AP-57

Annual GW Monitoring report

DATE: 2008

AP058

CONESTOGA-ROVERS
& ASSOCIATES

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January 26, 2009 Reference No. 046121 (5)

Mr. Matt Hudson
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
UPSTREAM BUSINESS UNIT
15 Smith Road, Room 5317
Midland, TX 79705

RE: Transmittal of Final 2008Annual Groundwater Monitoring Report
Mark Owen #9 Reserve Pit (AP#57)
NW/4 of SE/4 (J) Section 34, T-21-S; R-37-E
Lea County, New Mexico

Mr. Hudson:

Conestoga-Rovers and Associates, Inc. (CRA) is pleased to provide Chevron Environmental Management Company (CEMC) with a one paper copy and three CD copies of the subject 2008 Annual Groundwater Monitoring Report. CRA understands that CEMC will forward this report to Mr. Glen Von Gonten with the New Mexico Oil Conservation Division (NMOCD) in Santa Fe, New Mexico. The NMOCD has not yet responded to CRA's Revised Stage 1 Abatement Plan that was submitted to the agency in March 2007 or the Interim Investigation Report submitted to the agency in March 2008. CRA appreciates this opportunity to provide environmental services to CEMC. Please contact me if you have any questions or require more information.

Sincerely,
CONESTOGA-ROVERS & ASSOCIATES

Desireé Crenshaw
Environmental Scientist/Project Manager

Attachments: 1 paper copy of Final 2008 Annual Groundwater Monitoring Report
3 CD copies of Final 2008 Annual Groundwater Monitoring Report

2008 ANNUAL GROUNDWATER MONITORING REPORT

CHEVRON U.S.A., INC.
MARK OWEN #9 RESERVE PIT (AP #57)
NW/4 OF SE/4 (J) SECTION 34, T-21-S; R-37-E
LEA COUNTY, NEW MEXICO

2008 ANNUAL GROUNDWATER MONITORING REPORT

CHEVRON U.S.A., INC.
MARK OWEN #9 RESERVE PIT (AP #57)
NW/4 OF SE/4 (J) SECTION 34, T-21-S; R-37-E
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

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JANUARY 21, 2009
REF. NO. 046121 (5)

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1.0 INTRODUCTION

This Annual Groundwater Monitoring Report presents groundwater data collected during the 2008 reporting period at Mark Owen #9 Reserve Pit (hereafter referred to as the "Site"). On April 25, and September 16, 2008, Conestoga-Rovers & Associates (CRA) conducted the semi-annual groundwater monitoring events on behalf of Chevron Environmental Management Company (CEMC).

The legal description of the Site is the NW/4 of the SE/4 of Section 34, Township 21 South, Range 37 East, Lea County, New Mexico (FIGURE 1). The Site is situated immediately southeast of the town of Eunice, New Mexico and is associated with a release of fluids from the reserve pit utilized in the drilling of the Mark Owen #9 oil well by Chevron in 2005. Global Positioning System (GPS) coordinates for the site are Latitude 32° 25'56.49" North and Longitude 103° 08' 46.27" West. The Abatement Plan number assigned to the Site is reported as #57. The Mark Owen #9 well site is currently operated by Chevron USA.

A Revised Stage 1 Abatement Plan for the Mark Owen #9 Reserve Pit was submitted on behalf of CEMC by CRA to the New Mexico Oil Conservation Division (NMOCD) in a correspondence dated March 13, 2007. The NMOCD has not yet provided a written response to the March 2007 submittal that included data from soil and groundwater investigation and remedial activities performed at the site (by Environmental Plus, Inc.) at the site in 2006. Consequently, an investigation was performed at the site in October 2007 to collect current information associated with the indicated May 2006 release of drilling fluids from the reserve pit into the surrounding soils and groundwater. An Interim Investigation Report was submitted to the agency in March 2008 summarizing the results of the October 2007 investigation. Currently the Site is monitored semi-annually by CRA.

2.0 REGULATORY FRAMEWORK

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

Analyte	NMWQCC Standard for Groundwater (mg/L)
Chloride[2]	250
Fluoride[2]	1.6
Nitrate (NO_3 as N)[2]	10
Sulfate (SO_4)[2]	600
Total Dissolved Solids (TDS)[2]	1,000
Benzene[1]	0.01
Toluene[1]	0.75
Ethylbenzene[1]	0.75
Total Xylenes[1]	0.62

Notes:
1) NMWQCC Human Health Standards per NMAC 20.6.2.3103A
2) NMWQCC Other Standards for DOMESTIC Water Supply per NMAC 20.6.2.3103B

3.0 2008 GROUNDWATER MONITORING ACTIVITIES

The Site is monitored semi-annually with a network of four monitor wells (MW-1, MW-2, MW-3, and MW-4) installed in October 2007. Each well has an above-ground surface completion with protective bollards.

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

The groundwater samples were placed on ice in insulated coolers and chilled to a temperature of approximately 4°C (40°F). The coolers were sealed for shipment and proper chain-of-custody documentation accompanied the samples to TestAmerica, Inc of Houston, Texas using EPA-approved chain-of-custody procedures. The water samples were analyzed for total petroleum hydrocarbons by (TPH) by EPA Method 8015 modified for diesel range organics (DRO) and gasoline range organics (GRO) benzene, toluene, ethylbenzene and xylenes (BTEX) by EPA Method 8021B, RCRA 8 Metals by EPA Methods 6010B/7470A and groundwater quality (total alkalinity, chloride, sulfate and total dissolved solids (TDS)) by EPA Methods 160.1, 300.0 and 310.1, respectively. The non-hazardous fluids recovered during the April 2008 event were disposed of in June 2008. The fluids 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 AND GRADIENT

Groundwater elevation data are presented in TABLE I and are consistent with elevations from the October 2007 investigation. Groundwater gradient maps for April and September 2008 are presented in FIGURES 3 and 4, respectively. Depth to groundwater ranged from 32.60-feet to 36.40-feet below top of casing on April 25, 2008 and from 32.81-feet to 36.48-feet below top of casing on September 16, 2008. Groundwater flow at the Site is to the southeast at a gradient of 0.004-ft/ft.

3.2 ANALYTICAL RESULTS

The 2008 analytical results are summarized in TABLE II and TABLE III. Two monitor wells (MW-1 and MW-4) exceeded chloride and TDS NMWQCC standards. All four monitoring wells exhibited BTEX and RCRA 8 metals concentrations below NMWQCC standards. The groundwater analytical summaries (including comparisons to applicable NMWQCC standards) are provided in TABLES II and III. Isopleth maps approximating chloride and TDS concentrations for both April and September 2008 events are shown on FIGURES 5 and 6, respectively.

Groundwater COCs detected above the NMWQCC "Other Standards for Domestic Water Supply" are highlighted in TABLE III and are listed below:

- Chloride was detected at concentrations above the NMWQCC "Other Standards for Domestic Water Supply" (250 mg/L) in MW-1 and MW-4 during both the April and September 2008 events;

- Total Dissolved Solids were detected at concentrations above the NMWQCC "Other Standards for Domestic Water Supply" (1,000 mg/L) in MW-1 and MW-4 during the September 2008 event.

Two duplicate samples were collected from MW-4 during the April and September 2008 events. Duplicate constituents were detected without any significant deviations. Copies of the certified analytical reports and chain-of-custody documentation are attached in APPENDIX A.

4.0 SUMMARY OF FINDINGS

Based on groundwater assessment activities performed by CRA at the Site in April and September, 2008, the summaries of findings include the following:

- CRA/CEMC has yet to receive comments on a Revised Stage 1 AP Plan (AP#57) that was submitted to the NMOCD on March 13, 2007. Consequently, a Site investigation was performed in October 2007 and a groundwater sampling event conducted on November 1, 2007. An Interim Investigation Report was submitted to the agency in March 2008. CRA conducted semi-annual groundwater monitoring for 2008;

- The depth to groundwater from TOC ranged from 32.60-feet to 36.40-feet during the April 2008 event and from 32.81-feet to 36.48-feet during the September 2008 event. Groundwater flow at the Site is to the southeast at a gradient of 0.004-ft/ft;

- Two monitor wells exceeded NMOCD "Other Standards for Domestic Water Supply" for chlorides and TDS during both the April and September 2008 events: MW-1 and MW-4;

- All four monitoring wells exhibited BTEX, Sulfate, and RCRA 8 metals concentrations below their respective NMWQCC standards;

- Since groundwater monitoring was initiated in November 2007, chloride and TDS concentrations in MW-4 (September 2008) have exhibited an approximate 30% decrease.

5.0 RECOMMENDATIONS

Based upon the summary of findings presented in this report, the following is recommended:

- Delineate groundwater impacts to the north, east and south of the reserve pit;
- Continue semi-annual groundwater monitoring and sampling activities in 2009;
- Omit RCRA 8 metals and total petroleum hydrocarbon (TPH) analysis from future groundwater sampling events.

All of Which is Respectfully Submitted,

CONESTOGA-ROVERS & ASSOCIATES

Thomas C. Larson
Senior Project Geologist

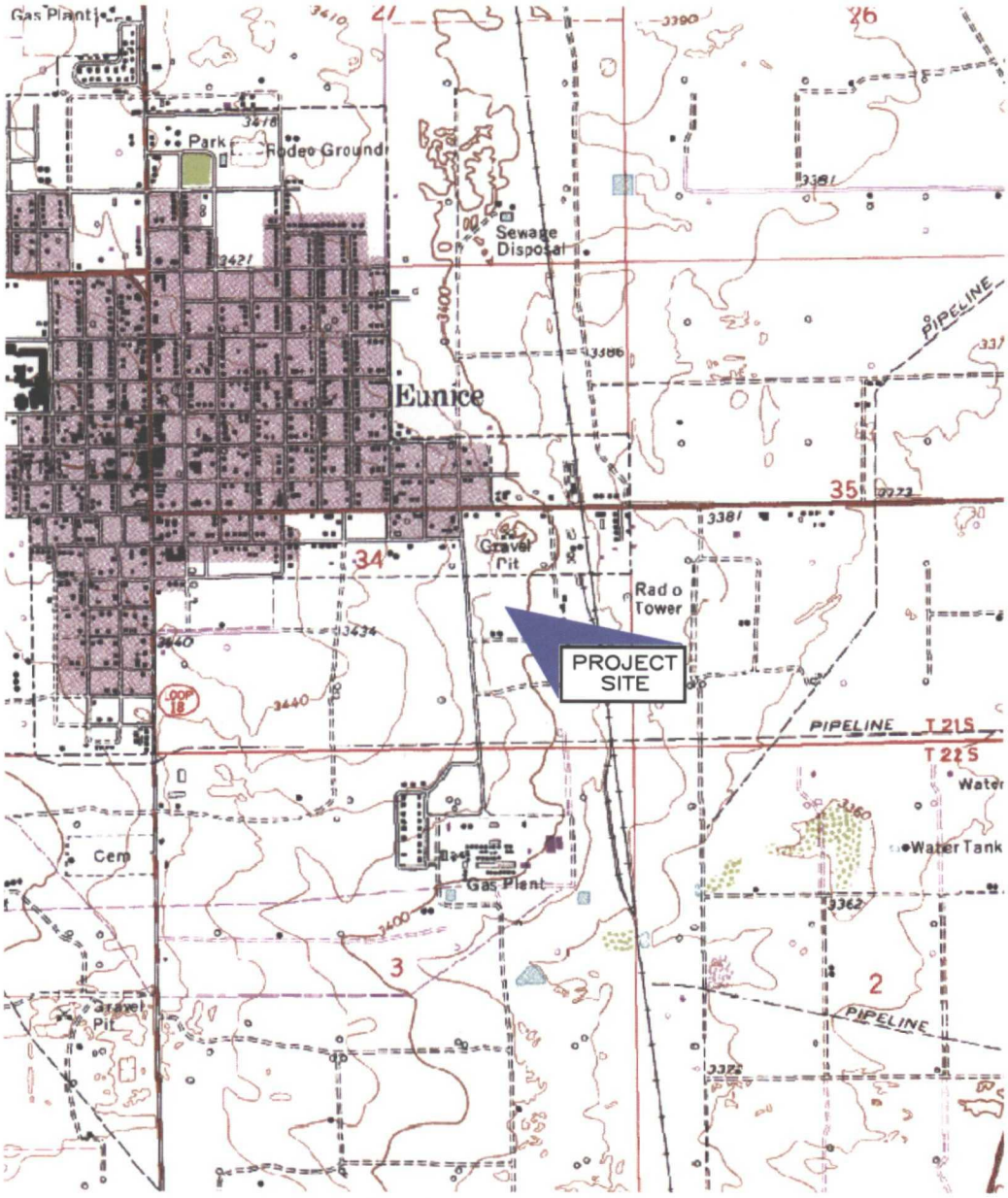
Desireé Crenshaw
Project Manager

FIGURES

EUNICE QUADRANGLE
NEW MEXICO

LAT= 32° 25' 56.9" N
LONG= 103° 08' 47.9"W

PHOTOREVISED 1977



USGS MAP SERIES 1:24000

0 1/2 1 2
(Miles)

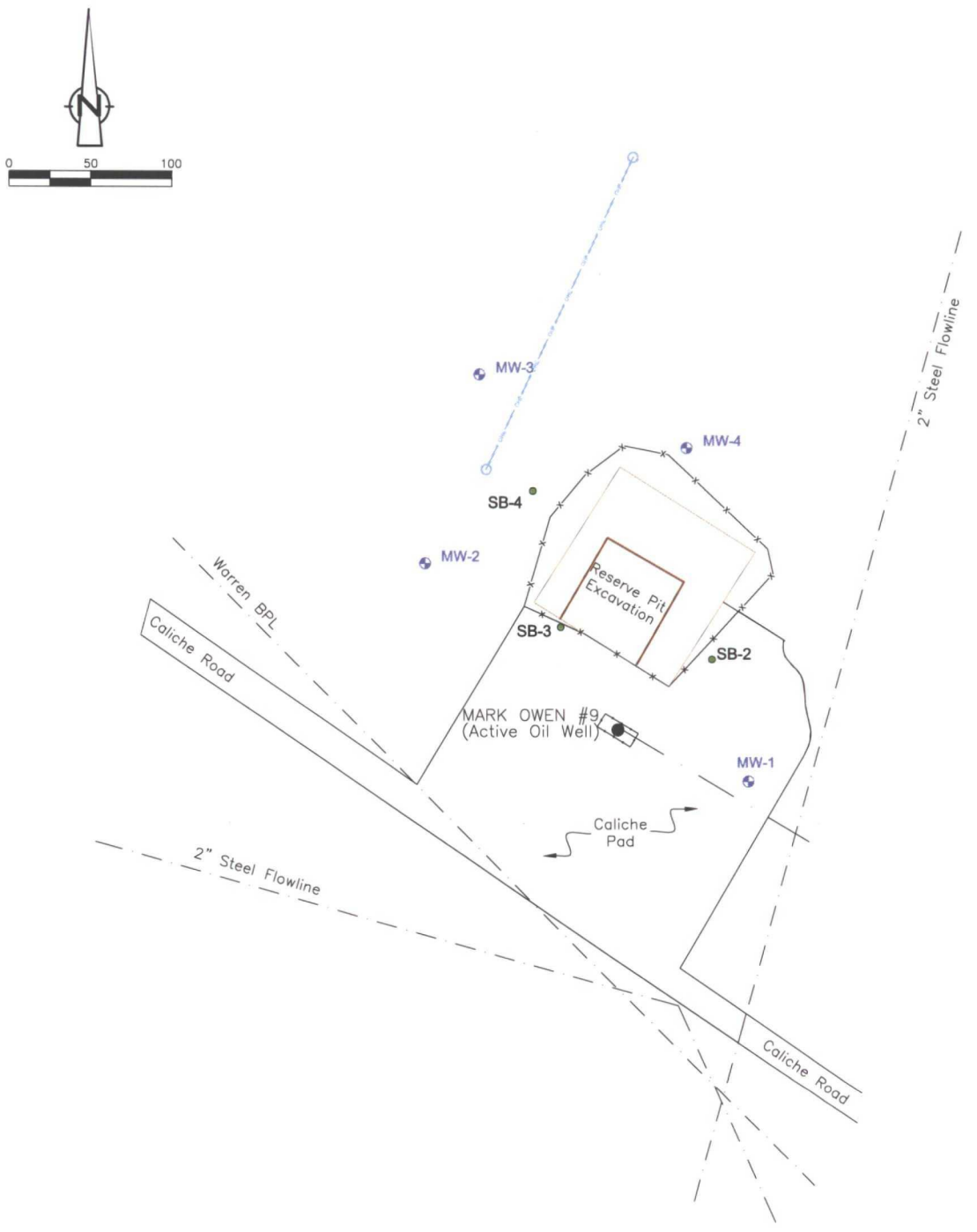
0 2000 4000 6000 8000
(Feet)

CONTOUR INTERVAL 5 FEET

figure 1

SITE LOCATION MAP
MARK OWEN #9 RESERVE PIT
NW/4 OF SE/4 SECTION 34; T-21-S, R-37-E LEA CO., NM
Chevron Environmental Management Company

046121-08(005)GN-MD001 OCT 30/2008



LEGEND

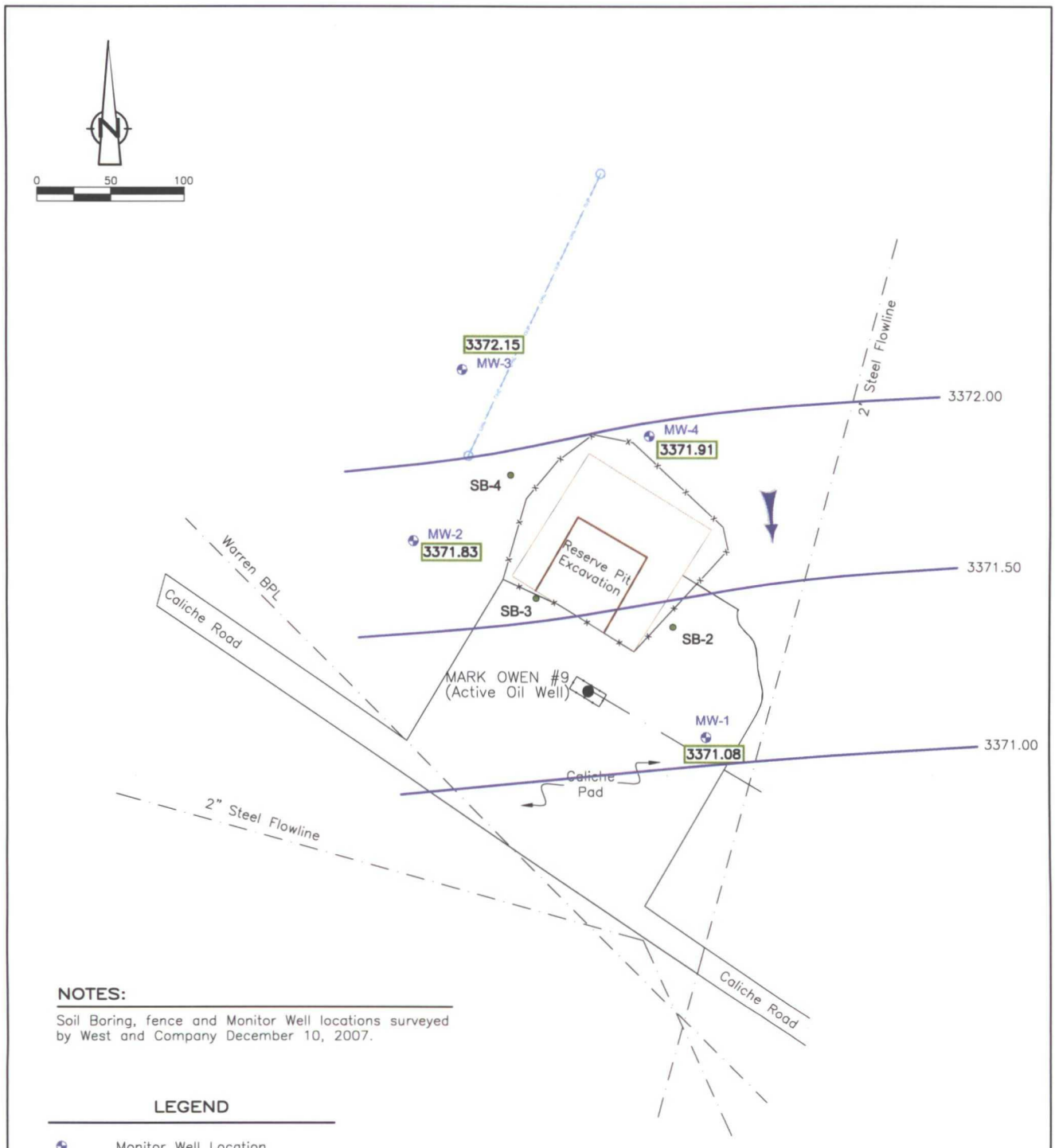
- Monitor Well Location
- Oil Well Location
- Soil Boring Location

figure 2

SITE DETAILS MAP
MARK OWEN #9 RESERVE PIT
NW/4 OF SE/4 SECTION 34; T-21-S, R-37-E LEA CO., NM

Chevron Environmental Management Company

046121-00(004)GN-MD002 FEB 07/2008



NOTES:

Soil Boring, fence and Monitor Well locations surveyed by West and Company December 10, 2007.

LEGEND

- Monitor Well Location
- Oil Well Location
- Soil Boring Location
- Direction of Groundwater Flow
- Groundwater Elevation Contour (Interval = 0.50 ft)
- 3371.13 Elevation of Groundwater (ft)

figure 3

APRIL 2008 GROUNDWATER GRADIENT MAP
MARK OWEN #9 RESERVE PIT
NW/4 OF SE/4 SECTION 34; T-21-S, R-37-E LEA CO., NM
Chevron Environmental Management Company

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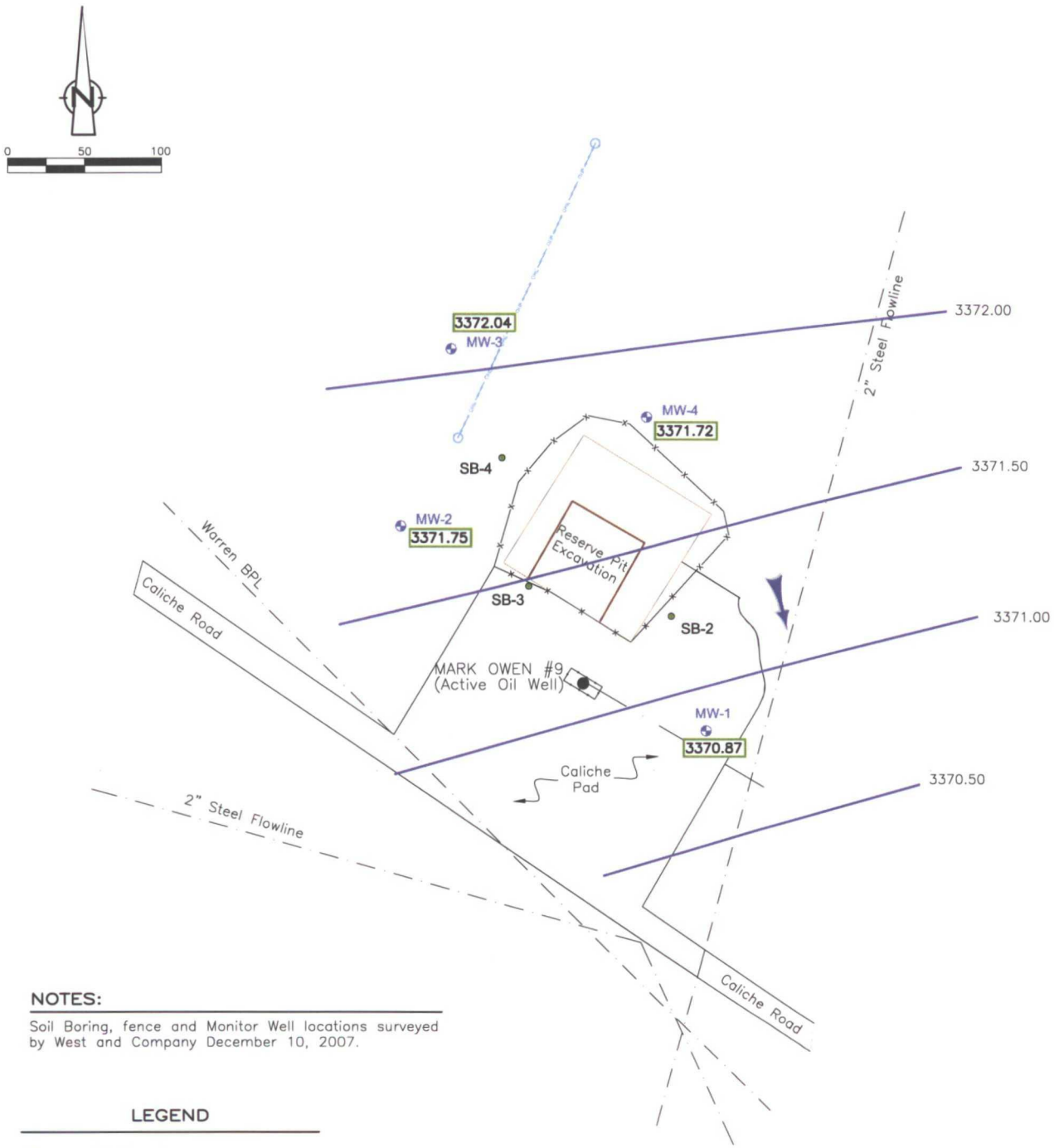

NOTES:

Soil Boring, fence and Monitor Well locations surveyed by West and Company December 10, 2007.

LEGEND

- Monitor Well Location
- Oil Well Location
- Soil Boring Location
- Direction of Groundwater Flow
- Groundwater Elevation Contour (Interval = 0.50 ft)
- 3371.13 Elevation of Groundwater (ft)

figure 4

SEPTEMBER 2008 GROUNDWATER GRADIENT MAP
MARK OWEN #9 RESERVE PIT
NW/4 OF SE/4 SECTION 34; T-21-S, R-37-E LEA CO., NM

Chevron Environmental Management Company

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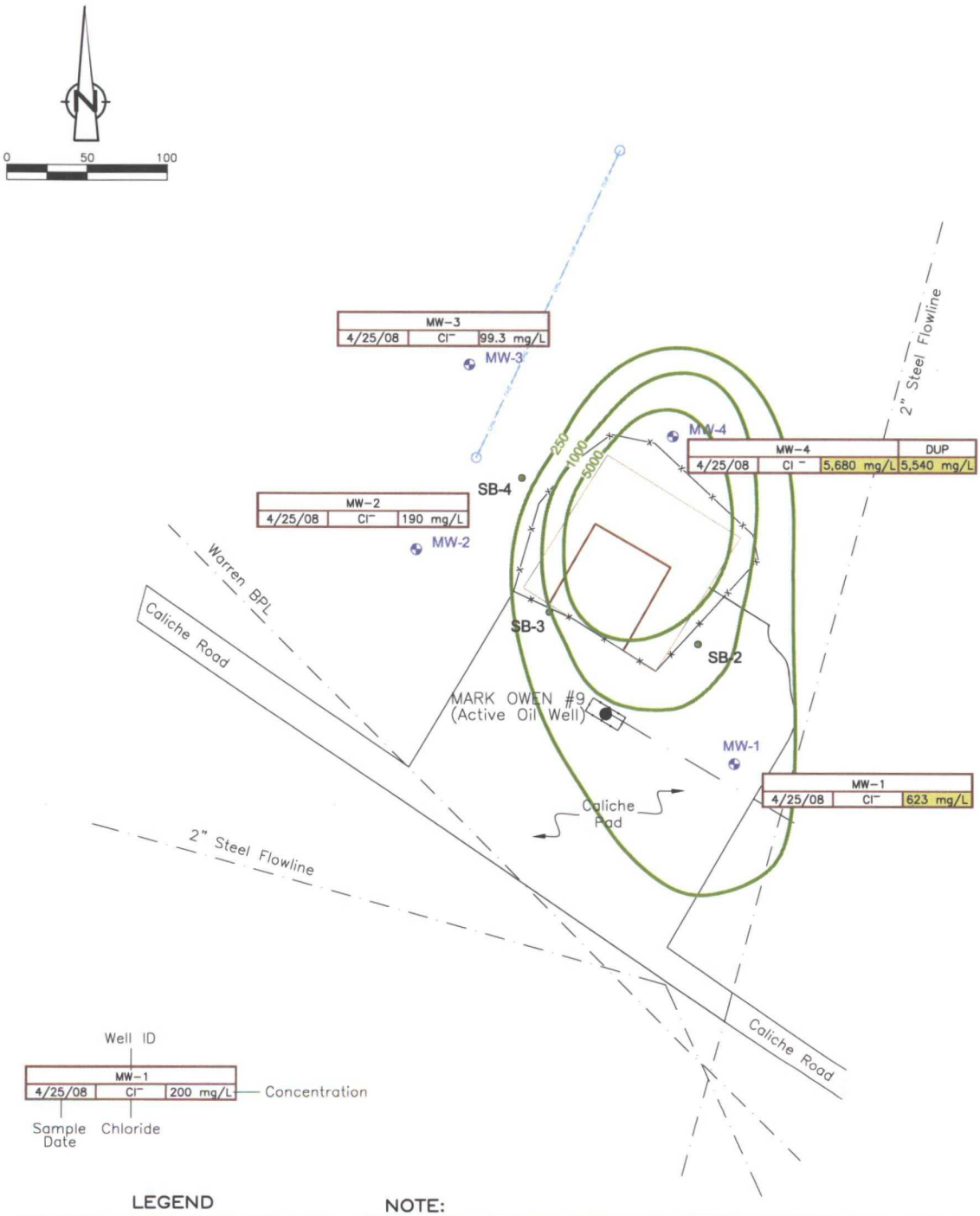

LEGEND

- Monitor Well Location
- Oil Well Location
- Soil Boring Location
- Chloride Contour (mg/L) Variable 250 – 5,000

NOTE:

1. Soil Boring, fence and Monitor Well locations surveyed by West and Company December 10, 2007.
2. Chloride concentrations above 250 mg/L (NMWQCC groundwater protection standard) highlighted in yellow.

figure 5

APRIL 2008 CHLORIDE CONCENTRATION MAP
MARK OWEN #9 RESERVE PIT
NW/4 OF SE/4 SECTION 34; T-21-S, R-37-E LEA CO., NM
Chevron Environmental Management Company

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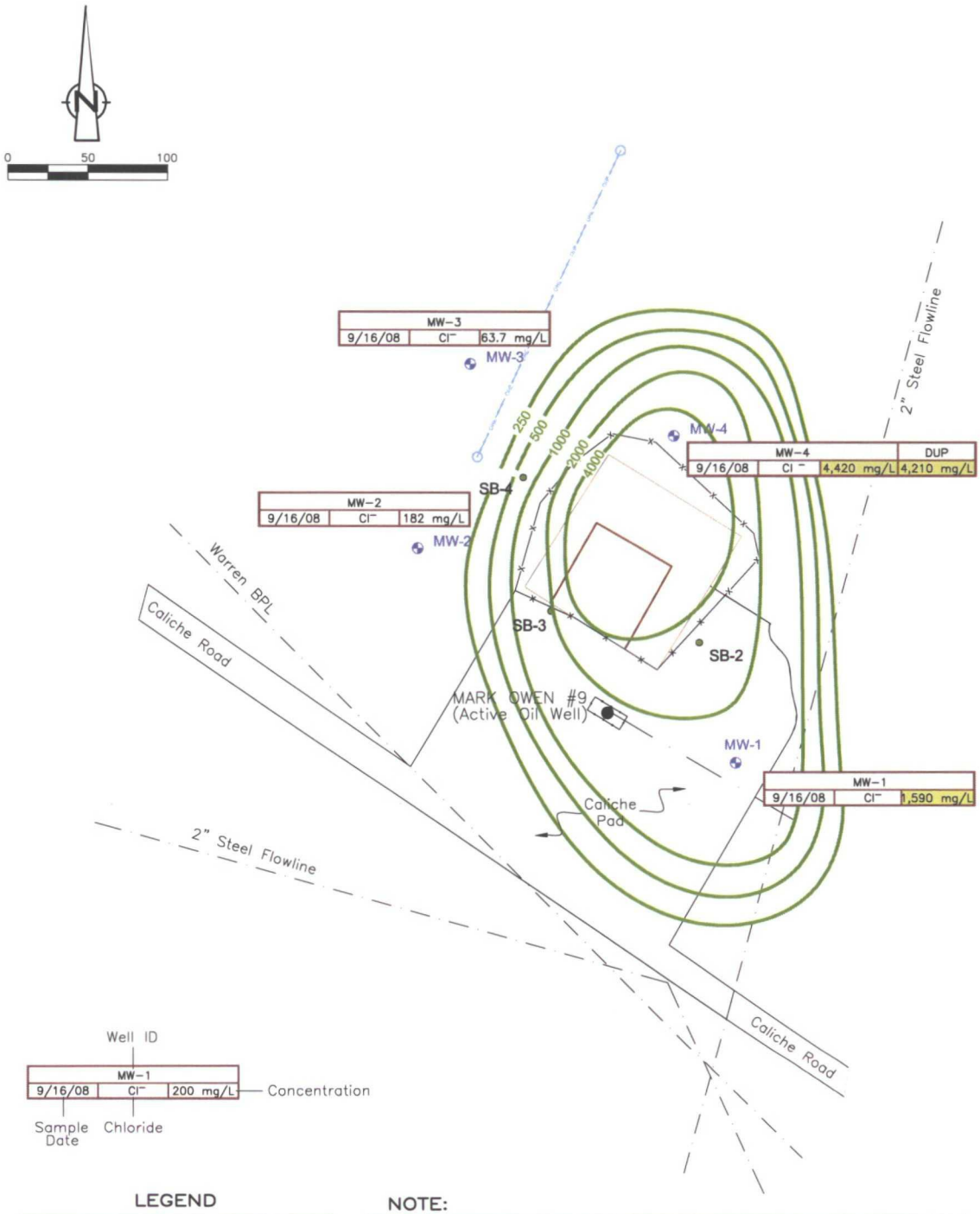


LEGEND

- Monitor Well Location
- Oil Well Location
- Soil Boring Location
- Chloride Contour (mg/L) Variable 250 – 5,000

NOTE:

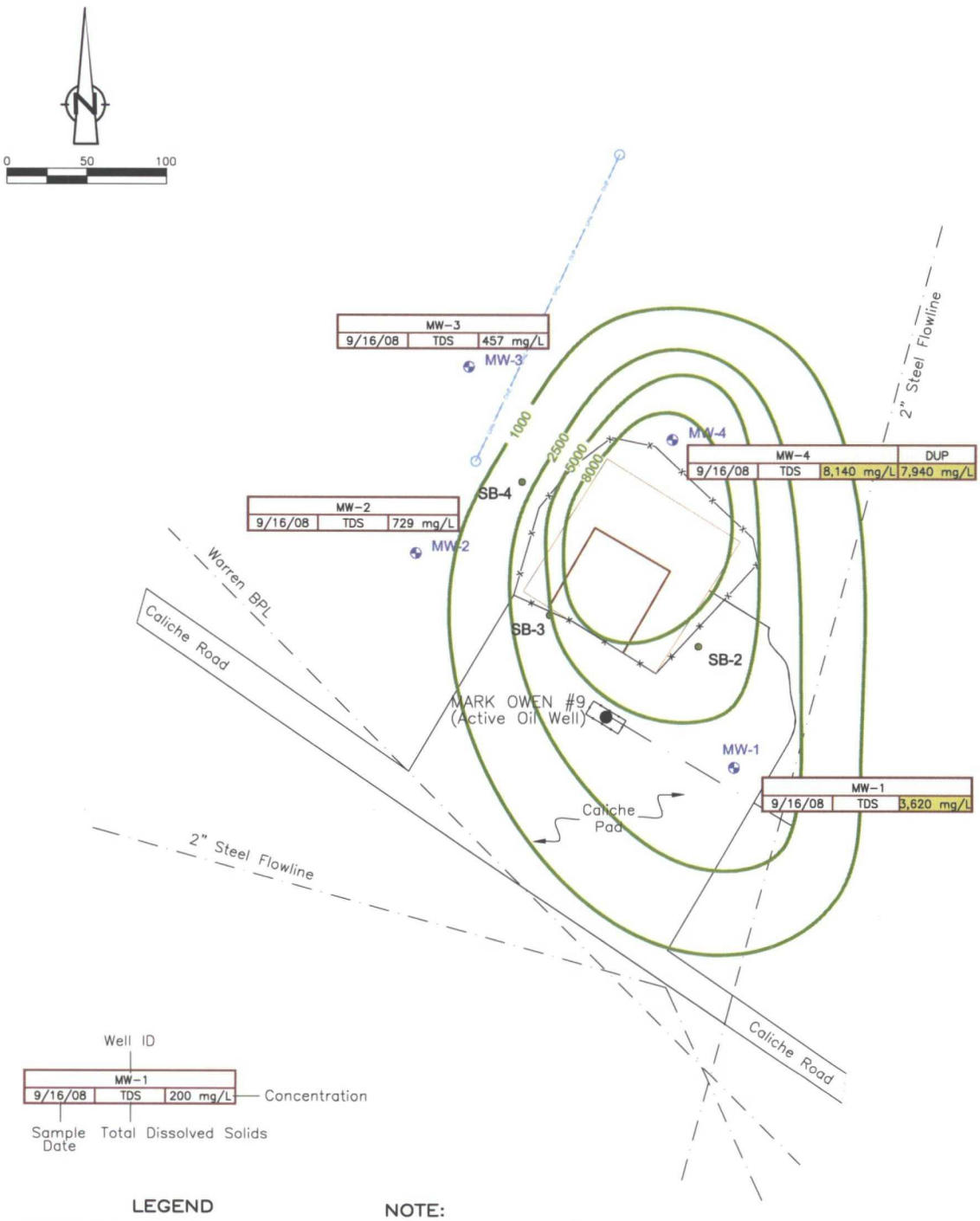
1. Soil Boring, fence and Monitor Well locations surveyed by West and Company December 10, 2007.
2. Chloride concentrations above 250 mg/L (NMWQCC groundwater protection standard) highlighted in yellow.

figure 6

SEPTEMBER 2008 CHLORIDE CONCENTRATION MAP
MARK OWEN #9 RESERVE PIT
NW/4 OF SE/4 SECTION 34; T-21-S, R-37-E LEA CO., NM

Chevron Environmental Management Company

046121-08(005)GN-MD001 NOV 19/2008



LEGEND

- Monitor Well Location
- Oil Well Location
- Soil Boring Location
- Chloride Contour (mg/L) Variable 250 – 5,000

NOTE:

1. Soil Boring, fence and Monitor Well locations surveyed by West and Company December 10, 2007.
2. Total Dissolved Solids concentrations above 1,000 mg/L (NMWQCC groundwater standard) highlighted in yellow.

figure 7

SEPTEMBER 2008 TOTAL DISSOLVED SOLIDS CONCENTRATION MAP
MARK OWEN #9 RESERVE PIT
NW/4 OF SE/4 SECTION 34; T-21-S, R-37-E LEA CO., NM

Chevron Environmental Management Company

046121-08(005)GN-MD001 JAN 21/2009

TABLES

TABLE I

GROUNDWATER GAUGING SUMMARY
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
OWEN #9 RESERVE PIT RELEASE
NW/4, SE/4, SECTION 34, TOWNSHIP 21 SOUTH, RANGE 37 EAST
LEA COUNTY, NEW MEXICO

WELL *TOC elev*[1]	DATE	Well Diameter (inches)	Total Depth (ft below TOC)	Depth to Water (ft below TOC)	Depth to LNAPL (ft below TOC)	LNAPL Thickness (ft)	Corrected Groundwater Elevation (ft above MSL[2])	Screen interval (bgs[3])
MW-01	11/1/2007	4	54.00	32.55	---	---	3371.13	16'-51'
3,403.68	4/25/2008		54.03	32.60	---	---	3371.08	
	9/16/2008			32.81	---	---	3370.87	
MW-02	11/1/2007	4	60.00	36.24	---	---	3371.99	22'-57'
3,408.23	4/25/2008		60.29	36.40	---	---	3371.83	
	9/16/2008			36.48	---	---	3371.75	
MW-03	11/1/2007	4	56.50	34.69	---	---	3372.35	19'-54'
3,407.04	4/25/2008		57.55	34.89	---	---	3372.15	
	9/16/2008			35.00	---	---	3372.04	
MW-04	11/1/2007	4	54.00	32.69	---	---	3372.05	16'-51'
3,404.74	4/25/2008		54.22	32.83	---	---	3371.91	
	9/16/2008			33.02	---	---	3371.72	

Notes:
[1]TOC - Top of Casing
[2]MSL - Mean Sea Level
[3]BGS - Below ground surface
Professional Survey conducted by West Company of Midland, Inc. on December 10, 2007.

TABLE II

GROUNDWATER ANALYTICAL SUMMARY - BTEX AND TPH
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
OWEN #9 RESERVE PIT RELEASE
NW/4, SE/4, SECTION 34, TOWNSHIP 21 SOUTH, RANGE 37 EAST
LEA COUNTY, NEW MEXICO

Sample ID	Sample Date	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	TPH		
						GRO	DRO	Total
New Mexico Water Quality Control Commission Standard		0.01	0.75	0.75	0.62	---	---	---
MW-1	11/1/07	<0.00006	<0.0001	<0.00012	<0.00021	<0.02014	<0.36	<0.38014
	4/25/08	<0.00037	<0.00039	<0.00042	0.00035	<0.050	<0.000024	<0.050024
	9/16/08	<0.001	<0.001	<0.001	<0.003	<0.100	**0.25**	**0.25**
MW-2	11/1/07	<0.00006	0.00035J	<0.00012	<0.00021	<0.02014	**1.8**	**1.82014**
	4/25/08	<0.00037	<0.00039	<0.00042	0.00035	<0.050	<0.000024	<0.050024
	9/16/08	<0.001	<0.001	<0.001	<0.003	<0.100	**0.07**	**0.070**
MW-3	11/1/07	<0.00006	0.0005J	<0.00012	<0.00021	<0.02014	<0.36	<0.38014
	4/25/08	<0.00037	<0.00039	<0.00042	0.00035	<0.050	<0.000024	<0.050024
	9/16/08	<0.001	<0.001	<0.001	<0.003	<0.100	**0.073**	**0.073**
MW-4	11/1/07	<0.00006	0.00052J	<0.00012	<0.00021	<0.02014	<0.36	<0.38014
DUP	11/1/07	<0.00006	0.00054J	<0.00012	<0.00021	<0.02014	<0.36	<0.38014
	4/25/08	<0.00037	<0.00039	<0.00042	0.00035	<0.050	<0.000024	<0.050024
DUP	4/25/08	<0.00037	<0.00039	<0.00042	0.00035	<0.050	<0.000024	<0.050024
	9/16/08	<0.001	<0.001	<0.001	<0.003	<0.100	**0.052**	**0.052**
DUP	9/16/08	<0.001	<0.001	<0.001	<0.003	<0.100	**0.052**	**0.052**

Notes:

1) **Bold** concentrations above lab reporting limits.
2) BTEX analysis by EPA Method 8021B
3) TPH (GRO/DRO) analysis by EPA Method 8015 Modified.
4) Results shown in mg/L.
5) J = estimated value between RL & MDL
6) DUP = Duplicate sample

TABLE III

GROUNDWATER ANALYTICAL SUMMARY - BTEX AND TPH
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
OWEN #9 RESERVE PIT RELEASE
NW/4, SE/4, SECTION 34, TOWNSHIP 21 SOUTH, RANGE 37 EAST
LEA COUNTY, NEW MEXICO

Sample I. D. No.	Date	RCRA Metals								Groundwater Quality			
		Arsenic (mg/L)	Barium (mg/L)	Cadmium (mg/L)	Chromium (mg/L)	Lead (mg/L)	Mercury (mg/L)	Selenium (mg/L)	Silver (mg/L)	Total Alkalinity ($CaCO_3$) (mg/L)	Chloride (mg/L)	Sulfate (mg/L)	Total Dissolved Solids (mg/L)
NMWQCC Human Health Standards for Groundwater[1]										NMWQCC Other Standards for Domestic Water Supply[2]			
		0.1 mg/L	1.0 mg/L	0.01 mg/L	0.05 mg/L	0.05 mg/L	0.002 mg/L	0.05 mg/L	0.05 mg/L		250 mg/L	600 mg/L	1000 mg/L
MW-1	11/01/07	0.0144B	**0.0839**	<0.00073	<0.00155	<0.0021	<0.000053	0.00752B	<0.00125	**201**	**321**	**84.4**	**1,010**
	04/25/08	0.0118B	**0.127**	<0.00073	0.0036B	<0.0021	<0.000066	0.00536B	<0.00125	**167**	**623**	**124**	NA
	09/16/08	0.014	**0.40**	<0.002	0.0024B	<0.003	<0.0002	**0.0072**	<0.005	**146**	**1,590**	**154**	**3,620**
MW-2	11/01/07	0.0123B	**0.0979**	<0.00073	<0.00155	<0.0021	<0.000053	0.00403B	<0.00125	**187**	**200**	**72.4**	**698**
	04/25/08	0.0133B	**0.0992**	<0.00073	0.00186B	<0.0021	<0.000066	0.00315B	<0.00125	**174**	**190**	**72.9**	NA
	09/16/08	**0.012**	**0.12B**	<0.002	**0.0056**	<0.003	<0.0002	**0.006**	<0.005	**181**	**182**	**91.9**	**729**
MW-3	11/01/07	0.0185B	**0.102**	<0.00073	<0.00155	<0.0021	<0.000053	0.00282B	<0.00125	**212**	**77**	**40.6**	**476**
	04/25/08	**0.0218**	**0.0882**	<0.00073	0.00178B	<0.0021	<0.000066	<0.00203	<0.00125	**206**	**99.3**	**49.9**	NA
	09/16/08	**0.026**	**0.096B**	<0.002	<0.005	<0.003	<0.0002	<0.005	<0.005	**222**	**63.7**	**31.8**	**457**
MW-4	11/01/07	**0.0203**	**0.117**	<0.00073	<0.00205	<0.0021	<0.000053	0.00425B	<0.00125	**193**	**6,360**	**180**	**12,100**
DUP	11/01/07	0.0176B	**0.116**	<0.00073	<0.00155	<0.0021	<0.000053	0.00246B	<0.00125	**193**	**6,170**	**189**	**12,800**
	04/25/08	**0.0206**	**0.0856**	<0.00073	<0.00155	<0.0021	<0.000066	0.00316B	<0.00125	**195**	**5,680**	**163**	NA
DUP	04/25/08	**0.0203**	**0.0858**	<0.00073	<0.00158	<0.0021	<0.000066	<0.00203	<0.00125	**191**	**5,540**	**163**	NA
	09/16/08	**0.018**	**0.092B**	<0.002	<0.005	<0.003	<0.0002	<0.005	<0.005	**196**	**4,420**	**136**	**8,140**
DUP	09/16/08	**0.019**	**0.088B**	<0.002	<0.005	<0.003	<0.0002	<0.005	<0.005	**202**	**4,210**	**135**	**7,940**

Notes:

1) RCRA Metals Analysis by EPA Methods 6010B and 7470A.
2) Groundwater Quality by EPA Methods 160.1, 300.0, and 310.1.
3) **Bold** concentrations above lab reporting limits.
4) Higlighted concentrations above NMWQCC Other Standards for Domestic Water Supply.
5) [1] NMWQCC Human Health Standards Per NMAC 20.6.2.3103A
6) [2] NMWQCC Other Standards for Domestic Water Supply Per NMAC 20.6.2.3103B
7) B = estimated value between RL & MDL
8) NA= Not analyzed
9) DUP = Duplicate sample

APPENDIX A

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

JOB NUMBER: 353368
Project ID: MARK OWEN 9

Prepared For:

Conestoga-Rovers and Associates
2270 Springlake Road
Suite 800
Dallas, TX 75234

Attention: Arthur Groeley

Date: 05/08/2008

Signature

05/08/08
Date

Name: Sachin G. Kudchadkar

Title: Project Manager III

E-Mail: sachin.kudchadkar@testamericainc.com

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TOTAL NO. OF PAGES 49

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

05/08/2008

Arthur Greeley
Conestoga-Rovers and Associates
2270 Springlake Road
Suite 800
Dallas, TX 75234

Reference:
Project : MARK OWEN 9
Project No. : 353368
Date Received : 04/29/2008
TestAmerica Job : 353368

Dear Arthur Greeley:

Enclosed are the analytical results for your project referenced above. The following samples are included in the report.

1. MW142508
2. MW242508
3. MW342508
4. MW442508
5. DUP42508
6. TRIP
7. TRIP

All holding times were met for the tests performed on these samples.

Enclosed, please find the Quality Control Summary. All quality control results for the QC batch that are applicable to the sample(s) are acceptable except as noted in the QC batch reports.

The test results in this report meet all NELAP requirements for TestAmerica Houston's NELAP accredited parameters. Any exceptions to the NELAP requirements will be flagged accordingly and where applicable, included in a case narrative as a part of this report.

If the report is acceptable, please approve the enclosed invoice and forward it for payment.

Thank you for selecting TestAmerica to serve as your analytical laboratory on this project. If you have any questions concerning these results, please feel free to contact me at any time.
We look forward to working with you on future projects.

Sincerely,

Sachin G. Kudchadkar
Project Manager

SAMPLE INFORMATION
Date: 05/08/2008

Job Number.: 353368
Customer...: Conestoga-Rovers and Associates
Attn.....: Arthur Greeley

Project Number.....: 99007656
Customer Project ID....: MARK OWEN 9
Project Description....: Mark Owen 9

Laboratory Sample ID	Customer Sample ID	Sample Matrix	Date Sampled	Time Sampled	Date Received	Time Received
353368-1	MW142508	Water	04/25/2008	11:55	04/29/2008	10:19
353368-2	MW242508	Water	04/25/2008	12:45	04/29/2008	10:19
353368-3	MW342508	Water	04/25/2008	13:30	04/29/2008	10:19
353368-4	MW442508	Water	04/25/2008	14:20	04/29/2008	10:19
353368-5	DUP42508	Water	04/25/2008	00:00	04/29/2008	10:19
353368-6	TRIP	Water	04/25/2008	00:00	04/29/2008	10:19
353368-7	TRIP	Water	04/25/2008	00:00	04/29/2008	10:19

LABORATORY TEST RESULTS

Job Number: 353368

Date:05/08/2008

CLIENT: Conestoga-Rovers and Associates | PROJECT: MARK OWEN 9 | ATTN: Arthur Greeley

Customer Sample ID: MW142508
Date Sampled.....: 04/25/2008
Time Sampled.....: 11:55
Sample Matrix.....: Water

Laboratory Sample ID: 353368-1
Date Received.....: 04/29/2008
Time Received.....: 10:19

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	B	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
SM 2320 B	Alkalinity, Total as CaCO3, Water	167			1.53	5.0	1	mg/L	198199		04/30/08 1610	sng
SW-846 7470A	Mercury (Hg), Water	0.066	U		0.066	0.20	1	ug/L	198188		04/30/08 1453	dcl
SW-846 3010A	Acid Digestion, Water	Complete					1		198516		05/07/08 0930	rim
SW-846 8021B	GC Volatile Organics											
	Benzene, Water	0.37	U		0.37	1.00	1.0000	ug/L	198312		04/30/08 2037	mht
	Toluene, Water	0.39	U		0.39	1.00	1.0000	ug/L	198312		04/30/08 2037	mht
	Ethylbenzene, Water	0.42	U		0.42	1.00	1.0000	ug/L	198312		04/30/08 2037	mht
	Xylenes (total), Water	0.35	U		0.35	3.00	1.0000	ug/L	198312		04/30/08 2037	mht
SW-846 8015B	Total Volatile Petroleum Hydrocarbons											
	TVPH as GRO, Water	50.0	U			50.0	1.0000	ug/L	198329		04/30/08 1717	mht
SW846 8015	Extraction (Sep Funnel) 8015 Diesel											
	Separatory Funnel Liq/Liq Extraction, Water	Complete					1		198218		04/30/08 1525	mra
EPA 300.0	Ion Chromatography Analysis											
	Chloride, Water	623			15	50	100	mg/L	198266		05/01/08 1923	sur
	Sulfate (SO4), Water	124			3.4	5.0	10	mg/L	198266		05/01/08 1908	sur
SW-846 6010B	Metals Analysis (ICAP Trace)											
	Arsenic (As), Water	0.0118	B		0.00310	0.020	1	mg/L	198588		05/08/08 0859	srp
	Barium (Ba), Water	0.127			0.00160	0.020	1	mg/L	198588		05/08/08 0859	srp
	Cadmium (Cd), Water	0.00073	U		0.00073	0.005	1	mg/L	198588		05/08/08 0859	srp
	Chromium (Cr), Water	0.00360	B		0.00155	0.010	1	mg/L	198588		05/08/08 0859	srp
	Lead (Pb), Water	0.00210	U		0.00210	0.010	1	mg/L	198588		05/08/08 0859	srp

* In Description = Dry Wgt.

LABORATORY TEST RESULTS

Job Number: 353368

Date:05/08/2008

CUSTOMER: Conestoga-Rovers and Associates PROJECT: MARK OWEN 9 ATTN: Arthur Greeley

Customer Sample ID: MW142508
Date Sampled.....: 04/25/2008
Time Sampled.....: 11:55
Sample Matrix.....: Water

Laboratory Sample ID: 353368-1
Date Received.....: 04/29/2008
Time Received.....: 10:19

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DI	DATE/TIME	TECH
	Selenium (Se), Water	0.00536	B		0.00203	0.040	1	mg/L	198588		05/08/08 0859	srp
	Silver (Ag), Water	0.00125	U		0.00125	0.010	1	mg/L	198588		05/08/08 0859	srp
SW-846 8015B	Total Extractable Petroleum Hydrocarbons TEPH - as Diesel, Water	0.024	U		0.024	0.24	1	mg/L	198378		05/02/08 1414	jps

* In Description = Dry Wgt.

LABORATORY TEST RESULTS

Job Number: 353368

Date:05/08/2008

CUSTOMER: Conestoga-Rovers and Associates | PROJECT: MARK OWEN 9 | ATTN: Arthur Greeley

Customer Sample ID: MW242508
Date Sampled.....: 04/25/2008
Time Sampled.....: 12:45
Sample Matrix.....: Water

Laboratory Sample ID: 353368-2
Date Received.....: 04/29/2008
Time Received.....: 10:19

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
SM 2320 B	Alkalinity, Total as CaCO3, Water	174			1.53	5.0	1	mg/L	198199		04/30/08 1610	sng
SW-846 7470A	Mercury (Hg), Water	0.066	U		0.066	0.20	1	ug/L	198188		04/30/08 1504	dcl
SW-846 3010A	Acid Digestion, Water	Complete					1		198516		05/07/08 0930	rim
SW-846 8021B	GC Volatile Organics											
	Benzene, Water	0.37	U		0.37	1.00	1.0000	ug/L	198312		04/30/08 2057	mht
	Toluene, Water	0.39	U		0.39	1.00	1.0000	ug/L	198312		04/30/08 2057	mht
	Ethylbenzene, Water	0.42	U		0.42	1.00	1.0000	ug/L	198312		04/30/08 2057	mht
	Xylenes (total), Water	0.35	U		0.35	3.00	1.0000	ug/L	198312		04/30/08 2057	mht
SW-846 8015B	Total Volatile Petroleum Hydrocarbons											
	TVPH as GRO, Water	50.0	U			50.0	1.0000	ug/L	198329		04/30/08 1743	mht
SW846 8015	Extraction (Sep Funnel) 8015 Diesel											
	Separatory Funnel Liq/Liq Extraction, Water	Complete					1		198218		04/30/08 1525	mra
EPA 300.0	Ion Chromatography Analysis											
	Chloride, Water	190			1.5	5.0	10	mg/L	198266		05/01/08 1955	sur
	Sulfate (SO4), Water	72.9			3.4	5.0	10	mg/L	198266		05/01/08 1955	sur
SW-846 6010B	Metals Analysis (ICAP Trace)											
	Arsenic (As), Water	0.0133	B		0.00310	0.020	1	mg/L	198588		05/08/08 0903	srp
	Barium (Ba), Water	0.0992			0.00160	0.020	1	mg/L	198588		05/08/08 0903	srp
	Cadmium (Cd), Water	0.00073	U		0.00073	0.005	1	mg/L	198588		05/08/08 0903	srp
	Chromium (Cr), Water	0.00186	B		0.00155	0.010	1	mg/L	198588		05/08/08 0903	srp
	Lead (Pb), Water	0.00210	U		0.00210	0.010	1	mg/L	198588		05/08/08 0903	srp

* In Description = Dry Wgt.

LABORATORY TEST RESULTS

Job Number: 353368

Date:05/08/2008

CUSTOMER: Conestoga-Rovers and Associates PROJECT: MARK OWEN 9 ATTN: Arthur Greeley

Customer Sample ID: MW242508
Date Sampled.....: 04/25/2008
Time Sampled.....: 12:45
Sample Matrix.....: Water

Laboratory Sample ID: 353368-2
Date Received.....: 04/29/2008
Time Received.....: 10:19

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Selenium (Se), Water	0.00315	B		0.00203	0.040	1	mg/L	198588		05/08/08 0903	srp
	Silver (Ag), Water	0.00125	U		0.00125	0.010	1	mg/L	198588		05/08/08 0903	srp
SW-846 8015B	Total Extractable Petroleum Hydrocarbons TEPH - as Diesel, Water	0.024	U		0.024	0.24	1	mg/L	198378		05/02/08 1202	jps

* In Description = Dry Wgt.

LABORATORY TEST RESULTS

Job Number: 353368

Date:05/08/2008

CUSTOMER: Conestoga-Rovers and Associates | PROJECT: MARK OHEN 9 | ATTN: Arthur Greeley

Customer Sample ID: MW342508
Date Sampled.....: 04/25/2008
Time Sampled.....: 13:30
Sample Matrix.....: Water

Laboratory Sample ID: 353368-3
Date Received.....: 04/29/2008
Time Received.....: 10:19

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
SM 2320 B	Alkalinity, Total as CaCO3, Water	206			1.53	5.0	1	mg/L	198199		04/30/08 1610	sng
SW-846 7470A	Mercury (Hg), Water	0.066	U		0.066	0.20	1	ug/L	198188		04/30/08 1506	dcl
SW-846 3010A	Acid Digestion, Water	Complete					1		198516		05/07/08 0930	rim
SW-846 8021B	GC Volatile Organics											
	Benzene, Water	0.37	U		0.37	1.00	1.0000	ug/L	198312		04/30/08 2118	mht
	Toluene, Water	0.39	U		0.39	1.00	1.0000	ug/L	198312		04/30/08 2118	mht
	Ethylbenzene, Water	0.42	U		0.42	1.00	1.0000	ug/L	198312		04/30/08 2118	mht
	Xylenes (total), Water	0.35	U		0.35	3.00	1.0000	ug/L	198312		04/30/08 2118	mht
SW-846 8015B	Total Volatile Petroleum Hydrocarbons											
	TVPH as GRO, Water	50.0	U			50.0	1.0000	ug/L	198329		04/30/08 1809	mht
SW846 8015	Extraction (Sep Funnel) 8015 Diesel											
	Separatory Funnel Liq/Liq Extraction, Water	Complete					1		198218		04/30/08 1525	mra
EPA 300.0	Ion Chromatography Analysis											
	Chloride, Water	99.3			1.5	5.0	10	mg/L	198266		05/01/08 2057	sur
	Sulfate (SO4), Water	49.9			0.34	0.50	1	mg/L	198266		05/01/08 2042	sur
SW-846 6010B	Metals Analysis (ICAP Trace)											
	Arsenic (As), Water	0.0218			0.00310	0.020	1	mg/L	198588		05/08/08 0907	srp
	Barium (Ba), Water	0.0882			0.00160	0.020	1	mg/L	198588		05/08/08 0907	srp
	Cadmium (Cd), Water	0.00073	U		0.00073	0.005	1	mg/L	198588		05/08/08 0907	srp
	Chromium (Cr), Water	0.00178	B		0.00155	0.010	1	mg/L	198588		05/08/08 0907	srp
	Lead (Pb), Water	0.00210	U		0.00210	0.010	1	mg/L	198588		05/08/08 0907	srp

* In Description = Dry Wgt.

LABORATORY TEST RESULTS

Job Number: 353368

Date:05/08/2008

CUSTOMER: Conestoga-Rovers and Associates PROJECT: MARK OWEN 9 ATTN: Arthur Keeley

Customer Sample ID: MW342508
Date Sampled.....: 04/25/2008
Time Sampled.....: 13:30
Sample Matrix.....: Water

Laboratory Sample ID: 353368-3
Date Received.....: 04/29/2008
Time Received.....: 10:19

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	U	FLAGS	MDL	RL	DILUTION	UNITS	BATCH#	DT	DATE/TIME	TECH
	Selenium (Se), Water	0.00203	U		0.00203	0.040	1	mg/L	198588		05/08/08 0907	srp
	Silver (Ag), Water	0.00125	U		0.00125	0.010	1	mg/L	198588		05/08/08 0907	srp
SW-846 8015B	Total Extractable Petroleum Hydrocarbons											
	TEPH - as Diesel, Water	0.024	U		0.024	0.24	1	mg/L	198378		05/02/08 1246	jps

* In Description = Dry Wgt.

LABORATORY TEST RESULTS

Job Number: 353368

Date:05/08/2008

CLIENT: Conestoga-Rovers and Associates PROJECT: MARK OWEN 9 ATTN: Arthur Greeley

Customer Sample ID: MW442508
Date Sampled.....: 04/25/2008
Time Sampled.....: 14:20
Sample Matrix.....: Water

Laboratory Sample ID: 353368-4
Date Received.....: 04/29/2008
Time Received.....: 10:19

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DF	DATE/TIME	TECH
SM 2320 B	Alkalinity, Total as CaCO3, Water	195			1.53	5.0	1	mg/L	198199		04/30/08 1610	sng
SW-846 7470A	Mercury (Hg), Water	0.066	U		0.066	0.20	1	ug/L	198188		04/30/08 1507	dcl
SW-846 3010A	Acid Digestion, Water	Complete					1		198516		05/07/08 0930	rim
SW-846 8021B	GC Volatile Organics											
	Benzene, Water	0.37	U		0.37	1.00	1.0000	ug/L	198312		04/30/08 2138	mht
	Toluene, Water	0.39	U		0.39	1.00	1.0000	ug/L	198312		04/30/08 2138	mht
	Ethylbenzene, Water	0.42	U		0.42	1.00	1.0000	ug/L	198312		04/30/08 2138	mht
	Xylenes (total), Water	0.35	U		0.35	3.00	1.0000	ug/L	198312		04/30/08 2138	mht
SW-846 8015B	Total Volatile Petroleum Hydrocarbons											
	TVPH as GRO, Water	50.0	U			50.0	1.0000	ug/L	198329		04/30/08 1835	mht
SW846 8015	Extraction (Sep Funnel) 8015 Diesel											
	Separatory Funnel Liq/Liq Extraction, Water	Complete					1		198218		04/30/08 1525	mra
EPA 300.0	Ion Chromatography Analysis											
	Chloride, Water	5680			30	100	200	mg/L	198333		05/02/08 1652	sur
	Sulfate (SO4), Water	163			1.7	2.5	5	mg/L	198266		05/01/08 2144	sur
SW-846 6010B	Metals Analysis (ICAP Trace)											
	Arsenic (As), Water	0.0206			0.00310	0.020	1	mg/L	198588		05/08/08 0910	srp
	Barium (Ba), Water	0.0856			0.00160	0.020	1	mg/L	198588		05/08/08 0910	srp
	Cadmium (Cd), Water	0.00073	U		0.00073	0.005	1	mg/L	198588		05/08/08 0910	srp
	Chromium (Cr), Water	0.00155	U		0.00155	0.010	1	mg/L	198588		05/08/08 0910	srp
	Lead (Pb), Water	0.00210	U		0.00210	0.010	1	mg/L	198588		05/08/08 0910	srp

* In Description = Dry Wgt.

LABORATORY TEST RESULTS

Job Number: 353368

Date:05/08/2008

CUSTOMER: Conestoga-Rovers and Associates PROJECT: KARK OWEN-7 ATTN: Arthur Greeley

Customer Sample ID: MW442508
Date Sampled.....: 04/25/2008
Time Sampled.....: 14:20
Sample Matrix.....: Water

Laboratory Sample ID: 353368-4
Date Received.....: 04/29/2008
Time Received.....: 10:19

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Selenium (Se), Water	0.00316	B		0.00203	0.040	1	mg/L	198588		05/08/08 0910	srp
	Silver (Ag), Water	0.00125	U		0.00125	0.010	1	mg/L	198588		05/08/08 0910	srp
SW-846 8015B	Total Extractable Petroleum Hydrocarbons TEPH - as Diesel, Water	0.024	U		0.024	0.24	1	mg/L	198378		05/02/08 1330	jps

* In Description = Dry Wgt.

LABORATORY TEST RESULTS

Job Number: 353368

Date:05/08/2008

CUSTOMER: Conestoga-Rovers and Associates PROJECT: MARK OWEN 9 ATTN: Arthur Greeley

Customer Sample ID: DUP42508
Date Sampled.....: 04/25/2008
Time Sampled.....: 00:00
Sample Matrix.....: Water

Laboratory Sample ID: 353368-5
Date Received.....: 04/29/2008
Time Received.....: 10:19

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
SM 2320 B	Alkalinity, Total as CaCO3, Water	191			1.53	5.0	1	mg/L	198199		04/30/08 1610	sng
SW-846 7470A	Mercury (Hg), Water	0.066	U		0.066	0.20	1	ug/L	198188		04/30/08 1509	dcl
SW-846 3010A	Acid Digestion, Water	Complete					1		198516		05/07/08 0930	rim
SW-846 8021B	GC Volatile Organics											
	Benzene, Water	0.37	U		0.37	1.00	1.0000	ug/L	198312		04/30/08 2158	mht
	Toluene, Water	0.39	U		0.39	1.00	1.0000	ug/L	198312		04/30/08 2158	mht
	Ethylbenzene, Water	0.42	U		0.42	1.00	1.0000	ug/L	198312		04/30/08 2158	mht
	Xylenes (total), Water	0.35	U		0.35	3.00	1.0000	ug/L	198312		04/30/08 2158	mht
SW-846 8015B	Total Volatile Petroleum Hydrocarbons											
	TVPH as GRO, Water	50.0	U			50.0	1.0000	ug/L	198329		04/30/08 1901	mht
SW846 8015	Extraction (Sep Funnel) 8015 Diesel											
	Separatory Funnel Liq/Liq Extraction, Water	Complete					1		198218		04/30/08 1525	mra
EPA 300.0	Ion Chromatography Analysis											
	Chloride, Water	5540			30	100	200	mg/L	198333		05/02/08 1708	sur
	Sulfate (SO4), Water	163			1.7	2.5	5	mg/L	198266		05/01/08 2231	sur
SW-846 6010B	Metals Analysis (ICAP Trace)											
	Arsenic (As), Water	0.0203			0.00310	0.020	1	mg/L	198588		05/08/08 0914	srp
	Barium (Ba), Water	0.0858			0.00160	0.020	1	mg/L	198588		05/08/08 0914	srp
	Cadmium (Cd), Water	0.00073	U		0.00073	0.005	1	mg/L	198588		05/08/08 0914	srp
	Chromium (Cr), Water	0.00158	B		0.00155	0.010	1	mg/L	198588		05/08/08 0914	srp
	Lead (Pb), Water	0.00210	U		0.00210	0.010	1	mg/L	198588		05/08/08 0914	srp

* In Description = Dry Wgt.

LABORATORY TEST RESULTS

Job Number: 353368

Date:05/08/2008

CUSTOMER: Conestoga-Rovers and Associates PROJECT: MARK OWEN 9 ATTN: Arthur Greeley

Customer Sample ID: DUP42508
Date Sampled.....: 04/25/2008
Time Sampled.....: 00:00
Sample Matrix.....: Water

Laboratory Sample ID: 353368-5
Date Received.....: 04/29/2008
Time Received.....: 10:19

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Selenium (Se), Water	0.00203	U		0.00203	0.040	1	mg/L	198588		05/08/08 0914	srp
	Silver (Ag), Water	0.00125	U		0.00125	0.010	1	mg/L	198588		05/08/08 0914	srp
SW-846 8015B	Total Extractable Petroleum Hydrocarbons TEPH - as Diesel, Water	0.024	U		0.024	0.24	1	mg/L	198378		05/02/08 1414	jps

* In Description = Dry Wgt.

LABORATORY TEST RESULTS

Job Number: 353368

Date:05/08/2008

CUSTOMER: Conestoga-Rovers and Associates | PROJECT: MARK OWEN 2 | ATTN: Arthur Greeley

Customer Sample ID: TRIP
Date Sampled.....: 04/25/2008
Time Sampled.....: 00:00
Sample Matrix.....: Water

Laboratory Sample ID: 353368-6
Date Received.....: 04/29/2008
Time Received.....: 10:19

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	QT	DATE/TIME	TECH
SW-846 8021B	GC Volatile Organics											
	Benzene, Water	0.37	U		0.37	1.00	1.0000	ug/L	198508		05/05/08 1541	kp
	Toluene, Water	0.39	U		0.39	1.00	1.0000	ug/L	198508		05/05/08 1541	kp
	Ethylbenzene, Water	0.42	U		0.42	1.00	1.0000	ug/L	198508		05/05/08 1541	kp
	Xylenes (total), Water	0.35	U		0.35	3.00	1.0000	ug/L	198508		05/05/08 1541	kp

* In Description = Dry Wgt.

LABORATORY TEST RESULTS

Job Number: 353368

Date:05/08/2008

CUSTOMER: Conestoga-Rovers and Associates PROJECT: MARK OWEN 2 ATTN: Arthur Greeley

Customer Sample ID: TRIP
Date Sampled.....: 04/25/2008
Time Sampled.....: 00:00
Sample Matrix.....: Water

Laboratory Sample ID: 353368-7
Date Received.....: 04/29/2008
Time Received.....: 10:19

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
SW-846 8021B	GC Volatile Organics											
	Benzene, Water	0.37	U		0.37	1.00	1.0000	ug/L	198508		05/05/08 1601	kp
	Toluene, Water	0.39	U		0.39	1.00	1.0000	ug/L	198508		05/05/08 1601	kp
	Ethylbenzene, Water	0.42	U		0.42	1.00	1.0000	ug/L	198508		05/05/08 1601	kp
	Xylenes (total), Water	0.35	U		0.35	3.00	1.0000	ug/L	198508		05/05/08 1601	kp

* In Description = Dry Wgt.

QUALITY CONTROL RESULTS

Job Number.: 353368 Report Date.: 05/08/2008

CUSTOMER: Conestoga-Rovers and Associates PROJECT: MARK OWEN 9 ATTN: Arthur Greeley

Test Method.....: SM 2320 B Units.....: mg/L CaCO3 Analyst...: BMT
Method Description.: Alkalinity Batch(es).: 198199 Test Code...: ALK
Parameter.....: Alkalinity, Total as CaCO3

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result *	Limits	F	Date	Time
LCS	198199--21	WC4050	946.15		1000.0		94.6	90.0-110.		04/30/2008	1610
MB	198199--21		1.89							04/30/2008	1610
DU	353184-1		145.71			147.60	1.3	20		04/30/2008	1610
MS	353217-7	WC4081A	6133.55		2500.000000	3397.04	109.5	75-125		04/30/2008	1610
MS	353184-1	WC4081A	386.03		250.000000	147.60	95.4	75-125		04/30/2008	1610
DU	353217-7		3491.40			3397.04	2.7	20		04/30/2008	1610

 * %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 353368 — Report Date.: 05/08/2008

CUSTOMER: Conestoga Rovers and Associates — PROJECT: MARK OWEN-9 — ATTN: Arthur Greeley

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time

Test Method.....: SW-846 8021B — Units.....: ug/L — Analyst...: mht
Method Description.: GC Volatile Organics — Batch(s)...: 198312 198508

LCS	Laboratory Control Sample	BXS0429068	198312-1		04/30/2008	1610

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Methyl tert-Butyl ether, Water	48.0823		50.000000		96.2		76-123	
Benzene, Water	49.3421		50.000000		98.7		72-134	
Toluene, Water	49.4295		50.000000		98.9		76-131	
m,p-Xylene, Water	101.555		100.000000		101.6		75-130	
o-Xylene, Water	49.9172		50.000000		99.8		74-129	
Tert-Butyl Methyl Ether Column B, Water	51.6230		50.000000		103.2		76-123	
Benzene Column B, Water	48.2784		50.000000		96.6		72-134	
Toluene Column B, Water	50.2770		50.000000		100.6		76-131	
m,p-Xylene Column B, Water	102.488		100.000000		102.5		75-130	
o-Xylene Column B, Water	51.1847		50.000000		102.4		74-129	

MB	Method Blank		198312-1		04/30/2008	2017

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	BXS0430084	353368-1		04/30/2008	2258

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Methyl tert-Butyl ether, Water	144.359		50.000000	ND	289		70-130	A
Benzene, Water	48.0221		50.000000	ND	96		70-130	
Toluene, Water	45.2149		50.000000	ND	90		70-130	
Ethylbenzene, Water	43.6703		50.000000	ND	87		70-130	
m,p-Xylene, Water	87.7466		100.000000	ND	88		70-130	
o-Xylene, Water	44.6508		50.000000	ND	89		70-130	
Xylenes (total), Water	134.2354		150.000000	0.0000	89		70-130	
Total BTEX, Water	272.5847		300.000000	0.0000	91		70-130	
Tert-Butyl Methyl Ether Column B, Water	149.890		50.000000	ND	300		70-130	A
Benzene Column B, Water	47.3836		50.000000	ND	95		70-130	
Toluene Column B, Water	45.6599		50.000000	ND	91		70-130	
Ethylbenzene Column B, Water	44.6673		50.000000	ND	89		70-130	
m,p-Xylene Column B, Water	89.1339		100.000000	ND	89		70-130	
o-Xylene Column B, Water	45.1015		50.000000	ND	90		70-130	

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 353368 Report Date.: 05/08/2008

CUSTOMER: Conestoga-Rovers and Associates PROJECT: MARK CHEN 9 ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
MSD	Matrix Spike Duplicate	BXS0430088	353368-1		04/30/2008	2316

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Methyl tert-Butyl ether, Water	129.554	144.359	50.000000	ND	259		70-130	A
					10.8		20.0	
Benzene, Water	51.6123	48.0221	50.000000	ND	103		70-130	
					7.2		20.0	
Toluene, Water	50.1295	45.2149	50.000000	ND	100		70-130	
					10.3		20.0	
Ethylbenzene, Water	49.8711	43.6703	50.000000	ND	100		70-130	
					13.3		20.0	
m,p-Xylene, Water	98.0510	87.7466	100.000000	ND	98		70-130	
					11.1		20.0	
o-Xylene, Water	49.4887	44.6508	50.000000	ND	99		70-130	
					10.3		20.0	
Xylenes (total), Water	150.8932	134.2354	150.000000	0.0000	101		70-130	
					11.7		20.0	
Total BTEX, Water	304.8096	272.5847	300.000000	0.0000	102		70-130	
					11.2		20.0	
Benzene Column B, Water	51.1228	47.3836	50.000000	ND	102		70-130	
					7.6		20.0	
Toluene Column B, Water	51.4649	45.6599	50.000000	ND	103		70-130	
					12.0		20.0	
Ethylbenzene Column B, Water	50.8392	44.6673	50.000000	ND	102		70-130	
					12.9		20.0	
m,p-Xylene Column B, Water	100.305	89.1339	100.000000	ND	100		70-130	
					11.8		20.0	
o-Xylene Column B, Water	50.5882	45.1015	50.000000	ND	101		70-130	
					11.5		20.0	

LCS	Laboratory Control Sample	BXS0500088	198308-1		05/05/2008	1500

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Methyl tert-Butyl ether, Water	50.4130		50.000000	ND	100.8		76-123	
Benzene, Water	49.2876		50.000000	ND	98.6		72-134	
Toluene, Water	48.7165		50.000000	ND	97.4		76-131	
Ethylbenzene, Water	47.3365		50.000000	0.13881	94.7		75-131	
m,p-Xylene, Water	97.9168		100.000000	0.37042	97.9		75-130	
o-Xylene, Water	48.6170		50.000000	0.15366	97.2		74-129	
Xylenes (total), Water	150.0995		150.000000	0.5241	97.7		70-130	
Total BTEX, Water	297.9304		300.000000	0.5241				
Tert-Butyl Methyl Ether Column B, Water	138.156		50.000000	ND	276.3		76-123	L
Benzene Column B, Water	48.6968		50.000000	ND	97.4		72-134	
Toluene Column B, Water	49.7559		50.000000	ND	99.5		76-131	
Ethylbenzene Column B, Water	48.7874		50.000000	ND	97.6		75-131	
m,p-Xylene Column B, Water	100.564		100.000000	0.30937	100.6		75-130	
o-Xylene Column B, Water	49.5355		50.000000	0.14296	99.1		74-129	

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 353368 — Report Date.: 05/08/2008

CUSTOMER: Conestoga-Rovers and Associates — PROJECT: MARK OWEN 9 — ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
MB	Method Blank	BXS043008H	198508-1		05/05/2008	1520

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	0.13881							
m,p-Xylene, Water	0.37042							
o-Xylene, Water	0.15366							
Xylenes (total), Water	0.5241							
Total BTEX, Water	0.5241							
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	0.30937							
o-Xylene Column B, Water	0.14296							
Xylenes (Total) Column B, Water	0.45328							

SB	Spiked Blank	BXS043008A	198508-1		05/05/2008	1641

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Methyl tert-Butyl ether, Water	100.093		50.000000	ND	200.2			K
Benzene, Water	48.3794		50.000000	ND	96.8			
Toluene, Water	47.4687		50.000000	ND	94.9			
Ethylbenzene, Water	45.6657		50.000000	0.13881	91.3			
m,p-Xylene, Water	95.2604		100.000000	0.37042	95.3			
o-Xylene, Water	47.3672		50.000000	0.15366	94.7			
Xylenes (total), Water	144.9185		150.000000	0.5241	95.1			
Total BTEX, Water	289.6329		300.000000	0.5241				
Tert-Butyl Methyl Ether Column B, Water	142.551		50.000000	ND	285.1			K
Benzene Column B, Water	48.0042		50.000000	ND	96.0			
Toluene Column B, Water	48.6459		50.000000	ND	97.3			
Ethylbenzene Column B, Water	47.6891		50.000000	ND	95.4			
m,p-Xylene Column B, Water	96.6145		100.000000	0.30937	96.6			
o-Xylene Column B, Water	48.3040		50.000000	0.14296	96.6			

SBD	Spiked Blank Duplicate	BXS043008A	198508-1		05/05/2008	1701

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Methyl tert-Butyl ether, Water	97.1134	97.1134	50.000000	ND	194.2		70.0-130.0	
					3.0			
Benzene, Water	48.3049	48.3049	50.000000	ND	96.6		70.0-130.0	
					0.2			
Toluene, Water	47.4577	47.4577	50.000000	ND	94.9		70.0-130.0	
					0.0			
Ethylbenzene, Water	46.8184	46.8184	50.000000	0.13881	93.4		70.0-130.0	
					2.5			
m,p-Xylene, Water	94.2407	94.2407	100.000000	0.37042	93.9		70.0-130.0	
					1.1			
o-Xylene, Water	47.2226	47.2226	50.000000	0.15366	94.1		70.0-130.0	
					0.3			
Xylenes (total), Water	143.6716	143.6716	150.000000	0.5241	94.0		70.0-130.0	
					0.8			

* %-% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 353368 — Report Date.: 05/08/2008

CUSTOMER: Conestoga Rovers and Associates — PROJECT: MARK CHEN 9 — ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
SBD	Spiked Blank Duplicate	BXS043008A	198508-1		05/05/2008	1701

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Total BTEX, Water	288.4145	288.4145	300.000000	0.5241				
Tert-Butyl Methyl Ether Column B, Water	142.774	142.774	50.000000	ND	285.5		70.0-130.0	
					0.2			
Benzene Column B, Water	47.7128	47.7128	50.000000	ND	95.4		70.0-130.0	
					0.6			
Toluene Column B, Water	48.5029	48.5029	50.000000	ND	97.0		70.0-130.0	
					0.3			
Ethylbenzene Column B, Water	47.9351	47.9351	50.000000	ND	95.9		70.0-130.0	
					0.5			
m,p-Xylene Column B, Water	95.6578	95.6578	100.000000	0.30937	95.3		70.0-130.0	
					1.0			
o-Xylene Column B, Water	48.0138	48.0138	50.000000	0.14296	95.7		70.0-130.0	
					0.6			

Test Method.....: SW-846 8015B — Units.....: ug/L — Analyst...: mht
Method Description.: Total Volatile Petroleum Hydrocarbons — Batch(s)...: 198329

LCS	Laboratory Control Sample	BXS042908A	198329-1		04/30/2008	1625

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
TVPH as GRO, Water	252.543		250.000000		101.0		78-140	

MB	Method Blank		198329-1		04/30/2008	1651

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
TVPH as GRO, Water	ND							

MS	Matrix Spike	BX041508A	353368-2		04/30/2008	1927

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
TVPH as GRO, Water	228.192		250.000000	ND	91		70-130	

MSD	Matrix Spike Duplicate	BX041508A	353368-2		04/30/2008	1953

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
TVPH as GRO, Water	247.549	228.192	250.000000	ND	99		70-130	
					8.1		30.0	

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 353368 Report Date.: 05/08/2008

CUSTOMER: Conestoga-Rovers and Associates PROJECT: MARK OWEN 9 ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time

Test Method.....: EPA 300.0 Units.....: mg/L Analyst...: sur
Method Description.: Ion Chromatography Analysis Batch(s)...: 198266 198333

CCB | Continuing Calibration Blank | | | | 05/01/2008 | 1837

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 | | | | 05/01/2008 | 2129

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 | | | | 05/01/2008 | 2333

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 | WCS49267 | | | 05/01/2008 | 1821

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br)	20.046		20.00		100.2		90.0-110.0	
Chloride	19.898		20.00		99.5		90.0-110.0	
Fluoride (F)	9.9873		10.00		99.9		90.0-110.0	
Nitrogen, Nitrate as N (NO3-N)	10.462		10.0		104.6		90.0-110.0	
Sulfate (SO4)	19.785		20.00		98.9		90.0-110.0	
Nitrogen, Nitrite as N (NO2-N)	9.7568		10.0		97.6		90.0-110.0	

 * %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 353368 — Report Date.: 05/08/2008

CUSTOMER: Conestoga-Rovers and Associates — PROJECT: MARK OHEN 9 — ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
CCV	Continuing Calibration Verification	WCS49267			05/01/2008	2113

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br)	19.880		20.00		99.4		90.0-110.0	
Chloride	19.747		20.00		98.7		90.0-110.0	
Fluoride (F)	10.002		10.00		100.0		90.0-110.0	
Nitrogen, Nitrate as N (NO3-N)	10.362		10.0		103.6		90.0-110.0	
Sulfate (SO4)	20.044		20.00		100.2		90.0-110.0	
Nitrogen, Nitrite as N (NO2-N)	9.7408		10.0		97.4		90.0-110.0	

CCV	Continuing Calibration Verification	WCS49267			05/01/2008	2318

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br)	19.884		20.00		99.4		90.0-110.0	
Chloride	19.673		20.00		98.4		90.0-110.0	
Fluoride (F)	9.9339		10.00		99.3		90.0-110.0	
Nitrogen, Nitrate as N (NO3-N)	10.369		10.0		103.7		90.0-110.0	
Sulfate (SO4)	20.108		20.00		100.5		90.0-110.0	
Nitrogen, Nitrite as N (NO2-N)	9.6968		10.0		97.0		90.0-110.0	

DU	Method Duplicate		353447-1	100	05/01/2008	1718

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br), Water	0			0	0		1	
Chloride, Water	3.1302			3.0592	2.3		20	
Fluoride (F), Water	0			0	0		0	
Nitrogen, Nitrate as N (NO3-N), Water	0.1441			0.1429	0.0012		0.2500	
Sulfate (SO4), Water	2.6568			2.5531	4.0		20	
Nitrogen, Nitrite as N (NO2-N), Water	0			0	0		0	

DU	Method Duplicate		353368-2	10	05/01/2008	2010

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br), Water	0.0690			0	0.0690		0.6000	
Chloride, Water	18.962			18.961	0.0		20	
Fluoride (F), Water	0.2007			0.2106	0.0099		0.3000	
Nitrogen, Nitrate as N (NO3-N), Water	0.2363			0.2345	0.0018		0.2500	
Sulfate (SO4), Water	7.2977			7.2902	0.1		20	
Nitrogen, Nitrite as N (NO2-N), Water	0			0	0		0	

ICB	Initial Calibration Blank				05/01/2008	1600

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							

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 353368 — Report Date.: 05/08/2008

CUSTOMER: Conestoga-Rovers and Associates — PROJECT: MARK OWEN 9 — ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
ICV	Initial Calibration Verification	WCS49267			05/01/2008	1545

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br)	20.203		20.00		101.0		90.0-110.0	
Chloride	20.096		20.00		100.5		90.0-110.0	
Fluoride (F)	9.9777		10.00		99.8		90.0-110.0	
Nitrogen, Nitrate as N (NO3-N)	10.459		10.0		104.6		90.0-110.0	
Sulfate (SO4)	19.877		20.00		99.4		90.0-110.0	
Nitrogen, Nitrite as N (NO2-N)	9.8006		10.0		98.0		90.0-110.0	

LCS	Laboratory Control Sample	WCS49267			05/01/2008	1631

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br)	20.156		20.00		100.8		90.0-110.0	
Chloride	20.092		20.00		100.5		90.0-110.0	
Fluoride (F)	9.9278		10.00		99.3		90.0-110.0	
Nitrogen, Nitrate as N (NO3-N)	10.517		10.0		105.2		90.0-110.0	
Sulfate (SO4)	19.988		20.00		99.9		90.0-110.0	
Nitrogen, Nitrite as N (NO2-N)	9.8126		10.0		98.1		90.0-110.0	

MB	Method Blank				05/01/2008	1616

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							

MS	Matrix Spike	WCS48935	353447-1	100	05/01/2008	1734

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br), Water	9.7961		10.000000	0	98.0		90-110	
Chloride, Water	12.453		10.000000	3.0592	93.9		90-110	
Fluoride (F), Water	1.5295		2.000000	0	76.5		90-110	A
Nitrogen, Nitrate as N (NO3-N), Water	2.0965		2.000000	0.1429	97.7		90-110	
Sulfate (SO4), Water	12.038		10.000000	2.5531	94.8		90-110	
Nitrogen, Nitrite as N (NO2-N), Water	1.7670		2.000000	0	88.3		90-110	A

MS	Matrix Spike	WCS48935	353368-2	10	05/01/2008	2026

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br), Water	9.9758		10.000000	0	99.8		90-110	
Chloride, Water	27.980		10.000000	18.961	90.2		90-110	
Fluoride (F), Water	1.8393		2.000000	0.2106	81.4		90-110	A
Nitrogen, Nitrate as N (NO3-N), Water	2.1840		2.000000	0.2345	97.5		90-110	
Sulfate (SO4), Water	16.411		10.000000	7.2902	91.2		90-110	
Nitrogen, Nitrite as N (NO2-N), Water	1.9049		2.000000	0	95.2		90-110	

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 353368 — Report Date.: 05/08/2008

CUSTOMER: Conestoga-Rovers and Associates — PROJECT: MARK OWEN 9 — ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
CCB	Continuing Calibration Blank				05/02/2008	1810

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							

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
CCB	Continuing Calibration Blank				05/02/2008	2118

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							

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
CCB	Continuing Calibration Blank				05/03/2008	0009

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br)	0							
Chloride	0.2143							
Fluoride (F)	0							
Nitrogen, Nitrate as N (NO3-N)	0							
Sulfate (SO4)	0							
Nitrogen, Nitrite as N (NO2-N)	0							

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
CCB	Continuing Calibration Blank				05/03/2008	0230

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							

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
CCB	Continuing Calibration Blank				05/03/2008	0404

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							

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 353368 — Report Date.: 05/08/2008

CUSTOMER: Conestoga-Rovers and Associates — PROJECT: MARK OWEN 9 — ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
CCV	Continuing Calibration Verification	WCS49267			05/02/2008	1754

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br)	20.072		20.00		100.4		90.0-110.0	
Chloride	19.856		20.00		99.3		90.0-110.0	
Fluoride (F)	10.311		10.00		103.1		90.0-110.0	
Nitrogen, Nitrate as N (NO3-N)	10.455		10.0		104.5		90.0-110.0	
Sulfate (SO4)	19.927		20.00		99.6		90.0-110.0	
Nitrogen, Nitrite as N (NO2-N)	9.7482		10.0		97.5		90.0-110.0	

CCV	Continuing Calibration Verification	WCS49267			05/02/2008	2102

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br)	19.993		20.00		100.0		90.0-110.0	
Chloride	19.707		20.00		98.5		90.0-110.0	
Fluoride (F)	10.149		10.00		101.5		90.0-110.0	
Nitrogen, Nitrate as N (NO3-N)	10.401		10.0		104.0		90.0-110.0	
Sulfate (SO4)	19.963		20.00		99.8		90.0-110.0	
Nitrogen, Nitrite as N (NO2-N)	9.7025		10.0		97.0		90.0-110.0	

CCV	Continuing Calibration Verification	WCS49267			05/02/2008	2354

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br)	19.795		20.00		99.0		90.0-110.0	
Chloride	19.671		20.00		98.4		90.0-110.0	
Fluoride (F)	10.214		10.00		102.1		90.0-110.0	
Nitrogen, Nitrate as N (NO3-N)	10.31		10.0		103.1		90.0-110.0	
Sulfate (SO4)	19.602		20.00		98.0		90.0-110.0	
Nitrogen, Nitrite as N (NO2-N)	9.6989		10.0		97.0		90.0-110.0	

CCV	Continuing Calibration Verification	WCS49267			05/03/2008	0214

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	19.586		20.00		97.9		90.0-110.0	
Fluoride (F)	9.9080		10.00		99.1		90.0-110.0	
Nitrogen, Nitrate as N (NO3-N)	10.32		10.0		103.2		90.0-110.0	
Sulfate (SO4)	19.784		20.00		98.9		90.0-110.0	
Nitrogen, Nitrite as N (NO2-N)	9.6290		10.0		96.3		90.0-110.0	

CCV	Continuing Calibration Verification	WCS49267			05/03/2008	0348

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br)	19.88		20.00		99.4		90.0-110.0	
Chloride	19.772		20.00		98.9		90.0-110.0	
Fluoride (F)	10.142		10.00		101.4		90.0-110.0	
Nitrogen, Nitrate as N (NO3-N)	10.39		10.0		103.9		90.0-110.0	
Sulfate (SO4)	20.002		20.00		100.0		90.0-110.0	
Nitrogen, Nitrite as N (NO2-N)	9.7176		10.0		97.2		90.0-110.0	

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 353368 — Report Date.: 05/08/2008

CUSTOMER: Conestoga-Rovers and Associates — PROJECT: MARK OWEN 9 — ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
DU	Method Duplicate		353538-1	10	05/02/2008	1857

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br), Water	0			0	0		1	
Chloride, Water	3.3825			3.2809	3.0		20	
Fluoride (F), Water	0			0	0		0	
Nitrogen, Nitrate as N (NO3-N), Water	0.1176			0.1169	0.0007		0.2500	
Sulfate (SO4), Water	1.3141			1.4262	0.1121		0.5000	
Nitrogen, Nitrite as N (NO2-N), Water	0			0	0		0	

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
DU	Method Duplicate		353568-7		05/03/2008	0317

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Chloride, Soil	1.4925			1.5094	0.0169		0.5000	

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
ICB	Initial Calibration Blank				05/02/2008	1534

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							

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
ICV	Initial Calibration Verification	WCS49267			05/02/2008	1518

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br)	20.045		20.00		100.2		90.0-110.0	
Chloride	19.890		20.00		99.5		90.0-110.0	
Fluoride (F)	10.047		10.00		100.5		90.0-110.0	
Nitrogen, Nitrate as N (NO3-N)	10.387		10.0		103.9		90.0-110.0	
Sulfate (SO4)	19.788		20.00		98.9		90.0-110.0	
Nitrogen, Nitrite as N (NO2-N)	9.7448		10.0		97.4		90.0-110.0	

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
LCS	Laboratory Control Sample	WCS49267			05/02/2008	1605

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br)	20.154		20.00		100.8		90.0-110.0	
Chloride	20.083		20.00		100.4		90.0-110.0	
Fluoride (F)	10.261		10.00		102.6		90.0-110.0	
Nitrogen, Nitrate as N (NO3-N)	10.501		10.0		105.0		90.0-110.0	
Sulfate (SO4)	19.914		20.00		99.6		90.0-110.0	
Nitrogen, Nitrite as N (NO2-N)	9.8125		10.0		98.1		90.0-110.0	

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 353368 — Report Date.: 05/08/2008

CUSTOMER: Conestoga-Rovers and Associates — PROJECT: MARK CNEW 9 — ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
MB	Method Blank				05/02/2008	1550

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							

MS	Matrix Spike	WG548935	353553-1	10	05/02/2008	1912

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromide (Br), Water	9.7051		10.000000	0	97.1		90-110	
Chloride, Water	12.562		10.000000	3.2809	92.8		90-110	
Fluoride (F), Water	1.6119		2.000000	0	80.6		90-110	A
Nitrogen, Nitrate as N (NO3-N), Water	2.0638		2.000000	0.1169	97.3		90-110	
Sulfate (SO4), Water	10.858		10.000000	1.4262	94.3		90-110	
Nitrogen, Nitrite as N (NO2-N), Water	1.7263		2.000000	0	86.3		90-110	A

MS	Matrix Spike	WG548935	353568-7		05/03/2008	0332

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Chloride, Soil	10.387		10.000000	1.5094	88.8		90-110	A

Test Method.....: SW-846 7470A — Units.....: ug/L — Analyst...: dcl
Method Description.: Mercury (CVAA) — Batch(s)...: 198188

CCB	Continuing Calibration Blank				04/30/2008	1420

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Mercury (Hg)	0.00863624							

CCB	Continuing Calibration Blank				04/30/2008	1441

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Mercury (Hg)	0.00514303							

CCB	Continuing Calibration Blank				04/30/2008	1459

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Mercury (Hg)	-0.00685962							

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 353368 — Report Date.: 05/08/2008

CUSTOMER: Conestoga-Rovers and Associates — PROJECT: HARK GWEN 9 — ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
CCB	Continuing Calibration Blank				04/30/2008	1517

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Mercury (Hg)	0.00079183							

CCV	Continuing Calibration Verification	MSHGICV2			04/30/2008	1418

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Mercury (Hg)	3.085589007		3.00		102.9		80.0-120.0	

CCV	Continuing Calibration Verification	MSHGICV2			04/30/2008	1436

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Mercury (Hg)	3.076712085		3.00		102.6		80.0-120.0	

CCV	Continuing Calibration Verification	MSHGICV2			04/30/2008	1456

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Mercury (Hg)	3.101762682		3.00		103.4		80.0-120.0	

CCV	Continuing Calibration Verification	MSHGICV2			04/30/2008	1515

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Mercury (Hg)	3.111362477		3.00		103.7		80.0-120.0	

CRA	Contract Required Detection Limit	MSHGCRA			04/30/2008	1416

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Mercury (Hg)	0.2051864667		0.200		102.6		50.0-150.0	

EB	Extraction Blank		198062-1		04/30/2008	1426

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Mercury (Hg), TCLP	0.01645552							

EB	Extraction Blank		198132-1		04/30/2008	1442

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Mercury (Hg), TCLP	0.01394150							

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 353368 — Report Date.: 05/08/2008

CUSTOMER: Conestoga-Rovers and Associates — PROJECT: MARK OWEN 9 — ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
ICB	Initial Calibration Blank				04/30/2008	1414

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Mercury (Hg)	0.00333939							

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
ICV	Initial Calibration Verification	MSHGICV2			04/30/2008	1412

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Mercury (Hg)	3.138941783		3.00		104.6		90.0-110.0	

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
LCS	Laboratory Control Sample	MSHGICV2	198149		04/30/2008	1424

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Mercury (Hg), Water	3.010410942		3.00		100.3		80.0-120.0	

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
MB	Method Blank		198149		04/30/2008	1422

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Mercury (Hg), Water	0.00962780							

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
MD	Method Duplicate		353045-1		04/30/2008	1429

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Mercury (Hg), TCLP	0.00894629	0.01509500		0.01509500	0.00614871		0.20000000	

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
MD	Method Duplicate		353368-1		04/30/2008	1454

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Mercury (Hg), Water	0.00286804	0.00122344		0.00122344	0.00164460		0.20000000	

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
MS	Matrix Spike	MSHGICV2	353045-1		04/30/2008	1431

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Mercury (Hg), TCLP	3.182467161		3.00	0.01509500	105.6		75-125	

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
MS	Matrix Spike	MSHGICV2	353368-1		04/30/2008	1500

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Mercury (Hg), Water	2.823763631		3.00	0.00122344	94.1		75-125	

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 353368 — Report Date.: 05/08/2008

CUSTOMER: Conestoga-Rovers and Associates — PROJECT: MARK OWEN 9 — ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
MSD	Matrix Spike Duplicate	MSHGICV2	353045-1		04/30/2008	1434

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Mercury (Hg), TCLP	3.215987543	3.182467161	3.00	0.01509500	106.7		75-125	
					1.0		20	

MSD	Matrix Spike Duplicate	MSHGICV2	353368-1		04/30/2008	1502

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Mercury (Hg), Water	2.807403325	2.823763631	3.00	0.00122344	93.5		75-125	
					0.6		20	

PDS	Post Digestion Spike	MSHGICV2	353045-1		04/30/2008	1511

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Mercury (Hg), TCLP	3.932693808		3.00	0.01509500	130.6		75-125	A

SB	Calibration Blank				04/30/2008	1358

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Mercury (Hg)	0							

SB2	Calibration Standard				04/30/2008	1400

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Mercury (Hg)	0							

SB5	Calibration Standard				04/30/2008	1401

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Mercury (Hg)	0							

S1B	Calibration Standard				04/30/2008	1403

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Mercury (Hg)	0							

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 353368 — Report Date.: 05/08/2008

CUSTOMER: Conestoga-Rovers and Associates — PROJECT: MARK OWEN 9 — ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
S10.0	Calibration Standard				04/30/2008	1409

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Mercury (Hg)	0							

S2.0	Calibration Standard				04/30/2008	1405

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Mercury (Hg)	0							

S5.0	Calibration Standard				04/30/2008	1407

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Mercury (Hg)	0							

SD	Serial Dilution		353045-1	5	04/30/2008	1513

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Mercury (Hg), TCLP	-0.00090577			0.01509500				

Test Method.....: SW-846 6010B — Units.....: mg/L — Analyst...: srp
Method Description.: Metals Analysis (ICAP Trace) — Batch(s)...: 198588

CCB	Continuing Calibration Blank				05/08/2008	0848

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Arsenic (As)	0.00144							
Barium (Ba)	0.00005							
Cadmium (Cd)	0.00003							
Chromium (Cr)	0.00071							
Lead (Pb)	0.00095							
Selenium (Se)	0.00066							
Silver (Ag)	-0.00015							

CCB	Continuing Calibration Blank				05/08/2008	0952

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Arsenic (As)	0.00094							
Barium (Ba)	0.00006							
Cadmium (Cd)	0.00011							
Chromium (Cr)	0.00055							
Lead (Pb)	0.00079							
Selenium (Se)	0.00195							
Silver (Ag)	-0.00054							

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 353368 Report Date.: 05/08/2008

CUSTOMER: Conestoga-Rovers and Associates PROJECT: MARK OWEN 9 ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
CCB	Continuing Calibration Blank				05/08/2008	1016

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Arsenic (As)	0.00020							
Barium (Ba)	0.00007							
Cadmium (Cd)	-0.00000							
Chromium (Cr)	0.00051							
Lead (Pb)	0.00061							
Selenium (Se)	0.00091							
Silver (Ag)	-0.00063							

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
CCB	Continuing Calibration Blank				05/08/2008	1057

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Arsenic (As)	0.00066							
Barium (Ba)	0.00004							
Cadmium (Cd)	0.00006							
Chromium (Cr)	0.00035							
Lead (Pb)	0.00009							
Selenium (Se)	0.00025							
Silver (Ag)	-0.00072							

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
CCB	Continuing Calibration Blank				05/08/2008	1119

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Arsenic (As)	-0.00047							
Barium (Ba)	0.00012							
Cadmium (Cd)	0.00004							
Chromium (Cr)	0.00054							
Lead (Pb)	0.00074							
Selenium (Se)	0.00026							
Silver (Ag)	-0.00019							

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
CCV	Continuing Calibration Verification	MS050508CC			05/08/2008	0845

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Arsenic (As)	0.50693		0.500		101.4		90.0-110.0	
Barium (Ba)	0.49722		0.500		99.4		90.0-110.0	
Cadmium (Cd)	0.50488		0.500		101.0		90.0-110.0	
Chromium (Cr)	0.50659		0.500		101.3		90.0-110.0	
Lead (Pb)	0.50306		0.500		100.6		90.0-110.0	
Selenium (Se)	0.50271		0.500		100.5		90.0-110.0	
Silver (Ag)	0.24731		0.25		98.9		90.0-110.0	

 * %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 353368 — Report Date.: 05/08/2008

CUSTOMER: Conestoga-Rovers and Associates — PROJECT: MARK OWEN 9 — ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
CCV	Continuing Calibration Verification	MS050508CC			05/08/2008	0929

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Arsenic (As)	0.51163		0.500		102.3		90.0-110.0	
Barium (Ba)	0.49662		0.500		99.3		90.0-110.0	
Cadmium (Cd)	0.50768		0.500		101.5		90.0-110.0	
Chromium (Cr)	0.51038		0.500		102.1		90.0-110.0	
Lead (Pb)	0.50725		0.500		101.5		90.0-110.0	
Selenium (Se)	0.50384		0.500		100.8		90.0-110.0	
Silver (Ag)	0.24852		0.25		99.4		90.0-110.0	

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
CCV	Continuing Calibration Verification	MS050508CC			05/08/2008	1013

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Arsenic (As)	0.50492		0.500		101.0		90.0-110.0	
Barium (Ba)	0.49342		0.500		98.7		90.0-110.0	
Cadmium (Cd)	0.50268		0.500		100.5		90.0-110.0	
Chromium (Cr)	0.50739		0.500		101.5		90.0-110.0	
Lead (Pb)	0.50244		0.500		100.5		90.0-110.0	
Selenium (Se)	0.49659		0.500		99.3		90.0-110.0	
Silver (Ag)	0.24739		0.25		99.0		90.0-110.0	

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
CCV	Continuing Calibration Verification	MS050508CC			05/08/2008	1054

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Arsenic (As)	0.50817		0.500		101.6		90.0-110.0	
Barium (Ba)	0.49120		0.500		98.2		90.0-110.0	
Cadmium (Cd)	0.50297		0.500		100.6		90.0-110.0	
Chromium (Cr)	0.50781		0.500		101.6		90.0-110.0	
Lead (Pb)	0.50364		0.500		100.7		90.0-110.0	
Selenium (Se)	0.50451		0.500		100.9		90.0-110.0	
Silver (Ag)	0.24664		0.25		98.7		90.0-110.0	

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
CCV	Continuing Calibration Verification	MS050508CC			05/08/2008	1116

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Arsenic (As)	0.51114		0.500		102.2		90.0-110.0	
Barium (Ba)	0.49245		0.500		98.5		90.0-110.0	
Cadmium (Cd)	0.50404		0.500		100.8		90.0-110.0	
Chromium (Cr)	0.50999		0.500		102.0		90.0-110.0	
Lead (Pb)	0.50543		0.500		101.1		90.0-110.0	
Selenium (Se)	0.50218		0.500		100.4		90.0-110.0	
Silver (Ag)	0.24804		0.25		99.2		90.0-110.0	

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 353368 — Report Date.: 05/08/2008

CUSTOMER: Conestoga-Rovers and Associates — PROJECT: MARK OWEN 9 — ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
CM1	Calibration check standard 1	MS041908T1			05/08/2008	0834

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Arsenic (As)	0.01169		0.0100		116.9		80.0-120.0	
Barium (Ba)	0.00999		0.0100		99.9		80.0-120.0	
Cadmium (Cd)	0.00507		0.00500		101.4		80.0-120.0	
Chromium (Cr)	0.01065		0.0100		106.5		80.0-120.0	
Lead (Pb)	0.00982		0.0100		98.2		80.0-120.0	
Selenium (Se)	0.01118		0.0100		111.8		80.0-120.0	
Silver (Ag)	0.00419		0.00500		83.8		80.0-120.0	

CM3	Standard check for ICAP	MS041908T3			05/08/2008	0817

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Arsenic (As)	2.00028		2.00		100.0		95.0-105.0	
Barium (Ba)	2.00751		2.00		100.4		95.0-105.0	
Cadmium (Cd)	0.99909		1.00		99.9		95.0-105.0	
Chromium (Cr)	2.00367		2.00		100.2		95.0-105.0	
Lead (Pb)	2.00179		2.00		100.1		95.0-105.0	
Selenium (Se)	2.01696		2.00		100.8		95.0-105.0	
Silver (Ag)	1.00033		1.00		100.0		95.0-105.0	

EB	Extraction Blank		198516		05/08/2008	1046

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Arsenic (As), Liquid	0.00151							
Barium (Ba), Liquid	0.00084							
Cadmium (Cd), Liquid	0.00008							
Chromium (Cr), Liquid	0.00127							
Lead (Pb), Liquid	0.00062							
Selenium (Se), Liquid	0.00135							
Silver (Ag), Liquid	-0.00007							

ICB	Initial Calibration Blank				05/08/2008	0830

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Arsenic (As)	-0.00084							
Barium (Ba)	-0.00006							
Cadmium (Cd)	-0.00013							
Chromium (Cr)	0.00015							
Lead (Pb)	-0.00047							
Selenium (Se)	0.00120							
Silver (Ag)	-0.00084							

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 353368 — Report Date.: 05/08/2008

CUSTOMER: Conestoga-Rovers and Associates — PROJECT: MARK OWEN 9 — ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
ICV	Initial Calibration Verification	MS050508CC			05/08/2008	0820

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Arsenic (As)	0.50929		0.500		101.9		90.0-110.0	
Barium (Ba)	0.49929		0.500		99.9		90.0-110.0	
Cadmium (Cd)	0.50717		0.500		101.4		90.0-110.0	
Chromium (Cr)	0.50763		0.500		101.5		90.0-110.0	
Lead (Pb)	0.50548		0.500		101.1		90.0-110.0	
Selenium (Se)	0.50508		0.500		101.0		90.0-110.0	
Silver (Ag)	0.24810		0.25		99.2		90.0-110.0	

ICSA	Interference Check Sample A	MS041908IA			05/08/2008	0837

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Arsenic (As)	0.00012		0.0					
Barium (Ba)	0.00152		0.0					
Cadmium (Cd)	-0.00087		0.0					
Chromium (Cr)	0.00302		0.0					
Lead (Pb)	-0.01111		0.0					
Selenium (Se)	0.01211		0.0					
Silver (Ag)	-0.00057		0.0					

ICSB	Interference Check Sample B	MS041908IB			05/08/2008	0841

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Arsenic (As)	1.02556		1.00		102.6		80.0-120.0	
Barium (Ba)	1.01721		1.00		101.7		80.0-120.0	
Cadmium (Cd)	0.46892		0.500		93.8		80.0-120.0	
Chromium (Cr)	0.96834		1.00		96.8		80.0-120.0	
Lead (Pb)	0.95410		1.00		95.4		80.0-120.0	
Selenium (Se)	1.03513		1.00		103.5		80.0-120.0	
Silver (Ag)	0.53511		0.500		107.0		80.0-120.0	

LCS	Laboratory Control Sample	MSPIKE4	198516		05/08/2008	0856

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Arsenic (As), Water	1.03934		1.00		103.9		80.0-120.0	
Barium (Ba), Water	1.03304		1.00		103.3		80.0-120.0	
Cadmium (Cd), Water	0.51444		0.500		102.9		80.0-120.0	
Chromium (Cr), Water	1.02891		1.00		102.9		80.0-120.0	
Lead (Pb), Water	1.02864		1.00		102.9		80.0-120.0	
Selenium (Se), Water	1.02349		1.00		102.3		80.0-120.0	
Silver (Ag), Water	0.51085		0.500		102.2		80.0-120.0	

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 353368

Report Date.: 05/08/2008

CUSTOMER: Conestoga-Rovers and Associates PROJECT: MARK OWEN 9 ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
MB	Method Blank		198516		05/08/2008	0852

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Arsenic (As), Water	-0.00036							
Barium (Ba), Water	0.00011							
Cadmium (Cd), Water	0.00003							
Chromium (Cr), Water	0.00083							
Lead (Pb), Water	0.00027							
Selenium (Se), Water	-0.00177							
Silver (Ag), Water	-0.00006							

MD	Method Duplicate		353218-9		05/08/2008	1020

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Arsenic (As), Diss.	0.00000	0.00077		0.00077	0.00077		0.02000	
Barium (Ba), Diss.	0.11973	0.12230		0.12230	2.1		20	
Cadmium (Cd), Diss.	0.00000	0.00012		0.00012	0.00012		0.00500	
Chromium (Cr), Diss.	0.00083	0.00118		0.00118	0.00035		0.01000	
Lead (Pb), Diss.	0.00027	0.00043		0.00043	0.00016		0.01000	
Selenium (Se), Diss.	0.00134	-0.00030		-0.00030	0.00164		0.04000	
Silver (Ag), Diss.	-0.00007	-0.00041		-0.00041	0.00034		0.01000	

MD	Method Duplicate		353218-11		05/08/2008	1035

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Arsenic (As), Diss.	0.00134	0.00136		0.00136	0.00002		0.02000	
Barium (Ba), Diss.	0.06399	0.06525		0.06525	0.00126		0.02000	
Cadmium (Cd), Diss.	0.00009	-0.00001		-0.00001	0.00010		0.00500	
Chromium (Cr), Diss.	0.00116	0.00115		0.00115	0.00001		0.01000	
Lead (Pb), Diss.	0.00126	0.00202		0.00202	0.00076		0.01000	
Selenium (Se), Diss.	-0.00181	0.00112		0.00112	0.00293		0.04000	
Silver (Ag), Diss.	-0.00042	-0.00087		-0.00087	0.00045		0.01000	

MS	Matrix Spike	MSPIKEW	353218-9		05/08/2008	1024

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Arsenic (As), Diss.	1.00910		1.00	0.00077	100.8		75-125	
Barium (Ba), Diss.	1.09387		1.00	0.12230	97.2		75-125	
Cadmium (Cd), Diss.	0.48836		0.500	0.00012	97.6		75-125	
Chromium (Cr), Diss.	0.98227		1.00	0.00118	98.1		75-125	
Lead (Pb), Diss.	0.98556		1.00	0.00043	98.5		75-125	
Selenium (Se), Diss.	0.98999		1.00	-0.00030	99.0		75-125	
Silver (Ag), Diss.	0.49010		0.500	-0.00041	98.1		75-125	

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 353368 — Report Date.: 05/08/2008

CUSTOMER: Conestoga-Rovers and Associates — PROJECT: MARK-CWEN 9 — ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
MS	Matrix Spike	MSPIKEW	353218-11		05/08/2008	1038

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Arsenic (As), Diss.	1.06013		1.00	0.00136	105.9		75-125	
Barium (Ba), Diss.	1.09591		1.00	0.06525	103.1		75-125	
Cadmium (Cd), Diss.	0.51128		0.500	-0.00001	102.3		75-125	
Chromium (Cr), Diss.	1.03403		1.00	0.00115	103.3		75-125	
Lead (Pb), Diss.	1.03580		1.00	0.00202	103.4		75-125	
Selenium (Se), Diss.	1.03543		1.00	0.00112	103.4		75-125	
Silver (Ag), Diss.	0.51733		0.500	-0.00087	103.6		75-125	

MSD	Matrix Spike Duplicate	MSPIKEW	353218-9		05/08/2008	1027

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Arsenic (As), Diss.	1.07565	1.00910	1.00	0.00077	107.5		75-125	
					6.4		20	
Barium (Ba), Diss.	1.15367	1.09387	1.00	0.12230	103.1		75-125	
					5.9		20	
Cadmium (Cd), Diss.	0.51858	0.48836	0.500	0.00012	103.7		75-125	
					6.1		20	
Chromium (Cr), Diss.	1.04588	0.98227	1.00	0.00118	104.5		75-125	
					6.3		20	
Lead (Pb), Diss.	1.05160	0.98556	1.00	0.00043	105.1		75-125	
					6.5		20	
Selenium (Se), Diss.	1.05294	0.98999	1.00	-0.00030	105.3		75-125	
					6.2		20	
Silver (Ag), Diss.	0.52229	0.49010	0.500	-0.00041	104.5		75-125	
					6.3		20	

MSD	Matrix Spike Duplicate	MSPIKEW	353218-11		05/08/2008	1042

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Arsenic (As), Diss.	1.05768	1.06013	1.00	0.00136	105.6		75-125	
					0.3		20	
Barium (Ba), Diss.	1.09165	1.09591	1.00	0.06525	102.6		75-125	
					0.5		20	
Cadmium (Cd), Diss.	0.51012	0.51128	0.500	-0.00001	102.0		75-125	
					0.3		20	
Chromium (Cr), Diss.	1.03462	1.03403	1.00	0.00115	103.3		75-125	
					0.0		20	
Lead (Pb), Diss.	1.03311	1.03580	1.00	0.00202	103.1		75-125	
					0.3		20	
Selenium (Se), Diss.	1.03653	1.03543	1.00	0.00112	103.5		75-125	
					0.1		20	
Silver (Ag), Diss.	0.51670	0.51733	0.500	-0.00087	103.5		75-125	
					0.1		20	

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 353368 Report Date.: 05/08/2008

CUSTOMER: Conestoga-Rovers and Associates PROJECT: MARK OWEN 9 ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
PDS	Post Digestion Spike	MSPIKE3	353218-9	5	05/08/2008	1101

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Arsenic (As), Diss.	1.03751		1.00	0.00077	103.7		75-125	
Barium (Ba), Diss.	1.11669		1.00	0.12230	99.4		75-125	
Cadmium (Cd), Diss.	0.50372		0.500	0.00012	100.7		75-125	
Chromium (Cr), Diss.	1.02599		1.00	0.00118	102.5		75-125	
Lead (Pb), Diss.	1.02473		1.00	0.00043	102.4		75-125	
Selenium (Se), Diss.	1.02748		1.00	-0.00030	102.8		75-125	
Silver (Ag), Diss.	0.50818		0.500	-0.00041	101.7		75-125	

SC	Calibration Blank				05/08/2008	0806

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Arsenic (As)	-0.00051							
Barium (Ba)	-0.00026							
Cadmium (Cd)	0.00140							
Chromium (Cr)	-0.00029							
Silver (Ag)	0.00003							

SD	Serial Dilution			353218-9	5	05/08/2008	1105

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Arsenic (As), Diss.	0.00208			0.00077				
Barium (Ba), Diss.	0.02268			0.12230	7.3		10.0	
Cadmium (Cd), Diss.	-0.00001			0.00012				
Chromium (Cr), Diss.	0.00110			0.00118				
Lead (Pb), Diss.	0.00141			0.00043				
Selenium (Se), Diss.	0.00282			-0.00030				
Silver (Ag), Diss.	-0.00028			-0.00041				

SPD	Spiked Blank Duplicate				05/08/2008	0809

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Arsenic (As)	1.13292							
Barium (Ba)	15.41192							
Cadmium (Cd)	12.60668							
Chromium (Cr)	2.28933							
Silver (Ag)	0.83351							

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 353368 Report Date.: 05/08/2008

CUSTOMER: Conestoga-Rovers and Associates PROJECT: MARK OWEN 9 ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time

Test Method.....: SW-846 8015B Units.....: mg/L Analyst...: jps
Method Description.: Total Extractable Petroleum Hydrocarbons Batch(s)...: 198378

LCD	Laboratory Control Sample Duplicate	GC020708	198218		05/02/2008	1330

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
TEPH - as Diesel, Water	1080.09	1110.31	1000.000000	ND	108.0		70-130	
					2.8		20	

LCS	Laboratory Control Sample	GC020708	198218		05/02/2008	1246

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
TEPH - as Diesel, Water	1110.31		1000.000000	ND	111.0		69-118	

MB	Method Blank	GC110807	198218		05/02/2008	1202

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
TEPH - as Diesel, Water	ND							

 * %=% REC, R=RPD, A=ABS Diff., D=% Diff.

SURROGATE RECOVERIES REPORT

Job Number.: 353368 Report Date.: 05/08/2008

CUSTOMER: Conestoga-Rovers and Associates PROJECT: MARK OHEN 2 ATTN: Arthur Greeley

Method.....: Total Extractable Petroleum Hydrocarbons Method Code...: 8015D Prep Batch....: 198218
Batch(s).....: 198378 Test Matrix...: Water Equipment Code: EXTGC01

Lab ID	DT	Sample ID	Date	OTERPH
353368- 1		MW142508	05/02/2008	90
353368- 2		MW242508	05/02/2008	83
353368- 3		MW342508	05/02/2008	72
353368- 4		MW442508	05/02/2008	80
353368- 5		DUP42508	05/02/2008	79
198218--21	LCD		05/02/2008	66
198218--21	LCS		05/02/2008	65
198218--21	MB		05/02/2008	82

Test	Test Description	Limits
OTERPH	o-Terphenyl	60 - 140

SURROGATE RECOVERIES REPORT

Job Number.: 353368 Report Date.: 05/08/2008

CUSTOMER: 483648 PROJECT: MARK OWEN 9 ATTN: Arthur Greeley

Method.....: Total Volatile Petroleum Hydrocarbons Method Code...: 8015G Prep Batch....:
Batch(s).....: 198329 Test Matrix...: Water Equipment Code: BTEX04

Lab ID	DT	Sample ID	Date	ATFT	BFB
198329- 1	LCS		04/30/2008	99.8	110.4
198329- 1	MB		04/30/2008	95.9	109.8
353368- 1		MW142508	04/30/2008	96.4	110.4
353368- 2		MW242508	04/30/2008	98.0	108.5
353368- 2	MS	MW242508	04/30/2008	96.6	108.0
353368- 2	MSD	MW242508	04/30/2008	97.2	109.9
353368- 3		MW342508	04/30/2008	98.2	109.1
353368- 4		MW442508	04/30/2008	94.3	112.0
353368- 5		DUP42508	04/30/2008	92.4	111.4

Test	Test Description	Limits
ATFT	a,a,a-Trifluorotoluene	68 - 143
BFB	BFB (Surrogate)	70 - 139

SURROGATE RECOVERIES REPORT

Job Number.: 353368 Report Date.: 05/08/2008

CUSTOMER: 483648 PROJECT: MARK OWEN 9 ATTN: Arthur Greeley

Method.....: GC Volatile Organics Method Code...: 8021 Prep Batch....:
Batch(s).....: 198312 198508 Test Matrix...: Water Equipment Code: BTEX02

Lab ID	DT	Sample ID	Date	ATFT	ATFTB	BFB	BFBB
198312- 1	LCS		04/30/2008	99.5	100.9	101.1	102.2
198312- 1	MB		04/30/2008	107.5	107.4	110.7	104.1
198508- 1	LCS		05/05/2008	106.2	106.9	101.1	104.5
198508- 1	MB		05/05/2008	108.0	108.2	105.5	99.9
198508- 1	SB		05/05/2008	105.6	106.8	100.8	101.0
198508- 1	SBD		05/05/2008	105.1	106.9	101.2	100.5
353368- 1		MW142508	04/30/2008	110.2	109.8	111.4	105.3
353368- 1	MS	MW142508	04/30/2008	106.1	106.8	103.9	103.6
353368- 1	MSD	MW142508	04/30/2008	105.7	107.6	103.7	103.7
353368- 2		MW242508	04/30/2008	108.7	108.7	109.8	103.8
353368- 3		MW342508	04/30/2008	108.2	108.6	107.9	103.8
353368- 4		MW442508	04/30/2008	109.1	108.7	109.8	104.5
353368- 5		DUP42508	04/30/2008	108.2	108.1	109.7	104.0
353368- 6		TRIP	05/05/2008	107.0	106.9	106.1	99.3
353368- 7		TRIP	05/05/2008	107.6	107.5	107.1	100.2

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

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 reportesd 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.
- Trimethysilyl(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, mutltiply 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 limitiation 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

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. Phthlates 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 coefficent 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

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: 353368 Date: 05/08/2008

CUSTOMER: Conestoga-Rovers and Associates PROJECT: MARK OVEN 9 ATTN: Arthur Greeley

Lab ID: 353368-1 Client ID: MW142508 Date Recvd: 04/29/2008 Sample Date: 04/25/2008

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED		DILUTION
SW-846 3010A	Acid Digestion Aqueous/Extracts FLAA/ICP	1	198516		05/07/2008	0930	
SM 2320 B	Alkalinity	1	198199		04/30/2008	1610	
SW846 8015	Extraction (Sep Funnel) 8015 Diesel	1	198218		04/30/2008	1525	
SW-846 8021B	GC Volatile Organics	1	198312		04/30/2008	2037	1.0000
EPA 300.0	Ion Chromatography Analysis	1	198266		05/01/2008	1908	10
EPA 300.0	Ion Chromatography Analysis	1	198266		05/01/2008	1923	100
SW-846 7470A	Mercury (CVAA)	1	198188	198149	04/30/2008	1453	
SW-846 7470A	Mercury Preparation (CVAA)	1	198149		04/30/2008	1033	
SW-846 6010B	Metals Analysis (ICAP Trace)	1	198588	198516	05/08/2008	0859	
SW-846 8015B	Total Extractable Petroleum Hydrocarbons	1	198378	198218	05/02/2008	1414	
SW-846 8015B	Total Volatile Petroleum Hydrocarbons	1	198329		04/30/2008	1717	1.0000

Lab ID: 353368-2 Client ID: MW242508 Date Recvd: 04/29/2008 Sample Date: 04/25/2008

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED		DILUTION
SW-846 3010A	Acid Digestion Aqueous/Extracts FLAA/ICP	1	198516		05/07/2008	0930	
SM 2320 B	Alkalinity	1	198199		04/30/2008	1610	
SW846 8015	Extraction (Sep Funnel) 8015 Diesel	1	198218		04/30/2008	1525	
SW-846 8021B	GC Volatile Organics	1	198312		04/30/2008	2057	1.0000
EPA 300.0	Ion Chromatography Analysis	1	198266		05/01/2008	1955	10
SW-846 7470A	Mercury (CVAA)	1	198188	198149	04/30/2008	1504	
SW-846 7470A	Mercury Preparation (CVAA)	1	198149		04/30/2008	1033	
SW-846 6010B	Metals Analysis (ICAP Trace)	1	198588	198516	05/08/2008	0903	
SW-846 8015B	Total Extractable Petroleum Hydrocarbons	1	198378	198218	05/02/2008	1202	
SW-846 8015B	Total Volatile Petroleum Hydrocarbons	1	198329		04/30/2008	1743	1.0000

Lab ID: 353368-3 Client ID: MW342508 Date Recvd: 04/29/2008 Sample Date: 04/25/2008

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED		DILUTION
SW-846 3010A	Acid Digestion Aqueous/Extracts FLAA/ICP	1	198516		05/07/2008	0930	
SM 2320 B	Alkalinity	1	198199		04/30/2008	1610	
SW846 8015	Extraction (Sep Funnel) 8015 Diesel	1	198218		04/30/2008	1525	
SW-846 8021B	GC Volatile Organics	1	198312		04/30/2008	2118	1.0000
EPA 300.0	Ion Chromatography Analysis	1	198266		05/01/2008	2042	
EPA 300.0	Ion Chromatography Analysis	1	198266		05/01/2008	2057	10
SW-846 7470A	Mercury (CVAA)	1	198188	198149	04/30/2008	1506	
SW-846 7470A	Mercury Preparation (CVAA)	1	198149		04/30/2008	1033	
SW-846 6010B	Metals Analysis (ICAP Trace)	1	198588	198516	05/08/2008	0907	
SW-846 8015B	Total Extractable Petroleum Hydrocarbons	1	198378	198218	05/02/2008	1246	
SW-846 8015B	Total Volatile Petroleum Hydrocarbons	1	198329		04/30/2008	1809	1.0000

Lab ID: 353368-4 Client ID: MW442508 Date Recvd: 04/29/2008 Sample Date: 04/25/2008

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED		DILUTION
SW-846 3010A	Acid Digestion Aqueous/Extracts FLAA/ICP	1	198516		05/07/2008	0930	
SM 2320 B	Alkalinity	1	198199		04/30/2008	1610	
SW846 8015	Extraction (Sep Funnel) 8015 Diesel	1	198218		04/30/2008	1525	
SW-846 8021B	GC Volatile Organics	1	198312		04/30/2008	2138	1.0000
EPA 300.0	Ion Chromatography Analysis	1	198266		05/01/2008	2144	5
EPA 300.0	Ion Chromatography Analysis	1	198333		05/02/2008	1652	200
SW-846 7470A	Mercury (CVAA)	1	198188	198149	04/30/2008	1507	
SW-846 7470A	Mercury Preparation (CVAA)	1	198149		04/30/2008	1033	
SW-846 6010B	Metals Analysis (ICAP Trace)	1	198588	198516	05/08/2008	0910	
SW-846 8015B	Total Extractable Petroleum Hydrocarbons	1	198378	198218	05/02/2008	1330	
SW-846 8015B	Total Volatile Petroleum Hydrocarbons	1	198329		04/30/2008	1835	1.0000

Lab ID: 353368-5 Client ID: DUP42508 Date Recvd: 04/29/2008 Sample Date: 04/25/2008

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED		DILUTION
SW-846 3010A	Acid Digestion Aqueous/Extracts FLAA/ICP	1	198516		05/07/2008	0930	

LABORATORY CHRONICLE

Job Number: 353368 Date: 05/08/2008

CUSTOMER: Conestoga-Rovers and Associates PROJECT: MARK OWEN 9 ATTN: Arthur Greeley

Lab ID: 353368-5 Client ID: DUP42508 Date Recvd: 04/29/2008 Sample Date: 04/25/2008

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED		DILUTION
SM 2320 B	Alkalinity	1	198199		04/30/2008	1610	
SW846 8015	Extraction (Sep Funnel) 8015 Diesel	1	198218		04/30/2008	1525	
SW-846 8021B	GC Volatile Organics	1	198312		04/30/2008	2158	1.0000
EPA 300.0	Ion Chromatography Analysis	1	198266		05/01/2008	2231	5
EPA 300.0	Ion Chromatography Analysis	1	198333		05/02/2008	1708	200
SW-846 7470A	Mercury (CVAA)	1	198188	198149	04/30/2008	1509	
SW-846 7470A	Mercury Preparation (CVAA)	1	198149		04/30/2008	1033	
SW-846 6010B	Metals Analysis (ICAP Trace)	1	198588	198516	05/08/2008	0914	
SW-846 8015B	Total Extractable Petroleum Hydrocarbons	1	198378	198218	05/02/2008	1414	
SW-846 8015B	Total Volatile Petroleum Hydrocarbons	1	198329		04/30/2008	1901	1.0000

Lab ID: 353368-6 Client ID: TRIP Date Recvd: 04/29/2008 Sample Date: 04/25/2008

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED		DILUTION
SW-846 8021B	GC Volatile Organics	1	198508		05/05/2008	1541	1.0000

Lab ID: 353368-7 Client ID: TRIP Date Recvd: 04/29/2008 Sample Date: 04/25/2008

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED		DILUTION
SW-846 8021B	GC Volatile Organics	1	198508		05/05/2008	1601	1.0000

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☒

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353368

TAL-4124 (1007)

Client	Project Manager	Date	Chain of Custody Number
C.R.A	Tom Larson	4-28-08	078062
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 1 of 1**
2135 S. Loop 250 W.	432/686/0086 432/686/0186		
City / **State** / **Zip Code**	**Site Contact** / **Lab Contact**		
Midland / TX / 79703			
Project Name and Location (State)	**Carrier/Waybill Number**		
Owen #9 NM 046121			
Contract/Purchase Order/Quote No.			
See CRA SSOW 046121			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Other	Analysis (Attach list if more space is needed): BTEX 8021B	GRO/DRO TPH	Chlorides/Sulfates 300	TDS SM2540C	Total Alkalinity 310.1	Mercury 7470A	RCRA Metals	Arsenic/Barium	Cadmium/Chromium	Lead Selenium	Silver/Ecoli	Temp	Special Instructions/ Conditions of Receipt
MW1 42508	4-25-08	1155		X			X			X			X	X	X	X	X	X	X	X						
MW2 42508	4-25-08	1245		X			X			X			X	X	X	X	X	X	X	X						
MW3 42508	4-25-08	1330		X			X			X			X	X	X	X	X	X	X	X						
MW4 42508	4-25-08	1420		X			X			X			X	X	X	X	X	X	X	X						
Dup 42508	4-25-08	—		X			X			X			X	X	X	X	X	X	X	X						
Trip	—	—								X			X	X												
Trip	—	—								X			X	X												
Temp	—	—					X						X												X	
Temp	—	—					X						X												X	
																										New Mexico Project

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months
(A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☒ Other STD

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By: Joel Nieto	4-28-08	1000	1. Received By	4-28-08	1019
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments

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

rpjsckl	Job Sample Receipt Checklist Report	V2

Job Number.: 353368 Location.: 57216 Check List Number.: 1 Description.:
Customer Job ID.....: Job Check List Date.: 04/29/2008 Date of the Report..: 04/29/2008
Project Number.: 99007656 Project Description.: Mark Owen 9 Project Manager.....: sgk
Customer.....: Conestoga-Rovers and Associates Contact.: Arthur Greeley

Questions ?	(Y/N)	Comments
Chain of Custody Received?	Y	
...If "yes", completed properly?	Y	
Custody seal on shipping container?	Y	
...If "yes", custody seal intact?	Y	
Custody seals on sample containers?	N	
...If "yes", custody seal intact?		
Samples chilled?	Y	
Temperature of cooler acceptable? (<=6 Deg C).	Y	1.2 1.5
...If "no", is sample an air matrix?(no temp req.)		
Thermometer ID	Y	491
Samples received intact (good condition)?	Y	
Volatile samples acceptable? (no headspace)	Y	
Correct containers used?	Y	
Adequate sample volume provided?	Y	
Samples preserved correctly?	N	
Samples received within holding-time?	Y	
Agreement between COC and sample labels?	Y	
Radioactivity at or below background levels?	Y	
Additional		
Comments		
Sample Custodian Signature/Date	Y	mt

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Certificate of Analysis

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ANALYTICAL REPORT

PROJECT NO. 046121 CEMC

Mark Owen #9 Lea County, NM

Lot #: I8I170297

Tom Larson

Conestoga-Rovers & Associates,
2135 S Loop 250 W
Midland, TX 79703

TESTAMERICA LABORATORIES, INC.

Carla M. Butler
Project Manager

September 29, 2008

Case Narrative

LOT NUMBER: **I8I170297**

This report contains the analytical results for the seven samples received under chain of custody by TestAmerica Laboratories, Inc. on September 17, 2008. These samples are associated with your Mark Owen #9 Lea County, NM project.

After a telephone consultation with Mr. Tom Larson, the laboratory was instructed to run total RCRA metals from the collections that were received with nitric acid preservation and to filter an aliquot from the unpreserved collections to report as dissolved RCRA metals.

All samples were received in good condition and within temperature requirements.

Recoveries of benzene and toluene were outside limits for the 8021 MSD of sample 001, but were within limits for the MS. Please see result pages for details.

The MS/MSD for the GRO analysis could not be reported because the autosampler failed before running the spiked samples.

There was insufficient sample volume to prepare a MS/MSD for the DRO analysis. A duplicate Laboratory Control Sample was prepared to provide accuracy and precision measurements.

All applicable quality control procedures met method-specified acceptance criteria except where noted in the case narrative or flagged on the result pages.

If you have any questions, please feel free to call me at (512) 310-5318.

EXECUTIVE SUMMARY - Detection Highlights

I8I170297

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
MW-1 091608 09/16/08 10:20 001				
Diesel Range Organics	0.25	0.048	mg/L	SW846 8015B
Arsenic - DISSOLVED	0.0085 B	0.010	mg/L	SW846 6010B
Barium - DISSOLVED	0.40	0.20	mg/L	SW846 6010B
Selenium - DISSOLVED	0.0072	0.0050	mg/L	SW846 6010B
Arsenic	0.014	0.010	mg/L	SW846 6010B
Barium	0.40	0.20	mg/L	SW846 6010B
Chromium	0.0024 B	0.0050	mg/L	SW846 6010B
Selenium	0.0072	0.0050	mg/L	SW846 6010B
Chloride	1590	200	mg/L	MCAWW 300.0A
Sulfate	154	100	mg/L	MCAWW 300.0A
Total Alkalinity	146	5.0	mg/L	SM19 2320 B
Total Dissolved Solids	3620	40.0	mg/L	SM19 2540 C
MW-2 091608 09/16/08 11:15 002				
Diesel Range Organics	0.070	0.048	mg/L	SW846 8015B
Arsenic - DISSOLVED	0.011	0.010	mg/L	SW846 6010B
Barium - DISSOLVED	0.094 B	0.20	mg/L	SW846 6010B
Selenium - DISSOLVED	0.0051	0.0050	mg/L	SW846 6010B
Arsenic	0.012	0.010	mg/L	SW846 6010B
Barium	0.12 B	0.20	mg/L	SW846 6010B
Chromium	0.0056	0.0050	mg/L	SW846 6010B
Selenium	0.0060	0.0050	mg/L	SW846 6010B
Chloride	182	100	mg/L	MCAWW 300.0A
Sulfate	91.9	50.0	mg/L	MCAWW 300.0A
Total Alkalinity	181	5.0	mg/L	SM19 2320 B
Total Dissolved Solids	729	40.0	mg/L	SM19 2540 C
MW-3 091608 09/16/08 11:45 003				
Diesel Range Organics	0.073	0.048	mg/L	SW846 8015B
Arsenic - DISSOLVED	0.022	0.010	mg/L	SW846 6010B
Barium - DISSOLVED	0.086 B	0.20	mg/L	SW846 6010B
Arsenic	0.026	0.010	mg/L	SW846 6010B
Barium	0.096 B	0.20	mg/L	SW846 6010B
Chloride	63.7	20.0	mg/L	MCAWW 300.0A
Sulfate	31.8	20.0	mg/L	MCAWW 300.0A
Total Alkalinity	222	5.0	mg/L	SM19 2320 B
Total Dissolved Solids	457	40.0	mg/L	SM19 2540 C

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

I8I170297

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
MW-4 091608 09/16/08 00:45 004				
Diesel Range Organics	0.052	0.048	mg/L	SW846 8015B
Arsenic - DISSOLVED	0.016	0.010	mg/L	SW846 6010B
Barium - DISSOLVED	0.090 B	0.20	mg/L	SW846 6010B
Arsenic	0.018	0.010	mg/L	SW846 6010B
Barium	0.092 B	0.20	mg/L	SW846 6010B
Chloride	4420	500	mg/L	MCAWW 300.0A
Sulfate	136	100	mg/L	MCAWW 300.0A
Total Alkalinity	196	5.0	mg/L	SM19 2320 B
Total Dissolved Solids	8140	40.0	mg/L	SM19 2540 C
DUP 09/16/08 005				
Diesel Range Organics	0.052	0.048	mg/L	SW846 8015B
Arsenic - DISSOLVED	0.017	0.010	mg/L	SW846 6010B
Barium - DISSOLVED	0.089 B	0.20	mg/L	SW846 6010B
Arsenic	0.019	0.010	mg/L	SW846 6010B
Barium	0.088 B	0.20	mg/L	SW846 6010B
Chloride	4210	500	mg/L	MCAWW 300.0A
Sulfate	135	100	mg/L	MCAWW 300.0A
Total Alkalinity	202	5.0	mg/L	SM19 2320 B
Total Dissolved Solids	7940	40.0	mg/L	SM19 2540 C

ANALYTICAL METHODS SUMMARY

I8I170297

PARAMETER	ANALYTICAL METHOD
Alkalinity, Total	SM19 2320 B
Chloride	MCAWW 300.0A
Extractable Petroleum Hydrocarbons	SW846 8015B
Filterable Residue (TDS)	SM19 2540 C
Mercury in Liquid Waste (Manual Cold-Vapor)	SW846 7470A
Sulfate	MCAWW 300.0A
Trace Inductively Coupled Plasma (ICP) Metals	SW846 6010B
Volatile Petroleum Hydrocarbons	SW846 8015B
Volatiles by GC	SW846 8021B

References:

MCAWW "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions.

SM19 "STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER", 19TH EDITION, 1995."

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

I8I170297

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
KW3FG	001	MW-1 091608	09/16/08	10:20
KW3FP	002	MW-2 091608	09/16/08	11:15
KW3FQ	003	MW-3 091608	09/16/08	11:45
KW3FT	004	MW-4 091608	09/16/08	00:45
KW3FX	005	DUP	09/16/08	
KW3F0	006	TRIP BLANK	09/16/08	
KW4LV	007	TRIP BLANK	09/16/08	

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

QC DATA ASSOCIATION SUMMARY

I8I170297

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	WG	MCAWW 300.0A		8263104	8263056
	WG	MCAWW 300.0A		8263099	8263054
	WG	SW846 8015B		8262367	
	WG	SW846 8015B		8263237	8263133
	WG	SW846 7470A		8269491	8269359
	WG	SW846 7470A		8269494	8269362
	WG	SW846 6010B		8263218	8263121
	WG	SW846 6010B		8266305	8266184
	WG	SW846 8021B		8266527	8266300
	WG	SM19 2320 B		8263153	8263093
	WG	SM19 2540 C		8266477	8269295
002	WG	MCAWW 300.0A		8263104	8263056
	WG	MCAWW 300.0A		8263099	8263054
	WG	SW846 8015B		8262367	
	WG	SW846 8015B		8263237	8263133
	WG	SW846 7470A		8269491	8269359
	WG	SW846 7470A		8269494	8269362
	WG	SW846 6010B		8263218	8263121
	WG	SW846 6010B		8266305	8266184
	WG	SW846 8021B		8266527	8266300
	WG	SM19 2320 B		8263153	8263093
	WG	SM19 2540 C		8266477	8269295
003	WG	MCAWW 300.0A		8263104	8263056
	WG	MCAWW 300.0A		8263099	8263054
	WG	SW846 8015B		8262367	
	WG	SW846 8015B		8263237	8263133
	WG	SW846 7470A		8269491	8269359
	WG	SW846 7470A		8269494	8269362
	WG	SW846 6010B		8263218	8263121
	WG	SW846 6010B		8266305	8266184
	WG	SW846 8021B		8266527	8266300
	WG	SM19 2320 B		8263153	8263093
	WG	SM19 2540 C		8266477	8269295
004	WG	MCAWW 300.0A		8263104	8263056
	WG	MCAWW 300.0A		8263099	8263054
	WG	SW846 8015B		8262367	
	WG	SW846 8015B		8263237	8263133
	WG	SW846 7470A		8269491	8269359
	WG	SW846 7470A		8269494	8269362
	WG	SW846 6010B		8263218	8263121

(Continued on next page)

QC DATA ASSOCIATION SUMMARY

I8I170297

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
004	WG	SW846 6010B		8266305	8266184
	WG	SW846 8021B		8266527	8266300
	WG	SM19 2320 B		8263153	8263093
	WG	SM19 2540 C		8266477	8269295
005	WG	MCAWW 300.0A		8263104	8263056
	WG	MCAWW 300.0A		8263099	8263054
	WG	SW846 8015B		8262367	
	WG	SW846 8015B		8263237	8263133
	WG	SW846 7470A		8269491	8269359
	WG	SW846 7470A		8269494	8269362
	WG	SW846 6010B		8263218	8263121
	WG	SW846 6010B		8266305	8266184
	WG	SW846 8021B		8266527	8266300
	WG	SM19 2320 B		8263153	8263093
	WG	SM19 2540 C		8266477	8269295
006	WQ	SW846 8015B		8263237	8263133
	WQ	SW846 8021B		8266527	8266300
007	WQ	SW846 8015B		8263237	8263133
	WQ	SW846 8021B		8266527	8266300

Conestoga-Rovers & Associates, Inc.

Client Sample ID: MW-1 091608

GC Volatiles

Lot-Sample #...: I8I170297-001 Work Order #...: KW3FG1A2 Matrix.....: WG
Date Sampled...: 09/16/08 10:20 Date Received..: 09/17/08
Prep Date.....: 09/18/08 Analysis Date..: 09/18/08
Prep Batch #...: 8263237 Analysis Time..: 21:34
Dilution Factor: 1
Method.....: SW846 8015B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Gasoline Range Organics	ND	100	ug/L	29

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene (GRO)	91	(85 - 120)

Conestoga-Rovers & Associates, Inc.

Client Sample ID: MW-1 091608

GC Volatiles

Lot-Sample #...: I8I170297-001 Work Order #...: KW3FG1A0 Matrix.....: WG
Date Sampled...: 09/16/08 10:20 Date Received..: 09/17/08
Prep Date.....: 09/20/08 Analysis Date..: 09/20/08
Prep Batch #...: 8266527 Analysis Time..: 16:21
Dilution Factor: 1
Method.....: SW846 8021B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Benzene	ND	0.0010	mg/L	0.00027
Toluene	ND	0.0010	mg/L	0.00044
Ethylbenzene	ND	0.0010	mg/L	0.00069
Xylenes (total)	ND	0.0030	mg/L	0.0023

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	107	(81 - 119)
a,a,a-Trifluorotoluene (TFT)	96	(72 - 127)

Conestoga-Rovers & Associates, Inc.

Client Sample ID: MW-1 091608

GC Semivolatiles

Lot-Sample #...: I8I170297-001 Work Order #...: KW3FG1A1 Matrix.....: WG
Date Sampled...: 09/16/08 10:20 Date Received..: 09/17/08
Prep Date.....: 09/18/08 Analysis Date..: 09/22/08
Prep Batch #...: 8262367 Analysis Time..: 23:03
Dilution Factor: 0.96
Method.....: SW846 8015B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Diesel Range Organics	0.25	0.048	mg/L	0.0098

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
o-Terphenyl	96	(75 - 127)
Dotriacontane	87	(41 - 142)

Conestoga-Rovers & Associates, Inc.

Client Sample ID: MW-1 091608

TOTAL Metals

Lot-Sample #...: I8I170297-001 Matrix.....: WG
Date Sampled...: 09/16/08 10:20 Date Received..: 09/17/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8263218						
Arsenic	0.014	0.010	mg/L	SW846 6010B	09/19-09/22/08	KW3FG1AC
		Dilution Factor: 1		Analysis Time..: 16:18	MDL.....: 0.0025	
Barium	0.40	0.20	mg/L	SW846 6010B	09/19-09/22/08	KW3FG1AD
		Dilution Factor: 1		Analysis Time..: 16:18	MDL.....: 0.0020	
Cadmium	ND	0.0020	mg/L	SW846 6010B	09/19-09/22/08	KW3FG1AE
		Dilution Factor: 1		Analysis Time..: 16:18	MDL.....: 0.00048	
Chromium	0.0024 B	0.0050	mg/L	SW846 6010B	09/19-09/22/08	KW3FG1AF
		Dilution Factor: 1		Analysis Time..: 16:18	MDL.....: 0.0012	
Lead	ND	0.0030	mg/L	SW846 6010B	09/19-09/22/08	KW3FG1AG
		Dilution Factor: 1		Analysis Time..: 16:18	MDL.....: 0.0018	
Selenium	0.0072	0.0050	mg/L	SW846 6010B	09/19-09/22/08	KW3FG1AH
		Dilution Factor: 1		Analysis Time..: 16:18	MDL.....: 0.0042	
Silver	ND	0.0050	mg/L	SW846 6010B	09/19-09/22/08	KW3FG1AJ
		Dilution Factor: 1		Analysis Time..: 16:18	MDL.....: 0.0013	
Prep Batch #...: 8269494						
Mercury	ND	0.00020	mg/L	SW846 7470A	09/25-09/26/08	KW3FG1AA
		Dilution Factor: 1		Analysis Time..: 13:03	MDL.....: 0.000086	

NOTE(S):

B Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: MW-1 091608

DISSOLVED Metals

Lot-Sample #...: I8I170297-001 Matrix.....: WG
Date Sampled...: 09/16/08 10:20 Date Received..: 09/17/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8266305						
Arsenic	0.0085 B	0.010	mg/L	SW846 6010B	09/22-09/23/08	KW3FG1AK
		Dilution Factor: 1		Analysis Time..: 13:25	MDL.....: 0.0025	
Barium	0.40	0.20	mg/L	SW846 6010B	09/22-09/23/08	KW3FG1AL
		Dilution Factor: 1		Analysis Time..: 13:25	MDL.....: 0.0020	
Cadmium	ND	0.0020	mg/L	SW846 6010B	09/22-09/23/08	KW3FG1AM
		Dilution Factor: 1		Analysis Time..: 13:25	MDL.....: 0.00048	
Chromium	ND	0.0050	mg/L	SW846 6010B	09/22-09/23/08	KW3FG1AN
		Dilution Factor: 1		Analysis Time..: 13:25	MDL.....: 0.0012	
Lead	ND	0.0030	mg/L	SW846 6010B	09/22-09/23/08	KW3FG1AP
		Dilution Factor: 1		Analysis Time..: 13:25	MDL.....: 0.0018	
Selenium	0.0072	0.0050	mg/L	SW846 6010B	09/22-09/23/08	KW3FG1AQ
		Dilution Factor: 1		Analysis Time..: 13:25	MDL.....: 0.0042	
Silver	ND	0.0050	mg/L	SW846 6010B	09/22-09/23/08	KW3FG1AR
		Dilution Factor: 1		Analysis Time..: 13:25	MDL.....: 0.0013	
Prep Batch #...: 8269491						
Mercury	ND	0.00020	mg/L	SW846 7470A	09/25-09/26/08	KW3FG1AT
		Dilution Factor: 1		Analysis Time..: 00:00	MDL.....: 0.000086	

NOTE(S):

B Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: MW-1 091608

General Chemistry

Lot-Sample #...: I8I170297-001 Work Order #...: KW3FG Matrix.....: WG
Date Sampled...: 09/16/08 10:20 Date Received..: 09/17/08

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride	1590	200	mg/L	MCAWW 300.0A	09/18/08	8263104
		Dilution Factor: 200		Analysis Time..: 13:26	MDL.....: 5.2	
Sulfate	154	100	mg/L	MCAWW 300.0A	09/18/08	8263099
		Dilution Factor: 200		Analysis Time..: 13:26	MDL.....: 26.4	
Total Alkalinity	146	5.0	mg/L	SM19 2320 B	09/19/08	8263153
		Dilution Factor: 1		Analysis Time..: 08:00	MDL.....: 0.27	
Total Dissolved Solids	3620	40.0	mg/L	SM19 2540 C	09/22/08	8266477
		Dilution Factor: 1		Analysis Time..: 16:34	MDL.....: 11.4	

Conestoga-Rovers & Associates, Inc.

Client Sample ID: MW-2 091608

GC Volatiles

Lot-Sample #...: I8I170297-002 Work Order #...: KW3FP1AD Matrix.....: WG
Date Sampled...: 09/16/08 11:15 Date Received..: 09/17/08
Prep Date.....: 09/18/08 Analysis Date..: 09/18/08
Prep Batch #...: 8263237 Analysis Time..: 22:02
Dilution Factor: 1
Method.....: SW846 8015B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Gasoline Range Organics	ND	100	ug/L	29

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene (GRO)	87	(85 - 120)

Conestoga-Rovers & Associates, Inc.

Client Sample ID: MW-2 091608

GC Volatiles

Lot-Sample #...: I8I170297-002 Work Order #...: KW3FP1AA Matrix.....: WG
Date Sampled...: 09/16/08 11:15 Date Received..: 09/17/08
Prep Date.....: 09/20/08 Analysis Date..: 09/20/08
Prep Batch #...: 8266527 Analysis Time..: 16:48
Dilution Factor: 1
Method.....: SW846 8021B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Benzene	ND	0.0010	mg/L	0.00027
Toluene	ND	0.0010	mg/L	0.00044
Ethylbenzene	ND	0.0010	mg/L	0.00069
Xylenes (total)	ND	0.0030	mg/L	0.0023

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	108	(81 - 119)
a,a,a-Trifluorotoluene (TFT)	99	(72 - 127)

Conestoga-Rovers & Associates, Inc.

Client Sample ID: MW-2 091608

GC Semivolatiles

Lot-Sample #...: I8I170297-002 Work Order #...: KW3FP1AC Matrix.....: WG
Date Sampled...: 09/16/08 11:15 Date Received..: 09/17/08
Prep Date.....: 09/18/08 Analysis Date..: 09/22/08
Prep Batch #...: 8262367 Analysis Time..: 23:36
Dilution Factor: 0.95
Method.....: SW846 8015B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Diesel Range Organics	0.070	0.048	mg/L	0.0097

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
o-Terphenyl	89	(75 - 127)
Dotriacontane	78	(41 - 142)

Conestoga-Rovers & Associates, Inc.

Client Sample ID: MW-2 091608

TOTAL Metals

Lot-Sample #...: I8I170297-002 Matrix.....: WG
Date Sampled...: 09/16/08 11:15 Date Received..: 09/17/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8263218						
Arsenic	0.012	0.010	mg/L	SW846 6010B	09/19-09/23/08	KW3FP1AF
		Dilution Factor: 1		Analysis Time..: 10:48	MDL.....: 0.0025	
Barium	0.12 B	0.20	mg/L	SW846 6010B	09/19-09/22/08	KW3FP1AG
		Dilution Factor: 1		Analysis Time..: 17:29	MDL.....: 0.0020	
Cadmium	ND	0.0020	mg/L	SW846 6010B	09/19-09/22/08	KW3FP1AH
		Dilution Factor: 1		Analysis Time..: 17:29	MDL.....: 0.00048	
Chromium	0.0056	0.0050	mg/L	SW846 6010B	09/19-09/22/08	KW3FP1AJ
		Dilution Factor: 1		Analysis Time..: 17:29	MDL.....: 0.0012	
Lead	ND	0.0030	mg/L	SW846 6010B	09/19-09/22/08	KW3FP1AK
		Dilution Factor: 1		Analysis Time..: 17:29	MDL.....: 0.0018	
Selenium	0.0060	0.0050	mg/L	SW846 6010B	09/19-09/22/08	KW3FP1AL
		Dilution Factor: 1		Analysis Time..: 17:29	MDL.....: 0.0042	
Silver	ND	0.0050	mg/L	SW846 6010B	09/19-09/22/08	KW3FP1AM
		Dilution Factor: 1		Analysis Time..: 17:29	MDL.....: 0.0013	
Prep Batch #...: 8269494						
Mercury	ND	0.00020	mg/L	SW846 7470A	09/25-09/26/08	KW3FP1AE
		Dilution Factor: 1		Analysis Time..: 13:11	MDL.....: 0.000086	

NOTE(S):

B Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: MW-2 091608

DISSOLVED Metals

Lot-Sample #...: I8I170297-002 Matrix.....: WG
Date Sampled...: 09/16/08 11:15 Date Received..: 09/17/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8266305						
Arsenic	0.011	0.010	mg/L	SW846 6010B	09/22-09/23/08	KW3FP1AN
		Dilution Factor: 1		Analysis Time..: 13:40	MDL.....: 0.0025	
Barium	0.094 B	0.20	mg/L	SW846 6010B	09/22-09/23/08	KW3FP1AP
		Dilution Factor: 1		Analysis Time..: 13:40	MDL.....: 0.0020	
Cadmium	ND	0.0020	mg/L	SW846 6010B	09/22-09/23/08	KW3FP1AQ
		Dilution Factor: 1		Analysis Time..: 13:40	MDL.....: 0.00048	
Chromium	ND	0.0050	mg/L	SW846 6010B	09/22-09/23/08	KW3FP1AR
		Dilution Factor: 1		Analysis Time..: 13:40	MDL.....: 0.0012	
Lead	ND	0.0030	mg/L	SW846 6010B	09/22-09/23/08	KW3FP1AT
		Dilution Factor: 1		Analysis Time..: 13:40	MDL.....: 0.0018	
Selenium	0.0051	0.0050	mg/L	SW846 6010B	09/22-09/23/08	KW3FP1AU
		Dilution Factor: 1		Analysis Time..: 13:40	MDL.....: 0.0042	
Silver	ND	0.0050	mg/L	SW846 6010B	09/22-09/23/08	KW3FP1AV
		Dilution Factor: 1		Analysis Time..: 13:40	MDL.....: 0.0013	
Prep Batch #...: 8269491						
Mercury	ND	0.00020	mg/L	SW846 7470A	09/25-09/26/08	KW3FP1AW
		Dilution Factor: 1		Analysis Time..: 00:00	MDL.....: 0.000086	

NOTE(S):

B Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: MW-2 091608

General Chemistry

Lot-Sample #...: I8I170297-002 Work Order #...: KW3FP Matrix.....: WG
Date Sampled...: 09/16/08 11:15 Date Received..: 09/17/08

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride	182	100	mg/L	MCAWW 300.0A	09/18/08	8263104
		Dilution Factor: 100		Analysis Time..: 13:44	MDL.....: 2.6	
Sulfate	91.9	50.0	mg/L	MCAWW 300.0A	09/18/08	8263099
		Dilution Factor: 100		Analysis Time..: 13:44	MDL.....: 13.2	
Total Alkalinity	181	5.0	mg/L	SM19 2320 B	09/19/08	8263153
		Dilution Factor: 1		Analysis Time..: 08:00	MDL.....: 0.27	
Total Dissolved Solids	729	40.0	mg/L	SM19 2540 C	09/22/08	8266477
		Dilution Factor: 1		Analysis Time..: 16:36	MDL.....: 11.4	

Conestoga-Rovers & Associates, Inc.

Client Sample ID: MW-3 091608

GC Volatiles

Lot-Sample #...: I8I170297-003 Work Order #...: KW3FQ1AD Matrix.....: WG
Date Sampled...: 09/16/08 11:45 Date Received..: 09/17/08
Prep Date.....: 09/18/08 Analysis Date..: 09/18/08
Prep Batch #...: 8263237 Analysis Time..: 22:29
Dilution Factor: 1
Method.....: SW846 8015B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Gasoline Range Organics	ND	100	ug/L	29

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene (GRO)	86	(85 - 120)

Conestoga-Rovers & Associates, Inc.

Client Sample ID: MW-3 091608

GC Volatiles

Lot-Sample #...: I8I170297-003 Work Order #...: KW3FQ1AA Matrix.....: WG
Date Sampled...: 09/16/08 11:45 Date Received..: 09/17/08
Prep Date.....: 09/20/08 Analysis Date..: 09/20/08
Prep Batch #...: 8266527 Analysis Time..: 17:16
Dilution Factor: 1
Method.....: SW846 8021B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Benzene	ND	0.0010	mg/L	0.00027
Toluene	ND	0.0010	mg/L	0.00044
Ethylbenzene	ND	0.0010	mg/L	0.00069
Xylenes (total)	ND	0.0030	mg/L	0.0023

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	107	(81 - 119)
a,a,a-Trifluorotoluene (TFT)	96	(72 - 127)

Conestoga-Rovers & Associates, Inc.

Client Sample ID: MW-3 091608

GC Semivolatiles

Lot-Sample #...: I8I170297-003 Work Order #...: KW3FQ1AC Matrix.....: WG
Date Sampled...: 09/16/08 11:45 Date Received..: 09/17/08
Prep Date.....: 09/18/08 Analysis Date..: 09/23/08
Prep Batch #...: 8262367 Analysis Time..: 00:09
Dilution Factor: 0.96
Method.....: SW846 8015B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Diesel Range Organics	0.073	0.048	mg/L	0.0098

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
o-Terphenyl	93	(75 - 127)
Dotriacontane	82	(41 - 142)

Conestoga-Rovers & Associates, Inc.

Client Sample ID: MW-3 091608

TOTAL Metals

Lot-Sample #...: I8I170297-003 Matrix.....: WG
Date Sampled...: 09/16/08 11:45 Date Received..: 09/17/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8263218						
Arsenic	0.026	0.010	mg/L	SW846 6010B	09/19-09/23/08	KW3FQ1AF
		Dilution Factor: 1		Analysis Time..: 10:54	MDL.....: 0.0025	
Barium	0.096 B	0.20	mg/L	SW846 6010B	09/19-09/22/08	KW3FQ1AG
		Dilution Factor: 1		Analysis Time..: 17:36	MDL.....: 0.0020	
Cadmium	ND	0.0020	mg/L	SW846 6010B	09/19-09/22/08	KW3FQ1AH
		Dilution Factor: 1		Analysis Time..: 17:36	MDL.....: 0.00048	
Chromium	ND	0.0050	mg/L	SW846 6010B	09/19-09/22/08	KW3FQ1AJ
		Dilution Factor: 1		Analysis Time..: 17:36	MDL.....: 0.0012	
Lead	ND	0.0030	mg/L	SW846 6010B	09/19-09/22/08	KW3FQ1AK
		Dilution Factor: 1		Analysis Time..: 17:36	MDL.....: 0.0018	
Selenium	ND	0.0050	mg/L	SW846 6010B	09/19-09/22/08	KW3FQ1AL
		Dilution Factor: 1		Analysis Time..: 17:36	MDL.....: 0.0042	
Silver	ND	0.0050	mg/L	SW846 6010B	09/19-09/22/08	KW3FQ1AM
		Dilution Factor: 1		Analysis Time..: 17:36	MDL.....: 0.0013	
Prep Batch #...: 8269494						
Mercury	ND	0.00020	mg/L	SW846 7470A	09/25-09/26/08	KW3FQ1AE
		Dilution Factor: 1		Analysis Time..: 13:12	MDL.....: 0.000086	

NOTE(S):

B Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: MW-3 091608

DISSOLVED Metals

Lot-Sample #...: I8I170297-003 Matrix.....: WG
Date Sampled...: 09/16/08 11:45 Date Received..: 09/17/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8266305						
Arsenic	0.022	0.010	mg/L	SW846 6010B	09/22-09/23/08	KW3FQ1AN
		Dilution Factor: 1		Analysis Time..: 13:44	MDL.....: 0.0025	
Barium	0.086 B	0.20	mg/L	SW846 6010B	09/22-09/23/08	KW3FQ1AP
		Dilution Factor: 1		Analysis Time..: 13:44	MDL.....: 0.0020	
Cadmium	ND	0.0020	mg/L	SW846 6010B	09/22-09/23/08	KW3FQ1AQ
		Dilution Factor: 1		Analysis Time..: 13:44	MDL.....: 0.00048	
Chromium	ND	0.0050	mg/L	SW846 6010B	09/22-09/23/08	KW3FQ1AR
		Dilution Factor: 1		Analysis Time..: 13:44	MDL.....: 0.0012	
Lead	ND	0.0030	mg/L	SW846 6010B	09/22-09/23/08	KW3FQ1AT
		Dilution Factor: 1		Analysis Time..: 13:44	MDL.....: 0.0018	
Selenium	ND	0.0050	mg/L	SW846 6010B	09/22-09/23/08	KW3FQ1AU
		Dilution Factor: 1		Analysis Time..: 13:44	MDL.....: 0.0042	
Silver	ND	0.0050	mg/L	SW846 6010B	09/22-09/23/08	KW3FQ1AV
		Dilution Factor: 1		Analysis Time..: 13:44	MDL.....: 0.0013	
Prep Batch #...: 8269491						
Mercury	ND	0.00020	mg/L	SW846 7470A	09/25-09/26/08	KW3FQ1AW
		Dilution Factor: 1		Analysis Time..: 00:00	MDL.....: 0.000086	

NOTE(S):

B Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: MW-3 091608

General Chemistry

Lot-Sample #...: I8I170297-003 Work Order #...: KW3FQ Matrix.....: WG
Date Sampled...: 09/16/08 11:45 Date Received..: 09/17/08

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride	63.7	20.0	mg/L	MCAWW 300.0A	09/18/08	8263104
		Dilution Factor: 20		Analysis Time..: 14:01	MDL.....: 0.52	
Sulfate	31.8	20.0	mg/L	MCAWW 300.0A	09/18/08	8263099
		Dilution Factor: 20		Analysis Time..: 14:01	MDL.....: 2.6	
Total Alkalinity	222	5.0	mg/L	SM19 2320 B	09/19/08	8263153
		Dilution Factor: 1		Analysis Time..: 08:00	MDL.....: 0.27	
Total Dissolved Solids	457	40.0	mg/L	SM19 2540 C	09/22/08	8266477
		Dilution Factor: 1		Analysis Time..: 16:38	MDL.....: 11.4	

Conestoga-Rovers & Associates, Inc.

Client Sample ID: MW-4 091608

GC Volatiles

Lot-Sample #...: I8I170297-004 Work Order #...: KW3FT1AD Matrix.....: WG
Date Sampled...: 09/16/08 00:45 Date Received..: 09/17/08
Prep Date.....: 09/18/08 Analysis Date..: 09/18/08
Prep Batch #...: 8263237 Analysis Time..: 22:57
Dilution Factor: 1
Method.....: SW846 8015B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Gasoline Range Organics	ND	100	ug/L	29

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene (GRO)	90	(85 - 120)

Conestoga-Rovers & Associates, Inc.

Client Sample ID: MW-4 091608

GC Volatiles

Lot-Sample #...: I8I170297-004 Work Order #...: KW3FT1AA Matrix.....: WG
Date Sampled...: 09/16/08 00:45 Date Received..: 09/17/08
Prep Date.....: 09/20/08 Analysis Date..: 09/20/08
Prep Batch #...: 8266527 Analysis Time..: 17:44
Dilution Factor: 1
Method.....: SW846 8021B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Benzene	ND	0.0010	mg/L	0.00027
Toluene	ND	0.0010	mg/L	0.00044
Ethylbenzene	ND	0.0010	mg/L	0.00069
Xylenes (total)	ND	0.0030	mg/L	0.0023

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	104	(81 - 119)
a,a,a-Trifluorotoluene (TFT)	98	(72 - 127)

Conestoga-Rovers & Associates, Inc.

Client Sample ID: MW-4 091608

GC Semivolatiles

Lot-Sample #...: I8I170297-004 Work Order #...: KW3FT1AC Matrix.....: WG
Date Sampled...: 09/16/08 00:45 Date Received..: 09/17/08
Prep Date.....: 09/18/08 Analysis Date..: 09/23/08
Prep Batch #...: 8262367 Analysis Time..: 00:42
Dilution Factor: 0.96
Method.....: SW846 8015B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Diesel Range Organics	0.052	0.048	mg/L	0.0098

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
o-Terphenyl	98	(75 - 127)
Dotriacontane	84	(41 - 142)

Conestoga-Rovers & Associates, Inc.

Client Sample ID: MW-4 091608

TOTAL Metals

Lot-Sample #...: I8I170297-004 Matrix.....: WG
Date Sampled...: 09/16/08 00:45 Date Received..: 09/17/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8263218						
Arsenic	0.018	0.010	mg/L	SW846 6010B	09/19-09/23/08	KW3FT1AF
		Dilution Factor: 1		Analysis Time..: 11:01	MDL.....: 0.0025	
Barium	0.092 B	0.20	mg/L	SW846 6010B	09/19-09/22/08	KW3FT1AG
		Dilution Factor: 1		Analysis Time..: 17:42	MDL.....: 0.0020	
Cadmium	ND	0.0020	mg/L	SW846 6010B	09/19-09/22/08	KW3FT1AH
		Dilution Factor: 1		Analysis Time..: 17:42	MDL.....: 0.00048	
Chromium	ND	0.0050	mg/L	SW846 6010B	09/19-09/22/08	KW3FT1AJ
		Dilution Factor: 1		Analysis Time..: 17:42	MDL.....: 0.0012	
Lead	ND	0.0030	mg/L	SW846 6010B	09/19-09/22/08	KW3FT1AK
		Dilution Factor: 1		Analysis Time..: 17:42	MDL.....: 0.0018	
Selenium	ND	0.0050	mg/L	SW846 6010B	09/19-09/22/08	KW3FT1AL
		Dilution Factor: 1		Analysis Time..: 17:42	MDL.....: 0.0042	
Silver	ND	0.0050	mg/L	SW846 6010B	09/19-09/22/08	KW3FT1AM
		Dilution Factor: 1		Analysis Time..: 17:42	MDL.....: 0.0013	
Prep Batch #...: 8269494						
Mercury	ND	0.00020	mg/L	SW846 7470A	09/25-09/26/08	KW3FT1AE
		Dilution Factor: 1		Analysis Time..: 13:14	MDL.....: 0.000086	

NOTE(S):

B Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: MW-4 091608

DISSOLVED Metals

Lot-Sample #...: I8I170297-004 Matrix.....: WG
Date Sampled...: 09/16/08 00:45 Date Received..: 09/17/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8266305						
Arsenic	0.016	0.010	mg/L	SW846 6010B	09/22-09/23/08	KW3FT1AN
		Dilution Factor: 1		Analysis Time..: 13:49	MDL.....: 0.0025	
Barium	0.090 B	0.20	mg/L	SW846 6010B	09/22-09/23/08	KW3FT1AP
		Dilution Factor: 1		Analysis Time..: 13:49	MDL.....: 0.0020	
Cadmium	ND	0.0020	mg/L	SW846 6010B	09/22-09/23/08	KW3FT1AQ
		Dilution Factor: 1		Analysis Time..: 13:49	MDL.....: 0.00048	
Chromium	ND	0.0050	mg/L	SW846 6010B	09/22-09/23/08	KW3FT1AR
		Dilution Factor: 1		Analysis Time..: 13:49	MDL.....: 0.0012	
Lead	ND	0.0030	mg/L	SW846 6010B	09/22-09/23/08	KW3FT1AT
		Dilution Factor: 1		Analysis Time..: 13:49	MDL.....: 0.0018	
Selenium	ND	0.0050	mg/L	SW846 6010B	09/22-09/23/08	KW3FT1AU
		Dilution Factor: 1		Analysis Time..: 13:49	MDL.....: 0.0042	
Silver	ND	0.0050	mg/L	SW846 6010B	09/22-09/23/08	KW3FT1AV
		Dilution Factor: 1		Analysis Time..: 13:49	MDL.....: 0.0013	
Prep Batch #...: 8269491						
Mercury	ND	0.00020	mg/L	SW846 7470A	09/25-09/26/08	KW3FT1AW
		Dilution Factor: 1		Analysis Time..: 00:00	MDL.....: 0.000086	

NOTE(S):

B Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: MW-4 091608

General Chemistry

Lot-Sample #...: I8I170297-004 Work Order #...: KW3FT Matrix.....: WG
Date Sampled...: 09/16/08 00:45 Date Received..: 09/17/08

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride	4420	500	mg/L	MCAWW 300.0A	09/18/08	8263104
		Dilution Factor: 500		Analysis Time..: 20:19	MDL.....: 13.0	
Sulfate	136	100	mg/L	MCAWW 300.0A	09/18/08	8263099
		Dilution Factor: 200		Analysis Time..: 14:19	MDL.....: 26.4	
Total Alkalinity	196	5.0	mg/L	SM19 2320 B	09/19/08	8263153
		Dilution Factor: 1		Analysis Time..: 08:00	MDL.....: 0.27	
Total Dissolved Solids	8140	40.0	mg/L	SM19 2540 C	09/22/08	8266477
		Dilution Factor: 1		Analysis Time..: 16:40	MDL.....: 11.4	

Conestoga-Rovers & Associates, Inc.

Client Sample ID: DUP

GC Volatiles

Lot-Sample #...: I8I170297-005 Work Order #...: KW3FX1AD Matrix.....: WG
Date Sampled...: 09/16/08 Date Received..: 09/17/08
Prep Date.....: 09/18/08 Analysis Date..: 09/18/08
Prep Batch #...: 8263237 Analysis Time..: 23:24
Dilution Factor: 1
Method.....: SW846 8015B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Gasoline Range Organics	ND	100	ug/L	29

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene (GRO)	85	(85 - 120)

Conestoga-Rovers & Associates, Inc.

Client Sample ID: DUP

GC Volatiles

Lot-Sample #...: I8I170297-005 Work Order #...: KW3FX1AA Matrix.....: WG
Date Sampled...: 09/16/08 Date Received..: 09/17/08
Prep Date.....: 09/20/08 Analysis Date..: 09/20/08
Prep Batch #...: 8266527 Analysis Time..: 18:12
Dilution Factor: 1

Method.....: SW846 8021B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Benzene	ND	0.0010	mg/L	0.00027
Toluene	ND	0.0010	mg/L	0.00044
Ethylbenzene	ND	0.0010	mg/L	0.00069
Xylenes (total)	ND	0.0030	mg/L	0.0023

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	105	(81 - 119)
a,a,a-Trifluorotoluene (TFT)	96	(72 - 127)

Conestoga-Rovers & Associates, Inc.

Client Sample ID: DUP

GC Semivolatiles

Lot-Sample #...:	I8I170297-005	Work Order #...:	KW3FX1AC	Matrix.....:	WG
Date Sampled...:	09/16/08	Date Received..:	09/17/08		
Prep Date.....:	09/18/08	Analysis Date..:	09/23/08		
Prep Batch #...:	8262367	Analysis Time..:	01:15		
Dilution Factor:	0.96				
		Method.....:	SW846 8015B		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Diesel Range Organics	0.052	0.048	mg/L	0.0098

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
o-Terphenyl	99	(75 - 127)
Dotriacontane	85	(41 - 142)

Conestoga-Rovers & Associates, Inc.

Client Sample ID: DUP

TOTAL Metals

Lot-Sample #...: I8I170297-005 Matrix.....: WG
Date Sampled...: 09/16/08 Date Received..: 09/17/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8263218						
Arsenic	0.019	0.010	mg/L	SW846 6010B	09/19-09/23/08	KW3FX1AF
		Dilution Factor: 1		Analysis Time..: 11:07	MDL.....: 0.0025	
Barium	0.088 B	0.20	mg/L	SW846 6010B	09/19-09/22/08	KW3FX1AG
		Dilution Factor: 1		Analysis Time..: 17:49	MDL.....: 0.0020	
Cadmium	ND	0.0020	mg/L	SW846 6010B	09/19-09/22/08	KW3FX1AH
		Dilution Factor: 1		Analysis Time..: 17:49	MDL.....: 0.00048	
Chromium	ND	0.0050	mg/L	SW846 6010B	09/19-09/22/08	KW3FX1AJ
		Dilution Factor: 1		Analysis Time..: 17:49	MDL.....: 0.0012	
Lead	ND	0.0030	mg/L	SW846 6010B	09/19-09/22/08	KW3FX1AK
		Dilution Factor: 1		Analysis Time..: 17:49	MDL.....: 0.0018	
Selenium	ND	0.0050	mg/L	SW846 6010B	09/19-09/22/08	KW3FX1AL
		Dilution Factor: 1		Analysis Time..: 17:49	MDL.....: 0.0042	
Silver	ND	0.0050	mg/L	SW846 6010B	09/19-09/22/08	KW3FX1AM
		Dilution Factor: 1		Analysis Time..: 17:49	MDL.....: 0.0013	
Prep Batch #...: 8269494						
Mercury	ND	0.00020	mg/L	SW846 7470A	09/25-09/26/08	KW3FX1AE
		Dilution Factor: 1		Analysis Time..: 13:15	MDL.....: 0.000086	

NOTE(S):

B Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: DUP

DISSOLVED Metals

Lot-Sample #...: I8I170297-005 Matrix.....: WG
Date Sampled...: 09/16/08 Date Received..: 09/17/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8266305						
Arsenic	0.017	0.010	mg/L	SW846 6010B	09/22-09/23/08	KW3FX1AN
		Dilution Factor: 1		Analysis Time..: 13:54	MDL.....: 0.0025	
Barium	0.089 B	0.20	mg/L	SW846 6010B	09/22-09/23/08	KW3FX1AP
		Dilution Factor: 1		Analysis Time..: 13:54	MDL.....: 0.0020	
Cadmium	ND	0.0020	mg/L	SW846 6010B	09/22-09/23/08	KW3FX1AQ
		Dilution Factor: 1		Analysis Time..: 13:54	MDL.....: 0.00048	
Chromium	ND	0.0050	mg/L	SW846 6010B	09/22-09/23/08	KW3FX1AR
		Dilution Factor: 1		Analysis Time..: 13:54	MDL.....: 0.0012	
Lead	ND	0.0030	mg/L	SW846 6010B	09/22-09/23/08	KW3FX1AT
		Dilution Factor: 1		Analysis Time..: 13:54	MDL.....: 0.0018	
Selenium	ND	0.0050	mg/L	SW846 6010B	09/22-09/23/08	KW3FX1AU
		Dilution Factor: 1		Analysis Time..: 13:54	MDL.....: 0.0042	
Silver	ND	0.0050	mg/L	SW846 6010B	09/22-09/23/08	KW3FX1AV
		Dilution Factor: 1		Analysis Time..: 13:54	MDL.....: 0.0013	
Prep Batch #...: 8269491						
Mercury	ND	0.00020	mg/L	SW846 7470A	09/25-09/26/08	KW3FX1AW
		Dilution Factor: 1		Analysis Time..: 00:00	MDL.....: 0.000086	

NOTE(S):

B Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: DUP

General Chemistry

Lot-Sample #...: I8I170297-005 Work Order #...: KW3FX Matrix.....: WG
Date Sampled...: 09/16/08 Date Received..: 09/17/08

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride	4210	500	mg/L	MCAWW 300.0A	09/18/08	8263104
		Dilution Factor: 500		Analysis Time..: 20:37	MDL.....: 13.0	
Sulfate	135	100	mg/L	MCAWW 300.0A	09/18/08	8263099
		Dilution Factor: 200		Analysis Time..: 14:37	MDL.....: 26.4	
Total Alkalinity	202	5.0	mg/L	SM19 2320 B	09/19/08	8263153
		Dilution Factor: 1		Analysis Time..: 08:00	MDL.....: 0.27	
Total Dissolved Solids	7940	40.0	mg/L	SM19 2540 C	09/22/08	8266477
		Dilution Factor: 1		Analysis Time..: 16:42	MDL.....: 11.4	

Conestoga-Rovers & Associates, Inc.

Client Sample ID: TRIP BLANK

GC Volatiles

Lot-Sample #...: I8I170297-006 Work Order #...: KW3F01AC Matrix.....: WQ
Date Sampled...: 09/16/08 Date Received..: 09/17/08
Prep Date.....: 09/18/08 Analysis Date..: 09/18/08
Prep Batch #...: 8263237 Analysis Time..: 23:52
Dilution Factor: 1
Method.....: SW846 8015B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Gasoline Range Organics	ND	100	ug/L	29

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene (GRO)	91	(85 - 120)

Conestoga-Rovers & Associates, Inc.

Client Sample ID: TRIP BLANK

GC Volatiles

Lot-Sample #...: I8I170297-006 Work Order #...: KW3F01AA Matrix.....: WQ
Date Sampled...: 09/16/08 Date Received..: 09/17/08
Prep Date.....: 09/20/08 Analysis Date..: 09/20/08
Prep Batch #...: 8266527 Analysis Time..: 18:39
Dilution Factor: 1

Method.....: SW846 8021B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Benzene	ND	0.0010	mg/L	0.00027
Toluene	ND	0.0010	mg/L	0.00044
Ethylbenzene	ND	0.0010	mg/L	0.00069
Xylenes (total)	ND	0.0030	mg/L	0.0023

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	105	(81 - 119)
a,a,a-Trifluorotoluene (TFT)	99	(72 - 127)

Conestoga-Rovers & Associates, Inc.

Client Sample ID: TRIP BLANK

GC Volatiles

Lot-Sample #...: I8I170297-007 Work Order #...: KW4LV1AC Matrix.....: WQ
Date Sampled...: 09/16/08 Date Received..: 09/17/08
Prep Date.....: 09/18/08 Analysis Date..: 09/19/08
Prep Batch #...: 8263237 Analysis Time..: 00:19
Dilution Factor: 1
Method.....: SW846 8015B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Gasoline Range Organics	ND	100	ug/L	29

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene (GRO)	88	(85 - 120)

Conestoga-Rovers & Associates, Inc.

Client Sample ID: TRIP BLANK

GC Volatiles

Lot-Sample #...: I8I170297-007 Work Order #...: KW4LV1AA Matrix.....: WQ
Date Sampled...: 09/16/08 Date Received..: 09/17/08
Prep Date.....: 09/20/08 Analysis Date..: 09/20/08
Prep Batch #...: 8266527 Analysis Time..: 19:07
Dilution Factor: 1
Method.....: SW846 8021B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Benzene	ND	0.0010	mg/L	0.00027
Toluene	ND	0.0010	mg/L	0.00044
Ethylbenzene	ND	0.0010	mg/L	0.00069
Xylenes (total)	ND	0.0030	mg/L	0.0023

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	107	(81 - 119)
a,a,a-Trifluorotoluene (TFT)	99	(72 - 127)

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: I8I170297 Work Order #...: KW7PG1AA Matrix.....: WATER
MB Lot-Sample #: I8I190000-237

Prep Date.....: 09/18/08 Analysis Time..: 11:44
Analysis Date..: 09/18/08 Prep Batch #...: 8263237
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Gasoline Range Organics	ND	100	ug/L	SW846 8015B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene (GRO	90	(85 - 120)

NOTE(S):

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

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: I8I170297 Work Order #...: KXD1C1AA Matrix.....: WATER
MB Lot-Sample #: I8I220000-527

Prep Date.....: 09/20/08 Analysis Time..: 15:25
Analysis Date..: 09/20/08 Prep Batch #...: 8266527
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Benzene	ND	0.0010	mg/L	SW846 8021B
Toluene	ND	0.0010	mg/L	SW846 8021B
Ethylbenzene	ND	0.0010	mg/L	SW846 8021B
Xylenes (total)	ND	0.0030	mg/L	SW846 8021B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	104	(81 - 119)
a,a,a-Trifluorotoluene (TFT)	95	(72 - 127)

NOTE(S):

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

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: I8I170297 Work Order #...: KW5KF1AA Matrix.....: WATER
MB Lot-Sample #: I8I180000-367

Prep Date.....: 09/18/08 Analysis Time..: 18:05
Analysis Date..: 09/22/08 Prep Batch #...: 8262367
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Diesel Range Organics	ND	0.050	mg/L	SW846 8015B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
o-Terphenyl	87	(75 - 127)
Dotriacontane	73	(41 - 142)

NOTE(S):

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

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: I8I170297 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: I8I190000-218 **Prep Batch #...:** 8263218						
Arsenic	ND	0.010	mg/L	SW846 6010B	09/19-09/22/08	KW7LK1AA
		Dilution Factor: 1				
		Analysis Time..: 15:52				
Barium	ND	0.20	mg/L	SW846 6010B	09/19-09/22/08	KW7LK1AC
		Dilution Factor: 1				
		Analysis Time..: 15:52				
Cadmium	ND	0.0020	mg/L	SW846 6010B	09/19-09/22/08	KW7LK1AD
		Dilution Factor: 1				
		Analysis Time..: 15:52				
Chromium	ND	0.0050	mg/L	SW846 6010B	09/19-09/22/08	KW7LK1AE
		Dilution Factor: 1				
		Analysis Time..: 15:52				
Lead	ND	0.0030	mg/L	SW846 6010B	09/19-09/22/08	KW7LK1AF
		Dilution Factor: 1				
		Analysis Time..: 15:52				
Selenium	ND	0.0050	mg/L	SW846 6010B	09/19-09/22/08	KW7LK1AG
		Dilution Factor: 1				
		Analysis Time..: 15:52				
Silver	ND	0.0050	mg/L	SW846 6010B	09/19-09/22/08	KW7LK1AH
		Dilution Factor: 1				
		Analysis Time..: 15:52				
MB Lot-Sample #: I8I250000-494 **Prep Batch #...:** 8269494						
Mercury	ND	0.00020	mg/L	SW846 7470A	09/25-09/26/08	KXMFP1AA
		Dilution Factor: 1				
		Analysis Time..: 13:00				

NOTE(S):

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

METHOD BLANK REPORT

DISSOLVED Metals

Client Lot #...: I8I170297 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: I8I220000-305 **Prep Batch #...:** 8266305						
Arsenic	ND	0.010	mg/L	SW846 6010B	09/22-09/23/08	KXDGM1AA
		Dilution Factor: 1				
		Analysis Time..: 11:47				
Barium	ND	0.20	mg/L	SW846 6010B	09/22-09/23/08	KXDGM1AC
		Dilution Factor: 1				
		Analysis Time..: 11:47				
Cadmium	ND	0.0020	mg/L	SW846 6010B	09/22-09/23/08	KXDGM1AD
		Dilution Factor: 1				
		Analysis Time..: 11:47				
Chromium	ND	0.0050	mg/L	SW846 6010B	09/22-09/23/08	KXDGM1AE
		Dilution Factor: 1				
		Analysis Time..: 11:47				
Lead	ND	0.0030	mg/L	SW846 6010B	09/22-09/23/08	KXDGM1AF
		Dilution Factor: 1				
		Analysis Time..: 11:47				
Selenium	ND	0.0050	mg/L	SW846 6010B	09/22-09/23/08	KXDGM1AG
		Dilution Factor: 1				
		Analysis Time..: 11:47				
Silver	ND	0.0050	mg/L	SW846 6010B	09/22-09/23/08	KXDGM1AH
		Dilution Factor: 1				
		Analysis Time..: 11:47				
MB Lot-Sample #: I8I250000-491 **Prep Batch #...:** 8269491						
Mercury	ND	0.00020	mg/L	SW846 7470A	09/25-09/26/08	KXMFF1AA
		Dilution Factor: 1				
		Analysis Time..: 00:00				

NOTE(S):

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

METHOD BLANK REPORT

General Chemistry

Client Lot #...: I8I170297 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride		Work Order #: KW6481AA		MB Lot-Sample #:	I8I190000-104	
	ND	1.0	mg/L	MCAWW 300.0A	09/18/08	8263104
		Dilution Factor: 1				
		Analysis Time..: 08:21				
Sulfate		Work Order #: KW6451AA		MB Lot-Sample #:	I8I190000-099	
	ND	0.50	mg/L	MCAWW 300.0A	09/18/08	8263099
		Dilution Factor: 1				
		Analysis Time..: 08:21				
Total Alkalinity		Work Order #: KW7A11AA		MB Lot-Sample #:	I8I190000-153	
	ND	5.0	mg/L	SM19 2320 B	09/19/08	8263153
		Dilution Factor: 1				
		Analysis Time..: 08:00				
Total Dissolved Solids		Work Order #: KXDWT1AA		MB Lot-Sample #:	I8I220000-477	
	ND	40.0	mg/L	SM19 2540 C	09/22/08	8266477
		Dilution Factor: 1				
		Analysis Time..: 16:00				

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #...: I8I170297 Work Order #...: KW7PG1AC-LCS Matrix.....: WATER
LCS Lot-Sample#: I8I190000-237 KW7PG1AD-LCSD
Prep Date.....: 09/18/08 Analysis Date..: 09/18/08
Prep Batch #...: 8263237 Analysis Time..: 12:17
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Gasoline Range Organics	**99**	**(81 - 117)**			**SW846 8015B**
	88	**(81 - 117)**	**12**	**(0-20)**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene (GRO)	96	(85 - 122)
	96	(85 - 122)

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC Volatiles

Client Lot #...: I8I170297 Work Order #...: KW7PG1AC-LCS Matrix.....: WATER
LCS Lot-Sample#: I8I190000-237 KW7PG1AD-LCSD
Prep Date.....: 09/18/08 Analysis Date..: 09/18/08
Prep Batch #...: 8263237 Analysis Time..: 12:17
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Gasoline Range Organics	2000	1970	ug/L	99		SW846 8015B
	2000	1750	ug/L	88	12	SW846 8015B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene (GRO)	96	(85 - 122)
	96	(85 - 122)

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #...: I8I170297 Work Order #...: KXD1C1AC-LCS Matrix.....: WATER
LCS Lot-Sample#: I8I220000-527 KXD1C1AD-LCSD
Prep Date.....: 09/20/08 Analysis Date..: 09/20/08
Prep Batch #...: 8266527 Analysis Time..: 14:06
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzene	96	(80 - 115)			SW846 8021B
	97	(80 - 115)	1.1	(0-20)	SW846 8021B
Toluene	98	(85 - 115)			SW846 8021B
	99	(85 - 115)	0.36	(0-20)	SW846 8021B
Ethylbenzene	99	(81 - 115)			SW846 8021B
	97	(81 - 115)	1.5	(0-20)	SW846 8021B
Xylenes (total)	103	(86 - 119)			SW846 8021B
	102	(86 - 119)	1.6	(0-20)	SW846 8021B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	110	(85 - 111)
	109	(85 - 111)
a,a,a-Trifluorotoluene (TFT)	98	(86 - 107)
	98	(86 - 107)

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC Volatiles

Client Lot #...: I8I170297 Work Order #...: KXD1C1AC-LCS Matrix.....: WATER
LCS Lot-Sample#: I8I220000-527 KXD1C1AD-LCSD
Prep Date.....: 09/20/08 Analysis Date..: 09/20/08
Prep Batch #...: 8266527 Analysis Time..: 14:06
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Benzene	0.0200	0.0192	mg/L	96		SW846 8021B
	0.0200	0.0194	mg/L	97	1.1	SW846 8021B
Toluene	0.0200	0.0197	mg/L	98		SW846 8021B
	0.0200	0.0198	mg/L	99	0.36	SW846 8021B
Ethylbenzene	0.0200	0.0198	mg/L	99		SW846 8021B
	0.0200	0.0195	mg/L	97	1.5	SW846 8021B
Xylenes (total)	0.0600	0.0621	mg/L	103		SW846 8021B
	0.0600	0.0611	mg/L	102	1.6	SW846 8021B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	110	(85 - 111)
	109	(85 - 111)
a,a,a-Trifluorotoluene (TFT)	98	(86 - 107)
	98	(86 - 107)

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: I8I170297 Work Order #...: KW5KF1AC-LCS Matrix.....: WATER
LCS Lot-Sample#: I8I180000-367 KW5KF1AD-LCSD
Prep Date.....: 09/18/08 Analysis Date..: 09/22/08
Prep Batch #...: 8262367 Analysis Time..: 18:38
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Diesel Range Organics	87	(56 - 120)			SW846 8015B
	81	(56 - 120)	6.9	(0-20)	SW846 8015B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
o-Terphenyl	113	(75 - 127)
	117	(75 - 127)
Dotriacontane	86	(41 - 142)
	76	(41 - 142)

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: I8I170297 Work Order #...: KW5KF1AC-LCS Matrix.....: WATER
LCS Lot-Sample#: I8I180000-367 KW5KF1AD-LCSD
Prep Date.....: 09/18/08 Analysis Date..: 09/22/08
Prep Batch #...: 8262367 Analysis Time..: 18:38
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Diesel Range Organics	1.00	0.866	mg/L	87		SW846 8015B
	1.00	0.808	mg/L	81	6.9	SW846 8015B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
o-Terphenyl	113	(75 - 127)
	117	(75 - 127)
Dotriacontane	86	(41 - 142)
	76	(41 - 142)

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: I8I170297 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: I8I190000-218 **Prep Batch #...:** 8263218					
Arsenic	101	(80 - 120)	SW846 6010B	09/19-09/22/08	KW7LK1AJ
		Dilution Factor: 1		Analysis Time..: 15:59	
Barium	99	(80 - 120)	SW846 6010B	09/19-09/22/08	KW7LK1AK
		Dilution Factor: 1		Analysis Time..: 15:59	
Cadmium	101	(80 - 120)	SW846 6010B	09/19-09/22/08	KW7LK1AL
		Dilution Factor: 1		Analysis Time..: 15:59	
Chromium	96	(80 - 120)	SW846 6010B	09/19-09/22/08	KW7LK1AM
		Dilution Factor: 1		Analysis Time..: 15:59	
Lead	100	(80 - 120)	SW846 6010B	09/19-09/22/08	KW7LK1AN
		Dilution Factor: 1		Analysis Time..: 15:59	
Selenium	105	(80 - 120)	SW846 6010B	09/19-09/22/08	KW7LK1AP
		Dilution Factor: 1		Analysis Time..: 15:59	
Silver	100	(80 - 120)	SW846 6010B	09/19-09/22/08	KW7LK1AQ
		Dilution Factor: 1		Analysis Time..: 15:59	
LCS Lot-Sample#: I8I250000-494 **Prep Batch #...:** 8269494					
Mercury	99	(80 - 120)	SW846 7470A	09/25-09/26/08	KXMFP1AC
		Dilution Factor: 1		Analysis Time..: 13:01	

NOTE(S):

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

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: I8I170297 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: I8I190000-218 **Prep Batch #...:** 8263218							
Arsenic	0.500	0.505	mg/L	101	SW846 6010B	09/19-09/22/08	KW7LK1AJ
			Dilution Factor: 1		Analysis Time..: 15:59		
Barium	0.500	0.494	mg/L	99	SW846 6010B	09/19-09/22/08	KW7LK1AK
			Dilution Factor: 1		Analysis Time..: 15:59		
Cadmium	0.500	0.503	mg/L	101	SW846 6010B	09/19-09/22/08	KW7LK1AL
			Dilution Factor: 1		Analysis Time..: 15:59		
Chromium	0.500	0.481	mg/L	96	SW846 6010B	09/19-09/22/08	KW7LK1AM
			Dilution Factor: 1		Analysis Time..: 15:59		
Lead	0.500	0.501	mg/L	100	SW846 6010B	09/19-09/22/08	KW7LK1AN
			Dilution Factor: 1		Analysis Time..: 15:59		
Selenium	0.500	0.525	mg/L	105	SW846 6010B	09/19-09/22/08	KW7LK1AP
			Dilution Factor: 1		Analysis Time..: 15:59		
Silver	0.100	0.0996	mg/L	100	SW846 6010B	09/19-09/22/08	KW7LK1AQ
			Dilution Factor: 1		Analysis Time..: 15:59		
LCS Lot-Sample#: I8I250000-494 **Prep Batch #...:** 8269494							
Mercury	0.00500	0.00497	mg/L	99	SW846 7470A	09/25-09/26/08	KXMFP1AC
			Dilution Factor: 1		Analysis Time..: 13:01		

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #...: I8I170297 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: I8I220000-305 **Prep Batch #...:** 8266305					
Arsenic	98	(80 - 120)	SW846 6010B	09/22-09/23/08	KXDGM1AJ
		Dilution Factor: 1		Analysis Time..: 11:51	
Barium	98	(80 - 120)	SW846 6010B	09/22-09/23/08	KXDGM1AK
		Dilution Factor: 1		Analysis Time..: 11:51	
Cadmium	100	(80 - 120)	SW846 6010B	09/22-09/23/08	KXDGM1AL
		Dilution Factor: 1		Analysis Time..: 11:51	
Chromium	95	(80 - 120)	SW846 6010B	09/22-09/23/08	KXDGM1AM
		Dilution Factor: 1		Analysis Time..: 11:51	
Lead	98	(80 - 120)	SW846 6010B	09/22-09/23/08	KXDGM1AN
		Dilution Factor: 1		Analysis Time..: 11:51	
Selenium	102	(80 - 120)	SW846 6010B	09/22-09/23/08	KXDGM1AP
		Dilution Factor: 1		Analysis Time..: 11:51	
Silver	97	(80 - 120)	SW846 6010B	09/22-09/23/08	KXDGM1AQ
		Dilution Factor: 1		Analysis Time..: 11:51	
LCS Lot-Sample#: I8I250000-491 **Prep Batch #...:** 8269491					
Mercury	99	(80 - 120)	SW846 7470A	09/25-09/26/08	KXMFF1AC
		Dilution Factor: 1		Analysis Time..: 00:00	

NOTE(S):

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

LABORATORY CONTROL SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #...: I8I170297 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: I8I220000-305 **Prep Batch #...:** 8266305							
Arsenic	0.500	0.491	mg/L	98	SW846 6010B	09/22-09/23/08	KXDGM1AJ
			Dilution Factor: 1		Analysis Time..: 11:51		
Barium	0.500	0.492	mg/L	98	SW846 6010B	09/22-09/23/08	KXDGM1AK
			Dilution Factor: 1		Analysis Time..: 11:51		
Cadmium	0.500	0.498	mg/L	100	SW846 6010B	09/22-09/23/08	KXDGM1AL
			Dilution Factor: 1		Analysis Time..: 11:51		
Chromium	0.500	0.474	mg/L	95	SW846 6010B	09/22-09/23/08	KXDGM1AM
			Dilution Factor: 1		Analysis Time..: 11:51		
Lead	0.500	0.490	mg/L	98	SW846 6010B	09/22-09/23/08	KXDGM1AN
			Dilution Factor: 1		Analysis Time..: 11:51		
Selenium	0.500	0.512	mg/L	102	SW846 6010B	09/22-09/23/08	KXDGM1AP
			Dilution Factor: 1		Analysis Time..: 11:51		
Silver	0.100	0.0971	mg/L	97	SW846 6010B	09/22-09/23/08	KXDGM1AQ
			Dilution Factor: 1		Analysis Time..: 11:51		
LCS Lot-Sample#: I8I250000-491 **Prep Batch #...:** 8269491							
Mercury	0.00500	0.00496	mg/L	99	SW846 7470A	09/25-09/26/08	KXMFF1AC
			Dilution Factor: 1		Analysis Time..: 00:00		

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Lot-Sample #...: I8I170297 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Alkalinity		WO#:KW7A11AC-LCS/KW7A11AD-LCSD				LCS Lot-Sample#: I8I190000-153	
	103	(90 - 110)			SM19 2320 B	09/19/08	8263153
	103	(90 - 110)	0.01	(0-20)	SM19 2320 B	09/19/08	8263153

Dilution Factor: 1 Analysis Time..: 08:00

NOTE(S):

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

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Lot-Sample #...: I8I170297 Matrix.....: WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Alkalinity		WO#:KW7A11AC-LCS/KW7A11AD-LCSD				LCS Lot-Sample#: I8I190000-153		
	100	103	mg/L	103		SM19 2320 B	09/19/08	8263153
	100	103	mg/L	103	0.01	SM19 2320 B	09/19/08	8263153

Dilution Factor: 1 Analysis Time..: 08:00

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: I8I170297 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride		Work Order #: KW6481AC	LCS Lot-Sample#: I8I190000-104		
	93	(90 - 110)	MCAWW 300.0A	09/18/08	8263104
		Dilution Factor: 1	Analysis Time..: 13:08		
Sulfate		Work Order #: KW6451AC	LCS Lot-Sample#: I8I190000-099		
	101	(90 - 110)	MCAWW 300.0A	09/18/08	8263099
		Dilution Factor: 1	Analysis Time..: 08:39		
Total Dissolved Solids		Work Order #: KXDWT1AC	LCS Lot-Sample#: I8I220000-477		
	96	(87 - 113)	SM19 2540 C	09/22/08	8266477
		Dilution Factor: 1	Analysis Time..: 16:02		

NOTE(S):

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

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Client Lot #...: I8I170297 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride			Work Order #: KW6481AC		LCS Lot-Sample#:	I8I190000-104	
	4.00	3.71	mg/L	93	MCAWW 300.0A	09/18/08	8263104
			Dilution Factor: 1		Analysis Time..: 13:08		
Sulfate			Work Order #: KW6451AC		LCS Lot-Sample#:	I8I190000-099	
	4.00	4.05	mg/L	101	MCAWW 300.0A	09/18/08	8263099
			Dilution Factor: 1		Analysis Time..: 08:39		
Total Dissolved Solids			Work Order #: KXDWT1AC		LCS Lot-Sample#:	I8I220000-477	
	2010	1940	mg/L	96	SM19 2540 C	09/22/08	8266477
			Dilution Factor: 1		Analysis Time..: 16:02		

NOTE(S):

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

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #...: I8I170297 Work Order #...: KW3FG1DW-MS Matrix.....: WG
MS Lot-Sample #: I8I170297-001 KW3FG1DX-MSD
Date Sampled...: 09/16/08 10:20 Date Received..: 09/17/08
Prep Date.....: 09/20/08 Analysis Date..: 09/20/08
Prep Batch #...: 8266527 Analysis Time..: 19:35
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzene	115	(80 - 115)			SW846 8021B
	117 a	(80 - 115)	2.1	(0-20)	SW846 8021B
Toluene	115	(85 - 115)			SW846 8021B
	119 a	(85 - 115)	2.8	(0-20)	SW846 8021B
Ethylbenzene	111	(81 - 115)			SW846 8021B
	115	(81 - 115)	3.7	(0-20)	SW846 8021B
Xylenes (total)	115	(86 - 119)			SW846 8021B
	119	(86 - 119)	3.2	(0-20)	SW846 8021B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	110	(81 - 119)
	109	(81 - 119)
a,a,a-Trifluorotoluene (TFT)	99	(72 - 127)
	100	(72 - 127)

NOTE(S):

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

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

GC Volatiles

Client Lot #...: I8I170297 Work Order #...: KW3FG1DW-MS Matrix.....: WG
MS Lot-Sample #: I8I170297-001 KW3FG1DX-MSD
Date Sampled...: 09/16/08 10:20 Date Received..: 09/17/08
Prep Date.....: 09/20/08 Analysis Date..: 09/20/08
Prep Batch #...: 8266527 Analysis Time..: 19:35
Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Benzene	ND	0.0200	0.0230	mg/L	115		SW846 8021B
	ND	0.0200	0.0235	mg/L	117 a	2.1	SW846 8021B
Toluene	ND	0.0200	0.0231	mg/L	115		SW846 8021B
	ND	0.0200	0.0238	mg/L	119 a	2.8	SW846 8021B
Ethylbenzene	ND	0.0200	0.0222	mg/L	111		SW846 8021B
	ND	0.0200	0.0231	mg/L	115	3.7	SW846 8021B
Xylenes (total)	ND	0.0600	0.0691	mg/L	115		SW846 8021B
	ND	0.0600	0.0713	mg/L	119	3.2	SW846 8021B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	110	(81 - 119)
	109	(81 - 119)
a,a,a-Trifluorotoluene (TFT)	99	(72 - 127)
	100	(72 - 127)

NOTE(S):

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

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: I8I170297 **Matrix.....:** WG
Date Sampled...: 09/16/08 10:20 **Date Received..:** 09/17/08

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: I8I170297-001 **Prep Batch #...:** 8263218							
Arsenic	96	(75 - 125)			SW846 6010B	09/19-09/23/08	KW3FG1A4
	96	(75 - 125)	0.36	(0-20)	SW846 6010B	09/19-09/23/08	KW3FG1A5
		Dilution Factor: 1					
		Analysis Time..: 10:35					
Barium	103	(75 - 125)			SW846 6010B	09/19-09/22/08	KW3FG1A6
	101	(75 - 125)	1.2	(0-20)	SW846 6010B	09/19-09/22/08	KW3FG1A7
		Dilution Factor: 1					
		Analysis Time..: 17:16					
Cadmium	98	(75 - 125)			SW846 6010B	09/19-09/22/08	KW3FG1A8
	96	(75 - 125)	1.9	(0-20)	SW846 6010B	09/19-09/22/08	KW3FG1A9
		Dilution Factor: 1					
		Analysis Time..: 17:16					
Chromium	96	(75 - 125)			SW846 6010B	09/19-09/22/08	KW3FG1CA
	94	(75 - 125)	2.0	(0-20)	SW846 6010B	09/19-09/22/08	KW3FG1CC
		Dilution Factor: 1					
		Analysis Time..: 17:16					
Lead	99	(75 - 125)			SW846 6010B	09/19-09/22/08	KW3FG1CD
	97	(75 - 125)	1.7	(0-20)	SW846 6010B	09/19-09/22/08	KW3FG1CE
		Dilution Factor: 1					
		Analysis Time..: 17:16					
Selenium	103	(75 - 125)			SW846 6010B	09/19-09/22/08	KW3FG1CF
	100	(75 - 125)	2.7	(0-20)	SW846 6010B	09/19-09/22/08	KW3FG1CG
		Dilution Factor: 1					
		Analysis Time..: 17:16					
Silver	105	(75 - 125)			SW846 6010B	09/19-09/22/08	KW3FG1CH
	103	(75 - 125)	1.7	(0-20)	SW846 6010B	09/19-09/22/08	KW3FG1CJ
		Dilution Factor: 1					
		Analysis Time..: 17:16					
MS Lot-Sample #: I8I170297-001 **Prep Batch #...:** 8269494							
Mercury	100	(75 - 125)			SW846 7470A	09/25-09/26/08	KW3FG1D0
	102	(75 - 125)	1.9	(0-20)	SW846 7470A	09/25-09/26/08	KW3FG1D1
		Dilution Factor: 1					
		Analysis Time..: 13:04					

NOTE(S):

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

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: I8I170297 **Matrix.....:** WG
Date Sampled...: 09/16/08 10:20 **Date Received..:** 09/17/08

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: I8I170297-001 **Prep Batch #...:** 8263218									
Arsenic									
	0.014	0.500	0.494	mg/L	96		SW846 6010B	09/19-09/23/08	KW3FG1A4
	0.014	0.500	0.492	mg/L	96	0.36	SW846 6010B	09/19-09/23/08	KW3FG1A5
			Dilution Factor: 1						
			Analysis Time..: 10:35						
Barium									
	0.40	0.500	0.915	mg/L	103		SW846 6010B	09/19-09/22/08	KW3FG1A6
	0.40	0.500	0.904	mg/L	101	1.2	SW846 6010B	09/19-09/22/08	KW3FG1A7
			Dilution Factor: 1						
			Analysis Time..: 17:16						
Cadmium									
	ND	0.500	0.488	mg/L	98		SW846 6010B	09/19-09/22/08	KW3FG1A8
	ND	0.500	0.479	mg/L	96	1.9	SW846 6010B	09/19-09/22/08	KW3FG1A9
			Dilution Factor: 1						
			Analysis Time..: 17:16						
Chromium									
	0.0024	0.500	0.482	mg/L	96		SW846 6010B	09/19-09/22/08	KW3FG1CA
	0.0024	0.500	0.472	mg/L	94	2.0	SW846 6010B	09/19-09/22/08	KW3FG1CC
			Dilution Factor: 1						
			Analysis Time..: 17:16						
Lead									
	ND	0.500	0.493	mg/L	99		SW846 6010B	09/19-09/22/08	KW3FG1CD
	ND	0.500	0.484	mg/L	97	1.7	SW846 6010B	09/19-09/22/08	KW3FG1CE
			Dilution Factor: 1						
			Analysis Time..: 17:16						
Selenium									
	0.0072	0.500	0.523	mg/L	103		SW846 6010B	09/19-09/22/08	KW3FG1CF
	0.0072	0.500	0.509	mg/L	100	2.7	SW846 6010B	09/19-09/22/08	KW3FG1CG
			Dilution Factor: 1						
			Analysis Time..: 17:16						
Silver									
	ND	0.100	0.105	mg/L	105		SW846 6010B	09/19-09/22/08	KW3FG1CH
	ND	0.100	0.103	mg/L	103	1.7	SW846 6010B	09/19-09/22/08	KW3FG1CJ
			Dilution Factor: 1						
			Analysis Time..: 17:16						
MS Lot-Sample #: I8I170297-001 **Prep Batch #...:** 8269494									

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: I8I170297 **Matrix.....:** WG
Date Sampled...: 09/16/08 10:20 **Date Received..:** 09/17/08

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Mercury									
	ND	0.00200	0.00201	mg/L	100		SW846 7470A	09/25-09/26/08	KW3FG1D0
	ND	0.00200	0.00205	mg/L	102	1.9	SW846 7470A	09/25-09/26/08	KW3FG1D1

Dilution Factor: 1
Analysis Time..: 13:04

NOTE(S):

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

MATRIX SPIKE SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #...: I8I170297 Matrix.....: WATER
Date Sampled...: 09/11/08 15:10 Date Received..: 09/17/08

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: I8I170184-002 Prep Batch #...: 8266305							
Arsenic	100	(75 - 125)			SW846 6010B	09/22-09/23/08	KW2PG1A0
	101	(75 - 125)	0.98	(0-20)	SW846 6010B	09/22-09/23/08	KW2PG1A1
		Dilution Factor: 1					
		Analysis Time..: 12:10					
Barium	102	(75 - 125)			SW846 6010B	09/22-09/23/08	KW2PG1A2
	104	(75 - 125)	2.2	(0-20)	SW846 6010B	09/22-09/23/08	KW2PG1A3
		Dilution Factor: 1					
		Analysis Time..: 12:10					
Cadmium	90	(75 - 125)			SW846 6010B	09/22-09/23/08	KW2PG1A4
	91	(75 - 125)	1.0	(0-20)	SW846 6010B	09/22-09/23/08	KW2PG1A5
		Dilution Factor: 1					
		Analysis Time..: 12:10					
Chromium	91	(75 - 125)			SW846 6010B	09/22-09/23/08	KW2PG1A6
	92	(75 - 125)	0.88	(0-20)	SW846 6010B	09/22-09/23/08	KW2PG1A7
		Dilution Factor: 1					
		Analysis Time..: 12:10					
Lead	92	(75 - 125)			SW846 6010B	09/22-09/23/08	KW2PG1A8
	92	(75 - 125)	0.51	(0-20)	SW846 6010B	09/22-09/23/08	KW2PG1A9
		Dilution Factor: 1					
		Analysis Time..: 12:10					
Selenium	110	(75 - 125)			SW846 6010B	09/22-09/23/08	KW2PG1CA
	112	(75 - 125)	2.0	(0-20)	SW846 6010B	09/22-09/23/08	KW2PG1CC
		Dilution Factor: 1					
		Analysis Time..: 12:10					
Silver	104	(75 - 125)			SW846 6010B	09/22-09/23/08	KW2PG1CD
	106	(75 - 125)	2.3	(0-20)	SW846 6010B	09/22-09/23/08	KW2PG1CE
		Dilution Factor: 1					
		Analysis Time..: 12:10					
MS Lot-Sample #: I8I170184-002 Prep Batch #...: 8269491							
Mercury	63 N	(75 - 125)			SW846 7470A	09/25-09/26/08	KW2PG1CF
	60 N	(75 - 125)	4.9	(0-20)	SW846 7470A	09/25-09/26/08	KW2PG1CG
		Dilution Factor: 1					
		Analysis Time..: 12:26					

NOTE(S):

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

N Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #...: I8I170297 **Matrix.....:** WATER
Date Sampled...: 09/11/08 15:10 **Date Received..:** 09/17/08

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: I8I170184-002 **Prep Batch #...:** 8266305									
Arsenic									
	0.019	0.500	0.521	mg/L	100		SW846 6010B	09/22-09/23/08	KW2PG1A0
	0.019	0.500	0.526	mg/L	101	0.98	SW846 6010B	09/22-09/23/08	KW2PG1A1
			Dilution Factor: 1						
			Analysis Time..: 12:10						
Barium									
	0.011	0.500	0.518	mg/L	102		SW846 6010B	09/22-09/23/08	KW2PG1A2
	0.011	0.500	0.530	mg/L	104	2.2	SW846 6010B	09/22-09/23/08	KW2PG1A3
			Dilution Factor: 1						
			Analysis Time..: 12:10						
Cadmium									
	ND	0.500	0.449	mg/L	90		SW846 6010B	09/22-09/23/08	KW2PG1A4
	ND	0.500	0.454	mg/L	91	1.0	SW846 6010B	09/22-09/23/08	KW2PG1A5
			Dilution Factor: 1						
			Analysis Time..: 12:10						
Chromium									
	ND	0.500	0.457	mg/L	91		SW846 6010B	09/22-09/23/08	KW2PG1A6
	ND	0.500	0.461	mg/L	92	0.88	SW846 6010B	09/22-09/23/08	KW2PG1A7
			Dilution Factor: 1						
			Analysis Time..: 12:10						
Lead									
	0.0026	0.500	0.462	mg/L	92		SW846 6010B	09/22-09/23/08	KW2PG1A8
	0.0026	0.500	0.464	mg/L	92	0.51	SW846 6010B	09/22-09/23/08	KW2PG1A9
			Dilution Factor: 1						
			Analysis Time..: 12:10						
Selenium									
	0.0052	0.500	0.555	mg/L	110		SW846 6010B	09/22-09/23/08	KW2PG1CA
	0.0052	0.500	0.566	mg/L	112	2.0	SW846 6010B	09/22-09/23/08	KW2PG1CC
			Dilution Factor: 1						
			Analysis Time..: 12:10						
Silver									
	ND	0.100	0.104	mg/L	104		SW846 6010B	09/22-09/23/08	KW2PG1CD
	ND	0.100	0.106	mg/L	106	2.3	SW846 6010B	09/22-09/23/08	KW2PG1CE
			Dilution Factor: 1						
			Analysis Time..: 12:10						

MS Lot-Sample #: I8I170184-002 **Prep Batch #...:** 8269491

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #...: I8I170297 Matrix.....: WATER
Date Sampled...: 09/11/08 15:10 Date Received..: 09/17/08

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Mercury									
	ND	0.00200	0.00126	mg/L	63		SW846 7470A	09/25-09/26/08	KW2PG1CF
			Qualifiers: N						
	ND	0.00200	0.00120	mg/L	60	4.9	SW846 7470A	09/25-09/26/08	KW2PG1CG
			Qualifiers: N						
			Dilution Factor: 1						
			Analysis Time..: 12:26						

NOTE(S):

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

N Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: I8I170297 **Matrix.....:** WATER
Date Sampled...: 09/17/08 11:02 **Date Received..:** 09/17/08

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride		WO#: KW4E01AR-MS/KW4E01AT-MSD				MS Lot-Sample #: I8I170320-010	
	76 N	(90 - 110)			MCAWW 300.0A	09/18/08	8263104
	85 N	(90 - 110)	7.3	(0-20)	MCAWW 300.0A	09/18/08	8263104
		Dilution Factor: 50					
		Analysis Time..: 19:25					
Sulfate		WO#: KW4E01AP-MS/KW4E01AQ-MSD				MS Lot-Sample #: I8I170320-010	
	78 N	(90 - 110)			MCAWW 300.0A	09/18/08	8263099
	89 N	(90 - 110)	7.6	(0-20)	MCAWW 300.0A	09/18/08	8263099
		Dilution Factor: 50					
		Analysis Time..: 19:25					

NOTE(S):

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

N Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

General Chemistry

Client Lot #...: I8I170297 **Matrix.....:** WATER
Date Sampled...: 09/17/08 11:02 **Date Received..:** 09/17/08

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride			WO#: KW4E01AR-MS/KW4E01AT-MSD MS Lot-Sample #: I8I170320-010						
	94.7	200	247 N	mg/L	76		MCAWW 300.0A	09/18/08	8263104
	94.7	200	265 N	mg/L	85	7.3	MCAWW 300.0A	09/18/08	8263104
			Dilution Factor: 50						
			Analysis Time..: 19:25						
Sulfate			WO#: KW4E01AP-MS/KW4E01AQ-MSD MS Lot-Sample #: I8I170320-010						
	109	200	266 N	mg/L	78		MCAWW 300.0A	09/18/08	8263099
	109	200	286 N	mg/L	89	7.6	MCAWW 300.0A	09/18/08	8263099
			Dilution Factor: 50						
			Analysis Time..: 19:25						

NOTE(S):

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

N Spiked analyte recovery is outside stated control limits.

SAMPLE DUPLICATE EVALUATION REPORT

Metals

Client Lot #...: I8I170297 **Work Order #...:** KW3FG-SMP KW3FG-DUP **Matrix.....:** WG

Date Sampled...: 09/16/08 10:20 **Date Received..:** 09/17/08

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Arsenic						SD Lot-Sample #: I8I170297-001		
	0.014	0.012	mg/L	18	(0-20)	SW846 6010B	09/19-09/22/08	8263218
			Dilution Factor: 1			Analysis Time..: 16:18		
Barium						SD Lot-Sample #: I8I170297-001		
	0.40	0.41	mg/L	2.9	(0-20)	SW846 6010B	09/19-09/22/08	8263218
			Dilution Factor: 1			Analysis Time..: 16:18		
Cadmium						SD Lot-Sample #: I8I170297-001		
	ND	ND	mg/L	0	(0-20)	SW846 6010B	09/19-09/22/08	8263218
			Dilution Factor: 1			Analysis Time..: 16:18		
Chromium						SD Lot-Sample #: I8I170297-001		
	0.0024 B	0.0030 B	mg/L	24	(0-20)	SW846 6010B	09/19-09/22/08	8263218
			Dilution Factor: 1			Analysis Time..: 16:18		
Lead						SD Lot-Sample #: I8I170297-001		
	ND	ND	mg/L	0	(0-20)	SW846 6010B	09/19-09/22/08	8263218
			Dilution Factor: 1			Analysis Time..: 16:18		
Selenium						SD Lot-Sample #: I8I170297-001		
	0.0072	0.0073	mg/L	1.1	(0-20)	SW846 6010B	09/19-09/22/08	8263218
			Dilution Factor: 1			Analysis Time..: 16:18		
Silver						SD Lot-Sample #: I8I170297-001		
	ND	ND	mg/L	0	(0-20)	SW846 6010B	09/19-09/22/08	8263218
			Dilution Factor: 1			Analysis Time..: 16:18		
Mercury						SD Lot-Sample #: I8I170297-001		
	ND	ND	mg/L	0	(0-20)	SW846 7470A	09/25-09/26/08	8269494
			Dilution Factor: 1			Analysis Time..: 13:03		

NOTE(S):

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

B Estimated result. Result is less than RL.

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: I8I170297 **Work Order #...:** KW3FG-SMP KW3FG-DUP **Matrix.....:** WG

Date Sampled...: 09/16/08 10:20 **Date Received..:** 09/17/08

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Alkalinity						SD Lot-Sample #:	I8I170297-001	
	146	146	mg/L	0.42	(0-20)	SM19 2320 B	09/19/08	8263153

Dilution Factor: 1 Analysis Time..: 08:00

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: I8I170297 **Work Order #...:** KW3N2-SMP KW3N2-DUP **Matrix.....:** WATER

Date Sampled...: 09/17/08 08:33 **Date Received..:** 09/17/08

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Alkalinity						SD Lot-Sample #:	I8I170320-001	
	726	731	mg/L	0.80	(0-20)	SM19 2320 B	09/19/08	8263153

Dilution Factor: 1 Analysis Time..: 08:00

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: I8I170297 **Work Order #...:** KW2D2-SMP KW2D2-DUP **Matrix.....:** WATER

Date Sampled...: 09/15/08 08:45 **Date Received..:** 09/17/08

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Dissolved Solids						SD Lot-Sample #: I8I170154-002		
	953	965	mg/L	1.3	(0-20)	SM19 2540 C	09/22/08	8266477
			Dilution Factor: 1			Analysis Time..: 16:06		

Report Attachment

The results included in this report have been reviewed for compliance with the laboratory QA/QC plan and meet all requirements of the NELAC standards. All data have been found to be compliant with laboratory protocol except as otherwise noted.

Note that if this report contains tests performed for the following methods, the associated method deviations are applicable.

EPA 410.4, COD: Laboratory uses different analytical wavelength as specified by instrument manufacturer.
EPA 340.2, Fluoride: Preliminary Bellack distillation not performed.
EPA 624: The laboratory uses a different desorb time and purge volume than stated in the method.
Iowa OA1: Benzene, toluene, ethylbenzene and xylenes (BTEX) are not analyzed along with the Gasoline Range Organics if client does not require BTEX.
EPA TO-12: Samples not analyzed in duplicate.
EPA TO-14A and TO-15: Zero humidified nitrogen is used in place of air for method blanks.

TRRP Reporting Requirements

If this package contains reports requiring TRRP (Texas Risk Reduction Program) reporting criteria, the following information applies.

The REPORTING LIMIT is equivalent to the TRRP acronym MQL (method quantitation limit).
The MDL is equivalent to the TRRP acronym SDL (sample detection limit).

I8I170297

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

CHAIN–OF–CUSTODY ADDENDUM

Lot No: I8I170 297

CHECKED/RECEIVED BY: [signature]

COC NUMBER: _____

DATE/TIME RECEIVED: 9/17/08 08:15

QUOTE/PROFILE: 80814

filter for Diss. mets

UNPACKED DATE/TIME: 9/17/08 09:00

CLIENT/PROJECT: CRA

SAMPLES LOGGED IN: CC

LOG-IN REVIEWED: [signature]

Number of Shipping Containers Received with Chain of Custody _____

VOC AIR / FILTER SAMPLES ☐ YES **SEE SECTIONS 1.0, 2.0, & 6.0**

1.0 CONTAINERS EXAMINED UPON RECEIPT: CC

Container Sealed: ☑ YES ☐ NO Custody Seal Signed/Dated: ☑ YES ☐ NO

Custody Seal Present: ☑ YES ☐ NO

If seal not intact list air bill number of that container(s): _____

2.0 VOC CANISTERS EXAMINED UPON RECEIPT: _____

Canister Valves Closed:	☐ YES ☐ NO	Samples Received Match Chain:	☐ YES	☐ NO
Canister Valves Capped:	☐ YES ☐ NO	Other Equipment Received:	☐ YES	☐ NO
Valve Cap Tightened Properly:	☐ YES ☐ NO	See Additional Comments (Section 5.0 and / or 7.0)	☐ YES	☐ NO
Packing Material Used: (circle)		Chain-of-Custody form properly maintained:	☐ YES	☐ NO
None / Absorbent / Paper / Bubble Wrap		Can Size: ☐ 6L ☐ 15L Other _____		

3.0 SAMPLE TEMPERATURE UPON RECEIPT BY: CC **IR THERMOMETER #:** ☐ P4 ☑ P5

Temperature of the container(s):

Circle selection: TB = Temp. Blank and/or SC = Sample Container CF = Correction Factor *[acceptable tolerance 4°C ± 2°]*

TB ☑ SC ☐	TB ☑ SC ☐	TB ☐ SC ☐	TB ☐ SC ☐	TB ☐ SC ☐	TB ☐ SC ☐	TB ☐ SC ☐	TB ☐ SC ☐
Initial 2.0	Initial 2.1	Initial	Initial	Initial	Initial	Initial	Initial
CF 0	CF 0	CF	CF	CF	CF	CF	CF
Final 2.0°C	Final 2.1°C	Final	Final	Final	Final	Final	Final

If temperature is outside acceptable tolerance, Project Manager was notified (_____PM). Date: _____ Time: _____

Samples received do not require cooling _____ OK to analyze samples: ☑ YES ☐ NO

PRESERVATION OF SAMPLES REQUIRED: ☐ NA ☑ YES ☑ VOA Samples **VERIFIED BY:** CC

NOTE: pH CHECK OF SAMPLES FOR 1664A ANALYSIS CHECK AT TIME OF ANALYSIS BY BENCH ANALYST
pH CHECK OF VOLATILE SAMPLES PERFORMED AFTER ANALYSIS BY THE BENCH ANALYST.

Base samples are>pH 12:	☐ YES ☐ NO	Acid preserved are<pH 2:	☑ YES ☐ NO
Cyanide samples checked for sulfides:	☐ YES	Sulfide samples appear to be preserved with zinc acetate:	☐ YES ☐ NO
Samples checked for chlorine per specification (N.C.)	☐ YES	Free chlorine present:	☐ YES ☐ NO

If sample preservation is outside acceptable tolerance, Project Manager was notified (_____PM)

Date: _____ Time: _____ ☐ see pH adjustment form

VOLATILE SAMPLES FILLED COMPLETELY, IF NOT, LIST ID AND HEADSPACE OF VOA's CONTAINING BUBBLES EXCEEDING 6MM IN DIAMETER:

Sample ID	mm Headspace

Sample ID	mm Headspace

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CHAIN-OF-CUSTODY ADDENDUM

Lot No: _____

4.0 CONDITION OF BOTTLES/CONTAINERS

VERIFIED BY: CC

Samples received match COC:	☑ YES ☐ NO	Bottles received intact:	☑ YES ☐ NO
See additional discrepancies/comments section:	☑ YES ☐ NO	Samples received from USDA restricted area:	☐ YES ☑ NO
Chain-of-Custody form properly maintained:	☑ YES ☐ NO	VOA trip blanks included:	☑ YES ☐ NO ☑ N/A

CC 9-17-08 cc

5.0 ADDITIONAL DISCREPANCIES

Appears on COC		Appears on Label		
Sample ID	Date/Time	Sample ID	Date/Time	Comments

6.0 SHIPPING DOCUMENTATION:

Air/freight bill is available and attached to COC: ☑ YES ☐ NO Air bill #: _____

Hand-delivered Carrier: _____ Date: _____ Time: _____

7.0 OTHER COMMENTS:

Received 5 X 40ml, 2 X 1L, 1 X 1L, 500ml HNO3 per sample
Received 2 X 40ml per cooler (2 set)

CORRECTIVE ACTION:

Client's Name: _____ Informed verbally on: _____ By: _____

Client's Name: _____ Informed verbally on: _____ By: _____

Sample(s) processed "as is" comments: _____

Samples(s) on hold until: _____ If released, notify: _____

REVIEW:

Project Management: _____ Date: 9/17/08

SIGNED ORIGINAL MUST BE RETAINED IN THE PROJECT FILE

Chain of Custody Record

IBI170297
Temperature on Receipt _____

Drinking Water? Yes ☐ No ☒

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TAL-4124 (1007)

Client	Project Manager	Date	Chain of Custody Number
CRA	Tom Larson	9-16-08	091974
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 1 of 1**
2135 S. Loop 250	432-686-0086	60000360	
City / State / Zip Code	**Site Contact**	**Lab Contact**	
Midland / TX / 79707	Hollis Cox	Sachin Kudchadkar	
Project Name and Location (State)	**Carrier/Waybill Number**		
Owen #9 Eunice, NM			
Contract/Purchase Order/Quote No.			
Tom Larson			

Analysis (Attach list if more space is needed)

Special Instructions/ Conditions of Receipt

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	H_2O	Containers & Preservatives: Unpres.	H_2SO_4	HNO_3	HCl	NaOH	ZnAc/ NaOH	None	TPH Method 8015	BTEX 8021B	RCRA 8 Metals 6010B Nitric Acid	Sulfates	TDS	Total Alkalinity	Chlorides 9056	Special Instructions/ Conditions of Receipt
MW-1 091608	9-16-08	10:20					X				X	X		X	X	X	X	X	X	X	X	Please filter @ lab for metals 2.1° C 9-17-08
MW-2 091608	9-16-08	11:15					X				X	X		X	X	X	X	X	X	X	X	
MW-3 091608	9-16-08	11:45					X				X	X		X	X	X	X	X	X	X	X	
MW-4 091608	9-16-08	12:45					X				X	X		X	X	X	X	X	X	X	X	
Dup	9-16-08	—					X				X	X		X	X	X	X	X	X	X	X	
Trip Blank	9-16-08	—					X							X								
Temp.	9-16-08	—					X							X								

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months
(A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other NORMAL TAT

QC Requirements (Specify)

1. Relinquished By	Date	Time	1. Received By	Date	Time
	9-16-08	1515		9-17-08	0815
2. Relinquished By	Date	Time	2. Received By	Date	Time
3. Relinquished By	Date	Time	3. Received By	Date	Time

Comments

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

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