ethylbenzene, Water	ND						
m,p-Xylene, Water	ND						
o-Xylene, Water	ND						
Xylenes (total), Water	0.0000						
Total BTEX, Water	0.0000						
Tert-Butyl Methyl Ether Column B, Water	ND						
Benzene Column B, Water	ND						
Toluene Column B, Water	ND						
Ethylbenzene Column B, Water	ND						
m,p-Xylene Column B, Water	ND						
o-Xylene Column B, Water	ND						

MS	Matrix Spike	BXS060308A	355325-1		06/10/2008	1611
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Benzene, Water	55.4717		50.000000	ND	111	70-130	
Toluene, Water	54.0173		50.000000	ND	108	70-130	
Ethylbenzene, Water	55.4617		50.000000	ND	111	70-130	
m,p-Xylene, Water	113.114		100.000000	ND	113	70-130	
o-Xylene, Water	54.8266		50.000000	ND	110	70-130	
Xylenes (total), Water	167.9406		150.000000	0.0000	112	70-130	
Total BTEX, Water	333.4209		300.000000	0.0000	111	70-130	
Tert-Butyl Methyl Ether Column B, Water	51.0632		50.000000	ND	102	70-130	
Benzene Column B, Water	54.9772		50.000000	ND	110	70-130	
Toluene Column B, Water	54.5469		50.000000	ND	109	70-130	
Ethylbenzene Column B, Water	54.3438		50.000000	ND	109	70-130	
m,p-Xylene Column B, Water	109.221		100.000000	ND	109	70-130	

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

Job Number.: 355326

Report Date.: 06/18/2008

CUSTOMER: Conestoga-Rovers and Associates

PROJECT: F STATE NM 039122

ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
MS	Matrix Spike	BXS060308A	355325-1		06/10/2008	1611

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
o-Xylene Column B, Water	54.0067		50.000000	ND	108		70-130	

MSD	Matrix Spike Duplicate	BXS060308A	355325-1				06/10/2008	1631
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Benzene, Water	59.0558	55.4717	50.000000	ND	118		70-130	
					6.3		20.0	
Toluene, Water	57.6884	54.0173	50.000000	ND	115		70-130	
					6.6		20.0	
Ethylbenzene, Water	60.4241	55.4617	50.000000	ND	121		70-130	
					8.6		20.0	
m,p-Xylene, Water	121.070	113.114	100.000000	ND	121		70-130	
					6.8		20.0	
o-Xylene, Water	58.9331	54.8266	50.000000	ND	118		70-130	
					7.2		20.0	
Xylenes (total), Water	180.0031	167.9406	150.000000	0.0000	120		70-130	
					6.9		20.0	
Total BTEX, Water	357.2998	333.4209	300.000000	0.0000	119		70-130	
					6.9		20.0	
Tert-Butyl Methyl Ether Column B, Water	52.2327	51.0632	50.000000	ND	104		70-130	
					2.3		20.0	
Benzene Column B, Water	57.8776	54.9772	50.000000	ND	116		70-130	
					5.1		20.0	
Toluene Column B, Water	57.8168	54.5469	50.000000	ND	116		70-130	
					5.8		20.0	
Ethylbenzene Column B, Water	57.9580	54.3438	50.000000	ND	116		70-130	
					6.4		20.0	
m,p-Xylene Column B, Water	115.181	109.221	100.000000	ND	115		70-130	
					5.3		20.0	
o-Xylene Column B, Water	56.9046	54.0067	50.000000	ND	114		70-130	
					5.2		20.0	

Test Method.....: EPA 300.0

Units.....: mg/L

Analyst....: sur

Method Description.: Ion Chromatography Analysis

Batch(s)....: 200312

CCB	Continuing Calibration Blank						06/10/2008	1716
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br)	0							
Chloride	0							
Fluoride (F)	0							
Nitrogen, Nitrate as N (NO3-N)	0							
Sulfate (SO4)	0							
Nitrogen, Nitrite as N (NO2-N)	0							

Job Number.: 355326			QUALITY CONTROL RESULTS			Report Date.: 06/18/2008		
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CUSTOMER: Conestoga-Rovers and Associates			PROJECT: F STATE NM 039122			ATTN:		
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QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
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CCB	Continuing Calibration Blank				06/10/2008	2009
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Bromide (Br)	0						
Chloride	0						
Fluoride (F)	0						
Nitrogen, Nitrate as N (NO3-N)	0						
Sulfate (SO4)	0						
Nitrogen, Nitrite as N (NO2-N)	0						

CCB	Continuing Calibration Blank				06/10/2008	2348
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Bromide (Br)	0						
Chloride	0.1956						
Fluoride (F)	0						
Nitrogen, Nitrate as N (NO3-N)	0						
Sulfate (SO4)	0						
Nitrogen, Nitrite as N (NO2-N)	0						

CCB	Continuing Calibration Blank				06/11/2008	0240
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Bromide (Br)	0						
Chloride	0						
Fluoride (F)	0						
Nitrogen, Nitrate as N (NO3-N)	0						
Sulfate (SO4)	0						
Nitrogen, Nitrite as N (NO2-N)	0						

CCB	Continuing Calibration Blank				06/11/2008	0516
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Bromide (Br)	0						
Chloride	0						
Fluoride (F)	0						
Nitrogen, Nitrate as N (NO3-N)	0						
Sulfate (SO4)	0						
Nitrogen, Nitrite as N (NO2-N)	0						

CCV	Continuing Calibration Verification	WCS49721			06/10/2008	1701
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Bromide (Br)	20.092		20.00		100.5	90.0-110.0	
Chloride	19.980		20.00		99.9	90.0-110.0	
Fluoride (F)	9.9939		10.00		99.9	90.0-110.0	
Nitrogen, Nitrate as N (NO3-N)	10.450		10.0		104.5	90.0-110.0	
Sulfate (SO4)	19.529		20.00		97.6	90.0-110.0	
Nitrogen, Nitrite as N (NO2-N)	9.8345		10.0		98.3	90.0-110.0	

Job Number.: 355326

QUALITY CONTROL RESULTS

Report Date.: 06/18/2008

CUSTOMER: Conestoga-Rovers and Associates

PROJECT: F STATE NM 039122

ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
CCV	Continuing Calibration Verification	WCS49721			06/10/2008	1953

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Bromide (Br)	19.943		20.00		99.7	90.0-110.0	
Chloride	19.932		20.00		99.7	90.0-110.0	
Fluoride (F)	10.044		10.00		100.4	90.0-110.0	
Nitrogen, Nitrate as N (NO3-N)	10.453		10.0		104.5	90.0-110.0	
Sulfate (SO4)	19.532		20.00		97.7	90.0-110.0	
Nitrogen, Nitrite as N (NO2-N)	9.8251		10.0		98.3	90.0-110.0	

CCV	Continuing Calibration Verification	WCS49721				06/10/2008	2332
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Bromide (Br)	19.964		20.00		99.8	90.0-110.0	
Chloride	19.926		20.00		99.6	90.0-110.0	
Fluoride (F)	9.9412		10.00		99.4	90.0-110.0	
Nitrogen, Nitrate as N (NO3-N)	10.449		10.0		104.5	90.0-110.0	
Sulfate (SO4)	19.398		20.00		97.0	90.0-110.0	
Nitrogen, Nitrite as N (NO2-N)	9.8329		10.0		98.3	90.0-110.0	

CCV	Continuing Calibration Verification	WCS49721				06/11/2008	0224
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Bromide (Br)	19.956		20.00		99.8	90.0-110.0	
Chloride	19.811		20.00		99.1	90.0-110.0	
Fluoride (F)	9.6585		10.00		96.6	90.0-110.0	
Nitrogen, Nitrate as N (NO3-N)	10.406		10.0		104.1	90.0-110.0	
Sulfate (SO4)	19.352		20.00		96.8	90.0-110.0	
Nitrogen, Nitrite as N (NO2-N)	9.7945		10.0		97.9	90.0-110.0	

CCV	Continuing Calibration Verification	WCS49721				06/11/2008	0501
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Bromide (Br)	19.889		20.00		99.4	90.0-110.0	
Chloride	19.799		20.00		99.0	90.0-110.0	
Fluoride (F)	9.6325		10.00		96.3	90.0-110.0	
Nitrogen, Nitrate as N (NO3-N)	10.446		10.0		104.5	90.0-110.0	
Sulfate (SO4)	19.524		20.00		97.6	90.0-110.0	
Nitrogen, Nitrite as N (NO2-N)	9.7734		10.0		97.7	90.0-110.0	

DU	Method Duplicate		355303-2	10		06/10/2008	2158
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Bromide (Br), Water	0			0	0	1	
Chloride, Water	3.8915			3.9842	2.4	20	
Fluoride (F), Water	0.9210			0.9245	0.0035	0.3000	
Nitrogen, Nitrate as N (NO3-N), Water	0			0	0	0	
Sulfate (SO4), Water	5.7625			5.8532	1.6	20	
Nitrogen, Nitrite as N (NO2-N), Water	0			0	0	0	

QUALITY CONTROL RESULTS

Job Number.: 355326

Report Date.: 06/18/2008

CUSTOMER: Conestoga-Rovers and Associates

PROJECT: F STATE NM 039122

ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
DU	Method Duplicate		355325-3	10	06/11/2008	0019

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Bromide (Br), Water	0			0.0435	0.0435	0.6000	
Chloride, Water	7.8773			7.8652	0.2	20	
Fluoride (F), Water	0.1402			0.1405	0.0003	0.3000	
Nitrogen, Nitrate as N (NO3-N), Water	0.3468			0.3431	0.0037	0.2500	
Sulfate (SO4), Water	6.2427			6.2340	0.1	20	
Nitrogen, Nitrite as N (NO2-N), Water	0			0	0	0	

DU	Method Duplicate		355328-1	10	06/11/2008	0342
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Bromide (Br), Water	0			0.0393	0.0393	0.6000	
Chloride, Water	9.0189			9.0594	0.4	20	
Fluoride (F), Water	0.1389			0.1331	0.0058	0.3000	
Nitrogen, Nitrate as N (NO3-N), Water	0.2800			0.2712	0.0088	0.2500	
Sulfate (SO4), Water	6.2792			6.3514	1.1	20	
Nitrogen, Nitrite as N (NO2-N), Water	0			0	0	0	

DU	Method Duplicate		355201-1		06/11/2008	0429
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Bromide (Br), Soil	0			0.0657	0.0657	0.6000	
Chloride, Soil	7.8755			8.0272	1.9	20	
Fluoride (F), Soil	0.7060			0.7115	0.0055	0.3000	
Nitrogen, Nitrate as N (NO3-N), Soil	0.1244			0.1254	0.0010	0.2500	
Sulfate (SO4), Soil	21.627			22.038	1.9	20	
Nitrogen, Nitrite as N (NO2-N), Soil	0			0	0	0	

ICB	Initial Calibration Blank				06/10/2008	1424
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Bromide (Br)	0						
Chloride	0						
Fluoride (F)	0						
Nitrogen, Nitrate as N (NO3-N)	0						
Sulfate (SO4)	0						
Nitrogen, Nitrite as N (NO2-N)	0						

ICV	Initial Calibration Verification	WCS49721			06/10/2008	1409
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Bromide (Br)	19.547		20.00		97.7	90.0-110.0	
Chloride	19.512		20.00		97.6	90.0-110.0	
Fluoride (F)	10.166		10.00		101.7	90.0-110.0	
Nitrogen, Nitrate as N (NO3-N)	10.220		10.0		102.2	90.0-110.0	
Sulfate (SO4)	19.049		20.00		95.2	90.0-110.0	
Nitrogen, Nitrite as N (NO2-N)	9.6315		10.0		96.3	90.0-110.0	

Job Number.: 355326

QUALITY CONTROL RESULTS

Report Date.: 06/18/2008

CUSTOMER: Conestoga-Rovers and Associates

PROJECT: F STATE NM 039122

ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
LCS	Laboratory Control Sample	WCS49721			06/10/2008	1456

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Bromide (Br)	19.943		20.00		99.7	90.0-110.0	
Chloride	19.853		20.00		99.3	90.0-110.0	
Fluoride (F)	9.8380		10.00		98.4	90.0-110.0	
Nitrogen, Nitrate as N (NO3-N)	10.456		10.0		104.6	90.0-110.0	
Sulfate (SO4)	19.743		20.00		98.7	90.0-110.0	
Nitrogen, Nitrite as N (NO2-N)	9.7861		10.0		97.9	90.0-110.0	

LCS	Laboratory Control Sample	WCS49721				06/10/2008	2040
Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Bromide (Br)	20.029		20.00		100.1	90.0-110.0	
Chloride	19.803		20.00		99.0	90.0-110.0	
Fluoride (F)	9.7558		10.00		97.6	90.0-110.0	
Nitrogen, Nitrate as N (NO3-N)	10.436		10.0		104.4	90.0-110.0	
Sulfate (SO4)	19.550		20.00		97.8	90.0-110.0	
Nitrogen, Nitrite as N (NO2-N)	9.7919		10.0		97.9	90.0-110.0	

MB	Method Blank					06/10/2008	1440
Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Bromide (Br)	0						
Chloride	0						
Fluoride (F)	0						
Nitrogen, Nitrate as N (NO3-N)	0						
Sulfate (SO4)	0						
Nitrogen, Nitrite as N (NO2-N)	0						

MB	Method Blank					06/10/2008	2024
Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Bromide (Br)	0						
Chloride	0.2058						
Fluoride (F)	0						
Nitrogen, Nitrate as N (NO3-N)	0						
Sulfate (SO4)	0						
Nitrogen, Nitrite as N (NO2-N)	0						

MS	Matrix Spike	WCS49722	355303-2	10		06/10/2008	2214
Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Bromide (Br), Water	9.9491		10.000000	0	99.5	90-110	
Chloride, Water	13.894		10.000000	3.9842	99.1	90-110	
Fluoride (F), Water	2.7438		2.000000	0.9245	91.0	90-110	
Nitrogen, Nitrate as N (NO3-N), Water	1.9776		2.000000	0	98.9	90-110	
Sulfate (SO4), Water	15.609		10.000000	5.8532	97.6	90-110	
Nitrogen, Nitrite as N (NO2-N), Water	1.8590		2.000000	0	93.0	90-110	

QUALITY CONTROL RESULTS

Job Number.: 355326

Report Date.: 06/18/2008

CUSTOMER: Conestoga-Rovers and Associates

PROJECT: F STATE NM 039122

ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
MS	Matrix Spike	WCS49722	355325-3	10	06/11/2008	0035

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br), Water	9.8120		10.000000	0.0435	97.7		90-110	
Chloride, Water	17.605		10.000000	7.8652	97.4		90-110	
Fluoride (F), Water	1.6113		2.000000	0.1405	73.5		90-110	A
Nitrogen, Nitrate as N (NO3-N), Water	2.2013		2.000000	0.3431	92.9		90-110	
Sulfate (SO4), Water	15.527		10.000000	6.2340	92.9		90-110	
Nitrogen, Nitrite as N (NO2-N), Water	1.8462		2.000000	0	92.3		90-110	

MS	Matrix Spike	WCS49722	355328-1	10	06/11/2008	0358
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br), Water	9.8510		10.000000	0.0393	98.1		90-110	
Chloride, Water	18.630		10.000000	9.0594	95.7		90-110	
Fluoride (F), Water	1.6153		2.000000	0.1331	74.1		90-110	A
Nitrogen, Nitrate as N (NO3-N), Water	2.1247		2.000000	0.2712	92.7		90-110	
Sulfate (SO4), Water	15.805		10.000000	6.3514	94.5		90-110	
Nitrogen, Nitrite as N (NO2-N), Water	1.8621		2.000000	0	93.1		90-110	

MS	Matrix Spike	WCS49722	355201-1		06/11/2008	0445
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br), Soil	9.6739		10.000000	0.0657	96.1		90-110	
Chloride, Soil	17.373		10.000000	8.0272	93.5		90-110	
Fluoride (F), Soil	2.7736		2.000000	0.7115	103.1		90-110	
Nitrogen, Nitrate as N (NO3-N), Soil	1.9476		2.000000	0.1254	91.1		90-110	
Sulfate (SO4), Soil	30.073		10.000000	22.038	80.3		90-110	A
Nitrogen, Nitrite as N (NO2-N), Soil	1.8288		2.000000	0	91.4		90-110	

SURROGATE RECOVERIES REPORT

Job Number.: 355326

Report Date.: 06/18/2008

CUSTOMER: Conestoga-Rovers and Associates

PROJECT: F STATE NM 039122

ATTN: Todd Wells

Method.....: GC Volatile Organics
Batch(s).....: 400272

Method Code...: 8021
Test Matrix...: Water

Prep Batch....:
Equipment Code: BTEX02

Lab ID	DT	Sample ID	Date	ATFT	ATFTB	BFB	BFBB
LCS			06/10/2008	97.5	99.7	96.5	99.7
MB			06/10/2008	100.8	101.2	100.9	99.1
355325- 1 MS		MW-3 6508	06/10/2008	97.1	95.7	97.1	96.3
355325- 1 MSD		MW-3 6508	06/10/2008	96.5	95.5	99.0	95.9
355326- 1		RW-2 6508	06/11/2008	111.1	97.1	103.9	95.6

Test	Test Description	Limits
ATFT	a,a,a-Trifluorotoluene	70 - 135
ATFTB	a,a,a-Trifluorotoluene Column B	70 - 135
BFB	BFB (Surrogate)	64 - 136
BFBB	BFB (Surrogate) Column B	64 - 136

QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 06/18/2008

REPORT COMMENTS

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

General Information:

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

Explanation of Qualifiers:

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

Explanation of General QC Outliers:

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

QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 06/18/2008

observed above the RL in the associated samples.

- G - Marginal outlier within 1% of acceptance criteria.
- r - RPD value is outside method acceptance criteria.
- C - Poor RPD values observed due to the non-homogenous nature of the sample.
- O - Sample required dilution due to matrix interference.
- D - Sample reported from a dilution.
- d - Spike and/or surrogate diluted.
- E - The reported concentration exceeds the instrument calibration.
- F - The analyte is outside QC limits and was not detected in any associated samples in the analytical batch.
- H - Continuing Calibration Verification (CCV) standard is not associated with the samples reported.
- q - See the subcontract final report for qualifier explanation.
- W - The MS/MSD recoveries are outside QC acceptance criteria because the amount spiked is much less than the amount found in the sample.
- K - High recovery will not affect the quality of reported results.
- Z - See case narrative.

Explanation of Organic QC Outliers:

- e - Method blank analysis yielded phthalate concentrations above the RL. Phthalates are recognized potential laboratory contaminants. Its presence in the sample up to five times the amount reported in the blank may be attributed to laboratory contamination.
- S - Sample reanalyzed/reextracted due to poor surrogate recovery. Reanalysis confirmed original analysis indicating a possible matrix interference.
- T - Sample analysis yielded poor surrogate recovery.
- R - The RPD between the two GC columns is greater than 40% and no anomalies are present. The higher result is reported as per EPA Method 8000B.
- I - The RPD between the two GC columns is greater than 40% and anomalies are present. The lower of the two results has been reported.
- X - Gaseous compound. In-house QC limits are advisory.
- Y - Ketone compounds have poor purge efficiency. In-house QC limits are advisory.
- f - Surrogate not associated with reported analytes.

Explanation of Inorganic QC Outliers:

- Q - Method blank analysis yielded target analytes above the RL. Associated sample results are greater than 10 times the concentrations observed in the method blank.
- V - The RPD control limit for sample results less than 5 times the RL is +/- the RL value. Sample and duplicate results are within method acceptance criteria.
- e - Serial dilution failed due to matrix interference.
- g - Sample result quantitated by Method of Standard Additions (MSA) due to the analytical spike recovery being below 85 percent. The correlation coefficient for the MSA is greater than or equal to 0.995.
- s - BOD/CBOD seed value is not within method acceptance criteria. Due to the nature of the test method, the sample cannot be reanalyzed.
- l - BOD/CBOD LCS value is not within method acceptance criteria. Due to the nature of the test method, sample cannot be reanalyzed.
- N - Spiked sample recovery is not within control limits.
- n - Sample result quantitated by Method of Standard Additions (MSA) due to the analytical spike recovery being below 85 percent. The correlation coefficient for the MSA is less than 0.995.
- * - Duplicate analysis is not within control limits.

Abbreviations:

- Batch - Designation given to identify a specific extraction, digestion, preparation, or analysis set.
- CCV - Continuing Calibration Verification
- CRA - Low level standard check - GFAA, Mercury
- CRI - Low level standard check - TCP
- Dil Fac - Dilution Factor - Secondary dilution analysis

QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 06/18/2008

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

Method References:

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

LABORATORY CHRONICLE

Job Number: 355326

Date: 06/18/2008

CUSTOMER: Conestoga-Rovers and Associates

PROJECT: F STATE NM 039122

ATTN: Todd Wells

Lab ID: 355326-1 Client ID: RW-2 6508

Date Recvd: 06/10/2008 Sample Date: 06/05/2008

METHOD DESCRIPTION
SW-846 8021B GC Volatile Organics
EPA 300.0 Ion Chromatography Analysis

RUN#	BATCH#	PREP BT # (S)	DATE/TIME ANALYZED	DILUTION
1	400272		06/11/2008 0902	10.000
1	200312		06/11/2008 0255	10

ANALYTICAL REPORT

JOB NUMBER: 355328
Project ID: F STATE NM 039122

Prepared For:

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

Attention: Todd Wells

Date: 06/25/2008



Signature

06/25/08

Date

Name: Sachin G. Kudchadkar

Title: Project Manager III

E-Mail: sachin.kudchadkar@testamericainc.com

TestAmerica Laboratories, Inc
6310 Rothway Drive
Houston, TX 77040

PHONE: 713-690-4444

TOTAL NO. OF PAGES

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SAMPLE INFORMATION

Date: 06/25/2008

Job Number.: 355328

Customer...: Conestoga-Rovers and Associates

Attn.....: Todd Wells

Project Number.....: 99007835

Customer Project ID....: F STATE NM 039122

Project Description....: Analytical

Laboratory Sample ID	Customer Sample ID	Sample Matrix	Date Sampled	Time Sampled	Date Received	Time Received
355328-1	RW-3 6508	Water	06/05/2008	15:05	06/10/2008	09:35

Date: 06/25/2008

Job Number: 355328

CUSTOMER: Conestoga-Rovers and Associates

PROJECT: F STATE NM 039122

ATTN: Todd Wells

Customer Sample ID: RW-3 6508
Date Sampled.....: 06/05/2008
Time Sampled.....: 15:05
Sample Matrix.....: Water

Laboratory Sample ID: 355328-1
Date Received.....: 06/10/2008
Time Received.....: 09:35

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q-FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
N-846 8021B	GC Volatile Organics										
	Benzene, Water	3.7	U	3.7	10.0	10.000	ug/L	400275		06/11/08 1656	mht
	Toluene, Water	3.9	U	3.9	10.0	10.000	ug/L	400275		06/11/08 1656	mht
	Ethylbenzene, Water	4.2	U	4.2	10.0	10.000	ug/L	400275		06/11/08 1656	mht
	Xylenes (total), Water	12.9	J	3.5	30.0	10.000	ug/L	400275		06/11/08 1656	mht
EPA 300.0	Ion Chromatography Analysis										
	Chloride, Water	90.6		1.5	5.0	10	mg/L	200312		06/11/08 0327	sur

QUALITY CONTROL RESULTS

Job Number.: 355328

Report Date.: 06/25/2008

CUSTOMER: Conestoga-Rovers and Associates

PROJECT: F STATE NM 039122

ATTN: Todd Wells

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
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Test Method.....: SW-846 8021B

Units.....: ug/L

Analyst....: mht

Method Description.: GC Volatile Organics

Batch(s)....: 400275

LCS	Laboratory Control Sample	BXS060308B			06/11/2008	1616
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Benzene, Water	51.8903		50.000000		103.8	72-134	
Toluene, Water	49.7478		50.000000		99.5	76-131	
Ethylbenzene, Water	46.5604		50.000000		93.1	75-131	
m,p-Xylene, Water	99.9842		100.000000		100.0	75-130	
o-Xylene, Water	49.3855		50.000000		98.8	74-129	
Xylenes (total), Water	149.370		150.000000		99.6	70-130	
Tert-Butyl Methyl Ether Column B, Water	43.1904		50.000000		86.4	76-123	
Benzene Column B, Water	49.5873		50.000000		99.2	72-134	
Toluene Column B, Water	49.2154		50.000000		98.4	76-131	
Ethylbenzene Column B, Water	48.1761		50.000000		96.4	75-131	
m,p-Xylene Column B, Water	99.1782		100.000000		99.2	75-130	
o-Xylene Column B, Water	49.0803		50.000000		98.2	74-129	

MB	Method Blank				06/11/2008	1636
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Benzene, Water	ND						
Toluene, Water	ND						
Ethylbenzene, Water	ND						
m,p-Xylene, Water	ND						
o-Xylene, Water	ND						
Xylenes (total), Water	ND						
Tert-Butyl Methyl Ether Column B, Water	ND						
Benzene Column B, Water	ND						
Toluene Column B, Water	ND						
Ethylbenzene Column B, Water	ND						
m,p-Xylene Column B, Water	ND						
o-Xylene Column B, Water	ND						

MS	Matrix Spike	BXS060308A	355328-1	10.000	06/11/2008	1857
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Benzene, Water	54.6798		50.000000	ND	109	70-130	
Toluene, Water	53.2574		50.000000	ND	107	70-130	
Ethylbenzene, Water	45.6111		50.000000	ND	91	70-130	
m,p-Xylene, Water	106.830		100.000000	1.29407	106	70-130	
o-Xylene, Water	51.0168		50.000000	ND	102	70-130	
Xylenes (total), Water	157.846		150.000000	1.29407	104	70-130	
Benzene Column B, Water	51.4058		50.000000	ND	103	70-130	
Toluene Column B, Water	51.0677		50.000000	ND	102	70-130	
Ethylbenzene Column B, Water	49.9320		50.000000	ND	100	70-130	
m,p-Xylene Column B, Water	98.9509		100.000000	0.68723	98	70-130	
o-Xylene Column B, Water	50.4224		50.000000	ND	101	70-130	

QUALITY CONTROL RESULTS

Job Number.: 355328

Report Date.: 06/25/2008

CUSTOMER: Conestoga-Rovers and Associates

PROJECT: F STATE NM 039122

ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
MSD	Matrix Spike Duplicate	BXS060308A	355328-1	10.000	06/11/2008	1917

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Benzene, Water	51.2580	54.6798	50.000000	ND	103		70-130	
					6.5		20.0	
Toluene, Water	49.0201	53.2574	50.000000	ND	98		70-130	
					8.3		20.0	
Ethylbenzene, Water	45.7610	45.6111	50.000000	ND	92		70-130	
					0.3		20.0	
m,p-Xylene, Water	98.9852	106.830	100.000000	1.29407	98		70-130	
					7.6		20.0	
o-Xylene, Water	48.8750	51.0168	50.000000	ND	98		70-130	
					4.3		20.0	
Xylenes (total), Water	147.860	157.846	150.000000	1.29407	98		70-130	
					6.5		20.0	
Benzene Column B, Water	48.3778	51.4058	50.000000	ND	97		70-130	
					6.1		20.0	
Toluene Column B, Water	47.6423	51.0677	50.000000	ND	95		70-130	
					6.9		20.0	
Ethylbenzene Column B, Water	47.0909	49.9320	50.000000	ND	94		70-130	
					5.9		20.0	
m,p-Xylene Column B, Water	93.3735	98.9509	100.000000	0.68723	93		70-130	
					5.8		20.0	
o-Xylene Column B, Water	47.7621	50.4224	50.000000	ND	96		70-130	
					5.4		20.0	

Test Method.....: EPA 300.0

Units.....: mg/L

Analyst....: sur

Method Description.: Ion Chromatography Analysis

Batch(s)....: 200312

CCB	Continuing Calibration Blank						06/10/2008	1716
Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br)	0							
Chloride	0							
Fluoride (F)	0							
Nitrogen, Nitrate as N (NO3-N)	0							
Sulfate (SO4)	0							
Nitrogen, Nitrite as N (NO2-N)	0							

CCB	Continuing Calibration Blank						06/10/2008	2009
Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br)	0							
Chloride	0							
Fluoride (F)	0							
Nitrogen, Nitrate as N (NO3-N)	0							
Sulfate (SO4)	0							
Nitrogen, Nitrite as N (NO2-N)	0							

QUALITY CONTROL RESULTS

Job Number.: 355328

Report Date.: 06/25/2008

CUSTOMER: Conestoga-Rovers and Associates

PROJECT: F STATE NM 039122

ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
CCB	Continuing Calibration Blank				06/10/2008	2348

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Bromide (Br)	0						
Chloride	0.1956						
Fluoride (F)	0						
Nitrogen, Nitrate as N (NO3-N)	0						
Sulfate (SO4)	0						
Nitrogen, Nitrite as N (NO2-N)	0						

CCB	Continuing Calibration Blank				06/11/2008	0240
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Bromide (Br)	0						
Chloride	0						
Fluoride (F)	0						
Nitrogen, Nitrate as N (NO3-N)	0						
Sulfate (SO4)	0						
Nitrogen, Nitrite as N (NO2-N)	0						

CCB	Continuing Calibration Blank				06/11/2008	0516
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Bromide (Br)	0						
Chloride	0						
Fluoride (F)	0						
Nitrogen, Nitrate as N (NO3-N)	0						
Sulfate (SO4)	0						
Nitrogen, Nitrite as N (NO2-N)	0						

CCV	Continuing Calibration Verification	WCS49721			06/10/2008	1701
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Bromide (Br)	20.092		20.00		100.5	90.0-110.0	
Chloride	19.980		20.00		99.9	90.0-110.0	
Fluoride (F)	9.9939		10.00		99.9	90.0-110.0	
Nitrogen, Nitrate as N (NO3-N)	10.450		10.0		104.5	90.0-110.0	
Sulfate (SO4)	19.529		20.00		97.6	90.0-110.0	
Nitrogen, Nitrite as N (NO2-N)	9.8345		10.0		98.3	90.0-110.0	

CCV	Continuing Calibration Verification	WCS49721			06/10/2008	1953
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Bromide (Br)	19.943		20.00		99.7	90.0-110.0	
Chloride	19.932		20.00		99.7	90.0-110.0	
Fluoride (F)	10.044		10.00		100.4	90.0-110.0	
Nitrogen, Nitrate as N (NO3-N)	10.453		10.0		104.5	90.0-110.0	
Sulfate (SO4)	19.532		20.00		97.7	90.0-110.0	
Nitrogen, Nitrite as N (NO2-N)	9.8251		10.0		98.3	90.0-110.0	

QUALITY CONTROL RESULTS

Job Number.: 355328

Report Date.: 06/25/2008

CUSTOMER: Conestoga-Rovers and Associates

PROJECT: F STATE NM 039122

ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
CCV	Continuing Calibration Verification	WCS49721			06/10/2008	2332

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Bromide (Br)	19.964		20.00		99.8	90.0-110.0	
Chloride	19.926		20.00		99.6	90.0-110.0	
Fluoride (F)	9.9412		10.00		99.4	90.0-110.0	
Nitrogen, Nitrate as N (NO3-N)	10.449		10.0		104.5	90.0-110.0	
Sulfate (SO4)	19.398		20.00		97.0	90.0-110.0	
Nitrogen, Nitrite as N (NO2-N)	9.8329		10.0		98.3	90.0-110.0	

CCV	Continuing Calibration Verification	WCS49721				06/11/2008	0224
Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Bromide (Br)	19.956		20.00		99.8	90.0-110.0	
Chloride	19.811		20.00		99.1	90.0-110.0	
Fluoride (F)	9.6585		10.00		96.6	90.0-110.0	
Nitrogen, Nitrate as N (NO3-N)	10.406		10.0		104.1	90.0-110.0	
Sulfate (SO4)	19.352		20.00		96.8	90.0-110.0	
Nitrogen, Nitrite as N (NO2-N)	9.7945		10.0		97.9	90.0-110.0	

CCV	Continuing Calibration Verification	WCS49721				06/11/2008	0501
Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Bromide (Br)	19.889		20.00		99.4	90.0-110.0	
Chloride	19.799		20.00		99.0	90.0-110.0	
Fluoride (F)	9.6325		10.00		96.3	90.0-110.0	
Nitrogen, Nitrate as N (NO3-N)	10.446		10.0		104.5	90.0-110.0	
Sulfate (SO4)	19.524		20.00		97.6	90.0-110.0	
Nitrogen, Nitrite as N (NO2-N)	9.7734		10.0		97.7	90.0-110.0	

DU	Method Duplicate		355303-2	10		06/10/2008	2158
Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Bromide (Br), Water	0			0	0	1	
Chloride, Water	3.8915			3.9842	2.4	20	
Fluoride (F), Water	0.9210			0.9245	0.0035	0.3000	
Nitrogen, Nitrate as N (NO3-N), Water	0			0	0	0	
Sulfate (SO4), Water	5.7625			5.8532	1.6	20	
Nitrogen, Nitrite as N (NO2-N), Water	0			0	0	0	

DU	Method Duplicate		355325-3	10		06/11/2008	0019
Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Bromide (Br), Water	0			0.0435	0.0435	0.6000	
Chloride, Water	7.8773			7.8652	0.2	20	
Fluoride (F), Water	0.1402			0.1405	0.0003	0.3000	
Nitrogen, Nitrate as N (NO3-N), Water	0.3468			0.3431	0.0037	0.2500	
Sulfate (SO4), Water	6.2427			6.2340	0.1	20	
Nitrogen, Nitrite as N (NO2-N), Water	0			0	0	0	

QUALITY CONTROL RESULTS

Job Number.: 355328

Report Date.: 06/25/2008

CUSTOMER: Conestoga-Rovers and Associates

PROJECT: F STATE-NM 039122

ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
DU	Method Duplicate		355328-1	10	06/11/2008	0342

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br), Water	0			0.0393	0.0393		0.6000	
Chloride, Water	9.0189			9.0594	0.4		20	
Fluoride (F), Water	0.1389			0.1331	0.0058		0.3000	
Nitrogen, Nitrate as N (NO3-N), Water	0.2800			0.2712	0.0088		0.2500	
Sulfate (SO4), Water	6.2792			6.3514	1.1		20	
Nitrogen, Nitrite as N (NO2-N), Water	0			0	0		0	

DU	Method Duplicate		355201-1				06/11/2008	0429
Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br), Soil	0			0.0657	0.0657		0.6000	
Chloride, Soil	7.8755			8.0272	1.9		20	
Fluoride (F), Soil	0.7060			0.7115	0.0055		0.3000	
Nitrogen, Nitrate as N (NO3-N), Soil	0.1244			0.1254	0.0010		0.2500	
Sulfate (SO4), Soil	21.627			22.038	1.9		20	
Nitrogen, Nitrite as N (NO2-N), Soil	0			0	0		0	

ICB	Initial Calibration Blank						06/10/2008	1424
Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br)	0							
Chloride	0							
Fluoride (F)	0							
Nitrogen, Nitrate as N (NO3-N)	0							
Sulfate (SO4)	0							
Nitrogen, Nitrite as N (NO2-N)	0							

ICV	Initial Calibration Verification	WCS49721					06/10/2008	1409
Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br)	19.547		20.00		97.7		90.0-110.0	
Chloride	19.512		20.00		97.6		90.0-110.0	
Fluoride (F)	10.166		10.00		101.7		90.0-110.0	
Nitrogen, Nitrate as N (NO3-N)	10.220		10.0		102.2		90.0-110.0	
Sulfate (SO4)	19.049		20.00		95.2		90.0-110.0	
Nitrogen, Nitrite as N (NO2-N)	9.6315		10.0		96.3		90.0-110.0	

LCS	Laboratory Control Sample	WCS49721					06/10/2008	1456
Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br)	19.943		20.00		99.7		90.0-110.0	
Chloride	19.853		20.00		99.3		90.0-110.0	
Fluoride (F)	9.8380		10.00		98.4		90.0-110.0	
Nitrogen, Nitrate as N (NO3-N)	10.456		10.0		104.6		90.0-110.0	
Sulfate (SO4)	19.743		20.00		98.7		90.0-110.0	
Nitrogen, Nitrite as N (NO2-N)	9.7861		10.0		97.9		90.0-110.0	

QUALITY CONTROL RESULTS

Job Number.: 355328

Report Date.: 06/25/2008

CUSTOMER: Conestoga-Rovers and Associates

PROJECT: F STATE NM 039122

ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
LCS	Laboratory Control Sample	WCS49721			06/10/2008	2040

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Bromide (Br)	20.029		20.00		100.1	90.0-110.0	
Chloride	19.803		20.00		99.0	90.0-110.0	
Fluoride (F)	9.7558		10.00		97.6	90.0-110.0	
Nitrogen, Nitrate as N (NO3-N)	10.436		10.0		104.4	90.0-110.0	
Sulfate (SO4)	19.550		20.00		97.8	90.0-110.0	
Nitrogen, Nitrite as N (NO2-N)	9.7919		10.0		97.9	90.0-110.0	

MB	Method Blank					06/10/2008	1440
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Bromide (Br)	0						
Chloride	0						
Fluoride (F)	0						
Nitrogen, Nitrate as N (NO3-N)	0						
Sulfate (SO4)	0						
Nitrogen, Nitrite as N (NO2-N)	0						

MB	Method Blank					06/10/2008	2024
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Bromide (Br)	0						
Chloride	0.2058						
Fluoride (F)	0						
Nitrogen, Nitrate as N (NO3-N)	0						
Sulfate (SO4)	0						
Nitrogen, Nitrite as N (NO2-N)	0						

MS	Matrix Spike	WCS49722	355303-2	10		06/10/2008	2214
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Bromide (Br), Water	9.9491		10.000000	0	99.5	90-110	
Chloride, Water	13.894		10.000000	3.9842	99.1	90-110	
Fluoride (F), Water	2.7438		2.000000	0.9245	91.0	90-110	
Nitrogen, Nitrate as N (NO3-N), Water	1.9776		2.000000	0	98.9	90-110	
Sulfate (SO4), Water	15.609		10.000000	5.8532	97.6	90-110	
Nitrogen, Nitrite as N (NO2-N), Water	1.8590		2.000000	0	93.0	90-110	

MS	Matrix Spike	WCS49722	355325-3	10		06/11/2008	0035
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Bromide (Br), Water	9.8120		10.000000	0.0435	97.7	90-110	
Chloride, Water	17.605		10.000000	7.8652	97.4	90-110	
Fluoride (F), Water	1.6113		2.000000	0.1405	73.5	90-110	A
Nitrogen, Nitrate as N (NO3-N), Water	2.2013		2.000000	0.3431	92.9	90-110	
Sulfate (SO4), Water	15.527		10.000000	6.2340	92.9	90-110	
Nitrogen, Nitrite as N (NO2-N), Water	1.8462		2.000000	0	92.3	90-110	

QUALITY CONTROL RESULTS

Job Number.: 355328

Report Date.: 06/25/2008

CUSTOMER: Conestoga-Rovers and Associates

PROJECT: F STATE NM 039122

ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
MS	Matrix Spike	WCS49722	355328-1	10	06/11/2008	0358

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Bromide (Br), Water	9.8510		10.000000	0.0393	98.1	90-110	
Chloride, Water	18.630		10.000000	9.0594	95.7	90-110	
Fluoride (F), Water	1.6153		2.000000	0.1331	74.1	90-110	A
Nitrogen, Nitrate as N (NO3-N), Water	2.1247		2.000000	0.2712	92.7	90-110	
Sulfate (SO4), Water	15.805		10.000000	6.3514	94.5	90-110	
Nitrogen, Nitrite as N (NO2-N), Water	1.8621		2.000000	0	93.1	90-110	

MS	Matrix Spike	WCS49722	355201-1			06/11/2008	0445
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Bromide (Br), Soil	9.6739		10.000000	0.0657	96.1	90-110	
Chloride, Soil	17.373		10.000000	8.0272	93.5	90-110	
Fluoride (F), Soil	2.7736		2.000000	0.7115	103.1	90-110	
Nitrogen, Nitrate as N (NO3-N), Soil	1.9476		2.000000	0.1254	91.1	90-110	
Sulfate (SO4), Soil	30.073		10.000000	22.038	80.3	90-110	A
Nitrogen, Nitrite as N (NO2-N), Soil	1.8288		2.000000	0	91.4	90-110	

SURROGATE RECOVERIES REPORT

Job Number.: 355328

Report Date.: 06/25/2008

CUSTOMER: Conestoga-Rovers and Associates

PROJECT: F STATE NM 039122

ATTN: Todd Wells

Method.....: GC Volatile Organics
Batch(s).....: 400275

Method Code...: 8021
Test Matrix...: Water

Prep Batch....:
Equipment Code: BTEX02

Lab ID	DT	Sample ID	Date	ATFT	ATFTB	BFB	BFBB
LCS			06/11/2008	99.4	99.2	92.9	93.9
MB			06/11/2008	101.4	100.1	97.8	93.4
355328- 1		RW-3 6508	06/11/2008	105.8	98.5	96.8	97.7
355328- 1 MS		RW-3 6508	06/11/2008	100.0	95.0	95.7	94.4
355328- 1 MSD		RW-3 6508	06/11/2008	100.1	95.2	99.1	92.1

Test	Test Description	Limits
ATFT	a,a,a-Trifluorotoluene	70 - 135
ATFTB	a,a,a-Trifluorotoluene Column B	70 - 135
BFB	BFB (Surrogate)	64 - 136
BFBB	BFB (Surrogate) Column B	64 - 136

QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 06/25/2008

REPORT COMMENTS

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

General Information:

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

Explanation of Qualifiers:

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

Explanation of General QC Outliers:

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

QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 06/25/2008

observed above the RL in the associated samples.

- G - Marginal outlier within 1% of acceptance criteria.
- r - RPD value is outside method acceptance criteria.
- C - Poor RPD values observed due to the non-homogenous nature of the sample.
- O - Sample required dilution due to matrix interference.
- D - Sample reported from a dilution.
- d - Spike and/or surrogate diluted.
- E - The reported concentration exceeds the instrument calibration.
- F - The analyte is outside QC limits and was not detected in any associated samples in the analytical batch.
- H - Continuing Calibration Verification (CCV) standard is not associated with the samples reported.
- q - See the subcontract final report for qualifier explanation.
- W - The MS/MSD recoveries are outside QC acceptance criteria because the amount spiked is much less than the amount found in the sample.
- K - High recovery will not affect the quality of reported results.
- Z - See case narrative.

Explanation of Organic QC Outliers:

- e - Method blank analysis yielded phthalate concentrations above the RL. Phthalates are recognized potential laboratory contaminants. Its presence in the sample up to five times the amount reported in the blank may be attributed to laboratory contamination.
- S - Sample reanalyzed/reextracted due to poor surrogate recovery. Reanalysis confirmed original analysis indicating a possible matrix interference.
- T - Sample analysis yielded poor surrogate recovery.
- R - The RPD between the two GC columns is greater than 40% and no anomalies are present. The higher result is reported as per EPA Method 8000B.
- I - The RPD between the two GC columns is greater than 40% and anomalies are present. The lower of the two results has been reported.
- X - Gaseous compound. In-house QC limits are advisory.
- Y - Ketone compounds have poor purge efficiency. In-house QC limits are advisory.
- f - Surrogate not associated with reported analytes.

Explanation of Inorganic QC Outliers:

- Q - Method blank analysis yielded target analytes above the RL. Associated sample results are greater than 10 times the concentrations observed in the method blank.
- V - The RPD control limit for sample results less than 5 times the RL is +/- the RL value. Sample and duplicate results are within method acceptance criteria.
- e - Serial dilution failed due to matrix interference.
- g - Sample result quantitated by Method of Standard Additions (MSA) due to the analytical spike recovery being below 85 percent. The correlation coefficient for the MSA is greater than or equal to 0.995.
- s - BOD/cBOD seed value is not within method acceptance criteria. Due to the nature of the test method, the sample cannot be reanalyzed.
- l - BOD/cBOD LCS value is not within method acceptance criteria. Due to the nature of the test method, sample cannot be reanalyzed.
- N - Spiked sample recovery is not within control limits.
- n - Sample result quantitated by Method of Standard Additions (MSA) due to the analytical spike recovery being below 85 percent. The correlation coefficient for the MSA is less than 0.995.
- * - Duplicate analysis is not within control limits.

Abbreviations:

- Batch - Designation given to identify a specific extraction, digestion, preparation, or analysis set.
- CCV - Continuing Calibration Verification
- CRA - Low level standard check - GFAA, Mercury
- CRI - Low level standard check - ICP
- Dil Fac - Dilution Factor - Secondary dilution analysis

QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 06/25/2008

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

Method References:

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

LABORATORY CHRONICLE

Job Number: 355328

Date: 06/25/2008

CUSTOMER: Conestoga-Rovers and Associates

PROJECT: F STATE NM 039122

ATTN: Todd Wells

Lab ID: 355328-1 Client ID: RW-3 6508

Date Recvd: 06/10/2008 Sample Date: 06/05/2008

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT # (S)	DATE/TIME ANALYZED	DILUTION
SW-846 8021B	GC Volatile Organics	1	400275		06/11/2008 1656	10.000
EPA 300.0	Ion Chromatography Analysis	1	200312		06/11/2008 0327	10

ANALYTICAL REPORT

Job Number: 600-1097-1

Job Description: F State Lea County NM

For:

Conestoga-Rovers & Associates, Inc.
2135 South Loop 250 West
Midland, TX 79703
Attention: Mr. Todd Weels



Approved for release.
Sachin G Kudchadkar
Project Manager II
10/20/2008 3:19 PM

Sachin G Kudchadkar
Project Manager II
sachin.kudchadkar@testamericainc.com
10/20/2008

The test results in this report meet all NELAP requirements unless specified within the case narrative. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Project Manager.

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TestAmerica Laboratories, Inc.

TestAmerica Houston 6310 Rothway Street, Houston, TX 77040

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EXECUTIVE SUMMARY - Detections

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 600-1097-1

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
600-1097-1 Chloride	MW-6	130	4.0	mg/L	300.0

METHOD SUMMARY

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 600-1097-1

Description		Lab Location	Method	Preparation Method
Matrix	Water			
Volatile Organic Compounds (GC)		TAL HOU	SW846 8021B	
Purge and Trap		TAL HOU		SW846 5030B
Anions, Ion Chromatography		TAL HOU	MCAWW 300.0	

Lab References:

TAL HOU = TestAmerica Houston

Method References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 600-1097-1

Method	Analyst	Analyst ID
SW846 8021B	Tobias, Merlin H	MHT
MCAWW 300.0	Puranik, Surendra U	SUP

SAMPLE SUMMARY

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 600-1097-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
600-1097-1	MW-6	Water	09/04/2008 1045	09/05/2008 0950

SAMPLE RESULTS

Mr. Todd Weels
Conestoga-Rovers & Associates, Inc.
2135 South Loop 250 West
Midland, TX 79703

Job Number: 600-1097-1

Client Sample ID: MW-6
Lab Sample ID: 600-1097-1

Date Sampled: 09/04/2008 1045
Date Received: 09/05/2008 0950
Client Matrix: Water

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Method: 8021B			Date Analyzed:		09/10/2008	1107
Prep Method: 5030B			Date Prepared:		09/10/2008	1107
Benzene	0.37	U	ug/L	0.37	1.0	1.0
Toluene	0.39	U	ug/L	0.39	1.0	1.0
Ethylbenzene	0.42	U	ug/L	0.42	1.0	1.0
Xylenes, Total	0.35	U	ug/L	0.35	1.0	1.0
Surrogate			Acceptance Limits			
4-Bromofluorobenzene	101		%	64 - 136		
a,a,a-Trifluorotoluene	107		%	70 - 135		
Method: 300.0			Date Analyzed:		09/08/2008	2302
Chloride	130		mg/L	0.92	4.0	10

DATA REPORTING QUALIFIERS

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 600-1097-1

Lab Section	Qualifier	Description
GC VOA		
	U	Indicates the analyte was analyzed for but not detected.
General Chemistry		
	U	Indicates the analyte was analyzed for but not detected.

QUALITY CONTROL RESULTS

Quality Control Results

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 600-1097-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC VOA					
Analysis Batch:600-3100					
LCS 600-3100/1	Lab Control Spike	T	Water	8021B	
MB 600-3100/2	Method Blank	T	Water	8021B	
600-1097-1	MW-6	T	Water	8021B	

Report Basis

T = Total

General Chemistry

Analysis Batch:600-2723					
LCS 600-2723/4	Lab Control Spike	T	Water	300.0	
MB 600-2723/3	Method Blank	T	Water	300.0	
600-1097-1	MW-6	T	Water	300.0	
600-1097-1DU	Duplicate	T	Water	300.0	
600-1097-1MS	Matrix Spike	T	Water	300.0	

Report Basis

T = Total

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 600-1097-1

Surrogate Recovery Report

8021B Volatile Organic Compounds (GC)

Client Matrix: Water

Lab Sample ID	Client Sample ID	BFB1 %Rec	TFT1 %Rec
600-1097-1	MW-6	101	107
MB 600-3100/2		101	106
LCS 600-3100/1		98	102

Surrogate	Acceptance Limits
BFB = 4-Bromofluorobenzene	64-136
TFT = a,a,a-Trifluorotoluene	70-135

Quality Control Results

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 600-1097-1

Method Blank - Batch: 600-3100

Method: 8021B

Preparation: 5030B

Lab Sample ID: MB 600-3100/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 09/09/2008 2241
Date Prepared: 09/09/2008 2241

Analysis Batch: 600-3100
Prep Batch: N/A
Units: ug/L

Instrument ID: GCVOA-02
Lab File ID: A090808_061.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL
Injection Volume:
Column ID: PRIMARY

Analyte	Result	Qual	MDL	RL
Benzene	0.37	U	0.37	1.0
Benzene	0.37	U	0.37	1.0
Toluene	0.39	U	0.39	1.0
Toluene	0.39	U	0.39	1.0
Ethylbenzene	0.42	U	0.42	1.0
Ethylbenzene	0.42	U	0.42	1.0
Xylenes, Total	0.35	U	0.35	1.0
Xylenes, Total	0.35	U	0.35	1.0

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	101	64 - 136
a,a,a-Trifluorotoluene	106	70 - 135

Lab Control Spike - Batch: 600-3100

Method: 8021B

Preparation: 5030B

Lab Sample ID: LCS 600-3100/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 09/09/2008 2220
Date Prepared: 09/09/2008 2220

Analysis Batch: 600-3100
Prep Batch: N/A
Units: ug/L

Instrument ID: GCVOA-02
Lab File ID: B090808_060.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL
Injection Volume:
Column ID: PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Benzene	50.0	44.9	90	72 - 134	
Benzene	50.0	47.4	95	72 - 134	
Toluene	50.0	45.2	90	76 - 131	
Toluene	50.0	45.6	91	76 - 131	
Ethylbenzene	50.0	46.0	92	75 - 131	
Ethylbenzene	50.0	47.5	95	75 - 131	

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	98	64 - 136
a,a,a-Trifluorotoluene	102	70 - 135

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 600-1097-1

Method Blank - Batch: 600-2723

Method: 300.0
Preparation: N/A

Lab Sample ID: MB 600-2723/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 09/08/2008 1308
Date Prepared: N/A

Analysis Batch: 600-2723
Prep Batch: N/A
Units: mg/L

Instrument ID: WC06 IC
Lab File ID: C:\PEAKNET\DATA\09080
Initial Weight/Volume:
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
Chloride	0.092	U	0.092	0.40

Lab Control Spike - Batch: 600-2723

Method: 300.0
Preparation: N/A

Lab Sample ID: LCS 600-2723/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 09/08/2008 1324
Date Prepared: N/A

Analysis Batch: 600-2723
Prep Batch: N/A
Units: mg/L

Instrument ID: WC06 IC
Lab File ID: C:\PEAKNET\DATA\09080
Initial Weight/Volume:
Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Chloride	20.0	20.2	101	90 - 110	

Matrix Spike - Batch: 600-2723

Method: 300.0
Preparation: N/A

Lab Sample ID: 600-1097-1
Client Matrix: Water
Dilution: 10
Date Analyzed: 09/08/2008 2333
Date Prepared: N/A

Analysis Batch: 600-2723
Prep Batch: N/A
Units: mg/L

Instrument ID: WC06 IC
Lab File ID: C:\PEAKNET\DATA\09080
Initial Weight/Volume:
Final Weight/Volume: 5 mL

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Chloride	130	100	229	98	90 - 110	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 600-1097-1

Duplicate - Batch: 600-2723

Method: 300.0
Preparation: N/A

Lab Sample ID: 600-1097-1
Client Matrix: Water
Dilution: 10
Date Analyzed: 09/08/2008 2318
Date Prepared: N/A

Analysis Batch: 600-2723
Prep Batch: N/A
Units: mg/L

Instrument ID: WC06 IC
Lab File ID: C:\PEAKNET\DATA\09080
Initial Weight/Volume:
Final Weight/Volume: 5 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Chloride	130	127	3	20	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Login Sample Receipt Check List

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 600-1097-1

Login Number: 1097

Creator: Trenery, Michael J

List Number: 1

List Source: TestAmerica Houston

Question	T / F / NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

ANALYTICAL REPORT

Job Number: 600-3921-1

Job Description: New Mexico F State /Lea County

For:

Conestoga-Rovers & Associates, Inc.
2135 South Loop 250 West
Midland, TX 79703
Attention: Mr. Todd Wells



Approved for release.
Sachin G Kudchadkar
Project Manager II
11/25/2008 10:51 AM

Sachin G Kudchadkar
Project Manager II
sachin.kudchadkar@testamericainc.com
11/25/2008

The test results in this report meet all NELAP requirements unless specified within the case narrative. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Project Manager.

TestAmerica Houston Certifications and Approvals: TX NELAP T104704223-06-TX, ARDEQ 88-0759, LADEQ 01967, OKDEQ 9503, UT DOH GULF

TestAmerica Laboratories, Inc.

TestAmerica Houston 6310 Rothway Street, Houston, TX 77040

Tel (713) 690-4444 Fax (713) 690-5646 www.testamericainc.com



EXECUTIVE SUMMARY - Detections

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 600-3921-1

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
600-3921-1 Chloride	MW 3111408	32	0.40	mg/L	300.0
600-3921-2 Chloride	MW 4111408	52	4.0	mg/L	300.0
600-3921-3 Chloride	MW 5111408	100	4.0	mg/L	300.0
600-3921-4 Chloride	MW 6111408	130	4.0	mg/L	300.0
600-3921-5 Chloride	MW 7111408	66	4.0	mg/L	300.0
600-3921-6 Chloride	MW 8111408	47	0.40	mg/L	300.0
600-3921-7 Chloride	WW 111408	73	4.0	mg/L	300.0
600-3921-8 Chloride	WW 2111408	73	4.0	mg/L	300.0
600-3921-9 Chloride	DUP 111408	32	0.40	mg/L	300.0

METHOD SUMMARY

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 600-3921-1

Description		Lab Location	Method	Preparation Method
Matrix	Water			
Volatile Organic Compounds (GC)		TAL HOU	SW846 8021B	
Purge and Trap		TAL HOU		SW846 5030B
Anions, Ion Chromatography		TAL HOU	MCAWW 300.0	

Lab References:

TAL HOU = TestAmerica Houston

Method References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 600-3921-1

Method	Analyst	Analyst ID
SW846 8021B	Tobias, Merlin H	MHT
MCAWW 300.0	Puranik, Surendra U	SUP

SAMPLE SUMMARY

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 600-3921-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
600-3921-1	MW 3111408	Water	11/14/2008 1345	11/18/2008 0920
600-3921-2	MW 4111408	Water	11/14/2008 1305	11/18/2008 0920
600-3921-3	MW 5111408	Water	11/14/2008 1320	11/18/2008 0920
600-3921-4	MW 6111408	Water	11/14/2008 1400	11/18/2008 0920
600-3921-5	MW 7111408	Water	11/14/2008 1335	11/18/2008 0920
600-3921-6	MW 8111408	Water	11/14/2008 1245	11/18/2008 0920
600-3921-7	WW 111408	Water	11/14/2008 1215	11/18/2008 0920
600-3921-8	WW 2111408	Water	11/14/2008 1225	11/18/2008 0920
600-3921-9	DUP 111408	Water	11/14/2008 0000	11/18/2008 0920
600-3921-10TB	TRIP BLANK	Water	11/14/2008 0000	11/18/2008 0920

SAMPLE RESULTS

Mr. Todd Wells
Conestoga-Rovers & Associates, Inc.
2135 South Loop 250 West
Midland, TX 79703

Job Number: 600-3921-1

Client Sample ID: MW 3111408
Lab Sample ID: 600-3921-1

Date Sampled: 11/14/2008 1345
Date Received: 11/18/2008 0920
Client Matrix: Water

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Method: 8021B				Date Analyzed: 11/20/2008 0232		
Prep Method: 5030B				Date Prepared: 11/20/2008 0232		
Benzene	0.37	U	ug/L	0.37	1.0	1.0
Toluene	0.39	U	ug/L	0.39	1.0	1.0
Ethylbenzene	0.42	U	ug/L	0.42	1.0	1.0
Xylenes, Total	0.35	U	ug/L	0.35	1.0	1.0
Surrogate	Acceptance Limits					
4-Bromofluorobenzene	94	%			64 - 136	
4-Bromofluorobenzene	90	%			64 - 136	
a,a,a-Trifluorotoluene	93	%			70 - 135	
a,a,a-Trifluorotoluene	96	%			70 - 135	
Method: 300.0				Date Analyzed: 11/20/2008 0119		
Chloride	32		mg/L	0.10	0.40	1.0

Mr. Todd Wells
Conestoga-Rovers & Associates, Inc.
2135 South Loop 250 West
Midland, TX 79703

Job Number: 600-3921-1

Client Sample ID: MW 4111408
Lab Sample ID: 600-3921-2

Date Sampled: 11/14/2008 1305
Date Received: 11/18/2008 0920
Client Matrix: Water

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Method: 8021B				Date Analyzed:	11/20/2008 0252	
Prep Method: 5030B				Date Prepared:	11/20/2008 0252	
Benzene	0.37	U	ug/L	0.37	1.0	1.0
Toluene	0.39	U	ug/L	0.39	1.0	1.0
Ethylbenzene	0.42	U	ug/L	0.42	1.0	1.0
Xylenes, Total	0.35	U	ug/L	0.35	1.0	1.0
Surrogate	Acceptance Limits					
4-Bromofluorobenzene	94		%		64 - 136	
4-Bromofluorobenzene	92		%		64 - 136	
a,a,a-Trifluorotoluene	95		%		70 - 135	
a,a,a-Trifluorotoluene	97		%		70 - 135	
Method: 300.0				Date Analyzed:	11/20/2008 0219	
Chloride	52		mg/L	1.0	4.0	10

Mr. Todd Wells
Conestoga-Rovers & Associates, Inc.
2135 South Loop 250 West
Midland, TX 79703

Job Number: 600-3921-1

Client Sample ID: MW 5111408
Lab Sample ID: 600-3921-3

Date Sampled: 11/14/2008 1320
Date Received: 11/18/2008 0920
Client Matrix: Water

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Method: 8021B				Date Analyzed: 11/20/2008 0312		
Prep Method: 5030B				Date Prepared: 11/20/2008 0312		
Benzene	0.37	U	ug/L	0.37	1.0	1.0
Toluene	0.39	U	ug/L	0.39	1.0	1.0
Ethylbenzene	0.42	U	ug/L	0.42	1.0	1.0
Xylenes, Total	0.35	U	ug/L	0.35	1.0	1.0
Surrogate	Acceptance Limits					
4-Bromofluorobenzene	104		%		64 - 136	
4-Bromofluorobenzene	104		%		64 - 136	
a,a,a-Trifluorotoluene	106		%		70 - 135	
a,a,a-Trifluorotoluene	109		%		70 - 135	
Method: 300.0				Date Analyzed: 11/20/2008 0339		
Chloride	100		mg/L	1.0	4.0	10

Mr. Todd Wells
Conestoga-Rovers & Associates, Inc.
2135 South Loop 250 West
Midland, TX 79703

Job Number: 600-3921-1

Client Sample ID: MW 6111408
Lab Sample ID: 600-3921-4

Date Sampled: 11/14/2008 1400
Date Received: 11/18/2008 0920
Client Matrix: Water

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Method: 8021B				Date Analyzed: 11/20/2008 0332		
Prep Method: 5030B				Date Prepared: 11/20/2008 0332		
Benzene	0.37	U	ug/L	0.37	1.0	1.0
Toluene	0.39	U	ug/L	0.39	1.0	1.0
Ethylbenzene	0.42	U	ug/L	0.42	1.0	1.0
Xylenes, Total	0.35	U	ug/L	0.35	1.0	1.0
Surrogate	Acceptance Limits					
4-Bromofluorobenzene	99		%		64 - 136	
4-Bromofluorobenzene	99		%		64 - 136	
a,a,a-Trifluorotoluene	103		%		70 - 135	
a,a,a-Trifluorotoluene	106		%		70 - 135	
Method: 300.0				Date Analyzed: 11/20/2008 0419		
Chloride	130		mg/L	1.0	4.0	10

Mr. Todd Wells
 Conestoga-Rovers & Associates, Inc.
 2135 South Loop 250 West
 Midland, TX 79703

Job Number: 600-3921-1

Client Sample ID: MW 7111408
 Lab Sample ID: 600-3921-5

Date Sampled: 11/14/2008 1335
 Date Received: 11/18/2008 0920
 Client Matrix: Water

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Method: 8021B			Date Analyzed:	11/20/2008 0452		
Prep Method: 5030B			Date Prepared:	11/20/2008 0452		
Benzene	0.37	U	ug/L	0.37	1.0	1.0
Toluene	0.39	U	ug/L	0.39	1.0	1.0
Ethylbenzene	0.42	U	ug/L	0.42	1.0	1.0
Xylenes, Total	0.35	U	ug/L	0.35	1.0	1.0
Surrogate	Acceptance Limits					
4-Bromofluorobenzene	91		%		64 - 136	
4-Bromofluorobenzene	91		%		64 - 136	
a,a,a-Trifluorotoluene	93		%		70 - 135	
a,a,a-Trifluorotoluene	96		%		70 - 135	
Method: 300.0			Date Analyzed:	11/20/2008 0539		
Chloride	66		mg/L	1.0	4.0	10

Mr. Todd Wells
Conestoga-Rovers & Associates, Inc.
2135 South Loop 250 West
Midland, TX 79703

Job Number: 600-3921-1

Client Sample ID: MW 8111408
Lab Sample ID: 600-3921-6

Date Sampled: 11/14/2008 1245
Date Received: 11/18/2008 0920
Client Matrix: Water

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Method: 8021B				Date Analyzed: 11/20/2008 0512		
Prep Method: 5030B				Date Prepared: 11/20/2008 0512		
Benzene	0.37	U	ug/L	0.37	1.0	1.0
Toluene	0.39	U	ug/L	0.39	1.0	1.0
Ethylbenzene	0.42	U	ug/L	0.42	1.0	1.0
Xylenes, Total	0.35	U	ug/L	0.35	1.0	1.0
Surrogate	Acceptance Limits					
4-Bromofluorobenzene	90		%		64 - 136	
4-Bromofluorobenzene	90		%		64 - 136	
a,a,a-Trifluorotoluene	93		%		70 - 135	
a,a,a-Trifluorotoluene	96		%		70 - 135	
Method: 300.0				Date Analyzed: 11/20/2008 0559		
Chloride	47		mg/L	0.10	0.40	1.0

Mr. Todd Wells
Conestoga-Rovers & Associates, Inc.
2135 South Loop 250 West
Midland, TX 79703

Job Number: 600-3921-1

Client Sample ID: WW 111408
Lab Sample ID: 600-3921-7

Date Sampled: 11/14/2008 1215
Date Received: 11/18/2008 0920
Client Matrix: Water

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Method: .8021B				Date Analyzed: 11/20/2008 0532		
Prep Method: 5030B				Date Prepared: 11/20/2008 0532		
Benzene	0.37	U	ug/L	0.37	1.0	1.0
Toluene	0.39	U	ug/L	0.39	1.0	1.0
Ethylbenzene	0.42	U	ug/L	0.42	1.0	1.0
Xylenes, Total	0.35	U	ug/L	0.35	1.0	1.0
Surrogate	Acceptance Limits					
4-Bromofluorobenzene	96		%		64 - 136	
4-Bromofluorobenzene	96		%		64 - 136	
a,a,a-Trifluorotoluene	99		%		70 - 135	
a,a,a-Trifluorotoluene	102		%		70 - 135	
Method: 300.0				Date Analyzed: 11/20/2008 0739		
Chloride	73		mg/L	1.0	4.0	10

Mr. Todd Wells
Conestoga-Rovers & Associates, Inc.
2135 South Loop 250 West
Midland, TX 79703

Job Number: 600-3921-1

Client Sample ID: WW 2111408
Lab Sample ID: 600-3921-8

Date Sampled: 11/14/2008 1225
Date Received: 11/18/2008 0920
Client Matrix: Water

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Method: 8021B			Date Analyzed:	11/20/2008 0552		
Prep Method: 5030B			Date Prepared:	11/20/2008 0552		
Benzene	0.37	U	ug/L	0.37	1.0	1.0
Toluene	0.39	U	ug/L	0.39	1.0	1.0
Ethylbenzene	0.42	U	ug/L	0.42	1.0	1.0
Xylenes, Total	0.35	U	ug/L	0.35	1.0	1.0
Surrogate				Acceptance Limits		
4-Bromofluorobenzene	91		%		64 - 136	
4-Bromofluorobenzene	91		%		64 - 136	
a,a,a-Trifluorotoluene	93		%		70 - 135	
a,a,a-Trifluorotoluene	95		%		70 - 135	
Method: 300.0			Date Analyzed:	11/20/2008 0819		
Chloride	73		mg/L	1.0	4.0	10

Mr. Todd Wells
Conestoga-Rovers & Associates, Inc.
2135 South Loop 250 West
Midland, TX 79703

Job Number: 600-3921-1

Client Sample ID: DUP 111408
Lab Sample ID: 600-3921-9

Date Sampled: 11/14/2008 0000
Date Received: 11/18/2008 0920
Client Matrix: Water

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Method: 8021B				Date Analyzed:	11/20/2008 0611	
Prep Method: 5030B				Date Prepared:	11/20/2008 0611	
Benzene	0.37	U	ug/L	0.37	1.0	1.0
Toluene	0.39	U	ug/L	0.39	1.0	1.0
Ethylbenzene	0.42	U	ug/L	0.42	1.0	1.0
Xylenes, Total	0.35	U	ug/L	0.35	1.0	1.0
Surrogate	Acceptance Limits					
4-Bromofluorobenzene	95		%		64 - 136	
a,a,a-Trifluorotoluene	97		%		70 - 135	
Method: 300.0				Date Analyzed:	11/20/2008 0839	
Chloride	32		mg/L	0.10	0.40	1.0

Mr. Todd Wells
Conestoga-Rovers & Associates, Inc.
2135 South Loop 250 West
Midland, TX 79703

Job Number: 600-3921-1

Client Sample ID: TRIP BLANK
Lab Sample ID: 600-3921-10

Date Sampled: 11/14/2008 0000
Date Received: 11/18/2008 0920
Client Matrix: Water

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Method: 8021B				Date Analyzed: 11/20/2008 0632		
Prep Method: 5030B				Date Prepared: 11/20/2008 0632		
Benzene	0.37	U	ug/L	0.37	1.0	1.0
Toluene	0.39	U	ug/L	0.39	1.0	1.0
Ethylbenzene	0.42	U	ug/L	0.42	1.0	1.0
Xylenes, Total	0.35	U	ug/L	0.35	1.0	1.0
Surrogate	Acceptance Limits					
4-Bromofluorobenzene	90		%		64 - 136	
4-Bromofluorobenzene	90		%		64 - 136	
a,a,a-Trifluorotoluene	93		%		70 - 135	
a,a,a-Trifluorotoluene	96		%		70 - 135	

DATA REPORTING QUALIFIERS

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 600-3921-1

Lab Section	Qualifier	Description
GC VOA	U	Indicates the analyte was analyzed for but not detected.
	F	MS or MSD exceeds the control limits
General Chemistry	U	Indicates the analyte was analyzed for but not detected.

QUALITY CONTROL RESULTS

Quality Control Results

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 600-3921-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC VOA					
Analysis Batch:600-6121					
LCS 600-6121/1	Lab Control Spike	T	Water	8021B	
MB 600-6121/2	Method Blank	T	Water	8021B	
600-3921-1	MW 3111408	T	Water	8021B	
600-3921-2	MW 4111408	T	Water	8021B	
600-3921-3	MW 5111408	T	Water	8021B	
600-3921-4	MW 6111408	T	Water	8021B	
600-3921-4MS	Matrix Spike	T	Water	8021B	
600-3921-4MSD	Matrix Spike Duplicate	T	Water	8021B	
600-3921-5	MW 7111408	T	Water	8021B	
600-3921-6	MW 8111408	T	Water	8021B	
600-3921-7	WW 111408	T	Water	8021B	
600-3921-8	WW 2111408	T	Water	8021B	
600-3921-9	DUP 111408	T	Water	8021B	
600-3921-10TB	TRIP BLANK	T	Water	8021B	

Report Basis

T = Total

General Chemistry

Analysis Batch:600-6091					
LCS 600-6091/49	Lab Control Spike	T	Water	300.0	
MB 600-6091/50	Method Blank	T	Water	300.0	
600-3921-1	MW 3111408	T	Water	300.0	
600-3921-2	MW 4111408	T	Water	300.0	
600-3921-3	MW 5111408	T	Water	300.0	
600-3921-4	MW 6111408	T	Water	300.0	
600-3921-4DU	Duplicate	T	Water	300.0	
600-3921-4MS	Matrix Spike	T	Water	300.0	
600-3921-5	MW 7111408	T	Water	300.0	
600-3921-6	MW 8111408	T	Water	300.0	
600-3921-7	WW 111408	T	Water	300.0	
600-3921-8	WW 2111408	T	Water	300.0	
600-3921-9	DUP 111408	T	Water	300.0	

Report Basis

T = Total

Quality Control Results

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 600-3921-1

Surrogate Recovery Report

8021B Volatile Organic Compounds (GC)

Client Matrix: Water

Lab Sample ID	Client Sample ID	BFB1 %Rec	BFB2 %Rec	TFT1 %Rec	TFT2 %Rec
600-3921-1	MW 3111408	94	90	93	96
600-3921-2	MW 4111408	94	92	95	97
600-3921-3	MW 5111408	104	104	106	109
600-3921-4	MW 6111408	99	99	103	106
600-3921-5	MW 7111408	91	91	93	96
600-3921-6	MW 8111408	90	90	93	96
600-3921-7	WW 111408	96	96	99	102
600-3921-8	WW 2111408	91	91	93	95
600-3921-9	DUP 111408	95		97	
600-3921-10	TRIP BLANK	90	90	93	96
MB 600-6121/2		89	89	91	94
LCS 600-6121/1		100	102	104	108
600-3921-4 MS	MW 6111408 MS		99		103
600-3921-4 MSD	MW 6111408 MSD		106		110

Surrogate	Acceptance Limits
BFB = 4-Bromofluorobenzene	64-136
TFT = a,a,a-Trifluorotoluene	70-135

Quality Control Results

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 600-3921-1

Method Blank - Batch: 600-6121

Method: 8021B
Preparation: 5030B

Lab Sample ID: MB 600-6121/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 11/20/2008 0132
Date Prepared: 11/20/2008 0132

Analysis Batch: 600-6121
Prep Batch: N/A
Units: ug/L

Instrument ID: GCVOA-02
Lab File ID: A111908_033.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL
Injection Volume:
Column ID: PRIMARY

Analyte	Result	Qual	MDL	RL
Benzene	0.37	U	0.37	1.0
Toluene	0.39	U	0.39	1.0
Ethylbenzene	0.42	U	0.42	1.0
Xylenes, Total	0.35	U	0.35	1.0

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	89	64 - 136
4-Bromofluorobenzene	89	64 - 136
a,a,a-Trifluorotoluene	91	70 - 135
a,a,a-Trifluorotoluene	94	70 - 135

Lab Control Spike - Batch: 600-6121

Method: 8021B
Preparation: 5030B

Lab Sample ID: LCS 600-6121/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 11/20/2008 0112
Date Prepared: 11/20/2008 0112

Analysis Batch: 600-6121
Prep Batch: N/A
Units: ug/L

Instrument ID: GCVOA-02
Lab File ID: B111908_032.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL
Injection Volume:
Column ID: PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Benzene	50.0	61.4	123	72 - 134	
Toluene	50.0	63.2	126	76 - 131	
Ethylbenzene	50.0	62.0	124	75 - 131	

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	100	64 - 136
4-Bromofluorobenzene	102	64 - 136
a,a,a-Trifluorotoluene	104	70 - 135
a,a,a-Trifluorotoluene	108	70 - 135

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 600-3921-1

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 600-6121

Method: 8021B

Preparation: 5030B

MS Lab Sample ID: 600-3921-4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 11/20/2008 0352
Date Prepared: 11/20/2008 0352

Analysis Batch: 600-6121
Prep Batch: N/A

Instrument ID: GCVOA-02
Lab File ID: B111908_040.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL
Injection Volume:
Column ID: PRIMARY

MSD Lab Sample ID: 600-3921-4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 11/20/2008 0412
Date Prepared: 11/20/2008 0412

Analysis Batch: 600-6121
Prep Batch: N/A

Instrument ID: GCVOA-02
Lab File ID: B111908_041.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL
Injection Volume:
Column ID: PRIMARY

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Benzene	120	126	39 - 150	5	20		
Toluene	124	129	46 - 148	4	20		
Ethylbenzene	120	128	32 - 160	6	20		
Surrogate	MS % Rec		MSD % Rec		Acceptance Limits		
4-Bromofluorobenzene		99	106		64 - 136		
a,a,a-Trifluorotoluene		103	110		70 - 135		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 600-3921-1

Method Blank - Batch: 600-6091

Method: 300.0

Preparation: N/A

Lab Sample ID: MB 600-6091/50
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 11/19/2008 1618
Date Prepared: N/A

Analysis Batch: 600-6091
Prep Batch: N/A
Units: mg/L

Instrument ID: ICS20000
Lab File ID: N/A
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
Chloride	0.10	U	0.10	0.40

Lab Control Spike - Batch: 600-6091

Method: 300.0

Preparation: N/A

Lab Sample ID: LCS 600-6091/49
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 11/19/2008 1638
Date Prepared: N/A

Analysis Batch: 600-6091
Prep Batch: N/A
Units: mg/L

Instrument ID: ICS20000
Lab File ID: N/A
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Chloride	20.0	19.3	96	90 - 110	

Matrix Spike - Batch: 600-6091

Method: 300.0

Preparation: N/A

Lab Sample ID: 600-3921-4
Client Matrix: Water
Dilution: 10
Date Analyzed: 11/20/2008 0459
Date Prepared: N/A

Analysis Batch: 600-6091
Prep Batch: N/A
Units: mg/L

Instrument ID: ICS20000
Lab File ID: N/A
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Chloride	130	100	217	91	90 - 110	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 600-3921-1

Duplicate - Batch: 600-6091

Method: 300.0

Preparation: N/A

Lab Sample ID: 600-3921-4

Analysis Batch: 600-6091

Instrument ID: ICS20000

Client Matrix: Water

Prep Batch: N/A

Lab File ID: N/A

Dilution: 10

Units: mg/L

Initial Weight/Volume: 5 mL

Date Analyzed: 11/20/2008 0439

Final Weight/Volume: 5 mL

Date Prepared: N/A

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Chloride	130	127	1	20	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Login Sample Receipt Check List

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 600-3921-1

Login Number: 3921

List Source: TestAmerica Houston

Creator: Claunch, Todd F

List Number: 1

Question	T / F / NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.1
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	